

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0007162, Charlton County **OFFICE** Preconstruction
CSBRG-0007-00(162)
SR 185 over Joaquin Creek-
Bridge Replacement **DATE** June 2, 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
Ben Buchan
Paul Liles
Glenn Durrence
Brad Saxon
BOARD MEMBER

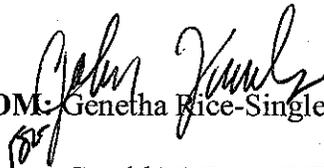
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 0007162, Charlton County
CSBRG-0007-00(162)
S.R. 185 over Joaquin Creek-
Bridge Replacement

OFFICE: Preconstruction

DATE: May 7, 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 S.R. 185 over Joaquin Creek, 2.5 miles south of JCT SR 94. The existing bridge, constructed in 1961, is a 84' x 26' concrete structure with a sufficiency rating of 74. The original design load capacity is H-15. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement. S.R. 185 at this location is a rural two lane roadway with 12' lanes and 2' paved and variable width grass shoulders. The posted speed is 55 MPH. S.R. 185 is classified as a rural major collector. The existing traffic (2007) along this section of S.R. 185 is 300 VPD. The design year (2032) volumes are projected to be 1500 VPD. The proposed speed design is 55 MPH.

The project proposes to install a new 48' precast concrete arch culvert (88' long) over Joaquin Creek at the existing bridge site. The travel lanes will consist of two, 12' lanes with 10' rural shoulders (6.5' paved). The new culvert will be staged constructed. A slightly longer culvert will be designed to be utilized as a detour for stage 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.

This project will require split funding because the sufficiency rating exceeds 50. "BR" funding will cover the amount equal to the widening and the remainder will consist of "STP" funding

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>FUNDING</u>	<u>PROG DATE</u>
Construction (includes E&C)	BR \$ 650,000	BR \$ 450,000	L1C0	LR
	STP \$1,010,000	STP ---	L200	LR
Right-of-way	\$ 100,000	\$ 50,000	L1C0	LR
Utilities	\$ 25,000			

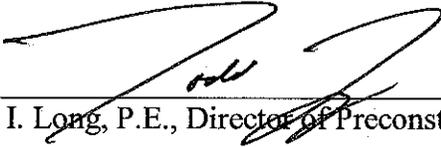
* Notification letter sent to Charlton County 4-21-05

I recommend this project concept be approved.

GRS: JDQ

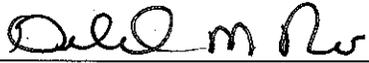
Attachment

CONCUR



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

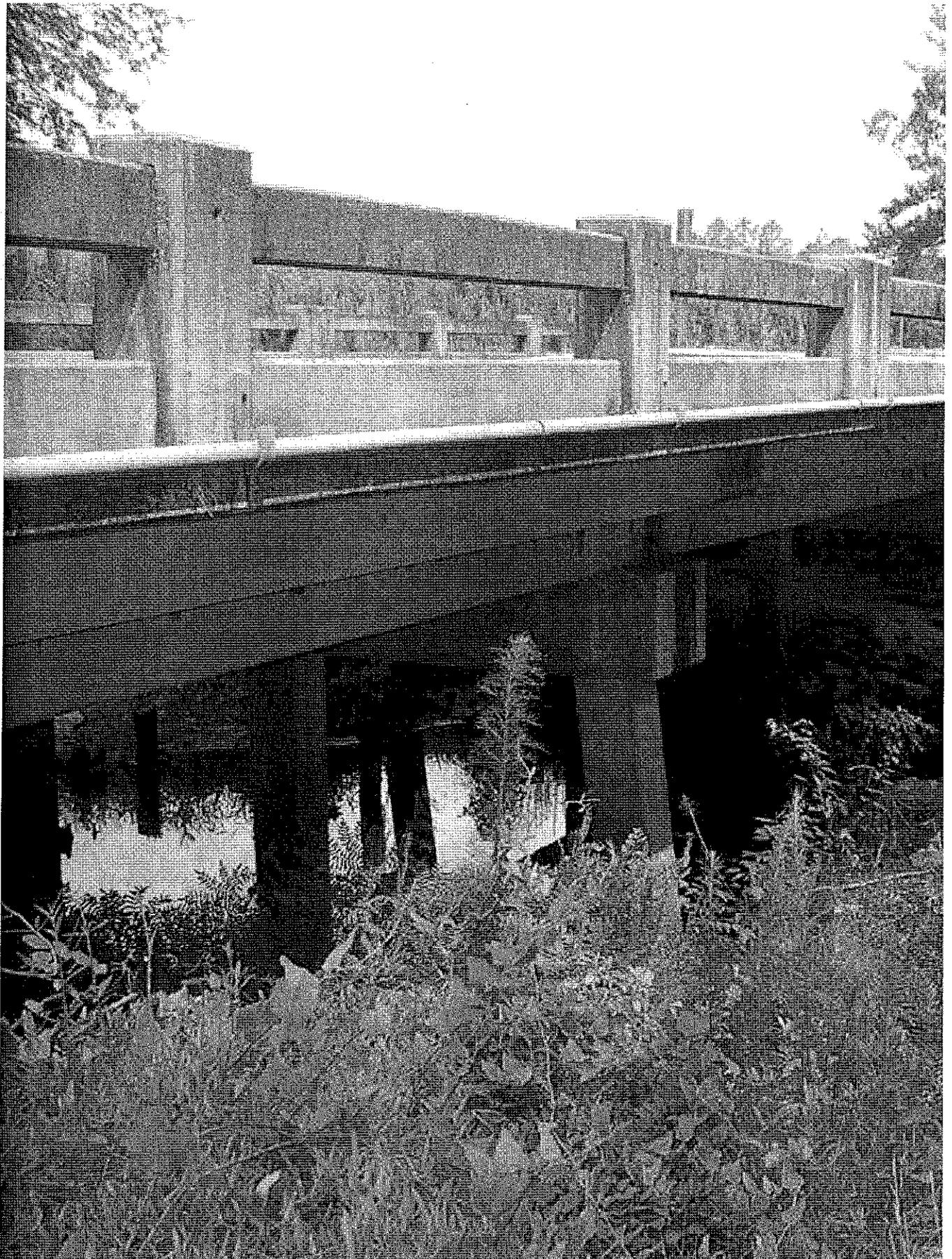
APPROVED



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







Project Concept Report page 1
Project Number: CSBRG-0007-00(162)
P. I. Number: 0007162
County: Charlton

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

Office: *Jesup*

Project Number: CSBRG-0007-00(162)

County: Charlton

P. I. Number: 0007162

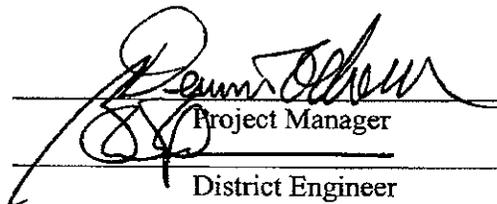
Federal Route Number: N/A

State Route Number: 185

Recommendation for approval:

DATE 3/3/08

DATE 3/3/08



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/or the State Transportation Improvement Program (STIP).

