

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-217-1(1) Columbia County **OFFICE** Preconstruction
P. I. No. 232306
SR 223 at Fuchee Creek **DATE** March 1, 2005

FROM *C. John Funks*
Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO *for* SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

MBP/cj

Attachment

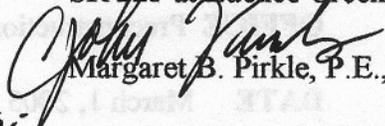
DISTRIBUTION:

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- Babs Abubakari
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- BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-217-1(1) Columbia County **OFFICE** Preconstruction
P.I. No. 232306
SR 223 at Euchee Creek **DATE** January 25, 2005

FROM  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO  Paul V. Mullins, Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a structurally deficient bridge on SR 223 over Euchee Creek, 2.2 miles northwest of Grovetown, Georgia. The existing bridge, constructed in 1952, is load limited with a sufficiency rating of 50. The original design load capacity is H-15. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement. State Route 223 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 223 is functionally classified as a rural minor arterial. Traffic is projected to be 5,600 VPD and 9,150 VPD in the years 2004 and 2024 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 223 south of its present location, extending 0.75 mile. The proposed new bridge will be 105' x 44' and will be located just south of the existing bridge structure. The relocated SR 223 will consist of two, 12' lanes with 10' rural shoulders (4' paved). Traffic will be maintained on the existing bridge while the proposed bridge is constructed.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion is anticipated; a public hearing open house is not required; time saving procedures are 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.

BRST-217-1(1) Columbia

January 25, 2005

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LETDATE</u>
Construction (includes E&C and inflation)	BR \$1,411,000	BR \$1,469,000	Q10	LR
	STP \$ 58,000	STP -0-	Q24	
Right-of-Way	\$ 77,000	\$ 76,000		
Utilities*	LGPA	LGPA		

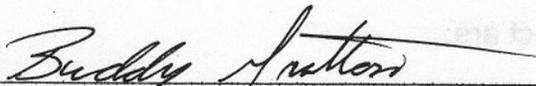
*Columbia County signed LGPA for utilities on 8-26-99.

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

MBP:JDQ/cj

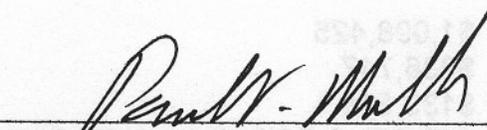
Attachment

CONCUR



Buddy Gratton, P.E., Director of Preconstruction

APPROVE



David E. Studstill, Jr., P.E., Chief Engineer

NOTE: This project will require split funding since the bridge has a sufficiency rating above 60 and is to be replaced. The BR funding is the amount equal to the Bridge Widening costs. Other costs will have to come from other funding sources.

REW

c: Mike Thomas, Attn: Alan Smith (Tennis)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

JAN 25 2005

FILE: BRST-217-1(1) Columbia
P.I. Nos. 232306
S.R. 223 @ Euchee Creek

OFFICE: Engineering Services

DATE: January 24, 2005

FROM: David Mulling, Project Review Engineer *DM*

TO: Meg Pirkle, Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report submitted January 12, 2005 by the letter from Alan Smith dated January 6, 2005 along with the additional information received on January 24, 2005 and have no comments.

The costs for this project are:

	Bridge Replacement	Bridge Widening
Construction	\$1,098,425	\$1,055,348
Inflation	\$236,717	\$227,434
E&C	\$133,514	\$128,278
Reimbursable Utilities	\$45,550 (LGPA signed 8/26/99)	\$45,550
Right of Way	\$76,425	\$76,425

NOTE: This project will require split funding since the bridge has a sufficiency rating above 50 and is to be replaced. The BR funding is the amount equal to the Bridge Widening costs. Other costs will have to come from other funding sources.

REW

c: Mike Thomas, Attn.: Alan Smith (Tennille)

SCORING RESULTS AS PER MOG 2440-2

Project Number: BRST-217-1(1)		County: Columbia		PI No.: 232306	
Report Date: January 7, 2005		Concept By: DOT Office: District 2			
		N/A			
<input checked="" type="checkbox"/> Concept Stage		Consultant: McGee Partners			
Project Type: Choose One From Each Column		<input type="checkbox"/> Major	<input type="checkbox"/> Urban	<input type="checkbox"/> ATMS	
		<input checked="" type="checkbox"/> Minor	<input checked="" type="checkbox"/> Rural	<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

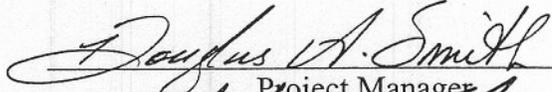
District Two Design Office

Project Number: BRST-217-1 (1)
County: Columbia
P. I. Number: 232306

Federal Route Number: None
State Route Number: 223
County Road Number: None

Recommendation for approval:

DATE 1-7-05


Project Manager

DATE 1-7-05


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 _____

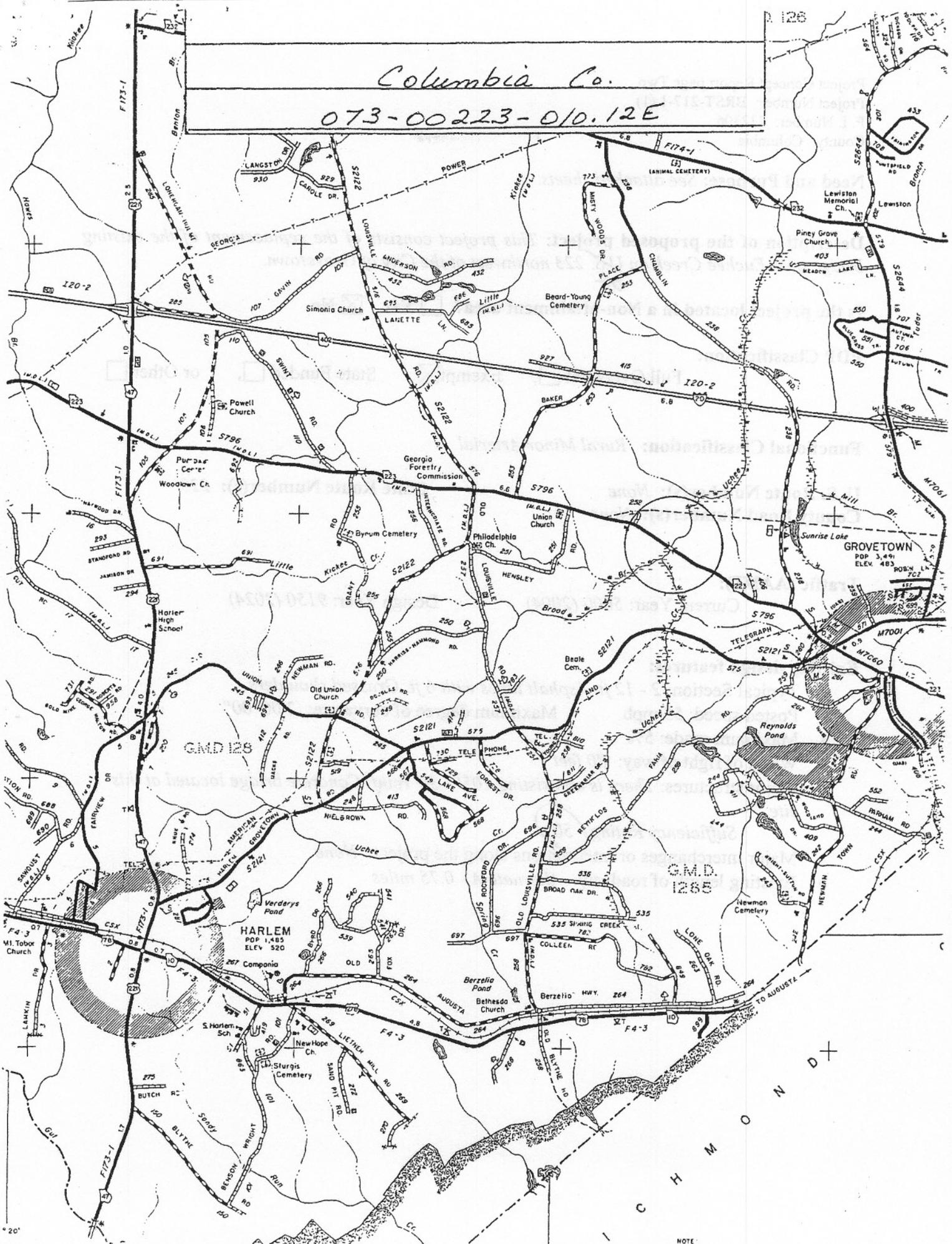
Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

