

ORIGINAL TO GENERAL FILES

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BHF-038-2(40) Emanuel County **OFFICE** Preconstruction  
P. I. No. 231960  
*CWH* **DATE** June 22, 2000  
**FROM** C. Wayne Hutto, Assistant Director of Preconstruction  
**TO** SEE DISTRIBUTION

**SUBJECT PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

CWH/cj

Attachment

**DISTRIBUTION:**

Tom Turner  
David Mulling  
David Studstill (ATTN: Harvey Keeper)  
Jerry Hobbs  
Herman Griffin  
Georgene Geary (ATTN: Michael Henry)  
Marion Waters  
Marta Rosen  
Paul Liles  
Don Mills  
Jimmy Chambers (ATTN: Ted Cashin)  
Mike Thomas  
Jim Kennerly

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA****INTERDEPARTMENT CORRESPONDENCE**

**FILE** BHF-038-2(40) Emanuel County **OFFICE** Preconstruction  
P.I. No. 231960 **DATE** June 12, 2000

**FROM**   
Thomas L. Turner, P.E., Director of Preconstruction

**TO** J. Tom Coleman, Jr., Commissioner

**SUBJECT** PROJECT CONCEPT REPORT

This project is the replacement of three (3) narrow and structurally deficient bridges on SR 56 over Ogeechee River and the two overflows at the Emanuel/Burke County line. The existing Ogeechee River Bridge (849' x 25.8') was built in 1946 and consists of a combination pile bents with concrete caps and concrete bents, concrete T-beam superstructure and a concrete deck, with a sufficiency rating of 33. The existing Ogeechee River overflow bridges (256' x 25.8' and 576' x 25.8') were built in 1946 and consist of concrete pile bents with concrete caps, concrete T-beam superstructure, a concrete deck, and both with a sufficiency rating of 36. The original design load capacity for all three bridges is H-20. However, due to extensive deterioration of the superstructure, the bridges load capacity has been reduced to 15 tons. The existing approaches consist of two, 12' lanes with 6' rural shoulders on 100' ± existing right-of-way. The base year traffic (2004) along this section of SR 56 is 2,900 VPD and the 20 year traffic (2024) or design year projected volume is 4,800 VPD. The proposed design speed is 55 MPH.

The construction proposes to replace the existing bridges over Ogeechee River and the two overflows with new 849' x 40', 256' x 40', and 576' x 40' concrete bridges, respectively, at the existing bridge sites. The approaches will consist of two, 12' lanes with 8' rural shoulders. Traffic will be maintained during construction utilizing actuated signals and constructing one half of bridges at a time.

Alternatives considered during concept development included the following: Alternative A - stage construct utilizing actuated signals (recommended alternative); Alternative B - realign SR 56 and construct the new bridges on new alignment; Alternative C - construct an "on-site" detour; and Alternative D - utilize an "off-site" detour for traffic during construction and close SR 56 (traffic would be detoured 38 miles for the 2-1/2 years of construction). An evaluation of each alternative indicates Alternative A (recommended alternative) is the most cost efficient.

J. Tom Coleman, Jr.

Page 2

BHF-038-2(40) Emanuel

June 12, 2000

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public hearing is not required; time saving procedures are appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$8,100,000	\$7,319,000	2003	03-04
Right-of-Way	\$ 15,000	\$ 2,000		
Utilities*	LGPA	LGPA		

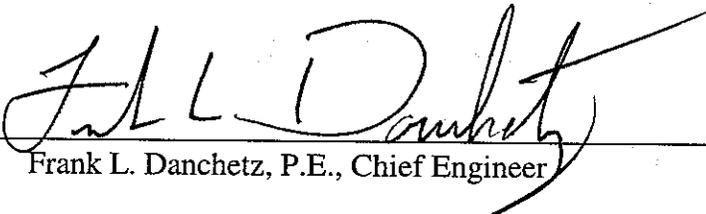
\*Emanuel County signed LGPA on 7-15-96 for utilities; Burke County has no utilities involved.

This project is in the STIP. I recommend this project concept be approved and Alternative A be implemented.

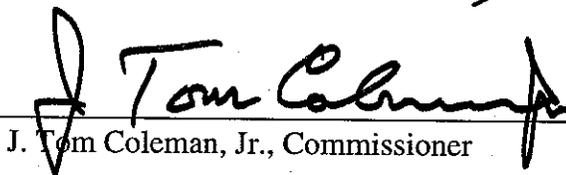
TLT:JDQ/cj

Attachment

CONCUR

  
\_\_\_\_\_  
Frank L. Danchetz, P.E., Chief Engineer

APPROVE

  
\_\_\_\_\_  
J. Tom Coleman, Jr., Commissioner

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ENVIRONMENT/LOCATION

**CONCEPT REPORT**  
**BHF-038-2(40) Emanuel / Burke County**  
**P.I. No. 231960**  
**Bridge Replacements at Ogeechee River and Overflow Bridges**

Federal Route No.: F38-2

Date of Report: 5-12-2000

State Route No.: 56

**RECOMMENDATION FOR APPROVAL**

Date \_\_\_\_\_  
**State Transportation Planning Administrator**  
This project concept is contained in the Regional Transportation Improvement Program (RTIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the RTIP and/or STIP.

Date \_\_\_\_\_  
**State Transportation Programming Engineer**

Date \_\_\_\_\_  
**State Environmental/Location Engineer**

Date \_\_\_\_\_  
**State Road Design Engineer**

5-12-2000  
Date \_\_\_\_\_  
*Michael Thomas*  
**District Engineer/Tennille**

Date \_\_\_\_\_  
**Project Review Engineer**

Date \_\_\_\_\_  
**State Traffic Operations Engineer**

Date \_\_\_\_\_  
**State Bridge & Structural Engineer**

PROJECT CONCEPT REPORT

Project Number: BHF-038-2(40)

PROJECT LOCATION AND DESCRIPTION

This project consists of three bridge replacements on S.R. 56 at Ogeechee River and the two overflow bridges at the Emanuel / Burke County line.

TRAFFIC

CURRENT		PROJECTED	
YEAR	AADT	YEAR	AADT
2004	2900	2024	4800
PDP CLASSIFICATION		FUNCTIONAL CLASSIFICATION	
Minor /Construction on new alignment		Rural Minor Arterial	
NEW FOS ( ) <i>CAV</i>		EXEMPT (X)	N/A ( )

NEED AND PURPOSE

The purpose of this project is to replace the structurally deficient bridges at the above noted locations. This project will also provide adequate bridge widths as well as correct any roadway features that do not meet current criteria.