DATE _____

DATE _____

DATE _____

DATE 3-12-08

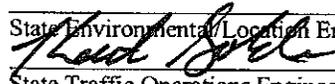
DATE _____

DATE _____

State Transportation Planning Administrator

State Transportation Programming Engineer

State Environmental/Location Engineer



State Traffic Operations Engineer

Project Review Engineer

State Bridge and Structural Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0007162

OFFICE: Environment/Location

DATE: February 14, 2008

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

TO: Genetha-Rice Singleton, Assistant Director of Preconstruction

SUBJECT: **PROJECT CONCEPT REPORT**
CSBRG-0007-00(162) / Charlton County
SR185 over Joaquin Creek

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

1. The Bridge was built in 1961 and is not listed on current GHBS.
2. May need January/February Survey for Indigo Snake and Flatwood Salamander depending on the habitats encountered.
3. Page 5 – The schedule says nine (9) months for Environmental; however, no dates are provided for ROW.
4. Air Studies are complete. Noise Studies are not required.

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
Glenn Durrence
Paul Liles

Project Concept Report page 1
Project Number: CSBRG-0007-00(162)
P. I. Number: 0007162
County: Charlton

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

Office: *Jesup*

Project Number: CSBRG-0007-00(162)

County: Charlton

P. I. Number: 0007162

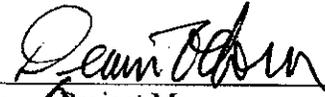
Federal Route Number: N/A

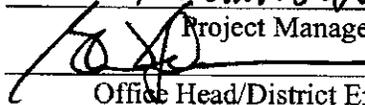
State Route Number: 185

Recommendation for approval:

DATE 01-14-08

DATE 1-16-08



Project Manager


Office Head/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/or the State Transportation Improvement Program (STIP).

DATE _____

DATE _____

DATE 2/18/08

DATE _____

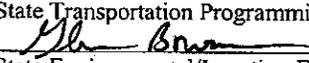
DATE 1-16-08

DATE _____

DATE _____

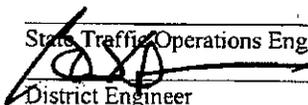
State Transportation Planning Administrator

State Transportation Programming Engineer



State Environmental/Location Engineer

State Traffic Operations Engineer



District Engineer

Project Review Engineer

Other Offices as required such as; Bridge Design, etc.

Project Concept Report page 1
Project Number: CSBRG-0007-00(162)
P. I. Number: 0007162
County: Charlton

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

Office: *Jesup*

Project Number: CSBRG-0007-00(162)

County: Charlton

P. I. Number: 0007162

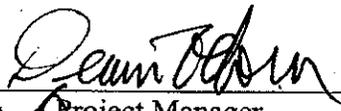
Federal Route Number: N/A

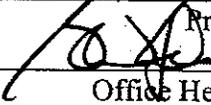
State Route Number: 185

Recommendation for approval:

DATE 01-14-08

DATE 1-16-08



Project Manager


Office Head/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/or the State Transportation Improvement Program (STIP).

DATE _____

DATE _____

DATE _____

DATE _____

DATE 1-16-08

DATE _____

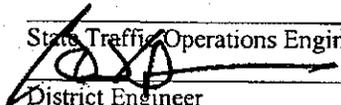
DATE 2/2/08

State Transportation Planning Administrator

State Transportation Programming Engineer

State Environmental/Location Engineer

State Traffic Operations Engineer

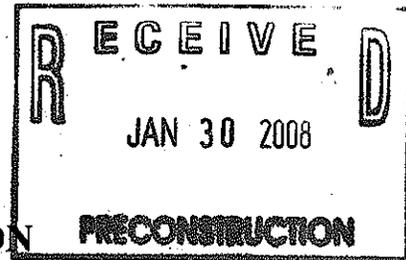


District Engineer

Project Review Engineer

Other Offices as required such as; Bridge Design, etc.

Project Concept Report page 1
Project Number: CSBRG-0007-00(162)
P. I. Number: 0007162
County: Charlton



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office: *Jesup*

Project Number: CSBRG-0007-00(162)

County: Charlton

P. I. Number: 0007162

Federal Route Number: N/A

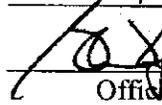
State Route Number: 185

Recommendation for approval:

DATE 01-14-08

DATE 1-16-08



Project Manager


Office Head/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/or the State Transportation Improvement Program (STIP).

DATE _____

DATE _____

DATE _____

DATE 1-25-08

DATE 1-16-08

DATE _____

DATE _____

State Transportation Planning Administrator

State Transportation Programming Engineer



State Environmental/Location Engineer

State Traffic Operations Engineer



District Engineer

Project Review Engineer

Other Offices as required such as; Bridge Design, etc.

Project Concept Report page 1
Project Number: CSBRG-0007-00(162)
P. I. Number: 0007162
County: Charlton

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Office: Jesup

Project Number: CSBRG-0007-00(162)

County: Charlton

P. I. Number: 0007162

Federal Route Number: N/A

State Route Number: 185

Recommendation for approval:

DATE 3/3/08

DATE 3/3/08



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/or the State Transportation Improvement Program (STIP).

DATE 3/11/08

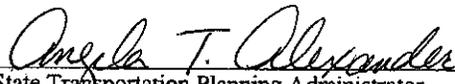
DATE _____

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State Transportation Planning Administrator

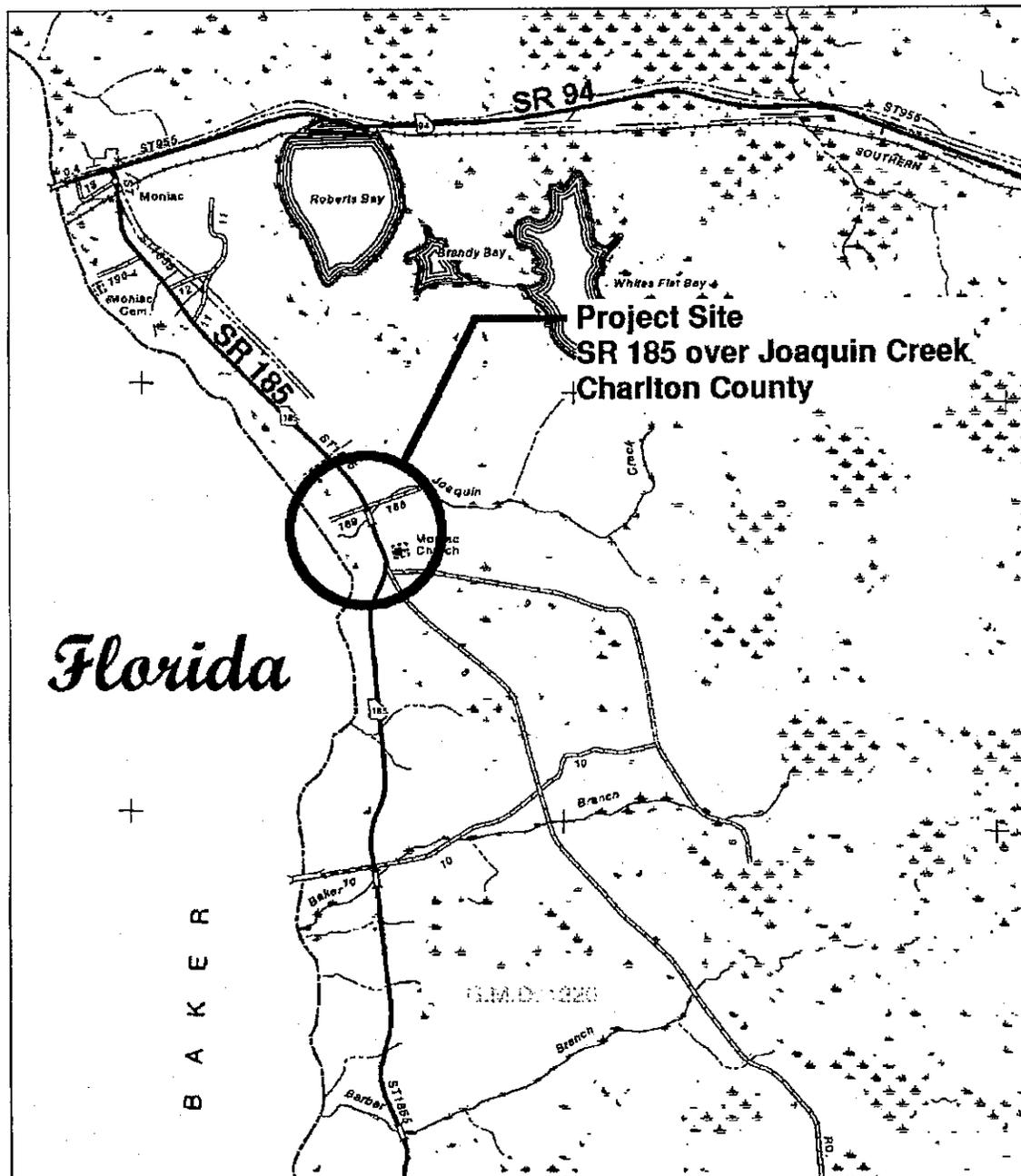
State Transportation Programming Engineer