DL
Savth

Columbia Co.
073-00223-0/0.12E



NOTE

Project Concept Report page Two
Project Number: BRST-217-1 (1)
P. I. Number: 232306
County: Columbia

Need and Purpose: *See attached sheets.*

Description of the proposed project: *This project consists of the replacement of the existing bridge over Euchee Creek on U.S. 223 northwest of the City of Grovetown.*

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

PDP Classification:

Full Oversight , Exempt , State Funded , or Other

Functional Classification: *Rural Minor Arterial*

U. S. Route Number(s): *None*
County Road Number(s): *None*

State Route Number(s): *223*

Traffic (AADT):

Current Year: *5600 (2004)*

Design Year: *9150 (2024)*

Existing design features:

- Typical Section: *2 - 12 ft. Asphalt lanes with 6 ft. Grassed shoulders*
- Posted speed: *55 mph* Maximum degree of curvature: *2 00' 00"*
- Maximum grade: *5%*
- Width of right of way: *80 feet*
- Major structures: *There is an existing 105' x 30' reinf. Concrete bridge located at this site.*

Sufficiency Rating: *50*

- Major interchanges or intersections along the project: *None*
- Existing length of roadway: *Alternate A - 0.75 miles*

Proposed Design Features:

- Proposed typical section(s): *2 - 12 foot Asphalt travel lanes with 10 foot grassed shoulders, 4 foot of which is to be paved.*
- Proposed Design Speed Mainline: *55 MPH*
- Proposed Maximum grade Mainline: *5%*
- Maximum grade allowable Mainline: *5%*
- Proposed Maximum grade Side Street: *N/A*
- Maximum grade allowable on Side Streets: *N/A*
- Proposed Maximum grade driveway: *15%*
- Proposed Maximum degree of curve: *3^00'00"*
- Maximum degree allowable: *6^00'00"*
- Right of way
 - Width: *120 Feet*
 - Easements: Temporary , Permanent , Utility , Other .
 - Type of access control: Full , Partial , By Permit , Other .
 - Number of parcels: *9* Number of displacements: *0*
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0
- Structures:
 - Bridges: *A 105' x 44' Reinforced Conc. Bridge is proposed*
 - Retaining walls: *None*
- Major intersections and interchanges: *None*
- Traffic control during construction: *Alternate "A" - Realign the existing route to the south, construct the new bridge along the new alignment, shift traffic to the new alignment and remove the existing bridge.*
- 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: *There are no Design Variances anticipated.*
- Environmental concerns: *None*

Project Concept Report Page Four
Project Number: BRST-217-1 (1)
P. I. Number: 232306
County: Columbia

- 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 - *BellSouth Telecommunications facilities are buried on the south side of SR 47*
 - Power - *Georgia Power Company has an aerial facility on the south side of SR 47*
 - Water - *Columbia County Water Department has a water main on the north side of SR 47.*
 - Sewer - *Columbia County Sewer Department has a sewer trunk along the creek bed.*
 - Gas - *None known at this time*
 - Cable TV - *ComCast CATV is attached to GPC power poles.*

Project responsibilities:

- Design: *(GDOT) District Two Design Section*
- Right of Way Acquisition: *(GDOT) District Two Right of Way Section*
- Relocation of Utilities: *(GDOT) District Two Utilities Section*
- Letting to contract: *(GDOT) Atlanta Contracts Administration*
- Supervision of construction: *(GDOT) Augusta Area Engineer's Office*
- Providing material pits: *In Contract*
- Providing detours: *In Contract*

Coordination

- Concept meeting date: *January 6, 2005*
- P. A. R. meetings: *N/A*
- FEMA, USCG, and/or TVA: *FEMA Coordination will be required.*
- Public involvement: *None*
- Local government commitments: *The local government has signed a LGPA for utility costs associated with this project.*
- Other projects in the area: *P.I. # 0004732 Columbia County*

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: *1 Year*
- Time to complete preliminary construction plans: *1 Year*
- 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*

Project Concept Report Page Five
Project Number: BRST-217-1 (1)
P. I. Number: 232306
County: Columbia

Other alternates considered:

1. *Alternate "B"(0.47 miles) - Construct an on-site detour on the south side of Sr 223, shift traffic along the detour route, remove and reconstruct the proposed bridge and roadway, then return traffic onto the existing alignment of SR 223. This alternate was not chosen because it involved additional costs of removing the detour, detour bridge costs, and additional temporary guardrail costs.*
2. *Alternate "C"(0.47 miles) - The possibility of using an off-site detour during construction was considered but the only route suitable for truck traffic was along S.R. 388 to I-20, along I-20 to S.R. 47 and back to S.R. 223. This would be approximately 10 miles long. The district feels that this would cause great inconvenience to the travelling public and create delays of emergency services such as Fire, EMS and Police.*

Comments: *The district recommends Alternate "A" be approved for implementation.*

Attachments:

1. Need & Purpose
2. Traffic Data
3. Cost Estimates:
 - a. Construction including E&C
 - b. Right of Way and Utilities
4. Typical sections
5. Pavement Design
6. Location and Design Notice
7. LGPA
8. Bridge Maintenance Sheets

Need and Purpose Statement

Project: BRST-217-1 (1)

P.I. #: 232306

Columbia County

Bridge replacement on S.R. 223 at Euchee Creek northwest of Grovetown

Location / Background:

This project is located on a rural section of S.R. 223. The bridge is located in a rural area with a mixture of residential developments and wooded acreage. The bridge is 105' long x 30' wide and has a sufficiency rating of 50. This project originated because of the structural deficiency and poor functional capacity of the existing bridge due to the narrow width.

