

D.O.T. 66

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRST-0577(24) Candler County **OFFICE** Preconstruction  
P. I. No. 542400  
**DATE** October 10, 2001  
**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:**

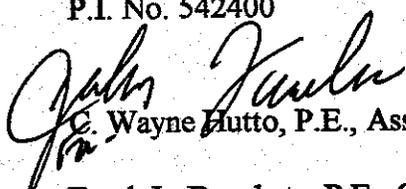
Tom Turner  
David Mulling  
Harvey Keepler  
Jerry Hobbs  
Herman Griffin  
Michael Henry  
Phillip Allen  
Marta Rosen  
Paul Liles  
Jimmy Chambers  
Gary Priester  
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

**FILE** BRST-0577(24) Candler County **OFFICE** Preconstruction  
P.I. No. 542400

**DATE** September 25, 2001

**FROM**  C. Wayne Hutto, P.E., Assistant Director of Preconstruction

**TO** Frank L. Danchetz, P.E., Chief Engineer

**SUBJECT** PROJECT CONCEPT REPORT

This project is the replacement of a structurally deficient bridge on SR 46 over Fifteen Mile Creek, 2.8 miles east of Metter, Georgia. The existing bridge, constructed in 1947, is load limited with a sufficiency rating of 41. State Route 46 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 46 is functionally classified as a rural major collector and is a designated school bus route. The project is on bicycle route 40 (the TransGeorgia Corridor) as identified in GDOT's Statewide Bicycle and Pedestrian Plan. Traffic is projected to be 6,900 and 10,300 VPD in the years 2007 and 2027 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to relocate SR 46 north of its present location, extending a total of 0.76 mile. The proposed new bridge will be 440' x 44' and will be located just north of the existing bridge structure. The relocated SR 46 will consist of two, 12' lanes with 10' rural shoulders (6.5' paved). The paved shoulders will include a 4'-2" bike lane with a 1' buffer between the edge of travel lane and the 16" of rumble strip. 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 will be prepared; 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)	\$2,949,000	\$1,901,000	2005	02-07
Right-of-Way	\$ 10,000	\$ 10,000		
Utilities*	LGPA	LGPA		

Frank L. Danchetz

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BRST-0577(24) Candler

September 25, 2001

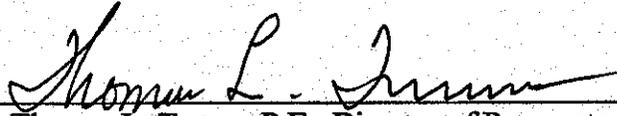
\*Candler County signed LGPA for utilities 7-25-99.

I recommend this project concept be approved.

CWH:JDQ/cj

Attachment

CONCUR



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

APPROVE



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

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENTAL CORRESPONDENCE**

**FILE:** BRST-0577(24) Candler  
P.I. Number 542400-

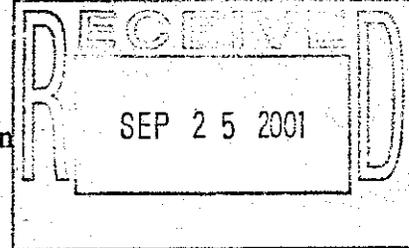
**OFFICE:** Engineering Services

**DATE:** September 25, 2001

**FROM:** *DM*  
David Mulling, Project Review Engineer

**TO:** Wayne Hutto, Assistant Director of Pre-construction

**SUBJECT:** CONCEPT REPORT



We have reviewed the concept report submitted September 14, 2001 by the letter from James R. Chambers dated September 13, 2001, and have no comment.

The costs for the project are:

Construction	\$2,331,000
Inflation	\$ 350,000
E&C	\$ 268,000
Reimbursable Utilities	\$ 5,000
Right of Way	\$ 10,000

DTM

c: Jim Chambers – Attention: Ted Cashin

## SCORING RESULTS AS PER MOG 2440-2

<b>Project Number:</b> BRST-0577(24)		<b>County:</b> CANDLER		<b>PI No.:</b> 542400-		
<b>Report Date:</b> 9/13/01			<b>Concept By:</b>			
			DOT Office: CONSULTANT DESIGN			
<input checked="" type="checkbox"/> CONCEPT						
			Consultant: Wilbur Smith Associates			
<b>Project Type:</b> 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 <input type="checkbox"/> Building <input type="checkbox"/> Interchange <input type="checkbox"/> Intersection <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous		
<b>FOCUS AREAS</b>	<b>SCORE</b>	<b>RESULTS</b>				
Presentation	100%					
Judgement	100%					
Environmental	100%					
Right of Way	100%					
Utility	100%					
Constructability	100%					
Schedule	100%					

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**INTERDEPARTMENT CORRESPONDENCE**

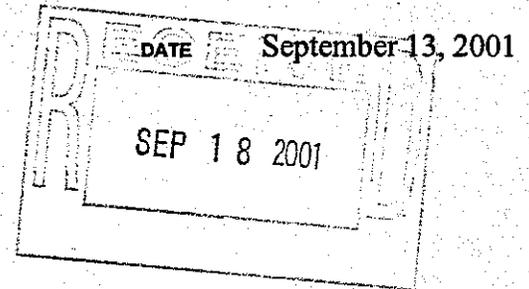
**FILE** **BRST-0577(24) Candler County**  
SR 46 over Fifteen Mile Creek 2.8 mi E of Metter  
P.I. No. 542400-

**FROM** *James R. Chambers* <sup>mga</sup>  
*ful* James R. Chambers, State Consultant Design Engineer

**TO** Wayne Hutto, Assistant Director of Preconstruction

**SUBJECT** **PROJECT CONCEPT REPORT**

**OFFICE** Atlanta



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

Those on the distribution list below should review the Concept Report and send comments and/or the signature page to the Preconstruction Office within 10 days as per the PDP.

