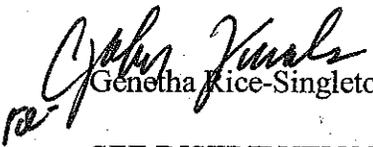


**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0007168, Columbia County **OFFICE** Preconstruction
CSBRG-0007-00(168)
US 221/SR 47 over Greenbrier Creek-
Bridge Replacement **DATE** November 8, 2007

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
Tony Collins
Angela Alexander
Paul Liles
George Brewer
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 0007168, Columbia County
CSBRG-0007-00(168)
U.S. 221/S.R. 47 over Greenbrier Creek-
Bridge Replacement

OFFICE: Preconstruction

DATE: October 26, 2007


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 U.S. 221/S.R. 47 over Greenbrier Creek, 2.5 miles northeast of Appling, Georgia. The existing bridge, constructed in 1955, is a 129' x 34' concrete structure with a sufficiency rating of 59. The original design load capacity is H-15. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement. U.S. 221/S.R. 47 at this location is a rural two lane roadway with 12' lanes with 6' grass shoulders and a posted speed of 55 MPH. U.S. 221/S.R. 47 is classified as a rural minor arterial. The base year traffic (2013) along this section of U.S. 221/S.R. 47 is 1100 VPD. The design year (2033) volumes are projected to be 1650 VPD. The proposed speed design is 55 MPH.

The project proposes to construct a new 129' x 38' concrete bridge over Greenbrier Creek at the existing bridge site. The approaches will consist of two, 12' lanes with 10' rural shoulders (6.5' paved). The existing bridge will be closed to traffic during construction. Traffic will be detoured via an off-site detour.

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	BR	BR		
	\$ 1,352,000	\$ 1,669,000	L1C0	LR
	STP	STP		
	\$ 317,000	---	L200	LR
Right-of-way	\$ 375,000	\$ 375,000		
Utilities	\$27,000			

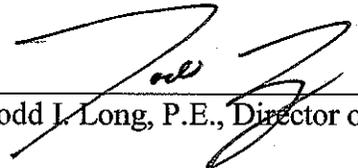
* Columbia County signed PFA for utilities on 3-20-07/ Notification letter sent to Columbia 6-16-06

I recommend this project concept be approved.


GRS: JDQ

Attachment

CONCUR



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

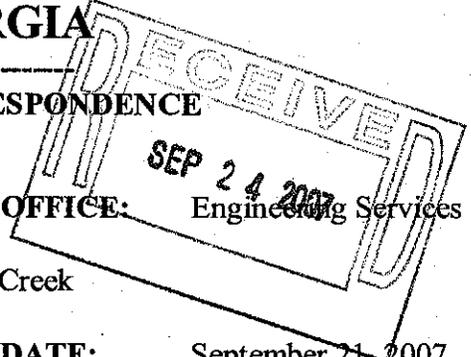
APPROVED



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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE



FILE: CSBRG-0007-00(168) Columbia County P.I. No. 0007168
Bridge Replacement on SR 47@ Greenbrier Creek

OFFICE: Engineering Services

DATE: September 21, 2007

BKS

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

TO: Genetha Rice-Singleton Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report received September 17, 2007 from Alan Smith, and have no comments. *THIS PROJECT REQUIRES SPLIT FUNDING... THE SUFFICIENCY RATING EXCEEDED 50... Jdl*

The costs for this project are:

	<u>REPLACEMENT</u>	<u>WIDENING</u>
Construction	\$ 1,517,253	1,351,704
E & C	\$ 151,725	135,171
Reimbursable Utilities	\$ 26,435	26,435
Right of Way	\$ 375,000	375,435

BKS

*Jdl
9/24/2007*

c: Michael Thomas, Attn.: Alan Smith

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSBRG-0007-00 (168)*

County: *Columbia*

P. I. Number: *0007168*

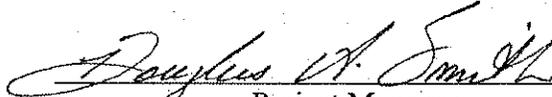
Federal Route Number: *221*

State Route Number: *47*

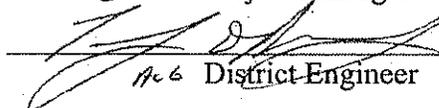
County Road Number: *None*

Recommendation for approval:

DATE *9-17-07*


Project Manager

DATE *9/17/07*


District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

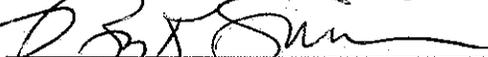
DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE *9/21/07*


Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

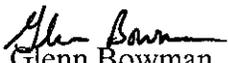
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0007168

OFFICE: Environment/Location

DATE: October 1, 2007

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

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT: **PROJECT CONCEPT REPORT**
CSBRG-0007-00(168) / Columbia County
Bridge replacement on SR 47 over Greenbrier Creek

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

- 1) The bridge is not listed in the GHBS and will need to be evaluated for National Register eligibility since it was built in 1955.
- 2) If AHA is chosen, design will need to evaluate if road improvements are needed for CR 577 (since we would detour a SR onto it). If so, NEPA would need to cover those improvements.