EXISTING ROADWAY		
TYPICAL SECTION:	2 - 12 ft asphaltic concrete travel lanes with 6 ft grassed shoulders	RIGHT-OF-WAY WIDTH 100 ft +-
POSTED SPEED	MAXIMUM DEGREE OF CURVE	MAX GRADE
55 MPH - BR # 1 35 MPH - BR #2 & 3	6 DEGREE 00 MINUTES	6% @ 55MPH 8% @ 35MPH

MAJOR STRUCTURES				
FEATURES INTERSECTED/TYPE	LENGTH	WIDTH	PRIORITY RATING	SUFFICIENCY RATING
Bridge over Ogeechee River Overflow Hazard Index:	256 ft	25.8 ft		36.4
Bridge over Ogeechee River Overflow Hazard Index:	576 ft	25.8 ft		36.4
Bridge over Ogeechee River Hazard Index:	849 ft	25.8 ft		33.0

PROPOSED ROADWAY			
TYPICAL SECTION: 2 - 12FT ASPHALTIC CONCRETE TRAVEL LANES WITH 8 FT GRASSED SHOULDERS			
DESIGN SPEED	MAXIMUM DEGREE OF CURVE		MAXIMUM GRADE
55 MPH	ALLOWABLE	6	ALLOWABLE 6% @ 55 MPH 8% @ 35 MPH

PROPOSED MAJOR STRUCTURES		
FEATURES INTERSECTED/TYPE	LENGTH	WIDTH
Reinforced Concrete Bridge	256 ft	40 FT
Reinforced Concrete Bridge	576 ft	40 FT
Reinforced Concrete Bridge	849 ft	40 FT

PROPOSED RIGHT-OF-WAY				
RIGHT-OF-WAY WIDTH	PARCELS IMPACTED	DISPLACEMENTS 0		
100 FT	APPROX. 6	RES.: 0	BUS.: 0	M.H.: 0

**TYPE OF ACCESS CONTROL:  
CONTROLLED BY PERMIT**

**COORDINATION AND SCHEDULING**

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**CONCEPT TEAM MEETING DATE:** April 26,2000

**Personnel Present:** Alan Smith – District Design Squad Ldr. – Tennille  
Tom Clark – District Design Engineer – Tennille  
Harriet Oxford – District Estimator – Tennille  
Bonnie MacMakin – Area Engineer – Swainsboro  
C.R. Jackson – Assist. Engineer – Swainsboro  
Phillip Scarborough – District Environmentalist – Tennille  
Jimmy Hobby – Assistant Utilities Engineer – Tennille  
Representatives from ROW and Traffic Ops were not present

**CONFORMS TO TIP/STIP? YES**

**MEETS LOGICAL TERMINI REQUIREMENTS? YES**

**P.A.R. MEETING: NONE REQUIRED**

**PERMITS REQUIRED: A STD. CORPS OF ENGINEERS 404 PERMIT**

**LEVEL OF PUBLIC INVOLVEMENT: NONE**

**TIME SAVING PROCEDURES APPROPRIATE: YES**

**SCHEDULING CONSIDERATIONS:**

**TIME TO COMPLETE ENVIRONMENTAL: 1 YEAR**

**TIME TO COMPLETE PRELIMINARY RD/RW PLANS: 6 MONTHS**

**TIME TO COMPLETE 404 PERMIT: 1 YEAR**

**TIME TO COMPLETE FINAL CONSTRUCTION PLANS: 1 YEAR**

**TIME TO BUY RIGHTS-OF-WAY: 1 YEAR**

**OTHER PROJECTS IN THE AREA: NONE**

**LOCAL GOVERNMENT COMMITMENTS: UTILITY RELOCATIONS BY LGPA**

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MISCELLANEOUS

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**TRAFFIC CONTROL DURING CONSTRUCTION:**

Traffic will be maintained on the existing alignment. Actuated signals will be used at the three bridges.

**LEVEL OF ENVIRONMENTAL ANALYSIS:**

A Categorical Exclusion is applicable to this project. See attached Environmental comments.

**UNDERGROUND STORAGE TANKS:**

There are two possible sources just north of the Ogeechee River bridge.

**HAZARDOUS WASTE SITES:**

None

**DESIGN VARIATIONS REQUESTED**

	YES	NO	UNDETERMINED
SUBST HORIZ ALIGNMENT	( )	(X)	( )
SUBST ROADWAY WIDTH	( )	(X)	( )
SUBST SHOULDER WIDTH	( )	(X)	( )
SUBST VERTICAL GRADES	( )	(X)	( )
SUBST CROSS SLOPES	( )	(X)	( )
SUBST STOPPING SIGHT DIST	( )	(X)	( )
SUBST SUPERELEV RATES	( )	(X)	( )
SUBST HORIZONTAL CLEARANCE	( )	(X)	( )
SUBST SPEED DESIGN	( )	(X)	( )
SUBST VERTICAL CLEARANCE	( )	(X)	( )
SUBST BRIDGE WIDTH	( )	(X)	( )
SUBST BR STRUCT CAPACITY	( )	(X)	( )

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**ALTERNATIVES CONSIDERED:**

**Alternate A** – Stage construct all three bridges utilizing actuated signals and constructing one half of the bridges at the time. This is the most cost efficient alternate as well as provides little delay of traffic during construction. All three bridges are 5 girder bridges that can easily be staged.

**Alternate B** – Realign S.R. 56 and construct three new reinforced concrete bridges over the Ogeechee River and the two overflows. Once the realignment is complete, move traffic to this route and remove the existing bridges and roadway. This will be more expensive than alternate A. This would be the next best cost efficient method of replacement.

**Alternate C** – Construct “On-Site” detours, remove and replace all three structures at all locations. This will have greater cost due to removal of the detours when completed as well as the cost of detour drainage structures being built. However, traffic could be maintained with no apparent delay in travel time.

**Alternate D** – Utilize an Off Site Detour for traffic during construction and close S.R. 56 during construction. This was found to be infeasible due to the length of the detour necessary. Traffic would have to take a 38 mile detour for approximately 2 ½ years during construction. The district feels this would be too great a obstacle for emergency vehicles to maintain adequate response times. A cost analysis was not performed due to unfeasibility.

**The District recommends approval of alternate A for this project.**

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**ESTIMATED COST**

	ALTERNATE "A"	ALTERNATE "B"	ALTERNATE "C"
CONSTRUCTION:	\$6,036,779.00	\$6,205,268.00	\$7,551,518.00
E & C (10%):	\$733,774.00	\$754,254.00	\$1,008,481.00
INFLATION:	\$1,300,964.00	\$1,337,274.00	\$1,788,011.00
RIGHT-OF-WAY:	\$15,000.00	\$30,000.00	\$20,000.00
ACQUIRED BY:	D.O.T.	D.O.T.	D.O.T.
UTILITIES:	LGPA	LGPA	LGPA
ADJUSTED BY:	OWNERS	OWNERS	OWNERS
<b>TOTAL CONST COST:</b>	<b>\$8,086,517.00</b>	<b>\$8,326,796.00</b>	<b>\$10,368,010.00</b>

**COMMENTS**

There appears to be no feasible off-site detour route available for this project.