State Environmental/Location Engineer

State Traffic Operations Engineer

Project Review Engineer

State Bridge and Structural Engineer



Scale: 1 inch = 1 mile

Location Map

Project: CSBRG-0007-00(162), Charlton County PI No.: 0007162
Description: SR 185 over Joaquin Creek 2.5 MI South of JCT SR 94

Need and Purpose: The purpose of project CSBRG-0007-00(162) is to replace a functionally deficient bridge on S.R.185 over Joaquin Creek in Charlton County. The existing bridge sufficiency rating is currently 74.33, the condition and type of the existing substructure and superstructure is such that it is not recommended for widening or rehabilitation.

Description of the proposed project: Project CSBRG-0007-00(162) is a bridge replacement project in Charlton County 2.5 miles south of Junction with SR-94 on State Route 185 over Joaquin Creek. The total project length is approximately 1800 feet (0.341 miles), beginning at M.P. 10.32 and extending to M.P. 10.66.

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

PDP Classification:

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

Functional Classification: Rural Major Collector

U. S. Route Number(s):

State Route Number(s): 185

Traffic (AADT):

Current Year: (2007) 300..... Design Year: (2032) 1500.....

Existing design features:

- Typical Section: 2-12 ft travel lanes, with a 2 ft paved and variable width grassed shoulder on both sides.
- Posted speed 55 mph Maximum degree of curvature: 3°
- Maximum grade: 1.6% Mainline; N/A Cross Roads; and 10.0% Driveways
- Width of right of way: 100 ft.
- Major structures: Concrete Bridge, for a total length of 84 ft, width 32.25 ft, (bridge roadway width 26 ft) sufficiency rating is 74.33.
- Major interchanges or intersections along the project: NONE
- Existing length of the S.R. 185 roadway is approximately 2200 feet long beginning at the PT of the curve south of the bridge and ending roughly 1400 feet north of the existing bridge at a point on the curve along which the existing bridge was built.

Proposed Design Features:

Proposed typical section(s): Two 12'-0" travel lanes with 10'-0" graded shoulders (6.5 ft paved to full depth). Typical section attached. (Shoulder to be paved under guardrail).

- Proposed Design Speed Mainline 55 mph
- Proposed Maximum grade Mainline 2%. Maximum grade allowable 6%.
- Proposed Maximum grade Side Street N/A. Maximum grade allowable 12%.
- Proposed Maximum grade driveway 12%.
- Proposed Maximum degree of curvature 3°. Maximum degree allowable 3° 28' 20.9".
- Right of way
 - Width: Additional R/W will be required 25 feet on east side and 45 feet on west side.

- Easements: Temporary (X), Permanent (), Utility (X), Other ().
- Type of access control: Full (), Partial (), By Permit (X), Other ().
- Number of parcels: 5 Number of displacements: None
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0

• Structures:

- Bridges The proposed concrete bridge will be replaced with a 48 foot Precast Concrete Arch culvert 88 feet long.
- Retaining walls None Required

• Major intersections and interchanges. None

- Traffic control during construction: *The new arch culvert will be staged constructed; a slightly longer arch culvert will be designed to be utilized as a detour structure for stage 2 construction. The attached cost estimate includes a breakout of the cost associated with the detour 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; NONE

- Environmental concerns: Nationwide 404 with PCN, Comprehensive Monitoring Plan.

• Level of environmental analysis:

- Are Time Savings Procedures appropriate? Yes (X), No (),
- Categorical exclusion Anticipated,

- Utility involvements: Okefenokee Rural EMC overhead power lines on the east side of S.R.185 and service connection on west side, Atlanta Gas & Light and Alltel also has services in the area.

Project responsibilities:

- Design: District 5 Design/PB Americas Inc.
- Right of Way Acquisition: Subconsultant.
- Relocation of Utilities: Utility Companies.
- Letting to contract: General Office (Office of Contract Administration)
- Supervision of construction: District 5 Construction Office
- Providing material pits: Responsibility of the Construction Contractor
- Providing detours: Contractor.

Coordination

- Initial Concept Meeting date and brief summary. Attach minutes.
- Concept meeting date and brief summary. Attach minutes.
- Public involvement. None
- Local government comments. None
- Other projects in the area. None
- Other coordination to date. None

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 9 Months.
- Time to complete preliminary construction plans: 3 Months.
- Time to complete right of way plans: 1 Month.
- Time to complete the Section 404 Permit: 2 Months.
- Time to complete final construction plans: 3 Months.
- Time to complete to purchase right of way: 9 Months.
- Time to complete construction: 18 Months.
- List other major items that will affect the project schedule: N/A Months.

Other alternates considered: (1) Construct proposed bridge at same location as the existing bridge with temporary on-site detour and detour bridge; (2) Construct proposed bridge widening at same location as the existing bridge with a one lane on-site detour (the existing bridge will be widen one side at a time using a wig-wag traffic signal light); (3) Stage construct proposed bridge parallel to and offset from the existing bridge on a new alignment with temporary on-site detour and detour bridge, removing existing bridge; (4) Stage construct 48 foot span precast concrete arch culvert to replace the existing bridge with temporary on-site detour (5) No Build

Comments:

Comparison Summary of Concepts 1 - 5

Alternate (2) is not recommended for this concept because of several reasons; the current bridge concrete piles are spalling at the waterline of the bents, the existing bridge has been posted for restrictive weight limits, and the existing bridge is underwater in a 100 year flood event (abnormal flood event St. Mary's River). The cost to widen the bridge is \$618,900.00; the cost of the detour for this alternate is \$77,100.00.

Alternate (1 & 3) is not recommended for this concept because it will require to raise the roadway profile six and a half feet above the existing surface due to the clearance requirements above the floodplain elevation of St Mary's River and the minimum required beam configurations.. Also it is not the most cost effective alternative; it will be more disruptive to traffic and will have greater impact to stream buffers. The cost to replace the bridge is \$2,009,100.00; the cost of the detour for this alternate is \$440,600.00.

Alternate (4) is recommended for this concept because it is the most cost effective alternative; a 88 feet long precast concrete arch culvert option will only require the profile to raised three feet. The cost to build the arch culvert is \$1,656,000.00; the cost of the detour for this alternate is \$184,400.00. Alternate 4 will also minimize wetland and stream buffer impacts.