If you have any questions or require further information please call Ted Cashin at (404)463-6135 or Carol Bowler of Wilbur Smith Associates at (770) 936-8650.

*Distribution:*

David Mulling, Project Review Engineer  
Harvey Keeper, State Environmental/Location Engineer  
Phillip Allen, State Traffic Safety and Design Engineer  
Marta Rosen, State Transportation Planning Administrator  
Herman Griffin, State Transportation Programming Engineer  
Gary Priester, District Engineer - Jesup  
Paul Liles, State Bridge & Structural Engineer

JRC: EJC

cc: Wilbur Smith Associates

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN**

**PROJECT CONCEPT REPORT**

Project Number: BRST-0577(24)  
County: Candler  
P.I. Number: 542400  
Federal Route Number: N/A  
State Route Number: 46

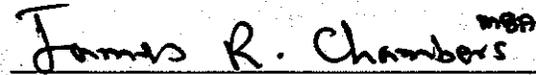
Recommendation for approval:

DATE 9-13-01

DATE 9-13-01



Project Manager



State Consultant Design Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in 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 \_\_\_\_\_

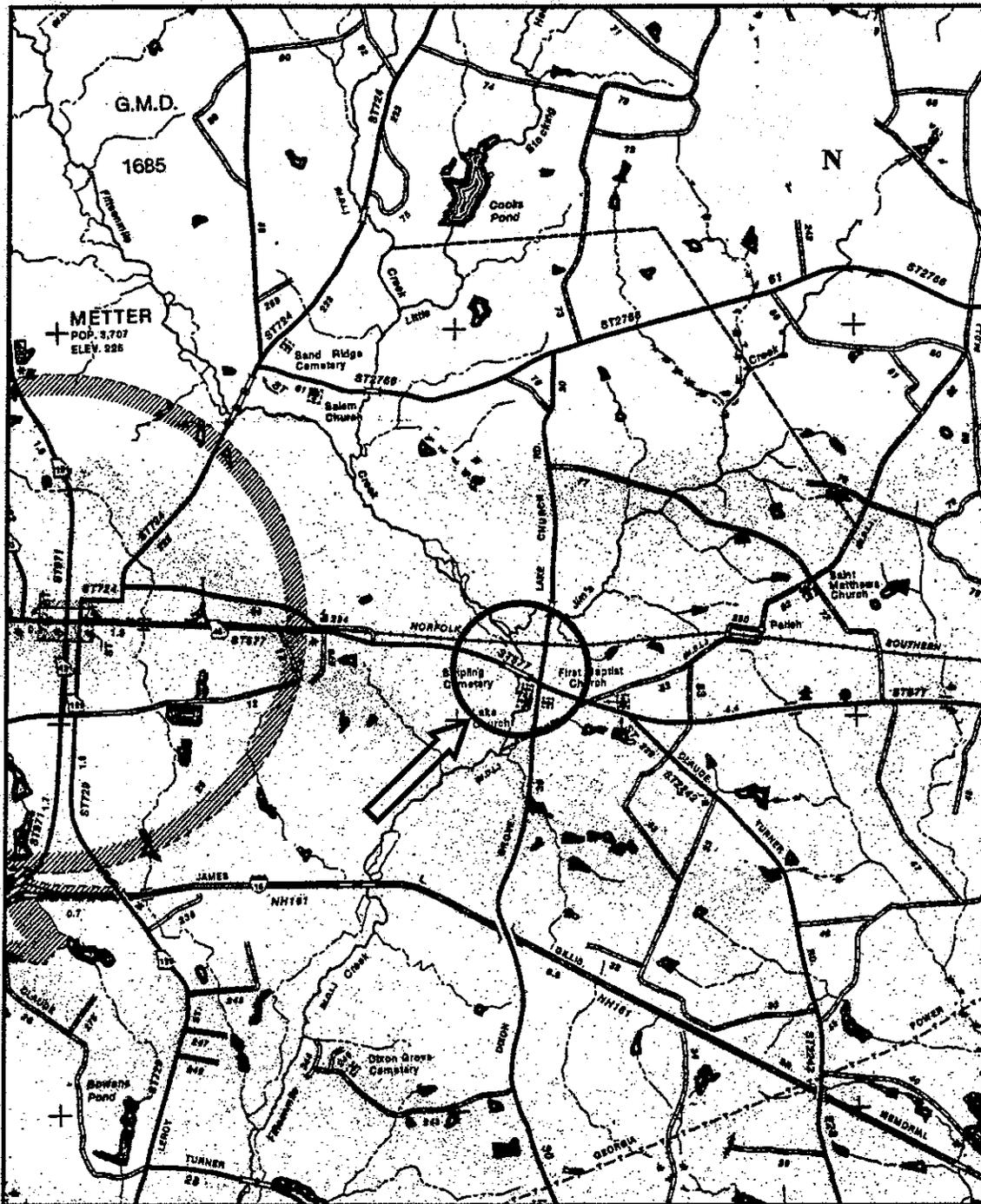
District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE \_\_\_\_\_

State Bridge & Structural Engineer



Scale: 1 inch = 1 mile

## Location Map

**Project:** BRST-0577(24) Candler County PI No.: 542400-  
**Description:** SR 46 over Fifteen Mile Creek 2.8 mi E of Metter

# PROJECT CONCEPT REPORT

**PROJECT: BRST-0577(24)**

## PROJECT NEED & PURPOSE

The purpose of project BRST-0577(24) is to replace the structurally deficient bridge with a new bridge in order to improve the operation and safety of this section of SR 46. See attached Need and Purpose Statement.