There are access drives between the bridges so construction ingress and egress will be no problem.

See attached Utility Comments.

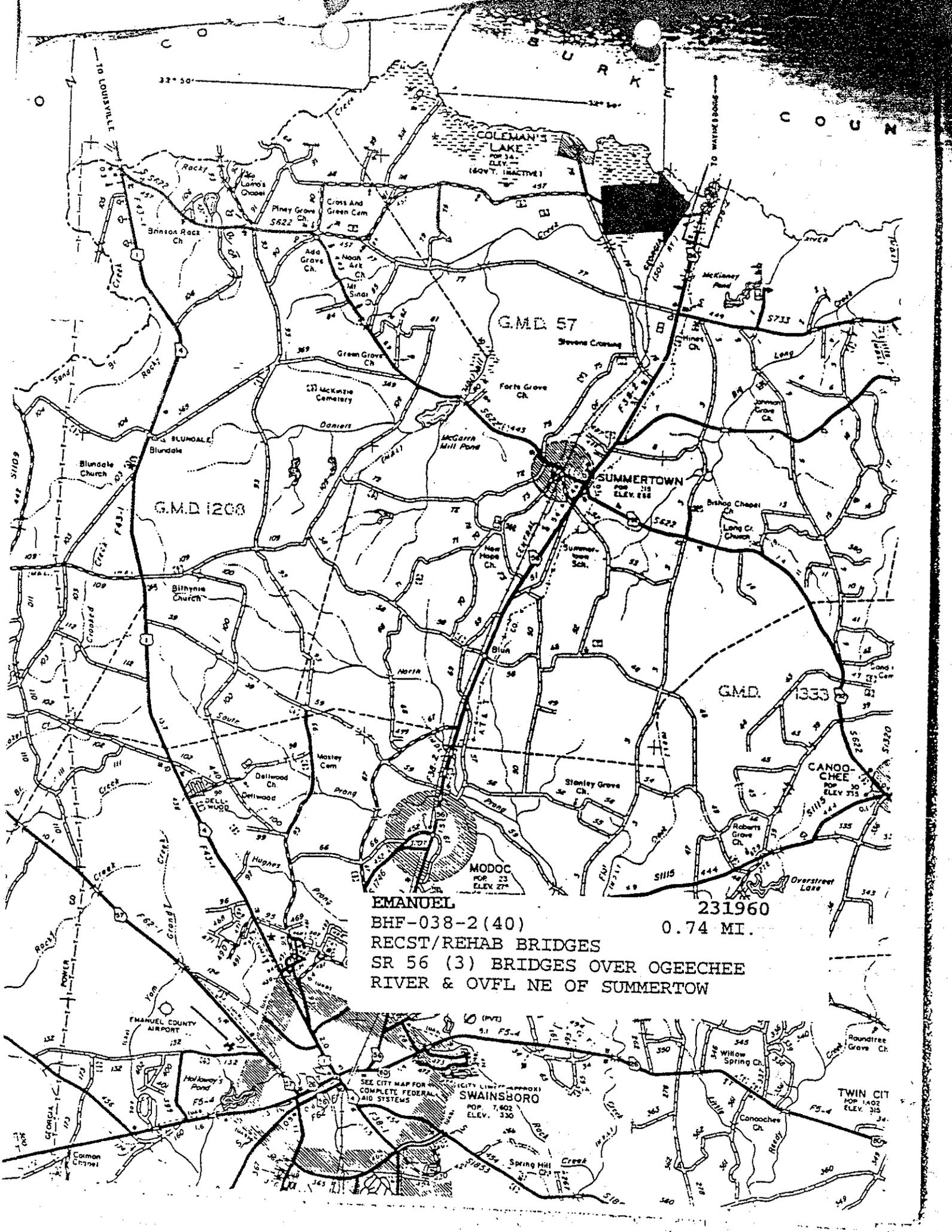
The boat ramps located at the Ogeechee River need to be coordinated with the Department of Natural Resources.

The City of Midville has a Festival every year in April that relies heavily on the boat ramps at this location. The construction time of these bridges need to be coordinated with that event if possible.

There is an Artesian well located on the East Side of S.R. 56 into Midville that appears to be close to construction but not in conflict at this time.