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

GB:lc

Attachment

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

SCORING RESULTS AS PER MOG 2440-2

Project Number: CSBRG-0007-00(168)		County: Columbia		PI No.: 0007168	
Report Date: September 17, 2007		Concept By: DOT Office: District 2			
<input checked="" type="checkbox"/> Concept Stage					
Project Type: Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous	
FOCUS AREAS	SCORE	RESULTS			
Presentation	100				
Judgement	100				
Environmental	100				
Right of Way	100				
Utility	100				
Constructability	100				
Schedule	100				

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSBRG-0007-00 (168)*

County: *Columbia*

P. I. Number: *0007168*

Federal Route Number: *221*

State Route Number: *47*

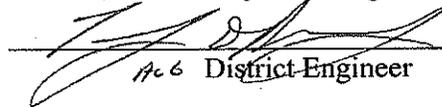
County Road Number: *None*

Recommendation for approval:

DATE *9-17-07*


Project Manager

DATE *9/17/07*


District Engineer

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

DATE *9/26/07*


State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSBRG-0007-00 (168)*

County: *Columbia*

P. I. Number: *0007168*

Federal Route Number: *221*

State Route Number: *47*

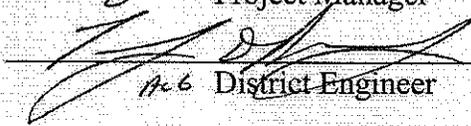
County Road Number: *None*

Recommendation for approval:

DATE *9-17-07*


Project Manager

DATE *9/17/07*


District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE *11/15/07*


State Bridge & Structural Design Engineer

NOTICE OF LOCATION AND DESIGN APPROVAL

CSBRG-0007-00 (168) Columbia County
P.I. # 0007168

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

The date of location and design approval was NOVEMBER 8, 2007
Date of Approval

This project consists of the replacement of the structurally deficient bridge on SR 47 / US 221 over Greenbier Creek northeast of Appling. Traffic will be detoured along CR 577 / Yelton Road while the new bridge is constructed. The total project length is 0.70 miles.

Drawings of the proposed project are on file and are available for inspection at the Georgia Department of Transportation.

Mike Keene
Mike.Keene@dot.state.ga.us
4260 Frontage Road
Augusta, Georgia 30909

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 M. BREWER
PRECONSTRUCTION ENGINEER
P.O. BOX 8
TENNILLE, GEORGIA 31089
478-552-4629

Any written request or communication in reference to this project **SHOULD** include the Project and PI numbers as noted at the top of this notice.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: CSBRG-0007-00 (168)

County: *Columbia*

P. I. Number: 0007168

Federal Route Number: 221

State Route Number: 47

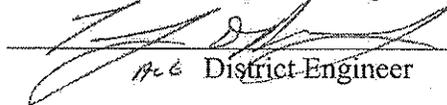
County Road Number: *None*

Recommendation for approval:

DATE 9-17-07


Project Manager

DATE 9/17/07


District Engineer

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

DATE _____

State Transportation Planning Administrator

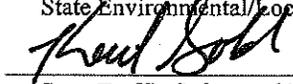
DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE 9-19-07


State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

DATE September 18, 2007

FILE: CSBRG-0007-00 (168) Columbia County
P.I. # 0007168

FROM Alan Smith, District Design Engineer

TO Assistant Director of Preconstruction

SUBJECT **Project Concept Report**

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

If any further assistance is needed, please contact Alan Smith at (478) 552-4642.

DAS:

Distribution:

Project Review Engineer

State Environmental / Location Engineer

State Traffic Safety and Design Engineer

State Transportation Planning Administrator

State Transportation Financial Management Administrator

State Bridge Design Engineer (Only if structure is involved)

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

Project Number: *CSBRG-0007-00 (168)*

County: *Columbia*

P. I. Number: *0007168*

Federal Route Number: *221*

State Route Number: *47*

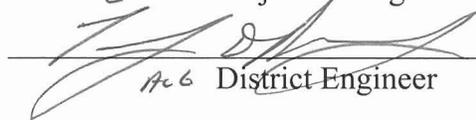
County Road Number: *None*

Recommendation for approval:

DATE 9-17-07


Project Manager

DATE 9/17/07


District Engineer

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

DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

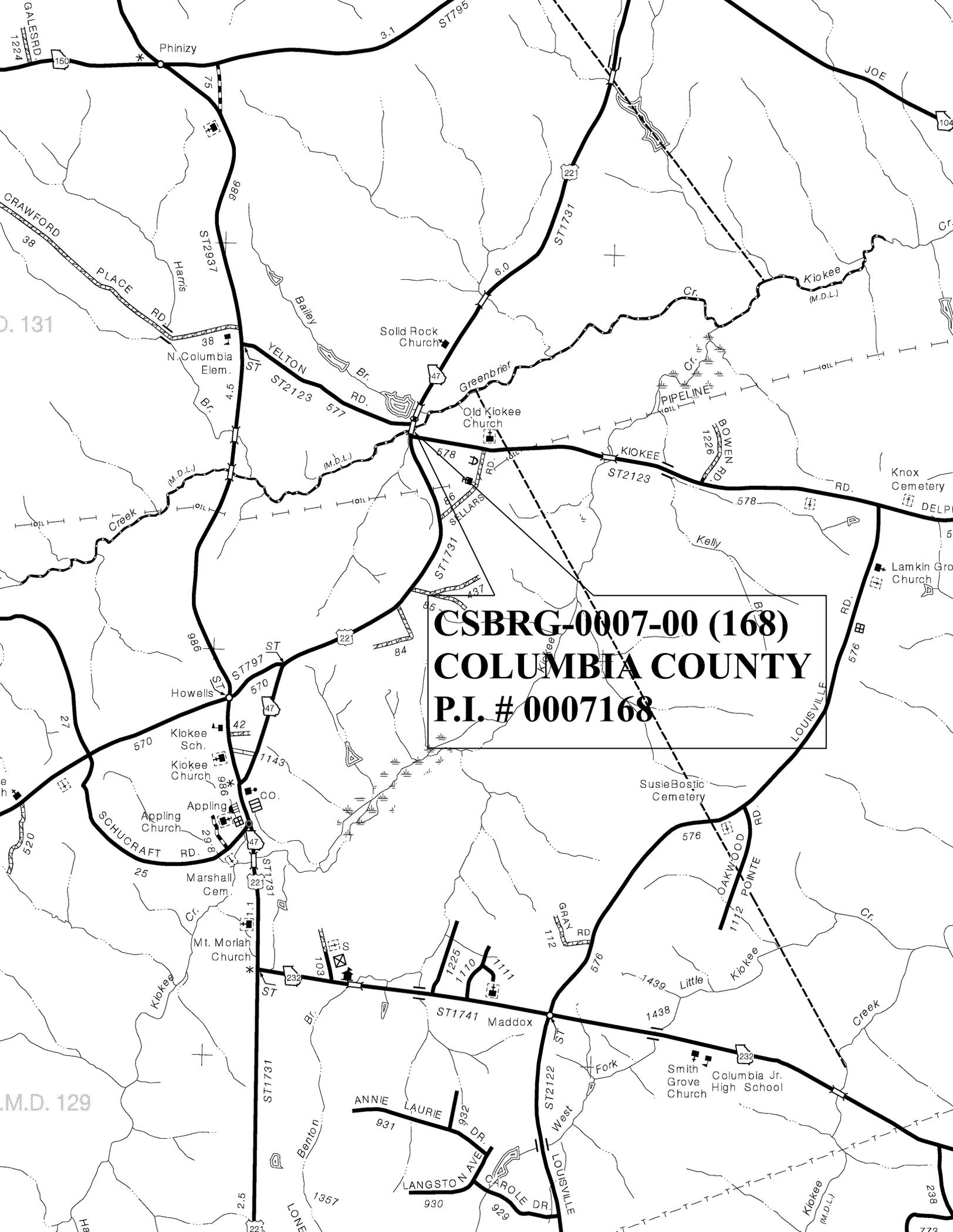
State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer



CSBRG-0007-00 (168)
COLUMBIA COUNTY
P.I. # 0007168

Phinizy

Solid Rock Church

Old Kiokee Church

N. Columbia Elem.

Appling Church

Mt. Morian Church

Susie Bostic Cemetery

Knox Cemetery

Lamkin Gro Church

Smith Columbia Jr. High School

LANGSTON AVE DR.

CAROLE DR.

ANNIE LAURIE DR.

CRAWFORD PLACE RD.

HARRIS BR.

YELTON BR.

GREENBRIER RD.

PIPELINE CR.

BOWEN RD.

CREEK

HOWELLS

KIOKEE SCH.

KIOKEE CHURCH

SCHUCRAFT RD.

MARSHALL CEM.

KIOKEE CR.

GRAY RD.

OAKWOOD RD.

POINTE RD.

LITTLE

MADDOX

FORK

WEST

LOUISVILLE

BENTON BR.

ST1731

ST2123

ST1741

ST1731

ST2123

ST1731

ST2123

ST1731

SALES RD.

1224

150

75

986

38

1224

150

75

986

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8.1

ST795

221

ST1731

8.0

221

ST1731

M.D. 131

M.D. 129

238

773

Need and Purpose: *The bridge on S.R. 47 / US 221 over Greenbrier Creek was built in 1955 and has a current sufficiency rating of 59.91. The Department of Transportation uses the sufficiency rating to determine the structural integrity and functional ability of bridges. Once bridges fall below a rating of 50.00 they are evaluated for replacement. Bridges with a sufficiency rating of greater than 50.00 are investigated for both rehabilitation and/or widening vs. replacement to determine the most economical alternative. This bridge is an H-15 design structure. It requires posting due to the rating of the sub-structure. The super-structure consists of steel beams and rates well below HS-20. As per the GDOT bridge maintenance Office, this bridge will require replacement instead of rehabilitation / widening.*

Description of the proposed project: *This project consists of the replacement of the structurally deficient bridge on SR 47 / US 221 over Greenbrier Creek.*

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

PDP Classification: Minor Major

Federal Oversight: Full Oversight , Exempt , State Funded , or Other

Functional Classification: *Rural Minor Arterial*

U. S. Route Number(s): 221

State Route Number(s): 47

County Road Number(s): None

Traffic (AADT):