## DESCRIPTION OF PROPOSED PROJECT

The proposed project is located in Candler County on SR 46 over Fifteen Mile Creek, 2.8 miles east of Metter, Georgia. This project consists of replacing a structurally deficient bridge over Fifteen Mile Creek to the north of its existing location. The project site consists of a flat, swampy floodplain with an undefined main channel. There is an undefined secondary channel that also flows through the bridge. A cemetery is located south of SR 46 and east of the bridge. SR 46 is a designated school bus route and is identified in GDOT's Statewide Bicycle and Pedestrian Plan as Bicycle Route 40.

**Project Length:** 0.76 miles

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

## PDP CLASSIFICATION

Full Oversight ( )

Exempt ( X )

State Funded ( )

## FUNCTIONAL CLASSIFICATION

Rural Major Collector

## TRAFFIC

CURRENT		PROJECTED	
<u>YEAR</u>	<u>AADT</u>	<u>YEAR</u>	<u>AADT</u>
2007	6900	2027	10300

## PROJECT CONCEPT REPORT

### PROPOSED TRAFFIC CONTROL DURING CONSTRUCTION

Traffic will remain on the existing roadway location while the new bridge is being constructed. After construction of the new bridge is complete, traffic will be permanently shifted onto the new alignment and the existing structure will be removed.

### DESIGN EXCEPTIONS TO CONTROLLING CRITERIA ANTICIPATED:

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

**Design Variances:** None

**Environmental Concerns:** US Corp of Engineer's Nationwide Permit 23 with Preconstruction notification anticipated. This stream is listed on Georgia's 1998-1999 303(d) list of rivers/streams not supporting designated uses.

### LEVEL OF ENVIRONMENTAL ANALYSIS

Are Time Saving Procedures Appropriate?: Yes (X) No ( )

Categorical Exclusion Anticipated (X)	Environmental Assessment / Finding of No Significant Impact (FONSI) ( )	Environmental Impact Statement ( )
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### UTILITY INVOLVEMENTS

TELEPHONE: Pineland Telephone

POWER: Excelsior EMC

GAS: City of Statesboro Natural Gas (line is currently being constructed north of SR 46, and 45' inside the existing right of way)

Page 6

Project Number: BRST-0577(24)

P.I. Number: 542400

County: Candler

## PROJECT CONCEPT REPORT

### PROJECT RESPONSIBILITIES

**DESIGN:** Earthtech

**RIGHT OF WAY ACQUISITION:** Georgia Department of Transportation

**RELOCATION OF UTILITIES:** Candler County is responsible for reimbursable utilities

**LETTING TO CONTRACT:** Georgia Department of Transportation

**SUPERVISION OF CONSTRUCTION:** Georgia Department of Transportation

**PROVIDING MATERIAL PITS:** Contractor

**PROVIDING DETOURS:** N/A

### COORDINATION

**CONCEPT TEAM MEETING-DATE (Minutes Attached):** 09/06/01

**MEETS LOGICAL TERMINI REQUIREMENTS:** Yes

**P.A.R. MEETING:** None anticipated

**LOCATION INSPECTION DATE:** January 15, 2001

**FEMA, USCG AND/OR TVA:** None anticipated

**LEVEL OF PUBLIC INVOLVEMENT:** None anticipated

**LOCAL GOVERNMENT COMMITMENTS:** LGPA signed (Candler County 7-25-99) Utilities

**OTHER PROJECTS IN THE AREA:** None

**OTHER COORDINATION TO DATE:** None

## PROJECT CONCEPT REPORT

### SCHEDULING (Responsible Parties' Estimate)

TIME TO COMPLETE ENVIRONMENTAL PROCESS:	6	Months
TIME TO COMPLETE PRELIMINARY RD/RW PLANS:	4	Months
TIME TO COMPLETE NATIONWIDE PERMIT:	4	Months
TIME TO COMPLETE FINAL CONSTRUCTION PLANS:	3	Months
TIME TO PURCHASE RIGHT-OF-WAY:	9	Months
OTHER MAJOR ITEMS THAT WILL AFFECT PROJECT SCHEDULE:	Coordination with Statesboro Natrual Gas	

### ALTERNATIVES CONSIDERED

**Alternate 1** – Replace bridge on new alignment north of existing bridge. This alternate was chosen because it avoids impacting a home and a cemetery located east of the existing bridge and south of SR 46.

**Alternate 2** - Replace bridge on existing location, providing an onsite detour with a detour bridge. This alternate was eliminated because a detour to the north would have an estimated additional cost for building and removing the detour bridge and its associated pavement of \$303,000. A detour to the south of SR 46 would impact a home that currently sits 100' south of the existing centerline (east of the bridge), and a cemetery located 140' south of the existing centerline.