**ATTACHMENTS:** Typical Section, Cost Estimates, Location Sketch, LGPA, Traffic Counts

**PREPARED BY:** Douglas Alan Smith, District Design Squad Leader

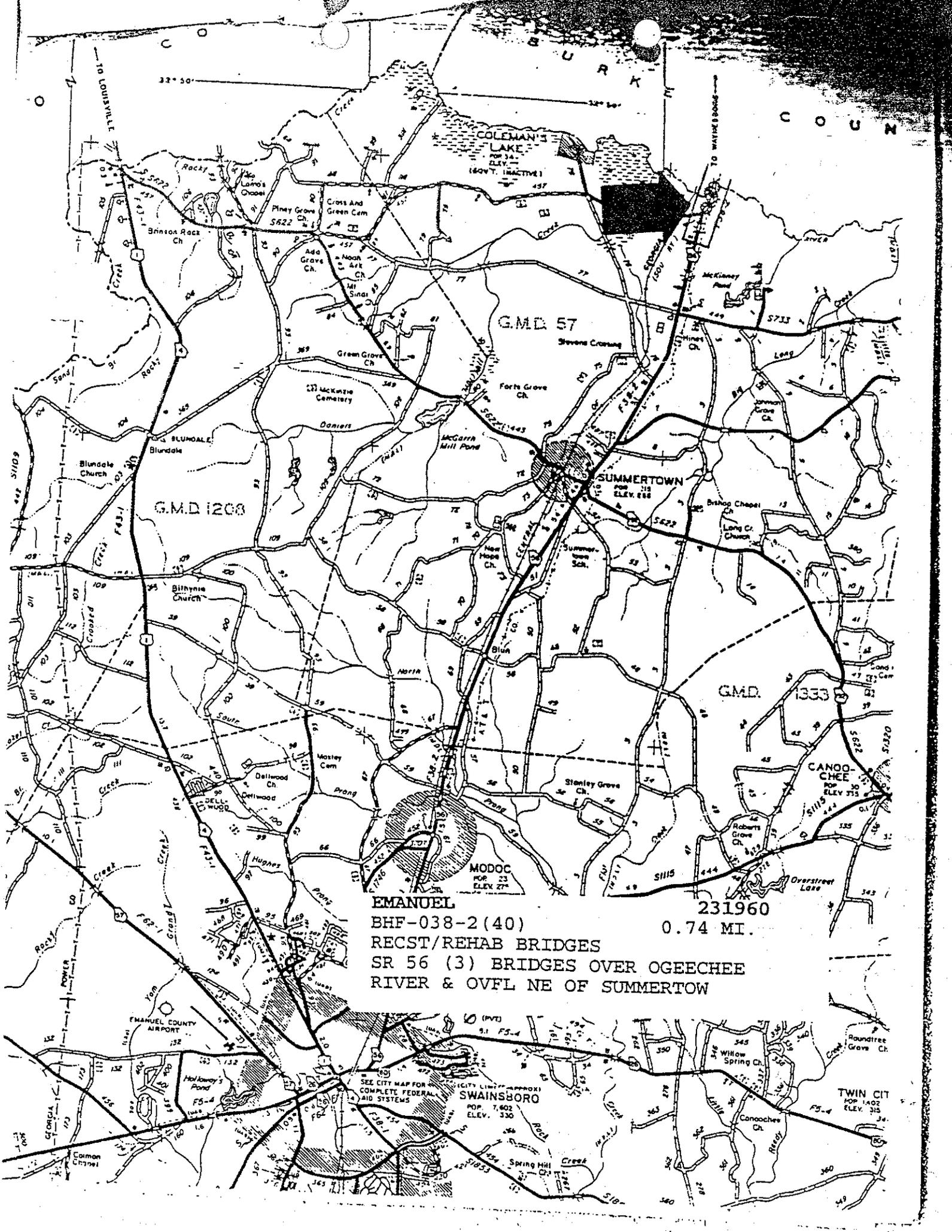


**EMANUEL**  
 BHF-038-2(40)  
 RECST/REHAB BRIDGES  
 SR 56 (3) BRIDGES OVER OGEECHEE  
 RIVER & OVFL NE OF SUMMERTOW

231960  
 0.74 MI.

SEE CITY MAP FOR  
 COMPLETE FEDERAL  
 AID SYSTEMS  
**SWAINSBORO**  
 POP. 7,402  
 ELEV. 330

**TWIN CIT**  
 POP. 1402  
 ELEV. 318



ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
ALTERNATE "A"					
CURRENT ADT= 2900 TRUCKS= 6%					
3 EXIST BRIDGES= 25.8'W X 256'L - 25.8'W X 576'L - 25.8'W X 859'L					
PROJECT LENGTH= 0.70 MILES					
***** ROADWAY *****					
150-1000	TRAFFIC CONTROL	LS	25000.000	1	25000.00
210-0100	GRADING COMPLETE	LS	50000.000	1	50000.00
318-3000	AGGR SURF CRS	TN	15.000	100	1500.00
402-0111	RECYCLED ASPH CONC B, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	37.000	200	7400.00
402-0120	RECYCLED ASPH CONC BASE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	36.000	100	3600.00
402-0130	RECYCLED ASPH CONC E, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	34.000	305	10370.00
402-1812	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	37.000	150	5550.00
413-1000	BITUM TACK COAT	GL	1.000	175	175.00
433-1000	REINF CONC APPROACH SLAB	SY	85.000	852	72420.00
436-1000	ASPHALTIC CONCRETE CURB	LF	7.000	3875	27125.00
441-0301	CONC SPILLWAY, TP 1	EA	1100.000	12	13200.00
456-2003	INDENTATION RUMBLE STRIPS, 3 FT WIDE	MI	1000.000	0.4	400.00
576-1010	SLOPE DRAIN PIPE, 10 IN	LF	20.000	1000	20000.00
577-1100	METAL DRAIN INLET - COMPLETE ASSEMBLY	EA	700.000	10	7000.00
641-1100	GUARDRAIL, TP T	LF	38.000	252	9576.00
641-1200	GUARDRAIL, TP W	LF	14.000	1550	21700.00
641-5001	GUARDRAIL ANCHORAGE, TP 1	EA	445.000	4	1780.00
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	1500.000	4	6000.00
PARTIAL PROJECT COST =					282796.00
***** EROSION CONTROL *****					
163-1041	CONSTR, MAINT & REM SEDIMENT BASIN, TP 1	EA	9400.000	8	75200.00
163-2051	CONSTR & MAINT BALED STRAW EROSION CHECK	LF	3.000	4500	13500.00

ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
170-1000	FLOATING SILT RETENTION BARRIER	LF	10.000	2000	20000.00
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	3.000	4500	13500.00
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	5.000	4500	22500.00
576-1015	SLOPE DRAIN PIPE, 15 IN	LF	20.000	1500	30000.00
700-0001	EROSION CONTROL (INCLUDES TEMPORARY)	LS	20000.000	1	20000.00
PARTIAL PROJECT COST =					194700.00

\*\*\*\*\* BRIDGE \*\*\*\*\*

540-1102	REMOVAL OF EXIST BRIDGE NO. 1 (286X25.8X30)	LS	221364.000	1	221364.00
540-1102	REMOVAL OF EXIST BRIDGE NO. 2 (576X25.8X30)	LS	445824.000	1	445824.00
540-1102	REMOVAL OF EXIST BRIDGE NO. 3 (849X25.8X30)	LS	657128.000	1	657128.00
543-1001	CONSTRUCTION OF BRIDGE NO. 1 - COMPLETE (286X40X60)	LS	686400.000	1	686400.00
543-1002	CONSTRUCTION OF BRIDGE NO. 2 - COMPLETE (576X40X60)	LS	1382400.000	1	1382400.00
543-1003	CONSTRUCTION OF BRIDGE NO. 3 - COMPLETE (849X40X60)	LS	2037600.000	1	2037600.00
PARTIAL PROJECT COST =					5430716.00

\*\*\*\*\* TRAFFIC SIGNS \*\*\*\*\*

610-9001	REM SIGN	EA	225.000	6	1350.00
611-5551	RESET SIGN	EA	500.000	6	3000.00
636-0500	WOOD SIGN POSTS	LF	6.000	30	180.00
636-1014	HIGHWAY SIGNS, TP 1 MATL - REFL SHEETING, TP 1, LEVEL A	SF	15.000	84	1260.00
654-1001	RAISED PVMT MARKERS TP 1	EA	4.615	60	276.89
PARTIAL PROJECT COST =					6066.89

\*\*\*\*\* DETOUR \*\*\*\*\*

622-1032	PRECAST CONCRETE MEDIAN BARRIER, METHOD 2	LF	25.000	700	17500.00
647-0220	TRAFFIC SIGNAL INSTALLATION, TEMP. NO.1	LS	35000.000	1	35000.00
647-0220	TRAFFIC SIGNAL INSTALLATION, TEMP. NO.2	LS	35000.000	1	35000.00
647-0220	TRAFFIC SIGNAL INSTALLATION, TEMP. NO.3	LS	35000.000	1	35000.00
PARTIAL PROJECT COST =					122500.00

ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
***** INFLATION AND E/C *****					
100-0001	INFLATION (5% X 4 YRS.)	DOLLARS	1300964.000	1	1300964.00
100-0002	E/C (10%)	DOLLARS	733774.000	1	733774.00
PARTIAL PROJECT COST =					2034738.00
TOTAL PROJECT COST =					8071516.89

ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
ALTERNATE "B"					
CURRENT ADT= 2900 TRUCKS= 6%					
3 EXIST BRIDGES= 25.8'W X 256'L - 25.8'W X 576'L - 25.8'W X 859'L					
PROJECT LENGTH= 0.70 MILES					
***** ROADWAY *****					
150-1000	TRAFFIC CONTROL	LS	50000.000	1	50000.00
210-0100	GRADING COMPLETE	LS	300000.000	1	300000.00
318-3000	AGGR SURF CRS	TN	15.000	100	1500.00
402-0111	RECYCLED ASPH CONC B, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	37.000	400	14800.00
402-0120	RECYCLED ASPH CONC BASE, GP 1 OR 2, INCL BITUM MATL & H LIME	TN	36.000	200	7200.00
402-0130	RECYCLED ASPH CONC E, GP 2 ONLY, INCL BITUM MATL & H LIME	TN	34.000	615	20910.00
413-1000	BITUM TACK COAT	GL	1.000	175	175.00
433-1000	REINF CONC APPROACH SLAB	SY	85.000	852	72420.00
436-1000	ASPHALTIC CONCRETE CURB	LF	7.000	3875	27125.00
441-0301	CONC SPILLWAY, TP 1	EA	1100.000	12	13200.00
456-2003	INDENTATION RUMBLE STRIPS, 3 FT WIDE	MI	1000.000	0.4	400.00
576-1010	SLOPE DRAIN PIPE, 10 IN	LF	20.000	1000	20000.00
577-1100	METAL DRAIN INLET - COMPLETE ASSEMBLY	EA	700.000	10	7000.00
641-1100	GUARDRAIL, TP T	LF	38.000	252	9576.00
641-1200	GUARDRAIL, TP W	LF	14.000	1550	21700.00
641-5001	GUARDRAIL ANCHORAGE, TP 1	EA	445.000	4	1780.00
641-5012	GUARDRAIL ANCHORAGE, TP 12	EA	1500.000	4	6000.00
PARTIAL PROJECT COST =					573786.00
***** EROSION CONTROL *****					
163-1041	CONSTR, MAINT & REM SEDIMENT BASIN, TP 1	EA	9400.000	8	75200.00
163-2051	CONSTR & MAINT BALED STRAW EROSION CHECK	LF	3.000	4500	13500.00
170-1000	FLOATING SILT RETENTION BARRIER	LF	10.000	2000	20000.00

ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	3.000	4500	13500.00
171-0030	TEMPORARY SILT FENCE, TYPE C	LF	5.000	4500	22500.00
576-1015	SLOPE DRAIN PIPE, 15 IN	LF	20.000	1500	30000.00
700-0001	EROSION CONTROL (INCLUDES TEMPORARY)	LS	20000.000	1	20000.00

PARTIAL PROJECT COST = 194700.00

\*\*\*\*\* BRIDGE \*\*\*\*\*

540-1102	REMOVAL OF EXIST BRIDGE NO. 1 (286X25.8X30)	LS	221364.000	1	221364.00
540-1102	REMOVAL OF EXIST BRIDGE NO. 2 (576X25.8X30)	LS	445824.000	1	445824.00
540-1102	REMOVAL OF EXIST BRIDGE NO. 3 (849X25.8X30)	LS	657128.000	1	657128.00
543-1001	CONSTRUCTION OF BRIDGE NO. 1 - COMPLETE (286X40X60)	LS	686400.000	1	686400.00
543-1002	CONSTRUCTION OF BRIDGE NO. 2 - COMPLETE (576X40X60)	LS	1382400.000	1	1382400.00
543-1003	CONSTRUCTION OF BRIDGE NO. 3 - COMPLETE (849X40X60)	LS	2037600.000	1	2037600.00

PARTIAL PROJECT COST = 5430716.00

\*\*\*\*\* TRAFFIC SIGNS \*\*\*\*\*

610-9001	REM SIGN	EA	225.000	6	1350.00
611-5551	RESET SIGN	EA	500.000	6	3000.00
636-0500	WOOD SIGN POSTS	LF	6.000	30	180.00
636-1014	HIGHWAY SIGNS, TP 1 MATL - REFL SHEETING, TP 1, LEVEL A	SF	15.000	84	1260.00
654-1001	RAISED PVT MARKERS TP 1	EA	4.615	60	276.89

PARTIAL PROJECT COST = 6066.89

\*\*\*\*\* INFLATION AND E/C \*\*\*\*\*

100-0001	INFLATION (5% X 4 YRS.)	DOLLARS	1337274.000	1	1337274.00
100-0002	E/C (10%)	DOLLARS	754254.000	1	754254.00

PARTIAL PROJECT COST = 2091528.00

TOTAL PROJECT COST = 8296796.89



ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
170-1000	FLOATING SILT RETENTION BARRIER	LF	10.000	2000	20000.00
171-0010	TEMPORARY SILT FENCE, TYPE A	LF	3.000	4500	13500.00
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700-0001	EROSION CONTROL (INCLUDES TEMPORARY)	LS	20000.000	1	20000.00
PARTIAL PROJECT COST =					194700.00

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543-1003	CONSTRUCTION OF BRIDGE NO. 3 - COMPLETE (849X40X60)	LS	2037600.000	1	2037600.00
PARTIAL PROJECT COST =					5430716.00

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654-1001	RAISED PVMT MARKERS TP 1	EA	4.615	60	276.89
PARTIAL PROJECT COST =					6066.89

\*\*\*\*\* DETOUR \*\*\*\*\*

100-0003	CONSTR OF DETOUR NO. 1 (INCL BRIDGE)	EACH	290240.000	1	290240.00
100-0003	CONSTR OF DETOUR NO. 2 (INCL BRIDGE)	EACH	533840.000	1	533840.00
100-0003	CONSTR OF DETOUR NO. 3 (INCL BRIDGE)	EACH	763160.000	1	763160.00
PARTIAL PROJECT COST =					1587240.00

ITEM NO.	ITEM DESCRIPTION	UNITS	UNIT COST	QUANTITY	ITEM COST
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\*\*\*\*\* INFLATION AND E/C \*\*\*\*\*