Functional Classification:

Rural Minor Arterial

Roadway Characteristics:

The existing roadway consists of 2 - 12 foot asphaltic concrete travel lanes with 5 foot grassed shoulders. Guardrail is installed on all approaches to the bridge. The horizontal alignment consists of a 2 degree curve on the western approach. The bridge is constructed in a straight section of roadway that continues in the eastern direction. The vertical alignment consists of a 5% grade on the western approach and approximately a 4% grade on the eastern approach with the bridge located in the lowest area of the drainage basin.

Travel Demand and Operational Conditions:

This is a medium state route with future traffic estimated at 9150 vehicles per day. Congestion does not appear to be a problem in the area. However, this route does have a high truck percentage at 10% with some of those carrying mobile homes. The narrow width of the bridge does prevent wide loads from using this route.

Logical Termini:

The logical termini for this project was established using the proposed on-site detour alignment as termination points along the roadway. The purpose of this project is to replace the existing bridge. The capacity of the route will not be increased in this area so no additional work is necessary past the proposed detour limits.

Project Need and Purpose:

The need exists to correct the structural deficiencies of the existing bridge over Euchee Creek and to widen the existing bridge to improve the functional operation of the bridge. The purpose of this project is to correct these deficiencies and provide a safer, more efficient roadway for the traveling public.

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-217-1(1) Columbia P.I. 232306 **OFFICE** Environment/ Location

DATE July 30, 2001

FROM Harvey D. Keeper, State Environmental/ Location Engineer

TO Jim Chambers, P.E., State Consultant Design Engineer
Attn: Ted Cashin

SUBJECT SR 223 @ Uchee Creek

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

1999 ADT = 4800
 2004 ADT = 5600
 2024 ADT = 9150
 K = 10%
 D = 60%
 T = 8%
 24 HR T = 10%
 SU = 4%
 COMB = 6%

If you have any questions concerning this information please contact
 Teresa Williamson at (404)699-4458

BRST-217-1 (1) Columbia County, P.I. # 232306

Alternate A – Realign SR 223 and replace the bridge over Euchee Creek

Section Roadway

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1.00	LS	125000.00	TRAFFIC CONTROL - BRST-217-1 (1)	125000.0
201-1500	1.00	LS	34500.00	CLEARING & GRUBBING -	34500.0
205-0001	17664.00	CY	3.18	UNCLASS EXCAV	56171.52
206-0002	22632.00	CY	5.19	BORROW EXCAV, INCL MATL	117460.08
310-1201	3368.00	TN	20.99	GR AGGR SUBBASE CRS, INCL MATL	70694.31
318-3000	700.00	TN	15.84	AGGR SURF CRS	11088.0
400-3101	856.00	TN	43.63	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL,	37347.28
402-1812	150.00	TN	35.97	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	5395.5
402-3111	920.00	TN	30.76	RECYCLED ASPH CONC 19 MM MIX, GP 1 OR 2, INCL BITUM MATL &	28299.2
402-3121	1834.00	TN	34.63	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	63511.42
413-1000	820.00	GL	0.88	BITUM TACK COAT	721.6
433-1100	294.00	SY	107.71	REINF CONC APPROACH SLAB, INCL CURB	31666.73
436-1000	1000.00	LF	7.96	ASPHALTIC CONCRETE CURB -	7960.0
500-3101	25.00	CY	411.37	CLASS A CONCRETE	10284.25
511-1000	1038.00	LB	0.61	BAR REINF STEEL	633.18
540-0001	1.00	LUMP	300300.00	CONSTR OF BRIDGE COMPLETE (105 X 44 X \$65)	300300.0
540-1102	1.00	LS	65000.00	REMOVAL OF EXISTING BR, BR NO - 1	65000.0
603-2024	1008.00	SY	39.38	STN DUMPED RIP RAP, TP 1, 24 IN,	39695.04
603-7000	1008.00	SY	3.14	PLASTIC FILTER FABRIC	3165.12
634-1200	16.00	EA	80.40	RIGHT OF WAY MARKERS	1286.4
641-1100	84.00	LF	41.57	GUARDRAIL, TP T	3491.88
641-1200	1200.00	LF	9.10	GUARDRAIL, TP W	10920.0
641-5001	2.00	EA	401.71	GUARDRAIL ANCHORAGE, TP 1	803.42
641-5012	2.00	EA	1263.48	GUARDRAIL ANCHORAGE, TP 12	2526.96

Section Sub Total: \$1,027,921.91

Section Temporary Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	5.50	AC	435.70	TEMPORARY GRASSING	2396.35
163-0240	65.00	TN	213.84	MULCH	13899.6
163-0300	2.00	EA	1074.69	CONSTRUCTION EXIT	2149.38
163-0520	500.00	LF	10.50	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	5250.0
163-0530	850.00	LF	1.83	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	1555.5
165-0010	900.00	LF	1.06	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	954.0
165-0030	900.00	LF	1.29	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	1161.0
165-0070	425.00	LF	1.17	MAINTENANCE OF BALED STRAW EROSION CHECK	497.24
165-0101	2.00	EA	336.19	MAINTENANCE OF CONSTRUCTION EXIT	672.38
167-1000	2.00	EA	3742.84	WATER QUALITY MONITORING AND SAMPLING	7485.68
167-1500	12.00	MO	594.20	WATER QUALITY INSPECTIONS	7130.40
171-0010	1800.00	LF	1.76	TEMPORARY SILT FENCE, TYPE A	3168.0
171-0030	1800.00	LF	3.06	TEMPORARY SILT FENCE, TYPE C	5508.0
700-7000	2.00	TN	51.52	AGRICULTURAL LIME	103.04
700-7010	2.00	GL	18.43	LIQUID LIME	36.86
700-8000	2.00	TN	236.56	FERTILIZER MIXED GRADE	473.12

Section Sub Total: \$52,440.56

Section Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0240	24.00	TN	213.84	MULCH	5132.16
700-6910	5.50	AC	749.98	PERMANENT GRASSING	4124.89
700-7000	2.00	TN	51.52	AGRICULTURAL LIME	103.04
700-7010	3.00	GL	18.43	LIQUID LIME	55.29
700-8000	2.00	TN	236.56	FERTILIZER MIXED GRADE	473.12
Section Sub Total:					\$9,888.50

Section SIGNING AND MARKING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	54.00	SF	14.82	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	800.28
636-1031	54.00	SF	17.19	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	928.26
636-2080	84.00	LF	8.15	GALV STEEL POSTS, TP 8	684.6
653-1501	6900.00	LF	0.24	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	1656.0
653-1502	6900.00	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	1587.0
654-1001	42.00	EA	3.39	RAISED PVMT MARKERS TP 1	142.38
657-3054	400.00	GLF	1.97	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	788.0
657-6054	400.00	LF	3.97	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	1588.0
Section Sub Total:					\$8,174.52