Project Concept Report page 6
Project Number: CSBRG-0007-00(162)
P. I. Number: 0007162
County: Charlton

Alternate (5) was eliminated due to the condition of the existing bridge (Sufficiency Rating of 74.33) and also because of the long-term maintenance cost on a structurally and functionally deficient bridge.

Attachments:

1. Notice of Location and Design Approval
2. Cost Estimates:
 - a. Construction including E&C,
 - b. Right of Way, and
 - c. Utilities.
3. Typical sections,
4. Bridge inventory,
5. Concept Team Meeting Minutes
6. Benefit Cost Analysis Ratio

NOTICE OF LOCATION AND DESIGN APPROVAL

Project No. CSBRG-0007-00(162)

P. I. NUMBER 0007162

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: JUNE 2, 2008

Date of Environmental Approval: _____

The project consist of improvements of SR-185, located in Charlton County, Georgia. 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 74.33.

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:

John Cory Knox
GDOT
Cory Knox@dot.state.ga.us
104 North Nichols Street
Waycross GA 31501
Phone: 912-285-6009

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.

ARCH CULVERT.
 "RECOMMENDED ALTERNATE"
 Estimate Report for file "Alt. No. 4"

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	20000	TRAFFIC CONTROL - CSBRG-0007-00(162)	20000
153-1300	1	EA	74663.84	FIELD ENGINEERS OFFICE TP 3	74663.84
210-0100	1	LS	113000	GRADING COMPLETE - CSBRG-0007-00(162)	113000
310-1101	3871	TN	22.02	GR AGGR BASE CRS, INCL MATL	85239.42
318-3000	300	TN	23.74	AGGR SURF CRS	7121.99
402-1812	18	TN	68.89	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	1240.02
402-3113	533	TN	69.75	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	37176.75
402-3121	1145	TN	63.09	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	72238.05
402-3190	710	TN	63.26	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	44914.6
413-1000	617	GL	1.89	BITUM TACK COAT	1166.12
432-5010	533	SY	1.83	MILL ASPH CONC PVMT, VARIABLE DEPTH	975.39
634-1200	8	EA	103.44	RIGHT OF WAY MARKERS	827.52
641-1200	500	LF	15.62	GUARDRAIL, TP W	7810
641-5001	2	EA	626.15	GUARDRAIL ANCHORAGE, TP 1	1252.3
641-5012	2	EA	1816.2	GUARDRAIL ANCHORAGE, TP 12	3632.4
643-0010	150	LF	4.81	FIELD FENCE WOVEN WIRE	721.49
643-8001	2	EA	530	GATE, GALVANIZED METAL-	1060
643-8105	100	LF	5.06	Barbed Wire Fence, 5 Strand	505.99
Section Sub Total					\$473,545.92

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	3	AC	740.04	TEMPORARY GRASSING	2220.12
163-0240	50	TN	181.75	MULCH	9087.5
163-0300	2	EA	1732.59	CONSTRUCTION EXIT	3465.18
163-0521	57	EA	165.24	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	9418.68
163-0530	906	LF	4.26	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	3859.56
163-0550	1	EA	271.46	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	271.46
165-0030	1736	LF	1.58	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	2742.88
165-0040	87	EA	63.75	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	5546.25
165-0050	204	LF	1.32	MAINTENANCE OF SILT RETENTION BARRIER	269.28
165-0070	453	LF	1.8	MAINTENANCE OF BALED STRAW EROSION CHECK	815.4
165-0101	2	EA	573.85	MAINTENANCE OF CONSTRUCTION EXIT	1147.7
165-0105	1	EA	90.6	MAINTENANCE OF INLET SEDIMENT TRAP	90.6
167-1000	2	EA	1135.73	WATER QUALITY MONITORING AND SAMPLING	2271.46
167-1500	12	MO	935.32	WATER QUALITY INSPECTIONS	11223.84
170-2000	408	LF	7.48	STAKED SILT RETENTION BARRIER	3051.84
171-0030	3472	LF	3.8	TEMPORARY SILT FENCE, TYPE C	13193.59
Section Sub Total					\$68,675.35

Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2024	700	SY	54.7	STN DUMPED RIP RAP, TP 1, 24 IN	38290
603-7000	700	SY	5.12	PLASTIC FILTER FABRIC	3584
700-6910	4	AC	1078.25	PERMANENT GRASSING	4313
700-7000	9	TN	59.52	AGRICULTURAL LIME	535.68
700-7010	11	GL	21.5	LIQUID LIME	236.5
700-8000	2	TN	291.86	FERTILIZER MIXED GRADE	583.72
700-8100	240	LB	2.51	FERTILIZER NITROGEN CONTENT	602.4
716-2000	5898	SY	1.23	EROSION CONTROL MATS, SLOPES	7254.54
Section Sub Total					\$55,399.84

Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	1000	CY	54.57	FOUND BK FILL MATL, TP II	54570
441-0302	2	EA	2411.99	CONC SPILLWAY, TP 2	4823.98
500-3800	7	CY	762.14	CLASS A CONCRETE, INCL REINF STEEL	5334.98
513-9000	1	Sum	464600	PRECAST CONCRETE ARCH CULVERT	464600
550-2180	80	LF	29.93	SIDE DRAIN PIPE, 18 IN, H 1-10	2394.4
550-3618	6	EA	636.77	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	3820.62
576-1015	40	LF	32.77	SLOPE DRAIN PIPE, 15 IN	1310.8

Section Sub Total \$536,854.78					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	27	SF	14.92	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	402.84
636-1033	81	SF	19.09	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	1546.29
636-2070	194	LF	8.07	GALV STEEL POSTS, TP 7	1565.58
652-5451	3600	LF	0.18	SOLID TRAFFIC STRIPE, 5 IN, WHITE	648
652-5452	3600	LF	0.18	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	648
654-1001	29	EA	3.1	RAISED PVMT MARKERS TP 1	89.9
654-1002	8	EA	3.04	RAISED PVMT MARKERS TP 2	24.32
Section Sub Total					\$4,924.93
Item Number	Quantity	Units	Unit Price	Item Description	Cost
540-1101	1	LS	88000	REMOVAL OF EXISTING BR, STA NO - 31+50	88000
Section Sub Total					\$88,000.00

Subtotal Construction Cost

Detour Cost

ENGINEERING @ 5/0

CONTRACTOR @ 12/0

TOTAL CONSTRUCTION COST

Total Estimated Cost \$1,227,400.82

\$1,227,400.82

\$ 181,349

70,587

177,880

\$ 1,660,216

- Widening Option -
Estimate Report for file "Alt. No. 2"

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	80000	TRAFFIC CONTROL - CSBRG-0007-00(162)	80000
153-1300	1	EA	74663.84	FIELD ENGINEERS OFFICE TP 3	74663.84
210-0100	1	LS	15000	GRADING COMPLETE - CSBRG-0007-00(162)	15000
310-1101	300	TN	22.02	GR AGGR BASE CRS, INCL MATL	6606
318-3000	25	TN	23.74	AGGR SURF CRS	593.5
402-1812	10	TN	68.89	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	688.9
402-3141	109	TN	74.24	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL	8092.16
402-3190	70	TN	63.26	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	4428.2
413-1000	107	GL	1.89	BITUM TACK COAT	202.23
432-5010	1740	SY	1.83	MILL ASPH CONC PVMT, VARIABLE DEPTH	3184.2
634-1200	4	EA	103.44	RIGHT OF WAY MARKERS	413.76
641-1100	84	LF	44.34	GUARDRAIL, TP T	3724.56
641-1200	425	LF	15.62	GUARDRAIL, TP W	6638.5
641-5001	2	EA	626.15	GUARDRAIL ANCHORAGE, TP 1	1252.3
641-5012	2	EA	1816.2	GUARDRAIL ANCHORAGE, TP 12	3632.4
Section Sub Total					\$209,120.55