Current Year: 1100 (2013)

Design Year: 1650 (2033)

Existing design features:

- Typical Section: *The existing roadway consists of 1 - 12-ft. travel lane in each direction with 6-ft. grassed shoulders each side.*
Posted speed: 55MPH Maximum degree of curvature: 1432-ft Radius or 4 Degree
- Maximum grade: 3%
Width of right of way: 100-ft.
- Major structures: *129-ft. x 34-ft. reinf. concrete bridge*
Sufficiency Rating: 59.91
- Major interchanges or intersections along the project: None
- Existing length of roadway: 0.40 miles

Proposed Design Features:

- Proposed typical section(s): *1 - 12-ft. travel lane in each direction with 10-ft. grassed shoulders each side (6.5-ft. paved with rumble strips)*
- Proposed Design Speed Mainline: *55MPH*
- Proposed Maximum grade Mainline: *1060-ft Radius or 5 Degree 30 Minute*
- Maximum grade allowable Mainline: *5%*
- Proposed Maximum grade Side Street: *4%*
- Maximum grade allowable on Side Streets: *10%*
- Proposed Maximum grade driveway: *11%*
- Proposed Maximum degree of curve: *1432-ft. Radius or 4 Degree*
- Maximum degree allowable: *1060-ft Radius or 6 Degree 30 Minute*
- Right of way
 - Width: *Additional will Vary from 0-ft. to 25-ft. width on both sides of SR 47*
 - Easements: Temporary , Permanent , Utility , Other .
 - Type of access control: Full , Partial , By Permit , Other .
 - Number of parcels: *6* Number of displacements: *0*
 - Business: *0*
 - Residences: *0*
 - Mobile homes: *0*
 - Other: *0*
- Structures:
 - Bridges: *129-ft x 38-ft. Reinforced Concrete Bridge*
 - Retaining walls: *None*
- Major intersections and interchanges: *None*
- Traffic control during construction: *Alternate "A" - Off Site Detour - Close S.R. 47 and remove the existing bridge and replace with new structure. Traffic will be routed along CR 577 / Yelton Road during construction.*
Alternate "B" - Realign SR 47 and construct the new bridge on the new roadway, then shift traffic to this new roadway and remove the existing bridge and the portion of existing roadway that is no longer needed.
- Design Exceptions to controlling criteria anticipated:

	<u>UNDETERMINED</u>	<u>YES</u>	<u>NO</u>
HORIZONTAL ALIGNMENT:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ROADWAY WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOULDER WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL GRADES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CROSS SLOPES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
STOPPING SIGHT DISTANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUPERELEVATION RATES:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HORIZONTAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SPEED DESIGN:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VERTICAL CLEARANCE:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE WIDTH:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRIDGE STRUCTURAL CAPACITY:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

- Design Variances: *None Anticipated.*

- Environmental concerns: *The stream crosses at a diagonal angle to SR 47. The bridge will need to be designed to minimize stream impacts as much as possible. Minor wetland impacts anticipated. May need special provision for barn swallows. A Detour PIOH will be required for the off-site detour.*
- Anticipated Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes , No ,
 - Categorical exclusion ,
 - Environmental Assessment/Finding of No Significant Impact (FONSI) , or
 - Environmental Impact Statement (EIS) .
- Utility involvements:
 - Telephone - *AT&T*
 - Power – *Georgia Power Company*
 - Water – *Columbia County*
 - Sewer – *None*
 - Gas – *None*
 - Cable TV – *None*

Project responsibilities:

- Design: *GDOT - Tennille Design*
- Right of Way Acquisition: *GDOT - Tennille RW*
- Relocation of Utilities: *GDOT - Tennille Utility Dept.*
- Letting to contract: *GDOT - Contracts Administration*
- Supervision of construction: *GDOT - Augusta AE Office*
- Providing material pits: *In Contract*
- Providing detours: *In Contract*

Coordination

- Concept meeting date: *September 9,2007*
- P. A. R. meetings: *None Required*
- FEMA, USCG, and/or TVA: *This project is located in a FEMA mapped area so FEMA coordination will be required.*
- Public involvement: *None*
- Local government commitments: *Columbia County will be asked to relocate their utility facilities at their cost.*
- Other projects in the area: *221460 Columbia, 231350 Columbia, 231306 Columbia, 231305 Columbia*

Scheduling – Responsible Parties’ Estimate

- Time to complete the environmental process: *1 Year*
- Time to complete preliminary construction plans: *1 Year 4 Months*
- Time to complete right of way plans: *6 Months*
- Time to complete the Section 404 Permit: *1 Year*
- Time to complete final construction plans: *6 Months*
- Time to complete to purchase right of way: *1 Year*

Other Alternatives considered:

1. *Alternate "B" - Realignment of SR 47 - This alternate was considered to be unfeasible due to the additional Right of Way costs and impacts to the environmental resources. Also, the roadway costs would be significantly higher to build a new roadway instead of utilizing the existing roadway embankments.*

Comments: *This office recommends that Alternate "A" of this concept be approved as written.*

Attachments:

1. Traffic Data
2. Cost Estimates:
 - a. Construction including E&C
 - b. Utilities
 - c. Right of Way
3. Typical Section
4. Location and Design Notice
5. Bridge SI&A Report

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0007-00(168) **OFFICE** Environment/Location
Columbia County
P.I. # 0007168
DATE July 6, 2007

FROM Harvey Keeper, State Environment/Location Engineer

TO Mike L. Thomas, P.E., District Engineer, Tennille
Attn. Alan Smith

SUBJECT Traffic Assignments for S.R. 47 at Greenbrier Creek 2.5 MI Northeast
of Appling.