Total Estimated Cost: \$1,098,425.49

Subtotal Construction Cost \$1,098,425.49

E&C Rate 10.0 % \$109,842.55

Inflation Rate 5.0 % @ 4.0 Years \$260,389.31

Total Construction Cost \$1,468,657.35

Right Of Way \$76,425.00

ReImb. Utilities \$45,550.00

Grand Total Project Cost \$1,590,632.35

BRST-217-1 (1) Columbia County, P.I. # 232306

Alternate B - Construct on-site detour and replace bridge on SR 223 over Euchee Ck

Section Roadway

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1.00	LS	125000.00	TRAFFIC CONTROL - BRST-217-1 (1)	125000.0
201-1500	1.00	LS	25000.00	CLEARING & GRUBBING -	25000.0
205-0001	26000.00	CY	3.18	UNCLASS EXCAV	82680.0
206-0002	34000.00	CY	5.19	BORROW EXCAV, INCL MATL	176460.0
310-1201	2440.00	TN	20.99	GR AGGR SUBBASE CRS, INCL MATL	51215.6
318-3000	500.00	TN	15.84	AGGR SURF CRS	7920.0
400-3101	950.00	TN	43.63	ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL,	41448.5
402-1812	150.00	TN	35.97	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	5395.5
402-3111	1105.00	TN	30.76	RECYCLED ASPH CONC 19 MM MIX, GP 1 OR 2, INCL BITUM MATL &	33989.8
402-3121	2209.00	TN	34.63	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM	76497.67
413-1000	910.00	GL	0.88	BITUM TACK COAT	800.8
433-1100	294.00	SY	107.71	REINF CONC APPROACH SLAB, INCL CURB	31666.73
436-1000	1000.00	LF	7.96	ASPHALTIC CONCRETE CURB -	7960.0
500-3101	25.00	CY	411.37	CLASS A CONCRETE	10284.25
511-1000	1038.00	LB	0.61	BAR REINF STEEL	633.18
540-0001	1.00	LUMP	300300.00	CONSTR OF BRIDGE COMPLETE (105 X 44 X \$65)	300300.0
540-1102	1.00	LS	65000.00	REMOVAL OF EXISTING BR, BR NO - 1	65000.0
541-5420	1.00	LS	50000.00	DETOUR BRIDGE, 24 FT X 100 FT, STA	50000.0
603-2024	1008.00	SY	39.38	STN DUMPED RIP RAP, TP 1, 24 IN	39695.04
603-7000	1008.00	SY	3.14	PLASTIC FILTER FABRIC	3165.12
634-1200	16.00	EA	80.40	RIGHT OF WAY MARKERS	1286.4
641-1100	84.00	LF	41.57	GUARDRAIL, TP T	3491.88
641-1200	1600.00	LF	9.10	GUARDRAIL, TP W	14560.0
641-5001	4.00	EA	401.71	GUARDRAIL ANCHORAGE, TP 1	1606.84
641-5012	4.00	EA	1263.48	GUARDRAIL ANCHORAGE, TP 12	5053.92

Section Sub Total: \$1,161,111.24

Section Temporary Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	4.40	AC	435.70	TEMPORARY GRASSING	1917.08
163-0240	44.00	TN	213.84	MULCH	9408.96
163-0300	2.00	EA	1074.69	CONSTRUCTION EXIT	2149.38
163-0520	500.00	LF	10.50	CONSTRUCT AND REMOVE TEMPORARY PIPE SLOPE DRAIN	5250.0
163-0530	600.00	LF	1.83	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	1098.0
165-0010	650.00	LF	1.06	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	689.0
165-0030	650.00	LF	1.29	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	838.5
165-0070	300.00	LF	1.17	MAINTENANCE OF BALED STRAW EROSION CHECK	351.0
165-0101	2.00	EA	336.19	MAINTENANCE OF CONSTRUCTION EXIT	672.38
167-1000	2.00	EA	3742.84	WATER QUALITY MONITORING AND SAMPLING	7485.68
167-1500	12.00	MO	594.20	WATER QUALITY INSPECTIONS	7130.40
171-0010	1300.00	LF	1.76	TEMPORARY SILT FENCE, TYPE A	2288.0
171-0030	1300.00	LF	3.06	TEMPORARY SILT FENCE, TYPE C	3978.0
700-7000	1.00	TN	51.52	AGRICULTURAL LIME	51.52
700-7010	1.00	GL	18.43	LIQUID LIME	18.43
700-8000	1.00	TN	236.56	FERTILIZER MIXED GRADE	236.56

Section Sub Total: \$43,562.89

Section Erosion Control

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0240	16.00	TN	213.84	MULCH	3421.44
700-6910	4.40	AC	749.98	PERMANENT GRASSING	3299.91
700-7000	1.00	TN	51.52	AGRICULTURAL LIME	51.52
700-7010	2.00	GL	18.43	LIQUID LIME	36.86
700-8000	1.00	TN	236.56	FERTILIZER MIXED GRADE	236.56

Section Sub Total: \$7,046.29

Section SIGNING AND MARKING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	36.00	SF	14.82	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	533.52
636-1031	36.00	SF	17.19	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING TP 6	618.84
636-2080	64.00	LF	8.15	GALV STEEL POSTS, TP 8	521.6
653-1501	5000.00	LF	0.24	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	1200.0
653-1502	5000.00	LF	0.23	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	1150.0
654-1001	30.00	EA	3.39	RAISED PVMT MARKERS TP 1	101.7
657-3054	400.00	GLF	1.97	PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB	788.0
657-6054	400.00	LF	3.97	PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB	1588.0