100-0001	INFLATION (5% X 4 YRS.)	DOLLARS	1788011.000	1	1788011.00
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100-0002	E/C (10%)	DOLLARS	1008481.000	1	1008481.00
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PARTIAL PROJECT COST = 2796492.00

TOTAL PROJECT COST = 10348010.89

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

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**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BHF-038-2(40), EMANUEL COUNTY      **OFFICE** Environmental/Location  
P.I.# 231960  
**DATE** August 20, 1998

**FROM** David E. Studstill, P.E., State Environmental/Location Engineer

**TO** Mike Thomas, P. E., District Engineer, Tennille  
Attn: Thomas L. Clark, District Design Engineer

**SUBJECT** TRAFFIC ASSIGNMENT FOR S.R. 56 @ OGEECHEE RIVER

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

2024 AADT = 4800

2004 AADT = 2900

K = 9 %

D = 55 %

T = 6 %

24 Hr. T = 8 %

S.U. = 3 %

Comb. = 5 %

DS/ DRF



ORIGINAL GENERAL FILES

WAYNE SHACKELFORD  
COMMISSIONER

FRANK DANCHETZ  
CHIEF ENGINEER

JUL 1996  
Dept. Of Transportation  
Tennille, GA

# Department of Transportation

State of Georgia

#2 Capitol Square, S.W.

Atlanta, Georgia 30334-1002

JUL 2, 1996

## LOCAL GOVERNMENT PROJECT AGREEMENT

G. CHARLES LEWIS  
DEPUTY COMMISSIONER

JAMES R. MARTIN  
TREASURER

JUL 1996  
RECEIVED  
OFFICE OF PROGRAMMING

In consideration of the proposed improvements, the County of EMANUEL agrees to provide or perform the following at no cost to the Georgia D.O.T. for project BHF-038-2(40), PI # 231960, EMANUEL County:

RECST/REHAB / BRIDGES  
SR 56 (3) BRIDGES OVER OGEECHEE RVR & OVLF NE OF SUMMERTOWN

[ ] 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.

[X] 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.

[X] 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, real this may delay the project until additional funding can be found.

NOTE: A similar agreement has been sent to Burke County.

This 15th day of July, 1996

APPROVED

City/County Official

DISTRICT TWO  
0729

- ( ) Dist Engr
- ( ) Const
- ( ) CT Admin
- (1) State Aid
- ( ) Estimator
- ( ) Auditor
- ( ) Matls
- ( ) Adm Off
- ( ) EEO/Train
- (9) Safety
- ( ) EDP Tech Sppt
- ( ) Legal
- (3) Procurement
- (4) P & Plan
- ( ) Environ
- (5) Design
- ( ) Loc
- ( ) R/W 1
- ( ) R/W 2
- (2) Loc Gvt R/W
- ( ) Intermodal
- ( ) Outdoor Adv
- ( ) Traf Ops
- ( ) Maint
- (6) Utilities



\*\*  
Send to [Signature]  
last!!

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
INTERDEPARTMENT CORRESPONDENCE

FILE BHF-038-2 (40) Emanuel County OFFICE Maintenance  
P.I. No. 231690 DATE April 12, 2000

FROM *BK*  
Buddy Gratton, P.E., State Maintenance Engineer

TO Mike Thomas, District Engineer, Tennille  
Attn: Alan Smith

SUBJECT Bridge Replacement/Rehabilitation / Need and Purpose

The above project involves the following bridges:

Structure ID 107-0038-0  
Location ID 107-00056D-028.32N  
SR 56 over Ogeechee River Overflow

(256' x 25.8')

This bridge was built in 1946 and consists of concrete pile bents with concrete caps, concrete T-beam superstructure, and a concrete deck. The original design load capacity is H-20. Due to extensive deterioration of the superstructure and substructure, the bridge has had the load capacity reduced to 15 tons. The sufficiency rating on the structure is 36.9 and the bridge is classified as Structurally Deficient. In accordance with DOT policy 2405-1, we recommend that this bridge be replaced due to poor condition and unacceptable load capacity. Due to this criteria no additional cost analysis or coring by the lab will be required. This bridge does currently qualify for federal replacement BR funding.

Structure ID 107-0039-0  
Location ID 107-00056D-028.51N  
SR 56 over Ogeechee River Overflow

(576' x 25.8')

This bridge was built in 1946 and consists of concrete pile bents with concrete caps, concrete T-beam superstructure, and a concrete deck. The original design load capacity is H-20. Due to extensive deterioration of the superstructure and substructure, the bridge has had the load capacity reduced to 15 tons. The sufficiency rating on the structure is 36.9 and the bridge is classified as Structurally Deficient. In accordance with DOT policy 2405-1, we recommend that this bridge be replaced due to poor condition and unacceptable load capacity. Due to this criteria no additional cost analysis or coring by the lab will be required. This bridge does currently qualify for federal replacement BR funding.

Structure ID 107-0040-0

Location ID 107-00056D-028.72N

SR 56 over Ogeechee River

(849' x 25.8')

This bridge was built in 1946 and consists of a combination of concrete pile bents with concrete caps and concrete bents, concrete T-beam superstructure, and a concrete deck. The original design load capacity is H-20. Due to extensive deterioration of the superstructure and substructure, the bridge has had the load capacity reduced to 15 tons. The sufficiency rating on the structure is 33.0 and the bridge is classified as Structurally Deficient. In accordance with DOT policy 2405-1, we recommend that this bridge be replaced due to poor condition and unacceptable load capacity. Due to this criteria no additional cost analysis or coring by the lab will be required. This bridge does currently qualify for federal replacement BR funding.

The project number for this project should be changed from BH to BR. If you have any questions, please contact Brian Summers at 651-8522.

BG/BKS

cc Percy Middlebrooks

Page Two

Sewer

None

Cable Television

Mallard Cablevision

116 Huger Street

Rincon, GA 31326

Contact Person: Pete Smith

Phone: 912-826-4001

Railroad

None

General Utility Comments

Georgia Transmission Corporation has transmission facilities located on the east side of State Route 56 on private easement. It appears that one of Georgia Transmission's angle poles is back guyed toward State Route 56 on DOT right of way. This will be verified when preliminary project plans are developed.

Excelsior E.M.C. has electrical distribution facilities under built on Georgia Transmission's pole line.

Pineland Telephone Cooperative, Inc. has buried cables on the West Side of State Route 56 on the existing DOT right of way.

AT&T Communications has two conduits attached to the bridges.

There is an artesian well located just north of the Ogeechee River Bridge. This well is located on the existing Department of Transportation right of way and should not be impacted by the Department's proposed construction.

No reimbursable utility relocation costs are anticipated for this project.