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

TC # 0189

2006 AADT = 900
2013 AADT = 1100
2033 AADT = 1650
K = 8%
D = 60%
T = 5%
24 HR. T = 7.5%
S.U. = 4%
COMB. = 3.5%

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

HDK/AFE

Estimate Report for file "0007168"

Section ROADWAY					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	75000.00	CSBRG-0007-00 (168)	75000.00
201-1500	1	LS	25000.00	CLEARING & GRUBBING -	25000.00
205-0001	6000	CY	5.59	UNCLASS EXCAV	33540.00
206-0002	32356	CY	7.90	BORROW EXCAV, INCL MATL	255612.40
207-0203	120	CY	59.77	FOUND BKFILL MATL, TP II	7172.40
310-1101	6624	TN	17.16	GR AGGR BASE CRS, INCL MATL	113667.84
318-3000	350	TN	17.33	AGGR SURF CRS	6065.50
402-1812	310	TN	70.00	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	21700.00
402-3112	1050	TN	70.00	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	73500.00
402-3121	1860	TN	70.00	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	130200.00
402-3131	1100	TN	70.00	RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	77000.00
413-1000	800	GL	2.00	BITUM TACK COAT	1600.00
446-1100	2112	LF	5.03	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	10623.36
456-2015	1	GLM	766.33	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (SKIP)	919.60
540-0001	1	Lump Sum	441180.00	CONST OF BRIDGE COMPLETE (129-FTX38-FTX\$90)	441180.00
540-1102	1	LS	75000.00	REMOVAL OF EXISTING BR, BR NO - 1	75000.00
550-1240	120	LF	53.56	STORM DRAIN PIPE, 24 IN, H 1-10	6427.20
550-2180	72	LF	35.55	SIDE DRAIN PIPE, 18 IN, H 1-10	2559.60
550-3618	4	EA	753.43	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	3013.72
550-4224	4	EA	867.64	FLARED END SECTION 24 IN, STORM DRAIN	3470.56
603-6008	24	SY	156.36	SAND-CEMENT BAG RIP RAP, 8 IN	3752.64
634-1200	12	EA	110.43	RIGHT OF WAY MARKERS	1325.16
641-1200	575	LF	18.89	GUARDRAIL, TP W	10861.75
641-5001	2	EA	631.56	GUARDRAIL ANCHORAGE, TP 1	1263.12
641-5012	2	EA	1878.51	GUARDRAIL ANCHORAGE, TP 12	3757.02
643-0010	1000	LF	4.93	FIELD FENCE WOVEN WIRE	4930.00
643-8001	1	EA	450.00	GATE, GALVANIZED METAL-	450.00
Section Sub Total:					\$1,389,591.87

Section TEMPORARY EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	8	AC	561.09	TEMPORARY GRASSING	4488.72
163-0240	140	TN	192.62	MULCH	26966.80
163-0300	4	EA	2863.85	CONSTRUCTION EXIT	11455.40
163-0520	500	LF	16.92	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	8460.00
163-0521	16	EA	219.24	CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS	3507.84
163-0530	500	LF	3.75	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	1875.00
165-0010	1600	LF	0.94	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	1504.00
165-0030	1600	LF	1.89	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	3024.00
165-0040	16	EA	86.87	MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS	1389.92
165-0070	500	LF	2.34	MAINTENANCE OF BALED STRAW EROSION CHECK	1170.00
165-0101	4	EA	676.71	MAINTENANCE OF CONSTRUCTION EXIT	2706.84
167-1000	2	EA	1319.80	WATER QUALITY MONITORING AND SAMPLING	2639.60
167-1500	12	MO	1061.86	WATER QUALITY INSPECTIONS	12742.32
171-0010	3200	LF	1.84	TEMPORARY SILT FENCE, TYPE A	5888.00
171-0030	3200	LF	3.87	TEMPORARY SILT FENCE, TYPE C	12384.00
Section Sub Total:					\$100,202.44

Section EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2181	120	SY	48.39	STN DUMPED RIP RAP, TP 3, 18 IN	5806.80
603-7000	120	SY	4.89	PLASTIC FILTER FABRIC	586.80
700-6910	8	AC	893.29	PERMANENT GRASSING	7146.32
700-7000	16	TN	58.09	AGRICULTURAL LIME	929.44

700-7010	20	GL	19.20	LIQUID LIME	384.00
700-8000	7	TN	347.20	FERTILIZER MIXED GRADE	2430.40
700-8100	200	LB	2.10	FERTILIZER NITROGEN CONTENT	420.00
716-2000	3000	SY	1.33	EROSION CONTROL MATS, SLOPES	3990.00
Section Sub Total:					\$21,693.76