Section Sub Total: \$6,501.66

Total Estimated Cost: \$1,218,222.08

Subtotal Construction Cost \$1,218,222.08

E&C Rate 10.0 % \$121,822.21

Inflation Rate 5.0 % @ 4.0 Years \$288,787.92

Total Construction Cost \$1,628,832.21

Right Of Way \$76,425.00

ReImb. Utilities \$45,550.00

Grand Total Project Cost \$1,750,807.21

UTILITY COST ESTIMATE						
PROJECT #	COUNTY	PROJECT DESCRIPTION			P.I. NUMBER	LAYOUT DATE
BRST-076-1 (37)	Columbia	Bridge Replacement on SR 47 @ Keg Creek 6.9 miles North of Appling			232305	12/8/2004
PRIVATE UTILITY QUANTITIES	PUBLIC UTILITY QUANTITIES	UNITS	ITEM DESCRIPTION	UNIT PRICE	PRIVATE UTILITY COST	PUBLIC UTILITY COST
			POWER			
			<i>Georgia Power</i>	\$\$\$\$\$\$		
4		Each	Relocate Distribution Power Poles	\$7,000.00	\$28,000.00	
			Information for this estimate was provided by Al Danner of Georgia Power Company.			
SUB - TOTAL					\$28,000.00	
			WATER			
			<i>Columbia County Water & Sewer Department</i>			
	1700	Lin Ft	Relocate Water Main - 12" D.I.	\$35.00		\$59,500.00
	1	Each	Relocate Fire Hydrant	\$1,530.00		\$1,530.00
	1	Lump	Service, Tie-Ins, etc.	\$6,000.00		\$6,000.00
			Information for this estimate was provided by Willie Smith of Columbia County Water & Sewer Department.			
SUB - TOTAL						\$67,030.00
			TELEPHONE			
			<i>BellSouth Telecommunications, Inc.</i>			
1300		Lin Ft	Relocate Aerial Telephone Facility - Fiber Optic	\$7.50	\$9,750.00	
			This owner has facilities attached to GA Power poles throughout the project limits. Information for this estimate was provided by Warren Geitgey of BellSouth Telecommunications, Inc.			
SUB-TOTAL					\$9,750.00	
			CATV			
			<i>Comcast</i>			
1300		Lin Ft	Relocate Aerial Cable Facility	\$6.00	\$7,800.00	
			This owner has facilities attached to GA Power poles throughout the project limits. Information for this estimate was provided by Kevin O'Meara of Comcast.			
SUB-TOTAL					\$7,800.00	
Revised:			TOTAL PRIVATELY OWNED UTILITY RELOCATION COST			\$45,550.00
Revised:			TOTAL PUBLICLY OWNED UTILITY RELOCATION COST			\$67,030.00
Revised:			TOTAL POTENTIAL UTILITY RELOCATION COST FOR PROJECT			\$112,580.00
Estimate Prepared By:			Jamie Lindsey - Assistant District Utilities Engineer	DATE:	8-Dec-04	

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.

Preliminary Right of Way Cost Estimate

Don Brown

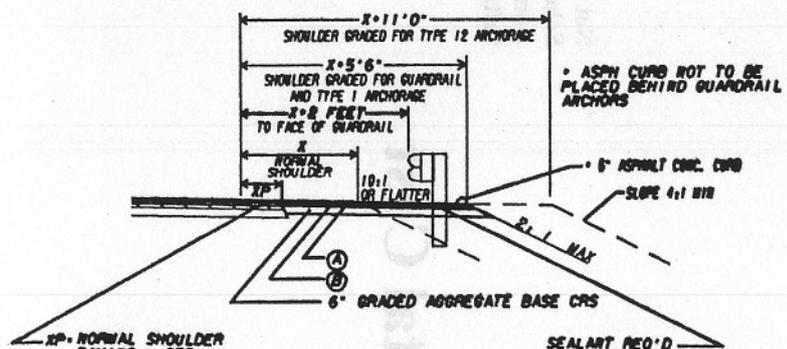
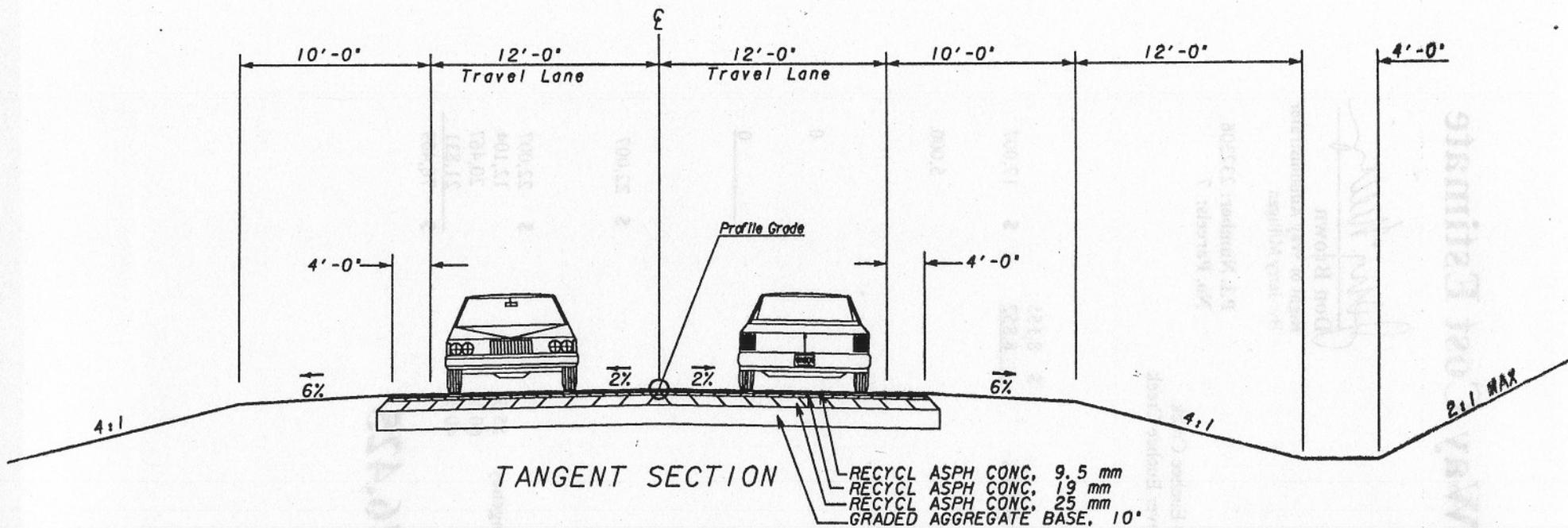
Don Brown
Right of Way Administrator
By: Jerry Milligan

Date: November 10, 2004
Project: BRST-217-1(1)Columbia
Existing/Required R/W: Varies/Varies
Project Termini: Bridge Replacement on SR 223 over Euchee Creek
Project Description: Bridge Replacement on SR 223 over Euchee Creek

P.I. Number: 232306
No. Parcels: 7

Land: Commercial : 1.17 acres @ \$ 6,970 / acre	\$ 8,155	
Commercial Esmt.: 2.54 acres @ \$ 6,970 / acre @ 50%	<u>8,852</u>	\$ 17,007
Improvements : misc. site improvements		5,000
Relocation: Residential (0) Commercial (0)		0
Damage : Proximity (0) parcel		<u>0</u>
Net Cost		\$ 22,007
Net Cost		\$ 22,007
Scheduling Contingency 55 %		12,104
Adm/Court Cost 60 %		20,467
Inflation Factor 40 %		<u>21,831</u>
		\$ 76,409

Total Cost \$ 76,425



SHOULDER DETAIL FOR GUARDRAIL
 SEE PLAN FOR LOCATION

- (A) SAME AS TYPICAL SECTION, DESIGN MIX LEVEL A
- (B) SAME AS TYPICAL SECTION, DESIGN MIX LEVEL A

TYPICAL SECTION

BRST 217-1 (1)
 COLUMBIA COUNTY
 P. I. * 232306

FLEXIBLE PAVEMENT DESIGN ANALYSIS

Project: BRST-217-1 (1)

County: Columbia

P.I. no.: 232306

Description: Bridge replacement on S.R. 223 over Euchee Creek

Traffic Data (NOTE: AADTs are one-way)

24-hour Truck Percentage: 10.00%

AADT initial year of design period: 2,800 vpd (2004)

AADT final year of design period: 4,575 vpd (2024)

Mean AADT (one-way): 3,688 vpd

Design Loading

Mean AADT	LDF	Trucks	18-K ESAL	Total Daily Loads
3,688 *	0.60 *	0.100 *	0.84	= 187