## UTILITY COMMENTS FOR CONCEPT TEAM MEETING

STP-0937 (8) – Emanuel/Burke Counties

P.I. No. 231960

April 26, 2000

### Electrical

Georgia Transmission Corporation

2100 East Exchange Place

P.O. Box 2088

Tucker, GA 30085-2088

Contact Person: Jeannine Rispin

Phone: 770-270-7741

Excelsior E.M.C.

P.O. Box 297

Metter, GA 30439

Contact Person: Larry Durden

Phone: 912-685-2115

Georgia Power Company

2521 Broadmoor Court

Snellville, GA 30030

Contact Person: Dale Petticord

Phone: 770-982-8255

### Telephone

Pineland Telephone Cooperative, Inc.

30 South Rountree Street

Metter, GA 30439

Contact Person: Jinks Durden

Phone: 1-800-247-1266

AT&T Communications, Inc.

360 Gees Mill Bus. Pkwy.

Conyers, GA 30013

Contact Person: Walter E. Boles, Jr.

Phone: 770-918-2130

### Gas

None

### Water

Flowing Well

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE:** BHF-038-2(40), Emanuel/Burke Counties  
P.I. # 231960

**OFFICE:** Tennille

**DATE:** May 12, 2000

**FROM:** Phillip Scarborough, District Environmentalist, Tennille

**TO:** Tom Clark, District Design Engineer, Tennille  
Attn.: Alan Smith, District Design Squad Leader

**SUBJECT:** Environmental Comments for the Above Mentioned Project

The following comments pertain to the bridge replacements over the Ogeechee River and two overflow bridges on State Route 56 at the Emanuel Burke County Line.

The aforementioned proposed project would have the following environmental impacts:

- (1) **WETLANDS** – There would be jurisdictional wetlands Associated with the overflow bridges that would be crossed. The estimated impacted jurisdictional wetlands would have a cumulative total of approximately 1.0 acre. This acreage was estimated utilizing the existing of right-of-way due to the use of actuated signals and one lane traffic detours.
- (2) **HISTORICAL RESOURCES** – All three bridges are over 50 years of age. However, these bridges are not listed on the state historical bridge inventory list. The historical significance of these bridges will be determined as the project design continues.
- (3) **ARCHAEOLOGICAL RESOURCES** – Archaeological studies will be performed to determine any significant archaeological resources within this proposed projects area of potential environmental effect.
- (4) **THREATENED AND ENDANGERED SPECIES** – Special studies would be conducted to determine the presence of any threatened or endangered species as well as species of concern. It is known that the shortnose sturgeon inhabits the Ogeechee river. A biological assessment will have to be prepared.
- (5) There will be two UST sites within the proposed project's area of potential environmental effect. Testing will be done to determine if any contamination levels exist.

Special studies would be requested to determine any and all impacts to wetlands, historical resources, archaeological resources, and threatened and endangered species, as project development continues. The aforementioned impacts are for estimating purposes only.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ENVIRONMENT/LOCATION

**CONCEPT REPORT**  
**BHF-038-2(40) Emanuel / Burke County**  
**P.I. No. 231960**

**Bridge Replacements at Ogeechee River and Overflow Bridges**

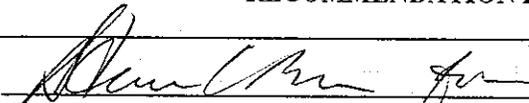
Federal Route No.: F38-2

Date of Report: 5-12-2000

State Route No.: 56

RECOMMENDATION FOR APPROVAL

5-19-00  
Date

  
State Transportation Planning Administrator

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

Date

State Transportation Programming Engineer

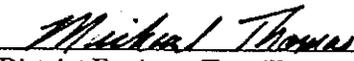
Date

State Environmental/Location Engineer

Date

State Road Design Engineer

5-12-2000  
Date

  
District Engineer/Tennille

Date

Project Review Engineer

Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer

**EMANUEL COUNTY**

<b>PROJECT:</b> 221900-	<b>TYPE WORK:</b> RECST/REHAB	<b>FUND:</b> STATE	<b>PE:</b> 1993	UNDERWAY
		<b>LENGTH (miles / km)</b> 2.2 / 3.54	<b>ROW:</b> 2001	\$1,109,000
<b>DESCRPT:</b> SR 4/US 1 FM SOUTH TO NORTH CTY LMTS IN OAK PARK & NEW LOC			<b>CST:</b>	AFTER 2002
<b>EXIST. LANES:</b> 02 <b>PROPOSED LANES:</b> 04				
<b>ASSOCIATED PROJECTS:</b> 22Y900-				
<b>PROJECT:</b> 221910-	<b>TYPE WORK:</b> RECST/REHAB	<b>FUND:</b> STATE	<b>PE:</b> 1993	UNDERWAY
		<b>LENGTH (miles / km)</b> 2.3 / 3.70	<b>ROW:</b> 2001	\$160,000
<b>DESCRPT:</b> SR 4/US 1 FROM NCL OAK PARK TO I-16			<b>CST:</b>	AFTER 2002
<b>EXIST. LANES:</b> 02 <b>PROPOSED LANES:</b> 04				
<b>ASSOCIATED PROJECTS:</b> 22Y910-				
<b>PROJECT:</b> 222490-	<b>TYPE WORK:</b> RECST/REHAB	<b>FUND:</b> STATE	<b>PE:</b> 1993	UNDERWAY
		<b>LENGTH (miles / km)</b> 9.8 / 15.78	<b>ROW:</b> 2001	\$2,593,000
<b>DESCRPT:</b> SR 4/US 1 FM N. OF I-16 NORTH TO SR 297 @ SWAINSBORO BYPASS			<b>CST:</b>	AFTER 2002
<b>EXIST. LANES:</b> 02 <b>PROPOSED LANES:</b> 04				
<b>ASSOCIATED PROJECTS:</b> 22Y490-				
<b>PROJECT:</b> 22Y490-	<b>TYPE WORK:</b> RECST/REHAB	<b>FUND:</b> NHS	<b>PE:</b> 2000	\$1,000
		<b>LENGTH (miles / km)</b> 0 / 0.00	<b>ROW:</b> NONE	
<b>DESCRPT:</b> SR 4/US 1 FM I-16 TO SR 297 @ SWAINSBORO BYP - FOR FED PE			<b>CST:</b> NONE	
<b>EXIST. LANES:</b> 02 <b>PROPOSED LANES:</b> 04				
<b>ASSOCIATED PROJECTS:</b> 222490-				
<b>PROJECT:</b> 22Y900-	<b>TYPE WORK:</b> RECST/REHAB	<b>FUND:</b> NHS	<b>PE:</b> 2000	\$1,000
		<b>LENGTH (miles / km)</b> 0 / 0.00	<b>ROW:</b> NONE	
<b>DESCRPT:</b> SR 4/US 1 FM FM OAK PARK SO. TO N0. CTY LMTS-FOR FED PE; 221900			<b>CST:</b> NONE	
<b>EXIST. LANES:</b> 02 <b>PROPOSED LANES:</b> 04				
<b>ASSOCIATED PROJECTS:</b> 221900-				
<b>PROJECT:</b> 22Y910-	<b>TYPE WORK:</b> RECST/REHAB	<b>FUND:</b> NHS	<b>PE:</b> 2000	\$1,000
		<b>LENGTH (miles / km)</b> 0 / 0.00	<b>ROW:</b> NONE	
<b>DESCRPT:</b> SR 4/US 1 FROM NCL OAK PARK TO I-16 - FOR FED PE; 221910			<b>CST:</b> NONE	
<b>EXIST. LANES:</b> 02 <b>PROPOSED LANES:</b> 04				
<b>ASSOCIATED PROJECTS:</b> 221910-				
<b>PROJECT:</b> 231960-	<b>TYPE WORK:</b> REHAB. BRIDGE	<b>FUND:</b> BRIDGE	<b>PE:</b> 1997	UNDERWAY
		<b>LENGTH (miles / km)</b> 0.74 / 1.19	<b>ROW:</b> 2002	\$2,000
<b>DESCRPT:</b> SR 56 (3) BRIDGES OVER OGEECHEE RVR & OVFL NE OF SUMMERTOWN			<b>CST:</b>	AFTER 2002
<b>PROJECT:</b> 231970-	<b>TYPE WORK:</b> REHAB. BRIDGE	<b>FUND:</b> BRIDGE	<b>PE:</b> 1997	UNDERWAY
		<b>LENGTH (miles / km)</b> 0.23 / 0.37	<b>ROW:</b> 2001	\$10,000
<b>DESCRPT:</b> SR 57 OVER SARDIS CREEK 9.7 MILES NW OF SWAINSBORO			<b>CST:</b>	AFTER 2002
<b>PROJECT:</b> 232325-	<b>TYPE WORK:</b> REPLACE BRIDGE	<b>FUND:</b> BRIDGE	<b>PE:</b> 2001	\$20,000
		<b>LENGTH (miles / km)</b> 0.21 / 0.34	<b>ROW:</b>	AFTER 2002
<b>DESCRPT:</b> SR 26/US 80 @ E FORK YAM GRANDY CK 2.2 MI SW OF SWAINSBORO			<b>CST:</b>	AFTER 2002