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	1	AC	740.04	TEMPORARY GRASSING	740.04
163-0240	30	TN	181.75	MULCH	5452.5
163-0300	4	EA	1732.59	CONSTRUCTION EXIT	6930.36
163-0521	30	EA	165.24	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	4957.2
163-0530	1000	LF	4.26	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	4260
163-0550	4	EA	271.46	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	1085.84
165-0030	1000	LF	1.58	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	1580
165-0040	30	EA	63.75	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	1912.5
165-0050	204	LF	1.32	MAINTENANCE OF SILT RETENTION BARRIER	269.28
165-0070	500	LF	1.8	MAINTENANCE OF BALED STRAW EROSION CHECK	900
165-0101	4	EA	573.85	MAINTENANCE OF CONSTRUCTION EXIT	2295.4
165-0105	4	EA	90.6	MAINTENANCE OF INLET SEDIMENT TRAP	362.4
167-1000	2	EA	1135.73	WATER QUALITY MONITORING AND SAMPLING	2271.46
167-1500	12	MO	935.32	WATER QUALITY INSPECTIONS	11223.84
170-2000	408	LF	7.48	STAKED SILT RETENTION BARRIER	3051.84
171-0030	2000	LF	3.8	TEMPORARY SILT FENCE, TYPE C	7600
Section Sub Total					\$54,892.66

Item Number	Quantity	Units	Unit Price	Item Description	Cost
700-6910	2	AC	1078.25	PERMANENT GRASSING	2156.5
700-7000	5	TN	59.52	AGRICULTURAL LIME	297.6
700-7010	6	GL	21.5	LIQUID LIME	129
700-8000	1	TN	291.86	FERTILIZER MIXED GRADE	291.86
700-8100	120	LB	2.51	FERTILIZER NITROGEN CONTENT	301.2
716-2000	2390	SY	1.23	EROSION CONTROL MATS, SLOPES	2939.7
Section Sub Total					\$6,115.86

Item Number	Quantity	Units	Unit Price	Item Description	Cost
207-0203	65	CY	54.57	FOUND BK FILL MATL, TP II	3547.05
441-0302	2	EA	2411.99	CONC SPILLWAY, TP 2	4823.98
500-3101	95	CY	448.66	CLASS A CONCRETE	42622.7
576-1015	80	LF	32.77	SLOPE DRAIN PIPE, 15 IN	2621.6
577-1100	4	EA	1989.04	METAL DRAIN INLET - COMPLETE ASSEMBLY	7956.16
603-2018	40	SY	57.06	STN DUMPED RIP RAP, TP 1, 18 IN	2282.4
603-7000	40	SY	5.12	PLASTIC FILTER FABRIC	204.8
Section Sub Total					\$64,058.69

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	12	SF	14.92	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	179.04
636-1033	24	SF	19.09	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	458.15

636-2070	60	LF	8.07	GALV STEEL POSTS, TP 7	484.2
652-5451	1200	LF	0.18	SOLID TRAFFIC STRIPE, 5 IN, WHITE	216
652-5452	1200	LF	0.18	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	216
654-1001	14	EA	3.1	RAISED PVMT MARKERS TP 1	43.4
654-1002	8	EA	3.04	RAISED PVMT MARKERS TP 2	24.32
657-1085	166	LF	6.48	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-WHITE), TP PB	1075.68
657-6054	166	LF	4.92	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	816.72
Section Sub Total					\$3,513.52

Item Number	Quantity	Units	Unit Price	Item Description	Cost
500-0100	112	SY	4.07	GROOVED CONCRETE	455.84
500-2100	178	LF	43.78	CONCRETE BARRIER	7792.84
500-3101	60	CY	448.66	CLASS A CONCRETE	26919.6
511-1000	13100	LB	0.92	BAR REINF STEEL	12052
520-2214	280	LF	48.1	PILING, PSC, 14 IN SQ	13468
520-4214	1	EA	0.41	LOAD TEST, PSC, 14 IN SQ	0.41
540-1202	1	LS	50000	REMOVAL OF PARTS OF EXISTING BRIDGE, BR NO - 1	50000
603-2024	437	SY	54.7	STN DUMPED RIP RAP, TP 1, 24 IN	23903.9
603-7000	437	SY	5.12	PLASTIC FILTER FABRIC	2237.44
Section Sub Total					\$136,830.03

Total Estimated Cost \$474,531.30

Subtotal Construction Cost

DETAIL COST
 ENGINEERING @ 5%
 CONTINGENCY @ 12%

\$474,531.30
 # 77,130
 27,603
 69,559

TOTAL CONSTRUCTION COST

649,224

" CONSTRUCT NEW BRIDGE @ SAME LOCATION "
Estimate Report for file "Alt. No. 1"

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	20000	TRAFFIC CONTROL - CSBRG-0007-00(162)	20000
153-1300	1	EA	76536.72	FIELD ENGINEERS OFFICE TP 3	76536.72
210-0100	1	LS	144000	GRADING COMPLETE - CSBRG-0007-00(162)	144000
310-1101	4737	TN	22.05	GR AGGR BASE CRS, INCL MATL	104450.85
318-3000	400	TN	24.22	AGGR SURF CRS	9688
402-1812	20	TN	69.22	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	1384.4
402-3113	651	TN	69.71	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	45381.21
402-3121	587	TN	63.93	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	37526.9
402-3190	868	TN	63.61	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	55213.47
413-1000	672	GL	1.93	BITUM TACK COAT	1296.96
432-5010	500	SY	1.93	MILL ASPH CONC PVMT, VARIABLE DEPTH	965
433-1000	254	SY	153.28	REINF CONC APPROACH SLAB	38933.12
634-1200	10	EA	102.52	RIGHT OF WAY MARKERS	1025.2
641-1100	84	LF	45.2	GUARDRAIL, TP T	3796.8
641-1200	425	LF	15.79	GUARDRAIL, TP W	6710.75
641-5001	2	EA	631.99	GUARDRAIL ANCHORAGE, TP 1	1263.98
641-5012	2	EA	1819.1	GUARDRAIL ANCHORAGE, TP 12	3638.2
643-0010	300	LF	4.81	FIELD FENCE WOVEN WIRE	1442.99
643-8001	2	EA	530	GATE, GALVANIZED METAL-	1060
643-8105	300	lf	5.06	Barbed Wire Fence, 5 Strand	1517.99
Section Sub Total					\$555,832.54