Total predicted design period loading = 187 * 20 * 365 = 1,365,100

Design Data

Terminal Serviceability Index: 2.50

Soil Support: 3.00

Regional Factor: 1.60

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness mm	Thickness (in.)	Structural Coefficient	Structural Value
9.5 mm Superpave	32	(1.26)	0.0173	0.55
19 mm Superpave	50	(1.97)	0.0173	0.86
25 mm Superpave	32	(1.26)	0.0173	0.55
	68	(2.68)	0.0118	0.80
Graded Aggregate Base	250	(9.84)	0.0063	1.58

Required SN = 4.46

Proposed SN = 4.34

>>> Proposed pavement is 2.7% Underdesign <<<

Remarks:

Prepared by Alan Smith - District Design Engineer September 28, 2004
Date

Recommended State Materials & Research Engineer Date

Approved District Engineer Date

NOTICE OF LOCATION AND DESIGN APPROVAL

BRST-217-1 (1) Columbia County
P.I. NUMBER 232306

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 MARCH 1, 2005
Date of Approval

The project proposes to replace the structurally deficient bridge on S.R. 223 over Euchee Creek northwest of the City of Grovetown. This project will consist of constructing an on-site detour in order to maintain traffic during construction. The existing bridge will then be demolished and a new bridge constructed in the same area as the old bridge.

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

Scott Stephens
Scott.Stephens@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.



ORIGINAL
GENERAL FILES

Department of Transportation

State of Georgia

#2 Capitol Square, S.W.

Atlanta, Georgia 30334-1002

July 12, 1999

WAYNE SHACKELFORD
COMMISSIONER
(404)656-5206

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

STEVEN L. PARKS
DEPUTY COMMISSIONER
(404)656-5212

BILLY F. SHARP
TREASURER
(404)656-5224

LOCAL GOVERNMENT PROJECT AGREEMENT

In consideration of the proposed improvements, COLUMBIA County agrees to provide or perform the following at no cost to the Georgia D.O.T. for project BRST-217-1(1) COLUMBIA CO., PI # 232306-:

BRIDGES

SR 223 @ UCHEE CREEK 2.2 MI NW OF GROVETOWN

Provide all rights-of-way and/or easements needed for the construction of the project and remove existing structures or obstructions within the rights-of-way.

Make all utility relocations, adjustments or betterments of publicly owned utilities that are in conflict with construction of this project. Reimburse Georgia D.O.T. for any damages paid to the contractor for delay of construction caused by a delay in relocating the publicly owned utilities.

Relocate or adjust all privately owned utilities to clear construction of this project, including adjustments at railroad crossings if required.

Furnish detours, local borrow & waste pits as needed.

We support this project but choose not to commit any funding, realizing this may delay the project until additional funding can be found.

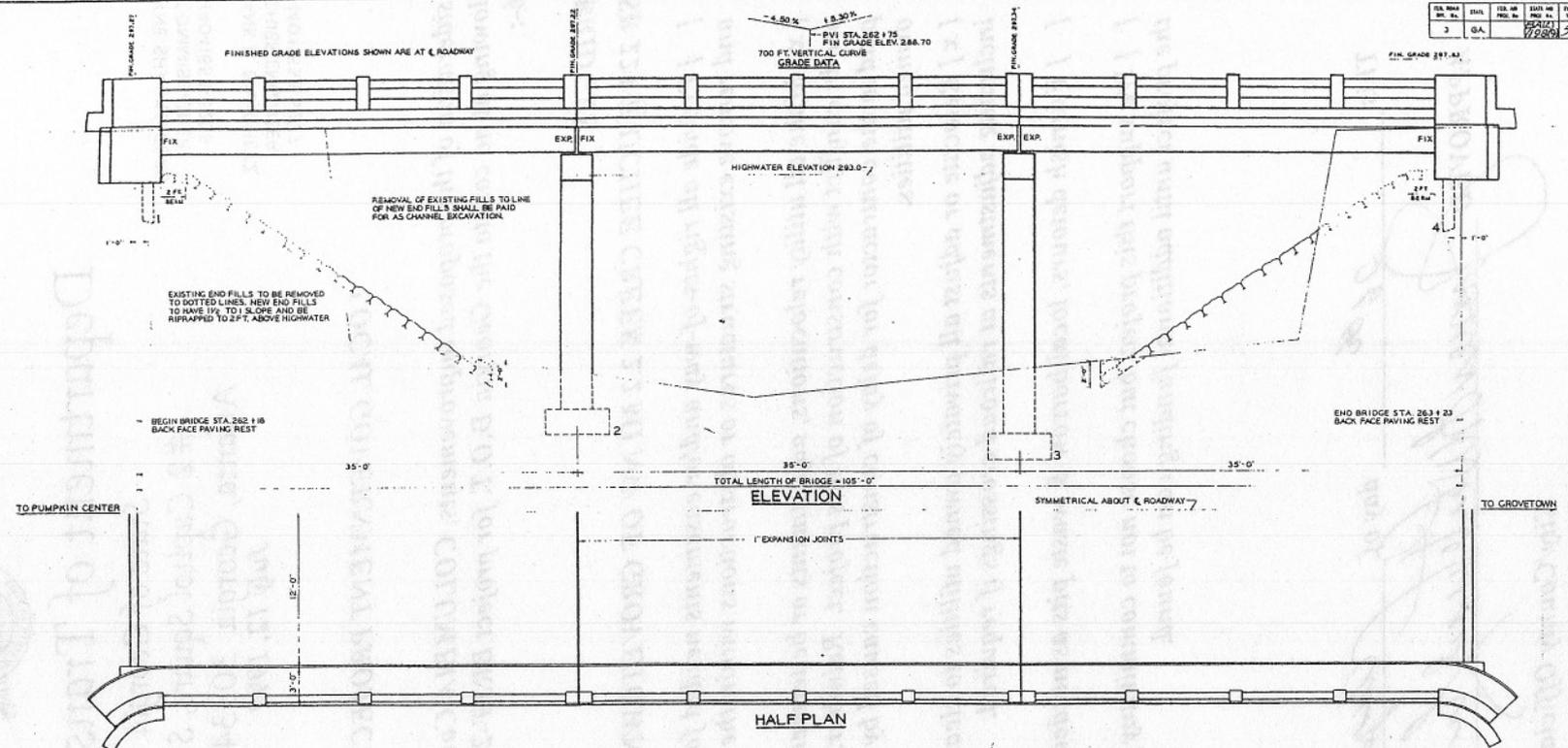
This 26th day of August, 1999

APPROVED

City/County Official



DESIGN NO.	DATE	DESIGNER	CHECKED	APPROVED
3	1/4/54	W.B.L.	F.W.B.J.	C.A.M.



BRIDGE CONSISTS OF

3 35'-0" WF BEAM SPANS	SPECIAL DESIGN
2 STEEL H-PILE END BENTS	
2 CONCRETE INTERMEDIATE BENTS	
CONCRETE HANDRAIL	

GEORGIA STANDARD 3613

DRAINAGE DATA

DRAINAGE AREA — 25 SQ. MILES
 AREA OPENING UNDER HIGHWATER — 1070 SQ. FT.