**Alternate 3** – Replace bridge on existing location and provide an offsite detour. This alternate was eliminated because of the lengthy 7.9 mile detour and because SR 46 is a designated school bus route.

**Alternate 4** – Rehabilitation of existing bridge. This alternate was eliminated because FHWA has determined that any structure with a sufficiency rating less than 50 should be replaced. The sufficiency rating for this bridge is 41.3.

**PROJECT CONCEPT REPORT**

<b>ESTIMATED COST FOR CHOSEN ALTERNATE</b>			
<b>CONSTRUCTION:</b>	<b>\$2,330,737</b>	<b>RIGHT-OF-WAY:</b>	<b>\$9,535</b>
<b>E &amp; C (10) :</b>	<b>\$233,074</b>	<b>ACQUIRED BY :</b>	<b>GDOT</b>
<b>INFLATION :</b>	<b>\$502,288</b>	<b>UTILITIES :</b>	<b>\$5,000</b>
		<b>ADJUSTED BY :</b>	<b>Locals</b>
<b>TOTAL CONSTRUCTION COST:</b>		<b>\$3,066,098</b>	

**COMMENTS:**

**ATTACHMENTS:**

- Detailed Cost Estimate
- Sketch Location Map
- Typical Sections
- Estimated traffic assignments
- Need and Purpose Statement
- Concept Team meeting minutes
- Notice of Location and Design Approval
- Bridge inventory data
- Flexible Pavement Design

**PREPARED BY: Brittain W. Hennessey**  
**Under the Supervision of Scott A. Gero, P.E.**

**PRELIMINARY COST ESTIMATE**

PROJECT NUMBER: BRST-0577(24)

COUNTY: Candler

DATE: September 6, 2001

ESTIMATED LETTING DATE: -

PREPARED BY: BWH

PROJECT LENGTH:

0.76

( ) PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT ( ) DURING PROJECT DEV.

<b>PROJECT COST</b>	
<b>A. RIGHT-OF-WAY:</b>	
1. PROPERTY (LAND & EASEMENT) 1.91 AC	\$ 9535
2. DISPLACEMENTS; RES: 0, BUS: 0, M.H.: 0	\$
3. OTHER COST (ADM./COST, INFLATION)	\$
SUBTOTAL: A	\$ 9,535
<b>B. REIMBURSABLE UTILITIES:</b>	
1. RAILROAD	\$
2. TRANSMISSION LINES	\$
3. SERVICES	\$ 5000
SUBTOTAL: B	\$ 5,000
<b>C. CONSTRUCTION:</b>	
1. MAJOR STRUCTURES	
a. BRIDGES (400'X44' @ \$68 per ft^2)	\$ 1196800
SUBTOTAL: C-1.a	\$ 1,196,800
b. OTHER	\$ -
SUBTOTAL: C-1	\$ 1,196,800
2. GRADING AND DRAINAGE	
a. EARTHWORK	
Borrow/Excavation	40255 CY @ \$7.5
SUBTOTAL: C-2a	\$ 301,913

<b>b. DRAINAGE</b>			
1) Side Drain Pipe	230	LF @ \$21	\$ 4,830
2) Storm drain pipe	150	LF @ \$44	\$ 6,600
3) Longitudinal System (incl. catch basins)		LF @ \$0	\$ -
4) Safety End Sections	6	EA @ \$280	\$ 1,680
5) Perforated Underdrain	300	LF @ \$6	\$ 1,800
6) Temporary Pipe Slope Drain	150	LF @ \$24	\$ 3,600
SUBTOTAL: C-2.b			\$ 18,510
SUBTOTAL: C-2			\$ 320,423
<b>3. BASE AND PAVING:</b>			
a. AGGREGATE BASE	16450	SY @ \$10	\$ 164,500
<b>b. ASPHALT PAVING (Mainline &amp; Cross-Roads):</b>			
19 mm Superpave	1420	Tons @ \$43	\$ 61,060
25 mm Superpave	3770	Tons @ \$37	\$ 139,490
9.5 mm Superpave	1387	Tons @ \$42	\$ 58,254
SUBTOTAL: C-3.b			\$ 423,304
c. CLASS "B" CONCRETE	10	CY @ \$146	\$ 1,460
d. OTHER (Leveling, Tack Coat, Milling)			\$ 1800
e. AGGREGATE SURFACE COURSE	60	Tons @ \$19	\$ 1,140
SUBTOTAL: C-3			\$ 592,204