Section SIGNING - MARKING					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	36	SF	15.09	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	543.24
636-1033	36	SF	19.65	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	707.40
636-2070	112	LF	8.46	GALV STEEL POSTS, TP 7	947.52
652-5451	6400	LF	0.28	SOLID TRAFFIC STRIPE, 5 IN, WHITE	1792.00
652-5452	6400	LF	0.23	SOLID TRAFFIC STRIPE, 5 IN, YELLOW	1472.00
654-1003	80	EA	3.78	RAISED PVMT MARKERS TP 3	302.40
Section Sub Total:					\$5,764.56

Total Estimated Cost: \$1,517,252.63

Subtotal Construction Cost	\$1,517,252.63
E&C Rate 10.0 %	\$151,725.26
Inflation Rate 0.0 % @ 0.0 Years	\$0.00
<hr/>	
Total Construction Cost	\$1,668,977.89
Right Of Way	\$375,000.00
ReImb. Utilities	\$26,435.00
<hr/>	
Grand Total Project Cost	\$2,070,412.89

UTILITY COST ESTIMATE									
PROJECT #	COUNTY	PROJECT DESCRIPTION		UNIT PRICE	P.I. NUMBER	LAYOUT DATE			
CSBRG-0007-00 (168)	Columbia	SR 47 @ Greenbrier Creek 2.5 miles Northeast of Appling			0007168	8/24/2007			
REIMBURSABLE QUANTITY	NON-REIMBURSABLE QUANTITY	ITEM DESCRIPTION	UNITS	UNIT PRICE	PRIVATE UTILITY COST	PUBLIC UTILITY COST			
		POWER		\$\$\$\$\$\$					
		GA POWER CO. (DISTRIBUTION)							
		GA Power Co. has facilities located within the existing Right of Way throughout the project limits that should not be eligible for reimbursement.							
		WATER							
		COLUMBIA COUNTY WATER AND SEWER							
	500	Relocate Water Main - 12" D.I.	Lin. Ft.	\$45.00		\$22,500.00			
	1	Relocate Fire Hydrant	Each	\$1,530.00		\$1,530.00			
	1	Service, Tie-Ins, etc.	Lump	\$2,405.00		\$2,405.00			
		The Columbia County facilities are located within the existing Right of Way throughout the project limits and should not be eligible for reimbursement. Information for this was provided by Bart Smalley with Columbia County Water and Sewer.							
		SEWER				\$26,435.00			
		NONE							
		There are no sewer facilities located within the project limits.							
		TELEPHONE							
		AT&T GEORGIA							
		AT&T Georgia has facilities located within the existing Right of Way throughout the project limits that should not be eligible for reimbursement.							
		GAS							
		NONE							
		There are no gas facilities located within the project limits.							
TOTAL ESTIMATED UTILITY COSTS					\$0.00	\$26,435.00			
Estimate Prepared By: Jamie Lindsey- Assistant District Utilities Engineer									
					DATE:	31-Aug-07			
					REVISED:				
					REVISED:				
					REVISED:				

Unit Costs are based on former "Force Account Agreements" and the Department of Transportation's "Mean Item Index"

The information above is an estimate and is subject to change as project plans are developed and prior rights research has been performed.

* The Local Government that owns these facilities may seek financial assistance or reimbursement for these relocation costs.

Preliminary Right of Way Cost Estimate



Phil Copeland
Right of Way Administrator
 By: Jerry Milligan

Date: July 30, 2007
Project: CSBRG-0007-00(168)Columbia
Existing/Required R/W: Varies/Varies
Project Termini : Bridge Replacement on SR 47/US221 @ Greenbrier Creek
Project Description: SR 47 @ Greenbrier Creek Bridge Replacement