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	4	AC	734.02	TEMPORARY GRASSING	2936.08
163-0240	60	TN	184.73	MULCH	11083.8
163-0300	2	EA	1687.2	CONSTRUCTION EXIT	3374.4
163-0520	300	LF	17.43	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	5229
163-0521	65	EA	175.18	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	11386.7
163-0530	940	LF	4.28	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	4023.2
163-0550	4	EA	275.23	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	1100.92
165-0030	2250	LF	1.6	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	3600
165-0040	105	EA	64.98	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	6822.9
165-0050	204	LF	1.32	MAINTENANCE OF SILT RETENTION BARRIER	269.28
165-0070	470	LF	1.79	MAINTENANCE OF BALED STRAW EROSION CHECK	841.3
165-0101	2	EA	557.45	MAINTENANCE OF CONSTRUCTION EXIT	1114.9
165-0105	4	EA	90.82	MAINTENANCE OF INLET SEDIMENT TRAP	363.28
167-1000	2	EA	1162.23	WATER QUALITY MONITORING AND SAMPLING	2324.46
167-1500	12	MO	993.57	WATER QUALITY INSPECTIONS	11922.84
170-2000	408	LF	7.48	STAKED SILT RETENTION BARRIER	3051.84
171-0030	4500	LF	3.92	TEMPORARY SILT FENCE, TYPE C	17640
Section Sub Total					\$87,084.90

Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2181	1000	SY	43.52	STN DUMPED RIP RAP, TP 3, 18 IN	43520
603-7000	1000	SY	5.15	PLASTIC FILTER FABRIC	5150
700-6910	4	AC	1078.44	PERMANENT GRASSING	4313.76
700-7000	9	TN	59.99	AGRICULTURAL LIME	539.91
700-7010	11	GL	21.55	LIQUID LIME	237.05
700-8000	2	TN	294.72	FERTILIZER MIXED GRADE	589.44
700-8100	240	LB	2.5	FERTILIZER NITROGEN CONTENT	600
716-2000	5898	SY	1.2	EROSION CONTROL MATS, SLOPES	7077.59
Section Sub Total					\$62,027.75

Item Number	Quantity	Units	Unit Price	Item Description	Cost
441-0302	2	EA	2381.86	CONC SPILLWAY, TP 2	4763.72
500-3800	7	CY	789.75	CLASS A CONCRETE, INCL REINF STEEL	5528.25
550-2180	72	LF	30.24	SIDE DRAIN PIPE, 18 IN, H 1-10	2177.27
550-3618	6	EA	637.18	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	3823.08

576-1015	80	LF	32.33	SLOPE DRAIN PIPE, 15 IN	2586.39
577-1100	4	EA	1989.04	METAL DRAIN INLET - COMPLETE ASSEMBLY	7956.16
Section Sub Total					\$26,834.87

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	27	SF	14.88	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	401.76
636-1033	81	SF	19.17	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	1552.77
636-2070	194	LF	8.05	GALV STEEL POSTS, TP 7	1561.7
652-5451	3750	LF	0.19	SOLID TRAFFIC STRIPE, 5 IN, WHITE	712.5
652-5452	1890	LF	0.19	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	359.1
652-6502	1890	GLF	0.1	SKIP TRAFFIC STRIPE, 5 IN, YELLOW	189
654-1001	29	EA	3.1	RAISED PVMT MARKERS TP 1	89.9
654-1002	8	EA	3.04	RAISED PVMT MARKERS TP 2	24.32
657-1085	240	LF	6.48	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-WHITE), TP PB	1555.2
657-8054	240	GLF	2.7	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, YELLOW, TP PB	648
Section Sub Total					\$7,094.25

Item Number	Quantity	Units	Unit Price	Item Description	Cost
500-0100	510	SY	4.08	GROOVED CONCRETE	2080.8
500-1006	1	LS	132000	SUPERSTR CONCRETE, CL AA, BR NO - 1	132000
500-2100	240	LF	43.45	CONCRETE BARRIER	10428
500-3101	66	CY	529.28	CLASS A CONCRETE	34932.47
507-9031	730	LF	185.74	PSC BEAMS, AASHTO, BULB TEE, 63 IN, BR NO - 1	135590.2
511-1000	6778	LB	0.91	BAR REINF STEEL	6167.98
511-3000	37282	LS	0.94	SUPERSTR REINF STEEL, BR NO - 1	35045.07
520-0573	14	EA	218.55	H-PILE POINTS, HP 14 X 73	3059.7
520-1147	450	LF	61.99	PILING IN PLACE, STEEL H, HP 14 X 73	27895.5
520-4147	1	EA	0.87	LOAD TEST, STEEL H, HP 14 X 73	0.87
540-1101	1	LS	88000	REMOVAL OF EXISTING BR, STA NO - 116+00	88000
603-2024	1320	SY	53.99	STN DUMPED RIP RAP, TP 1, 24 IN	71266.8
603-7000	1320	SY	5.15	PLASTIC FILTER FABRIC	6798
Section Sub Total					\$553,265.39

Total Estimated Cost \$1,292,139.70

Subtotal Construction Cost

\$1,292,139.70 ✓

Detour Cost

\$440,624.14 ✓

ENGINEERING @ 5%

86,638

CONTINGENCY @ 12%

218,328

TOTAL CONST. COST

2,037,729

Preliminary Right of Way Cost Estimate


Phil Copeland
Right of Way Administrator
By: Jerry Milligan

Date: March 31, 2008

Project: CSBRG-0007-00(162)Charlton

Existing/Required R/W: 100/170

Project Termini : SR 185 over Joaquin Creek 2.5 miles south of JCT SR 94 Bridge Replacement

Project Description: SR 185 Bridge Replacement

P.I. Number: 0007162

No. Parcels: 5

Land: Ag/R/W 1.41 acres @ \$ 4,320/acre

\$ 6,091

Improvements : none

0

Relocation: Commercial (0)
Residential (0)

0

Damage : Proximity (0)
Cost to Cure (0)

22,700

Net Cost

\$ 28,791

Net Cost

\$ 28,791

Scheduling Contingency 55 %

15,835

Adm/Court Cost 60

26,775

Market Appreciation 40 %

28,560

\$ 99,961

Total Cost

\$99,975



Department of Transportation

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GERALD M. ROSS, P.E.
CHIEF ENGINEER
(404) 656-5277

State of Georgia
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DEPUTY COMMISSIONER
(404) 656-5212

EARL L. MAHFUZ
TREASURER
(404) 656-5224

FILE CSBRG-0007-00(162), Charlton County
P. I. Number 0007162

OFFICE: District 5, Jesup
DATE: March 24, 2008

FROM: Glenn Durrence, P.E. *RDJ*
TO: Jeff Baker State Utilities Engineer
SUBJECT: Project Concept Report/Utility Relocation Estimate

Attached is Utility Relocation estimate for your further handling and approval in accordance with the Plan Development Process (PDP) and new GDOT Policy's.

Power Pole Relocations =	4 @\$5000	\$20,000
Under Ground Cable=	1000lfx\$5	\$5,000
Total		\$25,000

Approvals,

Concur:

David Henry
State Utilities Engineer
D. Shuck

Distribution:

Dennis Odom, District 5 Design Engineer
Rebecca Thigpen Project Manager
George Shenk, District 5 Utilities Engineer
Geoffrey Donald PB Consultant

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 049-0034-0

Charlton

SUFF. RATING

74.33

Location & Geography

* Structure I.D.No: 049-0034-0
 * 200 Bridge Information
 * 6A Feature Int: JACQUIN CREEK
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: SR00185
 * 7B Facility Carried: SR 185
 * 9 Location: 2.5 M I S OF JCT SR 94
 * 2 DOT District: 5
 * 207 Year Photo: 2005
 * 91 Inspection Frequency: 24 Date: 06/08/2005
 * 92A Fract Crit Insp Freq: 00 Date: 02/01/1901
 * 92B Underwater Insp Freq: 00 Date: 02/01/1901
 * 92C Other Spc. Insp Freq: 00 Date: 02/01/1901
 * 4 Place Code: 00000
 * 5 Inventory Route (O/U): 1
 * Type: 3
 * Designation: 1
 * Number: 00185
 * Direction: 0
 * 16 Latitude: 30-29.4 MMS Prefix: SR
 * 17 Longitude: 082-12.0 MMS Suffix: 00 MP: 10.57
 * 98 Border Bridge: 000 %Shared: 00
 * 99 ID Number: 0000000000000000
 * 100 STRAHNET: 0
 * 12 Base Highway Network: 1
 * 13A LRS Inventory Route: 491018500
 * 13B Sub Inventory Route: 0
 * 101 Parallel Structure: N
 * 102 Direction of Traffic: 2
 * 264 Road Inventory Mile Post: 010.46
 * 208 Inspection Area: 05 Initials: EEP
 * Engineer's Initial: jal
 * Location I.D. No.: 049-00185D-010.57N