<b>4. EROSION CONTROL</b>				
<b>a. SILT FENCE</b>				
1. TYPE A	6500	LF @ \$3.5	\$	22,750
2. TYPE B	1000	LF @ \$2.6	\$	2,600
3. TYPE C	500	LF @ \$5.3	\$	2,650
			\$	28,000
b. RIP RAP	1500	SF @ \$30	\$	45,000
c. PLASTIC FILTER FABRIC	1500	SF @ \$5.8	\$	8,700
d. PERMANENT SOIL REINFORCING MAT	1000	SY @ \$5	\$	5,000
SUBTOTAL: C-4			\$	86,700
<b>5. LUMP ITEMS</b>				
a. GRASSING			\$	9500
b. CLEARING AND GRUBBING			\$	10000
c. EROSION CONTROL			\$	5000
d. TRAFFIC CONTROL			\$	6000
SUBTOTAL: C-5			\$	30,500
<b>6. MISCELLANEOUS:</b>				
a. LIGHTING			\$	
b. SIGNING - MARKING			\$	3500
<b>c. GUARDRAIL</b>				
W Beam	1300	LF @ \$12	\$	15,600
T Beam	84	LF @ \$40	\$	3,360
Anchors	TYPE 12	2 @ \$1600	\$	3,200
	TYPE 1	2 @ \$450	\$	900
SUBTOTAL: C-6.c			\$	23,060
d. SIDEWALK			\$	
e. MEDIAN / SIDE BARRIER			\$	
f. APPROACH SLABS	195	SY @ \$90	\$	17,550
<b>g. REMOVAL</b>				
Bridges			\$	60000
SUBTOTAL: C-6.g			\$	60,000
h. OTHER			\$	
SUBTOTAL: C-6			\$	104,110
<b>7. SPECIAL FEATURES</b>				
SUBTOTAL: C-7			\$	

<b>SUMMARY</b>	
<b>A. RIGHT-OF-WAY</b>	\$ 9,535
<b>B. REIMBURSABLE UTILITIES</b>	\$ 5,000
<b>C. CONSTRUCTION</b>	
1. MAJOR STRUCTURES	\$ 1,196,800
2. GRADING AND DRAINAGE	\$ 320,423
3. BASE AND PAVING	\$ 592,204
4. EROSION CONTROL	\$ 86,700
5. LUMP ITEMS	\$ 30,500
6. MISCELLANEOUS	\$ 104,110
7. SPECIAL FEATURES	\$ -
<b>SUBTOTAL CONSTRUCTION COST</b>	<b>\$ 2,330,737</b>
<b>E. &amp; C. (10%)</b>	<b>\$ 233,074</b>
<b>INFLATION (5% PER YEAR)</b>	<b>\$ 502,288</b>
NUMBER OF YEARS	4
<b>TOTAL CONSTRUCTION COST</b>	<b>\$ 3,066,098</b>
<b>GRAND TOTAL PROJECT COST</b>	<b>\$ 3,066,098</b>

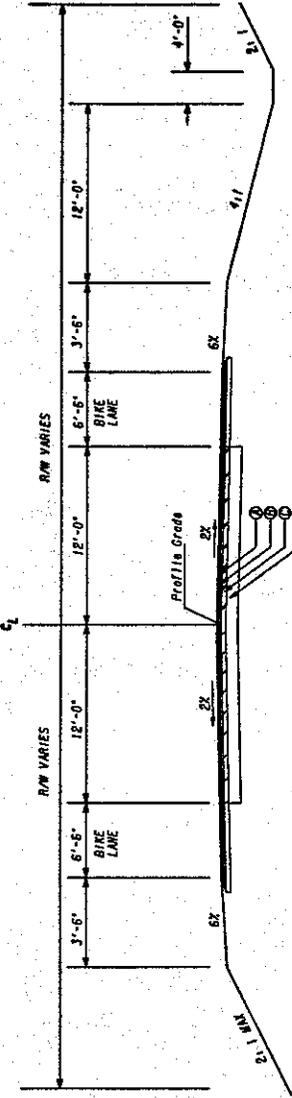
**NEED AND PURPOSE**  
**Project BRST-0577(24)**  
**Candler County**  
**P.I. No. 542400**  
**Bridge Replacement**

Bridge project BRST-0577(24) proposes to replace the structurally deficient bridge that is located on State Route 46 at Fifteen Mile Creek. The existing bridge's sufficiency rating is 41.3. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. Therefore, this project will replace the existing bridge with a structurally adequate bridge.

This section of SR 46 is functionally classified as a rural major collector and is a designated school bus route. The posted speed limit 55 MPH. The bridge is located 2.1 miles east of the Metter city limits and was constructed in 1947. The project is on Bicycle Route 40 (the TransGeorgia corridor) as identified in GDOT's Statewide Bicycle & Pedestrian Plan.

Existing 1999 traffic volumes along this section of roadway are approximately 6,100 vehicles per day (VPD). Future volumes for this section of SR 46 are expected to be approximately 6,900 VPD resulting in a Level of Service "B". By the year 2027, traffic volumes are expected to be 10,300 VPD and the Level of Service will be "C". Seven percent of the traffic volume on this section of SR 46 is truck traffic.

Replacing this bridge will bring it up to current design standards and will improve the operation and safety of this section of SR 46.