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD
 CONCRETE - ALL CONCRETE SHALL BE CLASS A.
 CHAMFER ALL EXPOSED EDGES 3/4" UNLESS NOTED.
 REINFORCEMENT SHALL BE INTERMEDIATE GRADE AND SHALL CONFORM TO ASTM SPECIFICATION A-360-50T.
 COST OF EXCAVATION NECESSARY TO FORM END BENT CAPS AND WINGS SHALL BE INCLUDED IN PRICE BID FOR CLASS A CONCRETE.
 ESTIMATED PILE LENGTHS BENT ONE = 25 FT. BENT 4 = 30 FT.
 SAFETY CURBS, HANDRAILING POSTS AND ROADWAY SURFACE SHALL CONFORM TO TRUE VERTICAL CURVE.
 EXPANSION MATERIAL OTHER THAN POURED RUBBER SHALL BE OF THE NON-EXTRUDING TYPE. WELDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS FOR WELDED HIGHWAY AND RAILWAY BRIDGES OF THE AMERICAN WELDING SOCIETY DATED 1947.
 COST OF EXPANSION MATERIAL, HOT POURED RUBBER, ASPHALT SATURATED FELT, CANVAS, RED LEAD AND OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN PRICE BID FOR CONTRACT ITEMS.
 STRUCTURAL STEEL ITEM SHALL INCLUDE FURNISHING FABRICATING, PLACING AND PAINTING WF BEAMS, SOLE AND BEARING PLATES AND ANCHOR BOLTS COMPLETE WITH NUTS AND WASHERS. BEARING AREA SHALL BE PREPARED IN ACCORDANCE WITH SECTION 501.05 OF THE STANDARD SPECIFICATIONS.
 PAINT STRUCTURAL STEEL THUS - SHOP COAT NO. 1A (AND 1B AND 1C) TOUCH UP FIELD COAT NO. 1A OR 2 (BURN END), FIRST AND SECOND FIELD COAT NO. 3C (ALUMINUM).
 FOR OTHER GENERAL NOTES SEE GEORGIA STANDARD NO. 3613.

SUMMARY OF QUANTITIES

12.9 CU. YDS. CLASS A CONCRETE
 21.8 LIN. FT. CONCRETE HANDRAILING
 21,700 LB. BAR REINFORCEMENT STEEL
 LUMP STRUCTURAL STEEL (4,000 LB)
 220 LIN. FT. STEEL H PILING (10" 8P 42)
 100 CU. YDS. CHANNEL EXCAVATION
 60 CU. YDS. BRIDGE EXCAVATION NO. 1
 LUMP REMOVAL OF EXISTING BRIDGE
 0.193 ACRES CLEARING AND GRUBBING (LUMP)
 780 SQ. YDS. SAND CEMENT RIPRAP
 OR
 390 TONS PLAIN STONE RIPRAP

DESIGN DATA

SPECIFICATIONS - A.A.S.H.O. 1953-T50 BEAM LOADING
 TYPICAL H15-44 LOADING IMPACT ALLOWED
 FUTURE PAVING ALLOWANCE = 15 LB. PER SQ. FT.

STATE HIGHWAY DEPARTMENT OF GEORGIA			
BRIDGE DEPARTMENT			
PLAN AND ELEVATION BRIDGE OVER UCHEE CREEK STA. 262 + 18 TO STA. 263 + 23 COLUMBIA COUNTY BA(2)1198(9) SCALE - 1" = 1'-0" JANUARY 1954			
DESIGNED	W.B.L.	TRACED	A.J.G.
DRAWN	W.B.L.	CHECKED	F.W.B.J.
		REVIEWED	C.A.M.
		APPROVED	

Bridge Inventory Data Listing
Georgia Department of Transportation.

Structure ID: 073-0018-0

Columbia

SUFF. RATING: 50.05

Location & Geography				Signs & Attachements	
* Structure ID:	073-0018-0	* 104 Highway System:	0	225 Expansion Joint Type:	02
200 Bridge Information:	06	* 26 Functional Classification:	02	242 Deck Drains:	1
* 6A Feature Int:	UCHEE CREEK	* 204 Federal Route Type:	F No. 02171	243 Parapet Location:	0.00
* 6B Critical Bridge:	0	105 Federal Lands Highway:	0	Height:	0.00
* 7A Route Number Carried:	SR00223	* 110 Truck Route:	0	Width:	0.00
* 7B Facility Carried:	SR 223	206 School Bus Route:	1	238 Curb Height:	1.2
* 9 Location:	2.2 MI NW OF GROVETOWN	217 Benchmark Elevation:	0000.00	Curb Material:	1
2 DOT District:	2	218 Datum:	0	239 Handrail:	1 1
207 Year Photo:	2001	* 19 Bypass Length:	08	* 240 Median Barrier Rail:	0
* 91 Inspection Frequency:	24 Date: 6/23/2003	* 20 Toll:	3	241 Bridge Median Height:	0.0
92A Fract Crit Insp Freq:	00 Date: 2/1/1901	* 21 Maintenance:	01	* Bridge Median Width:	0.0
92B Underwater Insp Freq:	00 Date: 2/1/1901	* 22 Owner:	01	230 Guardrail Loc. Dir. Rear:	3
92C Other Spc. Insp Freq:	00 Date: 2/1/1901	* 31 Design Load:	2	Fwd:	3
* 4 Place Code:	00000	37 Historical Significance:	5	Oppo. Dir. Rear:	0
* 5 Inventory Route (O/U):	1	205 Congressional District:	09	Oppo. Fwd:	0
Type:	3	27 Year Constructed:	1955	244 Approach Slab:	3
Designation:	1	106 Year Reconstructed:	0000	224 Retaining Wall:	0
Number:	00223	33 Bridge Median:	0	233 Posted Speed Limit:	55
Direction:	0	34 Skew:	00	236 Warning Sign:	1
* 16 Latitude:	33 - 28.0 HMMS Prefix: SR 82 - 14.0 HMMS Suffix: 00 MP:10.12	35 Structure Flared:	0	234 Delineator:	1
* 17 Longitude:		38 Navigation Control:	0	235 Hazzard Boards:	1
98 Border Bridge:	000 % Shared: 00	213 Special Steel Design:	0	237 Utilities - Gas:	00
99 ID Number:	0000000000000000	267 Type of Paint:	5	Water:	00
* 100 STRAHNET:	0	* 42 Type of Service on:	1	Electric:	00
12 Base Highway Network:	1	Type of Service under:	5	Telephone:	00
13A LRS Inventory Route:	731022300	214 Movable Bridge:	0	Sewer:	00
13B Sub Inventory Route:	0	203 Type Bridge:	A O M O	247 Lighting - Street:	0
101 Parallel Structure:	N	259 Pile Encasement:	3	Navigation:	0
* 102 Direction of Traffic:	2	* 43 Structure Type Main:	3 02	Aerial:	0
* 264 Road Inventory Mile Post:	010.05	45 No. Spans Main:	003	* 248 County Continuity No.:	00
* 208 Inspection Area:	02 Initials: JTB	44 Structure Type Appr:	0 00		
Engineer's Initial:	jal	46 No. Spans Appr:	0000		
		226 Bridge Curve Horz:	0 Vert: 1		
		111 Pier Protection:	0		
		107 Deck Structure Type:	1		
* Location I.D. No.:	073-00223D-010.12E	108 Wearing Surface Type:	6		
		Membrane Type:	8		
		Deck Protection:	8		