P.I. Number: 0007168
No. Parcels: 7

Land: R/W Agricultural / Res.: 3.32 acres @ \$.25,000 / acre \$ 83,000

Improvements : misc. site improvements 25,000

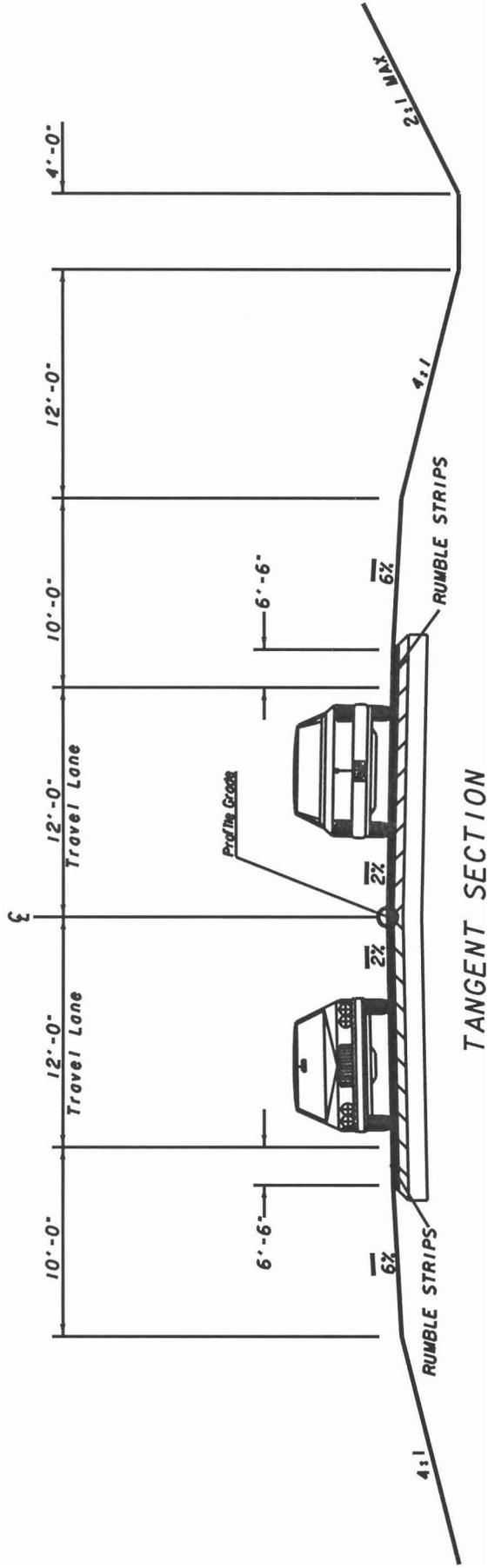
Relocation: Residential (0)
 Commercial (0) 0

Damage : Cost to Cure (0) parcel
 Proximity (0)parcel
 Uneconomic Remnant 0

Net Cost \$ 108,000

Net Cost		\$ 108,000
Scheduling Contingency	55 %	59,400
Adm/Court Cost	60 %	100,440
Market Appreciation	40 %	<u>107,136</u>
		\$ 374,976

Total Cost \$375,000



CSBRG-0007-00 (168)
 COLUMBIA COUNTY
 P I • 0007168

NOTICE OF LOCATION AND DESIGN APPROVAL

CSBRG-0007-00 (168) Columbia County
P.I. # 0007168

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

The date of location and design approval was _____
Date of Approval

This project consists of the replacement of the structurally deficient bridge on SR 47 / US 221 over Greenbier Creek northeast of Appling. Traffic will be detoured along CR 577 / Yelton Road while the new bridge is constructed. The total project length is 0.70 miles.

Drawings of the proposed project are on file and are available for inspection at the Georgia Department of Transportation.

Mike Keene
[Mike Keene@dot.state.ga.us](mailto:Mike.Keene@dot.state.ga.us)
4260 Frontage Road
Augusta, Georgia 30909

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 M. BREWER
PRECONSTRUCTION ENGINEER
P.O. BOX 8
TENNILLE, GEORGIA 31089
478-552-4629

Any written request or communication in reference to this project **SHOULD** include the Project and PI numbers as noted at the top of this notice.

Bridge Inventory Data Listing
Georgia Department of Transportation.

Structure ID: 073-0027-0

Columbia

SUFF. RATNG: 59.91

Location & Geography

* Structure ID: 073-0027-0
 200 Bridge Information: 06
 * 6A Feature Int: GREENBRIER CREEK
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: SR00047
 * 7B Facility Carried: US 221
 * 9 Location: 2.5 MI NE OF APPLING
 2 DOT District: 2
 207 Year Photo: 2005
 * 91 Inspection Frequency: 24 Date: 6/9/2005
 92A Fract Crit Insp Freq: 00 Date: 2/1/1901
 92B Underwater Insp Freq: 00 Date: 2/1/1901
 92C Other Spc. Insp Freq: 00 Date: 2/1/1901
 * 4 Place Code: 00000
 * 5 Inventory Route (O/U): 1
 Type: 2
 Designation: 1
 Number: 00221
 Direction: 0
 * 16 Latitude: 33 - 34.7 HMMS Prefix: SR
 * 17 Longitude: 082 - 17.9 HMMS Suffix: 00 MP:9.95
 98 Border Bridge: 000 % Shared: 00
 99 ID Number: 0000000000000000
 * 100 STRAHNET: 0
 12 Base Highway Network: 1
 13A LRS Inventory Route: 731004700
 13B Sub Inventory Route: 0
 101 Parallel Structure: N
 * 102 Direction of Traffic: 2
 * 264 Road Inventory Mile Post: 009.95
 * 208 Inspection Area: 02 Initials: JTB
 Engineer's Initial: jal
 * Location I.D. No.: 073-00047D-009.95E

* 104 Highway System: 0
 * 26 Functional Classification: 06
 * 204 Federal Route Type: F No. 01731
 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: 06
 * 20 Toll: 3
 * 21 Maintenance: 01
 * 22 Owner: 01
 * 31 Design Load: 2
 37 Historical Significance: 5
 205 Congressional District: 09
 27 Year Constructed: 1955
 106 Year Reconstructed: 0000
 33 Bridge Median: 0
 34 Skew: 45
 35 Structure Flared: 0
 38 Navigation Control: 0
 213 Special Steel Design: 0
 267 Type of Paint: 2
 * 42 Type of Service on: 1
 Type of Service under: 5
 214 Movable Bridge: 0
 203 Type Bridge: O O M O
 259 Pile Encasement: 3
 * 43 Structure Type Main: 3 02
 45 No. Spans Main: 003
 44 Structure Type Appr: 0 00
 46 No. Spans Appr: 0000
 226 Bridge Curve Horz: 1 Vert: 0
 111 Pier Protection: 0
 107 Deck Structure Type: 1
 108 Wearing Surface Type: 1
 Membrane Type: 8
 Deck Protection: 8