NOT TO SCALE

TYPICAL SECTION NO. 1

**ALLOWABLE RANGES TABLE**  
FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

SECTION WITH GRADES/SECTION WITH GRADES LESS THAN 0.5%	
0.5% OR GREATER	1.5% - MINIMUM
	2.00% - DESIRABLE
	2.50% - MAXIMUM

**A. NORMAL CROWN**

**B. SUPERELEVATION RATE**  
SE-RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

**C. SUPERELEVATION TRANSITION LENGTH: LENGTH FROM FLAT POINT TO FULL SE**

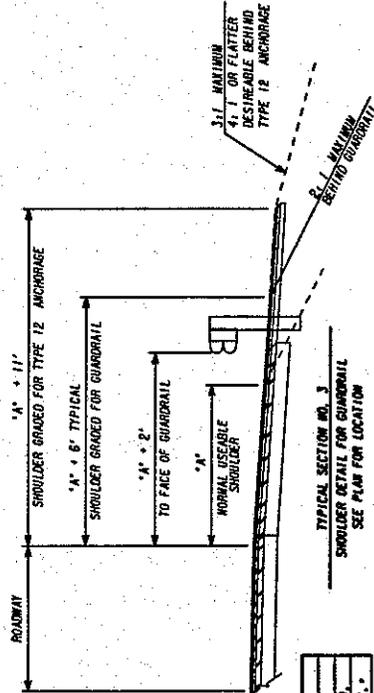
RATE OF CHANGE	MINIMUM	1:50	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
	DESIRABLE	1:200	0.67%
	MAXIMUM	1:300	0.50%

**D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES**

50% OF TRANSITION INSIDE CURVE - MAXIMUM
33% OF TRANSITION INSIDE CURVE - DESIRABLE
20% OF TRANSITION INSIDE CURVE - MINIMUM

NOTE: CROWN Wipe-Out SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

**E. SHOULDER BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE USED BY VERTICAL CURVE WITH A MINIMUM LENGTH IN METERS EQUAL TO THE SPEED DESIGN IN MPH DIVIDED BY 5.**



TYPICAL SECTION NO. 3  
SHOULDER DETAIL FOR GUARDRAIL  
SEE PLAN FOR LOCATION

SLOPE CONTROLS	
CUT	FILL
0-10 FT.	0-10 FT.
OVER 10 FT.	OVER 10 FT.

\* REQUIRES GUARDRAIL  
\*\* SEE CONSTRUCTION PLANS AND CROSS SECTIONS.

- REQUIRED PAVEMENT
- ① 165 LB/SSY RECYCLED ASPH CONC 9.5 MM SUPERPAVE. SP 2 OR 1, INCL BITUM
  - ② 200 LB/SSY RECYCLED ASPH CONC 19MM SUPERPAVE. SP1 OR 2, INCL BITUM
  - ③ 440 LB/SSY RECYCLED ASPH CONC 25 MM SUPERPAVE. SP1 OR 2, INCL BITUM
  - ④ 8" GRADED AGGREGATE BASE

NOTE: SUPERPAVE DESIGN LEVEL ON THIS PROJECT SHALL BE DESIGN LEVEL "B"

**GEORGIA DEPARTMENT OF TRANSPORTATION**  
TYPICAL SECTIONS  
PROJECT: FIFTEEN MILE CREEK  
COUNTY: FLOYD  
DATE: 3-0

DATE	REVISIONS

**EARTH TREN**  
2110 NEWBURNET PARKWAY, S.E., SUITE 805  
MARIETTA, GEORGIA 30067  
(770) 565-5340

**To:** Ted Cashin  
**Subject:** P.I. No. 542400 Candler Co.

## Department of Transportation State of Georgia

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### INTERDEPARTMENT CORRESPONDENCE

**FILE** BRST-0577(24) Candler Co. **OFFICE** Environment/ Location  
P.I. No. 542400 **DATE** October 18, 2000

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

**TO** Jim Chambers, Office of Consultant Services  
**ATTN:** Ted Cashin

**SUBJECT** SR 46 @ Fifteen Mile Creek

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

2007 ADT = 6900  
2027 ADT = 10300  
K = 10%  
D = 60%  
T = 5%  
24 HR T = 7%  
SU = 3.5%  
COMB = 3.5%

If you have any questions concerning this information please contact  
Gary Langford at (404)699-4404.

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 043-0010-0

Candler County

SUFF. RATING: 41.3

Location & Geography

\* Structure I.D. No.: 043-0010-0  
 \* 200 Bridge Information: 06  
 \* 6A Feature Int.: FIFTEEN MILE CREEK  
 \* 6B Critical Bridge: 0  
 \* 7A Route Number Carried: SR00046  
 \* 7B Facility Carried: SR 46  
 \* 9 Location: 2.8 MILE OF METTER  
 \* 2 DOT District: 5  
 \* 207 Year Photo: 1999  
 \* 91 Inspection Frequency: 24 Date: 02/03/1999  
 \* 92A Fract Crit Insp Freq: 0 00 Date: 0000  
 \* 92B Underwater Insp Freq: 0 00 Date: 0000  
 \* 92C Other Spc. Insp Freq: 0 00 Date: 0000

\* 4 Place Code: 00000

\* 5 Inventory Route (O/U): 1  
 Type: 3  
 Designator: 1  
 Number: 00046  
 Direction: 0

\* 16 Latitude: 32-23.6  
 \* 17 Longitude: 82 -00.8

\* 98 Border Bridge: 000 %Shared: 00  
 \* 99 ID Number: 0000000000000000

\* 100 Defense Highway: 0  
 \* 101 Parallel Structure: N  
 \* 102 Direction of Traffic: 2  
 \* 264 Road Inventory Mile Post: 012.70

\* 208 Inspection Area: 10 Initials: JWM

\* Location I.D. No: 043-00046D-012.72E  
 \* XReferen I.D. No: 000-000000-000.000