Department of Transportation  
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BHF-038-2(40)/Emanuel County  
P.I. No. 231960

Office: Traffic Operations  
Atlanta, Georgia  
Date: May 17, 2000

From:  M.G. Waters, III, P.E., State Traffic Operations Engineer

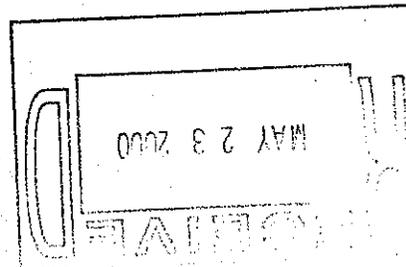
To: Wayne Hutto, Assistant Director of Preconstruction

Subject: Project Concept Report Review

We have reviewed the concept report on the above project for the replacement of three structurally deficient bridges on SR 56 at Ogeechee River and the two overflow bridges at the Emanuel / Burke County line. All three bridges were constructed in 1946 and are 25.8 feet wide. Due to extensive deterioration the load capacities have been reduced to 15 tons from the original design load of H-20. Structure No.'s 1 and 2, the two overflow bridges, have sufficiency ratings of 36.9 while Structure No. 3, over Ogeechee River has a sufficiency rating of 33.

SR 56 is a two lane roadway with 6 foot grassed shoulders. This project proposes to increase the bridge width to 40 feet and the approach shoulder width to 8 feet, at all three locations. With design year traffic counts in excess of 4000vpd, we recommend bridge widths of 44 feet, as in accordance with MOG 4265-10. We also recommend 2 feet of the grassed shoulder be paved. Traffic is to be maintained on the existing roadway during construction via staging, utilizing actuated signals and constructing one-half of the bridges at a time.

We believe this concept will improve safety and traffic operations along this section of roadway.



With the recommended statements, we find this report satisfactory for approval.

MGW:TWS

Attachment (signature page)

c: David Studstill

Michael Thomas, District Engineer, Tennille

Attention: Alan Smith

Roger Price, P.E., District Traffic Operations Engineer, Tennille

David Mulling, w/ attachment

Marta Rosen

Chuck Hasty, P.E., TMC

General Files

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ENVIRONMENT/LOCATION

**CONCEPT REPORT**  
**BHF-038-2(40) Emanuel / Burke County**  
**P.I. No. 231960**

**Bridge Replacements at Ogeechee River and Overflow Bridges**

Federal Route No.: F38-2

Date of Report: 5-12-2000

State Route No.: 56

RECOMMENDATION FOR APPROVAL

Date \_\_\_\_\_  
State Transportation Planning Administrator  
This project concept is contained in the Regional Transportation Improvement Program (RTIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the RTIP and/or STIP.

Date \_\_\_\_\_  
State Transportation Programming Engineer

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

Date \_\_\_\_\_  
State Road Design Engineer

5-12-2000  
Date \_\_\_\_\_  
*Michael Thomas*  
District Engineer/Tennille

Date \_\_\_\_\_  
Project Review Engineer  
5/12/2000  
Date \_\_\_\_\_  
*Marion Hula*  
State Traffic Operations Engineer

Date \_\_\_\_\_  
State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ENVIRONMENT/LOCATION

CONCEPT REPORT  
BHF-038-2(40) Emanuel / Burke County  
P.I. No. 231960

Bridge Replacements at Ogeechee River and Overflow Bridges

Federal Route No.: F38-2

Date of Report: 5-12-2000

State Route No.: 56

RECOMMENDATION FOR APPROVAL

Date \_\_\_\_\_  
State Transportation Planning Administrator  
This project concept is contained in the Regional  
Transportation Improvement Program (RTIP)  
and/or in the State Transportation Improvement  
Program (STIP). The concept as presented herein  
and submitted for approval is consistent with that  
which is included in the RTIP and/or STIP.

5/16/00

*Kevin J. Guffey*

Date \_\_\_\_\_  
State Transportation Programming Engineer

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

Date \_\_\_\_\_  
State Road Design Engineer

5-12-2000

*Michael Thomas*

Date \_\_\_\_\_  
District Engineer/Tennille

Date \_\_\_\_\_  
Project Review Engineer

Date \_\_\_\_\_  
State Traffic Operations Engineer

Date \_\_\_\_\_  
State Bridge & Structural Engineer