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

District Two Design Office

Project Number: *BRST-217-1 (1)*

County: *Columbia*

P. I. Number: *232306*

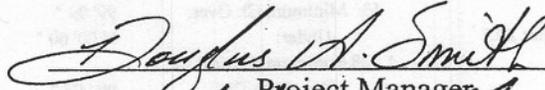
Federal Route Number: *None*

State Route Number: *223*

County Road Number: *None*

Recommendation for approval:

DATE *1-7-05*


Project Manager

DATE *1-7-05*

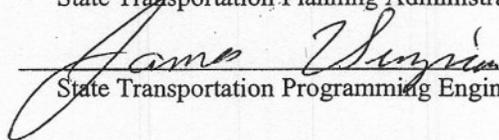

District Engineer

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 *1-14-05*


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

RECEIVED
JAN 1 2005
BY:

INTERDEPARTMENT CORRESPONDENCE

DATE January 6, 2005

FROM Alan Smith, District Design Engineer ^{DAS}

TO Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

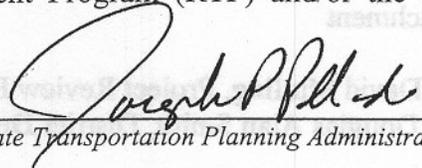
SUBJECT BRST-217-1 (1) Columbia County, P.I. # 232306
Bridge replacement on SR 223 over Euclhee Creek
Project Concept Report

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

The above mentioned project consists of a bridge replacement on SR 223 over Euclhee Creek northwest of the City of Grovetown.

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

DATE 1/14/05


State Transportation Planning Administrator

Distribution:

- David Mulling
- Harvey Keeper
- Phillip Allen
- Joe Palladi
- Jamie Simpson

ROUTING		<input type="checkbox"/>	_____
<input type="checkbox"/>	_____	<input type="checkbox"/>	_____
<input type="checkbox"/>	_____	<input type="checkbox"/>	_____
<input type="checkbox"/>	_____	<input type="checkbox"/>	_____

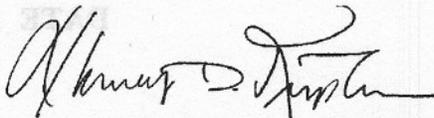
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. Nos. 232305

OFFICE: Environment/Location

DATE: January 18, 2005



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

TO: Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

**SUBJECT: PROJECT CONCEPT REPORT
BRST-076-1(37) / Columbia County
Bridge replacement on SR 47 over Keg Creek**

The above subject concept report has been reviewed. Project is located adjacent to a State Park. Therefore, a 4(f) evaluation maybe required. A determination if 6(f) funds were used at the park must be made. Coordination section should indicate the need for a detour meeting under public involvement.

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

HDK/lc

Attachment

cc: David Mulling, Project Review Engineer
Douglas Alan Smith, District Design Engineer

ROUTING

<input type="checkbox"/>		<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>

DATE: 1/18/05

Distribution

David Mulling
Harvey Keeper
Philip Allen
Joe Pallas
Janice Simpson

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

District Two Design Office

Project Number: *BRST-076-1 (37)*

County: *Columbia*

P. I. Number: *232305*

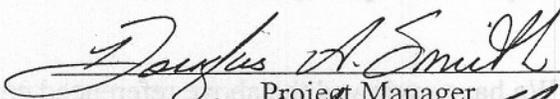
Federal Route Number: *None*

State Route Number: *47*

County Road Number: *None*

Recommendation for approval:

DATE *12-13-04*


Project Manager

DATE *1-7-05*


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).

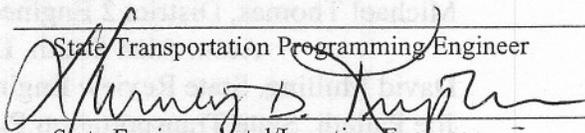
DATE _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE *1.19.05*


State Environmental/Location Engineer

DATE _____

State Traffic Safety and Design Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Design Engineer

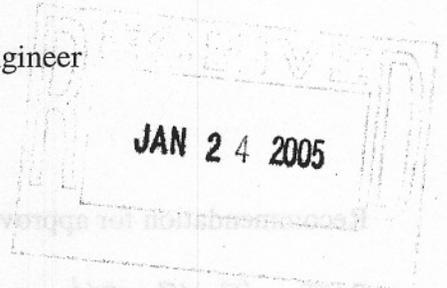
Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRST 217-1(1), Columbia County
P.I. No. 232306

Office: Traffic Safety & Design
Atlanta, Georgia
Date: January 15, 2005

From: ^{PMA/KC} Phillip M. Allen, State Traffic Safety and Design Engineer
To: Meg Pirkle, Assistant Director of Preconstruction
Subject: Project Concept Report Review



We have reviewed the above referenced concept report for the proposed replacement of the existing bridge on SR 223 over Euchee Creek in Columbia County.

The Office of Traffic Safety and Design finds this report satisfactory for approval because it will improve safety and traffic operations within this area.

PMA/SZ/nr

Attachment (signature page)

Cc: Harvey Keeper, State Environment /Location Engineer
Paul Liles, State Bridge Engineer
Michael Thomas, District 2 Engineer
Attn.: Alan Smith, District Design Engineer
David Mulling, State Review Engineer, w/ attachment
Joe Palladi, State Transportation Planning Administrator
Jamine Simpson, Financial management Administrator
General Files
Office Files

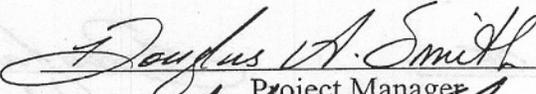
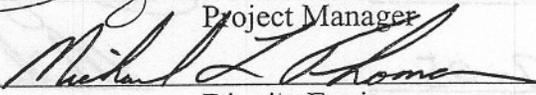
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

District Two Design Office

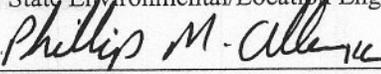
Project Number: *BRST-217-1 (1)*
County: *Columbia*
P. I. Number: *232306*

Federal Route Number: *None*
State Route Number: *223*
County Road Number: *None*

Recommendation for approval:

DATE 1-7-05 
Project Manager
DATE 1-7-05 
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 1-18-05 
State Traffic Safety and Design Engineer
DATE _____ Project Review Engineer
DATE _____ State Bridge & Structural Design Engineer

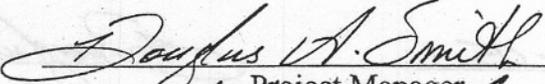
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT

District Two Design Office

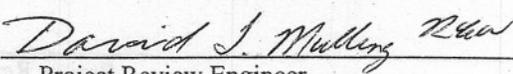
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