Signs & Attachments

\* 104 Highway System: 0  
 \* 26 Functional Classification: 07  
 \* 204 Federal Route Type: S No: 00577  
 \* 110 Truck Route: 0  
 \* 206 School Bus Route: 1  
 \* 217 Benchmark Elevation: 0.00  
 \* 218 Datum: 0  
 \* 19 Bypass Length: 5  
 \* 20 Toll: 3  
 \* 21 Maintenance: 01  
 \* 22 Owner: 01  
 \* 31 Design Load: 2  
 \* 37 Historical Significance: 5  
 \* 205 Congressional District: 01  
 \* 27 Year Constructed: 1947  
 \* 106 Year Reconstructed: 0000  
 \* 33 Bridge Median: 0  
 \* 34 Skew: 00  
 \* 35 Structure Flared: 0  
 \* 38 Navigation Control: 0  
 \* 213 Special Steel Design: 0  
 \* 267 Type of Paint: 2

\* 230 Guardrail Loc Dir Rear: 3  
 Fwrd: 3  
 Oppo Dir Rear: 0  
 Fwrd: 0

244 Approach Slab: 3  
 224 Retaining Wall: 0

233 Posted Speed Limit: 55  
 236 Warning Sign: 0  
 234 Delineator: 1  
 235 Hazard Boards: 1

237 Utilities Gas: 00  
 Water: 00  
 Electric: 00  
 Telephone: 00  
 Sewer: 00

247 Lighting Street: 0  
 Navigation: 0  
 Aerial: 0

\* 248 County Continuity No: 00

# BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 043-0010-0

Candler County

SUFF. RATING: 41.3

### Programming Data

201 Project No: S-30 (1)  
 202 Plans Available: 0  
 249 Prop. Proj No: BRST-0577 (24)  
 250 Approval Status: 0000  
 251 P.I. No: 542400  
 252 Contract Date: 02/01/2005  
 260 Seismic No: 00000  
 75 Type Work: 341  
 94 Bridge Imp. Cost: \$ 390  
 95 Roadway Imp. Cost: \$ 66  
 96 Total Imp. Cost: \$ 636  
 76 Imp. Length: 000616  
 97 Imp. Year: 1990  
 114 Future ADT: 007500 Year: 2018

### Measurements

\* 29 ADT: 005000 Year: 1998  
 109 % Trucks: 10  
 \* 28 Lanes On: 02 Under: 00  
 210 No. Tracks On: 00 Under: 00  
 \* 48 Max. Span Length: 0027  
 \* 49 Structure Length: 405  
 51 Br. Rdwy. Width: 26.0  
 52 Deck Width: 32.2  
 \* 47 Tot. Horz. Cl: 26.0  
 50 Curb/Sidevik Width: 2.0/2.0  
 32 Approach Rdwy Width: 024  
 \* 229 Shldr Width:  
 Rear Lt: 6.0 Type: 8 Rt: 6.0  
 Fwd Lt: 6.0 Type: 8 Rt: 6.0  
 Pmnt Width:  
 Rear: 24.0 Type: 2  
 Fwd: 24.0 Type: 2  
 Intersection Rear: 0 Fwd: 1  
 36 Safety Features Br. Rail: 2  
 Transition: 2  
 App. G. Rail: 2  
 App. Rail End: 2  
 53 Minimum Cl. Over: 99'99"  
 Under: N 00'00"  
 \* 228 Min. Vert. Cl  
 Act. Odm. Dir: 99'99"  
 Opp. Dir: 99'99"  
 Posted Odm. Dir: 00'00"  
 Opp. Dir: 00'00"  
 55 Lateral Undercl. Rt: N 99.9  
 56 Lateral Undercl. Lt: 0.0  
 \* 10 Max Min Vert Cl: 99'99" Dir: 0  
 39 Nav Vert Cl: 000 Horz: 0000  
 116 Nav Vert Cl Closed: 000  
 245 Deck Thickness Main: 8.0  
 Deck Thick Approach: 0.0  
 246 Overlay Thickness: 0.0  
 211 Tons Structural Steel: 54.0  
 212 Year Last Painted: Sup: 1994 Sub: 1994

### Ratings

66 Inventory Type: 2 Rating: 13  
 64 Operating Type: 2 Rating: 29  
 231 Calculated Loads  
 H-Modified: 15 I  
 HS-Modified: 25 0  
 Type 3: 27 I  
 Type 3s2: 40 0  
 Timber: 31 I  
 Piggyback: 00 0  
 261 H Inventory Rating: 10  
 262 H Operating Rating: 15  
 67 Structural Evaluation: 2  
 58 Deck Condition: 7  
 59 Superstructure Condition: 7  
 \* 227 Collision Damage: 0  
 60A Substructure Condition: 8  
 60B Scour Condition: 8  
 60C Underwater Condition: N  
 71 Waterway Adequacy: 8  
 61 Channel Protection Cond: 7  
 68 Deck Geometry: 3  
 69 UnderClr. Horz/Vert: N  
 72 Appr. Alignment: 7  
 62 Culvert: N