Signs & Attachements

225 Expansion Joint Type: 02
 242 Deck Drains: 1
 243 Parapet Location: 0.00
 Height: 0.00
 Width: 0.00
 238 Curb Height: 1.2
 Curb Material: 1
 239 Handrail: 1 1
 * 240 Median Barrier Rail: 0
 241 Bridge Median Height: 0.0
 * Bridge Median Width: 0.0
 230 Guardrail Loc. Dir. Rear: 3
 Fwrd: 3
 Oppo. Dir. Rear: 0
 Oppo. Fwrd: 0
 244 Approach Slab: 3
 224 Retaining Wall: 0
 233 Posted Speed Limit: 55
 236 Warning Sign: 0
 234 Delineator: 1
 235 Hazzard Boards: 1
 237 Utilities - Gas: 00
 Water: 00
 Electric: 00
 Telephone: 34
 Sewer: 00
 247 Lighting - Street: 0
 Navigation: 0
 Aerial: 0
 * 248 County Continuity No.: 00

Structure ID: 073-0027-0

Programming Data

201 Project No.: S-1095 (1)
 202 Plans Available: 4
 249 Prop. Proj. No.: CSBRG-0007-00(168)
 250 Approval Status: 0 0 0 0
 251 P.I. No.: 0007168
 252 Contract Date: 2/1/1901
 260 Seismic No.: 00000
 75 Type Work: 34 1
 94 Bridge Imp. Cost: \$86
 95 Roadway Imp. Cost: \$224
 96 Total Imp Cost: \$384
 76 Imp. Length: 001449
 97 Imp. Year: 1990
 114 Future ADT: 001965 Year: 2024

Hydraulic Data

215 Waterway Data
 Highwater Elev.: 0250.0 Year: 1900
 Flood Elevation: 0000.0 Freq.: 00
 Avg. Streambed Elev.: 0234.6
 Drainage Area: 00037
 Area of Opening: 001210
 113 Scour Critical: 5
 216 Water Depth: 02.0 Br. Height: 19.7
 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.: 073-00047D-009.95E

Measurements

* 29 ADT: 001310 Year: 2004
 109 % Trucks: 15
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0043
 * 49 Structure Length: 129
 51 Br. Rwdy. Width: 27.70
 52 Deck Width: 34.00
 * 47 Tot. Horiz. Cl: 27.70
 50 Curb / Sidewalk Width: 2.10 / 2.10
 32 Approach Rdwy. Width: 027
 * 229 Shoulder Width:
 Rear Lt: 2.0 Type: 2 Rt: 2.0
 Fwrd Lt: 2.0 Type: 2 Rt: 2.0
 Pavement Width:
 Rear: 23.0 Type: 2
 23.0 Type: 2
 Intersection Rear:
 36 Safety Features Br. Rail: 2
 Transition: 2
 App. G. Rail: 2
 App. Rail End: 2
 53 Minimum Cl. Over:
 Under: N 00' 00 "
 * 228 Minimum 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 0.0
 56 Lateral Undercl. Lt: 0.0
 * 10 Max Min Vert Cl: 99' 99 " Dir: 0
 39 Nav Vert Cl: 000 Horiz: 0000
 116 Nav Vert Cl Closed: 000
 245 Deck Thickness Main: 6.00
 Deck Thick. Approach: 0.00
 246 Overlay Thickness: 0.00
 212 Year Last Painted: Sup: 1997 Sub: 0000

Ratings

65 Inventory Rating Method: 1
 63 Operating Rating Method: 1
 66 Inventory Type: 2 Rating: 17
 64 Operating Type: 2 Rating: 28
 231 Calculated Loads
 H-Modified: 21 1
 HS-Modified: 29 1
 Type 3: 27 1
 Type 3s2: 39 1
 Timber: 33 1
 Piggyback: 40 0
 261 H Inventory Rating: 15
 262 H Operating Rating: 25
 67 Structural Evaluation: 4
 58 Deck Condition: 5
 59 Superstructure Condition: 7
 * 227 Collision Damage: 0
 60A Substructure Condition: 6
 60B Scour Condition: 7
 60C Underwater Condition: N
 71 Waterway Adequacy: 8
 61 Channel Protection Cond.: 6
 68 Deck Geometry: 4
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 7
 62 Culvert: N

Posting Data
 70 Bridge Posting Required: 3
 41 Struct Open, Posted, CL: P
 * 103 Temporary Structure: 0
 232 Posted Loads
 H-Modified: 21
 HS-Modified: 29
 Type 3: 27
 Type 3s2: 39
 Timber: 33
 Piggyback: 00
 253 Notification Date: 2/1/1901
 258 Fed Notify Date: 2/1/1901