Signs & Attachments

* 104 Highway System: 0
 * 26 Functional Classification: 07
 * 204 Federal Route Type: S No.: 01855
 * 105 Federal Lands Highway: 0
 * 110 Truck Route: 0
 * 206 School Bus Route: 1
 * 217 Benchmark Elevation: 0000.00
 * 218 Datum: 0
 * 19 Bypass Length: 11
 * 20 Toll: 3
 * 21 Maintenance: 01
 * 22 Owner: 01
 * 31 Design Load: 2
 * 37 Historical Significance: 5
 * 205 Congressional District: 01
 * 27 Year Constructed: 1961
 * 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
 * 214 Movable Bridge: 0
 * 203 Type Bridge: D-O-O-O
 * 259 Pile Encasement: 3
 * 43 Structure Type Main: 1 04
 * 45 No. Spans Main: 003
 * 44 Structure Type Appr: 0 00
 * 46 No. Spans Appr: 0000
 * 226 Bridge Curvc Horz: 0 Vert: 0
 * 111 Pier Protection: 0
 * 107 Deck Structure Type: 1
 * 108 Wearing Surface Type: 6
 * 248 County Continuity No.: 00

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: 1 1
 * 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: 1
 235 Hazard Boards: 1
 237 Utilities Gas: 00
 W 00
 Ele 00
 Telephone: 32
 St 00
 247 Lighting Street: 0
 Navigation: 0
 Aerial: 0

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 049-0034-0 Charlton SUFF. RATING 74.33

Programming Data

201 Project No.: S-1855 (1)
 202 Plans Available: 4
 249 Prop. Proj. No. BRG-0007-00(162)
 250 Approval Status: 0000
 251 P.I. No.: 0007162
 252 Contract Date: 02/01/1901
 260 Seismic No.: 00000
 75 Type Work: 00 0
 94 Bridge Imp. Cost: \$ 250
 95 Roadway Imp. Cost: \$ 50
 96 Total Imp Cost: \$ 300
 76 Imp. Length: 000000
 97 Imp. Year: 0000
 114 Future ADT: 000705 Year: 2024

Measurements

* 29 ADT: 000470 Year: 2004
 109 % Trucks: 10
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 84
 * 49 Structure Length: 26.00
 51 Br. Rwdy. Width: 32.30
 52 Deck Width: 26.00
 * 47 Tot. Horz. Cl: 2.00/2.00
 50 Curb/Sdewlk Width: 026
 32 Approach Rdwy Width:
 * 229 Shoulder Width: Rear Lt: 3.00 Type: 2 Rt: 2.80
 Fwd Lt: 3.00 Type: 2 Rt: 2.80

Ratings

65 Inventory Rating Method: 1
 63 Inventory Rating Method: 1
 66 Inventory Type: 2 Rating: 21
 64 Operating Type: 2 Rating: 36
 231 Calculated Loads
 H-Modified: 21 1
 HS-Modified: 25 0
 Type 3: 32 1
 Type 3s2: 30 0
 Timber: 37 1
 Piggyback: 40 0
 261 H Inventory Rating: 15
 262 H Operating Rating: 26
 67 Structural Evaluation: 5
 58 Deck Condition: 7
 59 Superstructure Condition: 7
 * 227 Collision Damage: 0
 60A Substructure Condition: 7
 60B Scour Condition: 8
 60C Underwater Condition: N
 71 Waterway Adequacy: 8
 61 Channel Protection Cond: 7
 68 Deck Geometry: 5
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 8
 62 Culvert: N

Hydraulic Data

215 Waterway Data
 Highwater Elev.: 0000.0 Year: 1900
 Avg. Streambed Elev.: 0000.0 Freq.: 00
 Drainage Area: 00000
 Area Of Opening: 000000
 113 Scour Critical: U
 216 Water Depth: 2 Br. Height: 10.3
 222 Slope Protection: 1
 221 Spur Dikes Rear: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover: 000
 Type: 0
 No. Barrels: 0
 Width: 0.00 Height: 0.00
 Length: 0 Apron: 0
 * 265 U/W Insp. Area: 0 Diver: ZZZ

36 Safety Features Br. Rail: Intersection Rear: 0 Fwd: 0
 Transition: 2
 App. G. Rail: 1
 App. Rail End: 2
 53 Minimum Cl. Over: 99 ' 99 "
 Under: N 00 ' 00 "
 * 228 Min. Vertical Cl: 99 ' 99 "
 Act. Odm Dir: 99 ' 99 "
 Oppo. Dir: 00 ' 00 "
 Posted Odm. Dir: 00 ' 00 "
 Oppo. Dir: 00 ' 00 "
 55 Lateral Undercl. Rt: N 0.00
 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: 6.00
 Deck Thick Approach: 0.00
 246 Overlay Thickness: 1.00
 212 Year Last Painted: Sup: 0000 Sub: 0000

Posting Data

70 Bridge Posting Required: 4
 41 Struct Open, Posted, Cl: P
 * 103 Temporary Structure: 0
 232 Posted Loads H-Modified: 21
 HS-Modified: 00
 Type 3: 32
 Type3s2: 00
 Timber: 37
 Piggyback: 00
 253 Notification Date 02/01/1901
 253 Fed Notify Date: 02/01/1901 0

* Location I.D. No.: 049-00185D-010.57N



Memorandum of Meeting

Date: November 13, 2007

Date of Meeting: November 1, 2007

Projects : STP-000-00(820) (821), PI 0000820, 0000821 Charlton, Camden Counties
SR 40/SR-40 Connector, Folkston to Kingsland
CSBRG-0007-00(162) PI 0007162 Charlton County
SR-185 Over Joaquin Creek

Purpose of Meeting: Concept Plan Team Meeting,

Meeting Location: Jesup District 5 Office Conference Room

Those in attendance:

Mrency Thompson	City of Kingsland
Gwen Mungin	City of Kingsland
Steve Nance	Charlton County Administrator
Pander Lloyd	City Manager City of Folkston
Bud Morris	Executive Director Dev. Authority, Folkston/Charlton Co.
James D Crews	Development. Authority, Folkston/Charlton Co
Steve Howard	Camden County
Scott Brazell	Camden County
Cory Knox	Waycross Area Engineer, GDOT
Bryan Czech	Brunswick Area Engineer GDOT
George Shenk	Utilities Engineer, Jesup GDOT
Paul O. Williams	Utilities Engineer, Jesup GDOT
Billy T Smith	District Access Mgmt Engineer, Jesup GDOT
Cynthia Phillips	Traffic Operations, Jesup GDOT
Rebecca Thigpen	District Design Squad Leader, Jesup GDOT
Dennis Odom	District Design Engineer, Jesup GDOT
Mary Best	PB
Geoffrey Donald	PB

Distribution: Attendees
File 15947

Discussion:

1. Dennis Odom opened the meeting with a brief project introduction, after which the meeting attendees introduced themselves. A sign in sheet was passed around for those in attendance to sign.



PI 0000820

2. Geoff Donald began discussion on the need and purpose of the project identifying the project as a GRIP corridor and an emergency and hurricane evacuation route. The projected traffic and accident history was discussed along with the logical termini for the project
3. The concept plans were laid out along the walls and were described in detail, Geoff went over the alignment layout pointing out the constraints and impacts and the natural progression of the alignment from the west end of the project to the east end. Comments on the layout received from Bryan Czech expressed his concerns for the church (structure use to be confirmed) impacted at Station 627+00 right and that the driveway across from Brown Town Road to be realigned, this will avoid cut thru's across the intersection to get to the gas station. PB suggested that a flatter curve can be looked at to avoid the structure at station 627+00 although there is an intersection at the beginning of the curve which will need to be reviewed further during the preliminary design phase. The driveway location will also be reviewed during the preliminary design phase.
4. Kingsland City officials pointed out that some of the property along the corridor may be annexed into the city limits; there are also plans for subdivisions along the corridor. A city map was handed out to the attendees.
5. Mary Best briefly went over the environmental process describing the early scoping meeting held with FHWA, and that as a result of that meeting, the environmental assessments for Units 821 and 820 will be combined into one document because of the logical termini for the projects. Mary also mentioned that the new Colerain Road widening project will need to be coordinated since it is just coming onboard as a planned project, and it is part of the logical termini for the SR 40 corridor's need and purpose. Mary also briefly described the environmental concerns along the 820 corridor. She pointed out the 27 acres of wetland impacts and 889 linear feet of stream impacts, and that GDOT would mitigate these by purchasing 207 wetland credits and 3,177 stream credits from a mitigation bank. No unavoidable historical or archeological impacts would be expected in the 820 corridors. There is one graveyard along the corridor and impacts have been avoided. Noise measurements are being conducted next week along the project corridor, and modeling will be performed to determine the potential noise impacts. Air quality impacts will also be assessed. T&E species are recorded in the area, and suitable habitat was found along the project corridor for flatwoods salamander, eastern indigo snake, gopher tortoise, and two plant species. The eastern indigo snake also occupies gopher tortoise burrows during the winter. The protected plants were not found in the project corridor during field surveys in October. No gopher tortoise burrows were found, but surveys will be conducted in January - February, and for the flatwoods salamander in March - April. Foraging habitat (but no nesting habitat) was found for the red-cockaded woodpecker and the wood stork. No migratory bird habitat was present.



Culverts will be inspected for bird nests prior to construction, and if they are found, construction will be scheduled to avoid disturbing them during the nesting season. Dennis Odom asked if a PAR meeting had been held yet; it has not, but a PAR report will be submitted shortly, and a meeting will be scheduled if requested by one or more of the coordinating agencies.

6. Denis Odom pointed out that the median may need to be reduced to 32 feet to get the project approved; this would be for an avoidance measure for wetlands impacts. The completed 4 lane project to the west was approved with a 32 foot median.
6. Geoff mentioned the utilities found in the corridor, George Shenk said we need to add TDS Telecom to the list they have a fiber optic line 2 feet outside the right of way on the south side, also to add Atlanta Gas and Light it's on the north side, and Okefenokee Rural EMC has facilities in the area.
7. Other comments received: During a storm event, flows from the St Marys River and the Satilla River combined and flooded the SR 40 roadway; it was pointed out that the flooding occurred in the section of roadway already raised and widened to 4 lanes. Also, the City of Kingsland officials mentioned that a portion of SR 40 was under water and closed near Spring Hill Road during Hurricane Francis. PB will need to investigate this concern.

PI 0000821

8. Geoff Donald began discussion with the need and purpose of the project identifying the project as a GRIP corridor and an emergency and hurricane evacuation route. The projected traffic and accident history was discussed along with the logical termini for the project
9. From the concept plans laid out along the walls, Geoff went over the alignment layout pointing out the constraints and impacts and the natural progression of the alignment from the west end of the project to the east end. The west end will tie to US-1/SR-15 an existing 4 lane roadway which is currently undergoing an intersection improvement to install type B medians. There is a hospital, a library, a doctors office, a high school, school fields and a city park located on the west end of the project. The east end will tie back in to the existing 4 lane project.
10. Mary briefly described the environmental concerns along the corridor. She pointed out the 2 acres of potential wetland impacts and 687 feet of potential stream impacts, which would be mitigated by purchasing 16 wetland credits and 3,305 stream credits from a mitigation bank. Two gopher tortoise burrows were found near the project corridor, and a field survey will be conducted in January – February for this species (and for the eastern indigo snake, which also uses the tortoise burrows in winter). There was no migratory bird habitat along Unit 821. Culverts will be inspected before construction,



and if any bird nests are found, the work will be scheduled to avoid impacts to these birds. No bald eagles or bald eagle habitat were observed along the corridor. Air and noise studies are underway. No historical or archeological impacts are expected along the 821 corridor. There may be potential environmental justice and community impact issues along the SR 40 Connector.

11. Geoff mentioned the utilities found in the corridor, George Shenk said we need to add Comcast Cable TV, Okefenokee Rural EMC, Southern Natural Gas, Alltel to the list, he also stated they will need additional right of way to relocate the water and sewer GDOT will not allow utilities under the pavement.
12. City officials were concerned with having two lanes of emergency traffic passing by the Hospital entrance and would rather have the bottle neck of traffic further east, they also suggested pushing the bypass further north of the City. It was finally agreed that blocking one of the West bound lanes for emergency vehicles only during an emergency event would be ok. City officials were also concerned with traffic on 3 Rd Street crossing Indian Trail; PB will review the traffic model in that area and review the signal warrants. City officials commented that there is a drainage problem along the connector and the intersection at US-1/SR-15 frequently floods, drainage problems will be reviewed during preliminary design phase.

PI 0007162

13. Geoff Donald began discussion with the need and purpose of the project identifying the project as a bridge replacement project for a bridge over Joaquin Creek with a sufficiency rating of 74.3 the main reasons for the replacement is spalling concrete from the support columns and substandard shoulder widths. The projected traffic and accident history was discussed.
14. From the concept plans laid out along the walls, Geoff went over the alignment layout pointing out that the bridge will be replaced with a concrete box culvert. The concrete box culvert will be staged constructed, a section to the west will be built first and a detour road will be built across that section, the bridge will be removed and the culvert and road construction will be completed.
15. Mary briefly described the environmental concerns along the corridor and pointed out there will be 0.07 acres wetland impacts and 140 linear feet of stream impacts. No historical or archeological sites were found in the corridor, although there is a church and cemetery nearby. For T& E species, gopher tortoise burrows were observed, but they were outside the project area. Field surveys will be performed in January – February to identify any gopher tortoises (and eastern indigo snakes using their burrows) in or near the project area.



16. Geoff mentioned the utilities found in the corridor, George Shenk said we need to add, Okefenokee Rural EMC, Atlanta Gas and Light, and Alltel to the list.

Action Items:

1. PB to schedule PAR meeting.
2. PB to begin concept report revision.
3. PB to investigate location of PIM and determine logistics of meeting.

The foregoing is my understanding of the topics discussed. If you have any corrections or comments, please let me know immediately.

Sincerely,

PB AMERICAS INC.

A handwritten signature in black ink that reads 'Geoffrey Donald'.

Geoffrey Donald
Project Manager