### Hydraulic Data

215 Waterway Data  
 Highwater Elev: 0000.0 Year: 0000  
 Flood Elev: 0000.0 Freq: 00  
 Avg. Streambed Elev: 0000.0  
 Drainage Area: 00000  
 Area of Opening: 000000  
 113 Scour Critical: 6  
 216 Water Depth: 00.5 Br Height: 19.0  
 222 Slope Protection: 6  
 221 Spur Dikes Rear: 0 Fwd: 0  
 219 Fender System: 0  
 220 Dolphin: 0  
 223 Culvert Cover:  
 Type: 0  
 No Barrels: 0  
 Width: 0.0  
 Height: 0.0  
 Length: 0  
 Apron: 0  
 \* 265 U/W Insp. Area: 0 Diver: ZZZ  
 \* Location I.D. No: 043-00046D-012.72E  
 \* XReferen I.D. No: 000-000000-000.000

### Posting Data

70 Bridge Posting Required: 3  
 41 Struct Open, Posted, Cl: P  
 \* 103 Temporary Structure: T  
 232 Posted Loads H-Modified: 15  
 HS-Modified: 00  
 Type 3: 27  
 Type 3S2: 00  
 Timber: 31  
 Piggyback: 00  
 253 Notification Date: 0000  
 253 Fed Notify Date: 0000 0

# FLEXIBLE PAVEMENT DESIGN ANALYSIS

**Project:** BRST-0577(24)

**County:** CANDLER

**P.I. no.:** 542400

**Description:** SR 46 OVER 15 MILE CREEK

**Traffic Data** (NOTE: AADTs are one-way)

24-hour Truck Percentage: 10.00%

AADT initial year of design period: 4,140 vpd (2007)

AADT final year of design period: 6,180 vpd (2027)

Mean AADT (one-way): 5,160 vpd

**Design Loading**

Mean AADT	LDF	Trucks	18-K ESAL	Total Daily Loads
5,160 *	1.00 *	0.100 *	1.06 =	548

Total predicted design period loading = 548 \* 20 \* 365 = 4,000,400

**Design Data**

Terminal Serviceability Index: 2.50

Soil Support: 4.00

Regional Factor: 1.40

### PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness mm	(in.)	Structural Coefficient	Structural Value
9.5 mm Superpave	38	(1.50)	0.0173	0.66
19 mm Superpave	38	(1.50)	0.0173	0.66
25 mm Superpave	38	(1.49)	0.0173	0.65
	64	(2.51)	0.0118	0.75
Graded Aggregate Base	203	(8.00)	0.0063	1.28

Required SN = 4.52

Proposed SN = 4.00

>>> Proposed pavement is 11.4% Underdesign <<<

**Remarks:**

Prepared by BRITTAIN W. HENNESSEY August 6, 2001  
Date

Recommended State Consultant Design Engineer Date

Approved Chief Engineer Date

Earth Tech  
 2110 Newmarket Parkway, Suite 205  
 Marietta, Georgia 30067  
 (770) 956-5340 Fax (770) 956-5345

## MEETING MINUTES

**DATE:** September 6, 2001

**PROJECT:** BRST-0577(24)  
 P.I. No. 542400  
 SR 46 Over 15 Mile Creek

**SUBJECT:** Concept Team Meeting Minutes

**ATTENDEES:**

Barbara Bennett	Candler County	(912) 685-2822
Donnie Boyd	District Survey Resident Engineer	(912) 370-2588
Howell Clements	Assist. District Utilities Engineer	(912) 427-5779
Tony Collins	District Pre Construction Engineer	(912) 427-5715
Jinks Durden	Pineland Telephone	(912) 685-2121
Larry Durden	Excelsior EMC	(912) 685-2115
John Gould	GDOT Right of Way	(912) 427-1975
Michael Hall	District Traffic Ops	(912) 427-5864
C.R. Jackson	Area Engineer	(912) 871-1108
Jack Moody	District Bridge Maintenance	(912) 427-5857
Gary Sands	District Location Engineer	(912) 370-2713
Jerome Sheffield	District Construction	(912) 427-5733
Stephen Thomas	GDOT Utilities	(912) 427-5754
Britt Hennessey	Earthtech	(770) 956-5340
Scott Gero	Earthtech	(770) 956-5340

Notes prepared by: Britt Hennessey, Earthtech

A Concept Team Meeting was held on the above project on September 6, 2001 at the District 5 office in Jesup, Georgia. Britt Hennessey called the meeting to order at 11:00 AM. She then presented the project. The following comments/discussions were noted:

Ms. Hennessey presented the conceptual layout and showed that the existing, structurally deficient bridge will be replaced. Traffic will remain on existing location while the new bridge is being constructed to the north of the existing alignment. Once construction of the new bridge is complete, traffic will be permanently shifted on the new alignment and the existing structure will be removed along with the end slopes.

Those in attendance agreed that the proposed realignment was the best alternative. All agreed that any alternates with construction to the south would have unacceptable impacts to the cemetery and home on the south side of SR 46 and that an offsite detour was not desirable due to the school bus route that currently exists on SR 46.

Howell Clements raised concern about the 4" gas line that is being put in place on the north side of SR 46 by the City of Statesboro Natural Gas. It was suggested that the gas company and utility companies could relocate to the south side of the existing roadway. Howell Clements will contact Statesboro Natural Gas and let them know of this suggestion. Statesboro Natural gas had received a permit for locating their utilities on the north side of SR 46. It was agreed that the existing utilities on the north side would have to be relocated.

Earth Tech  
2110 Newmarket Parkway, Suite 205  
Marietta, Georgia 30067  
(770) 956-5340 Fax (770) 956-5345

## MEETING MINUTES

Jinks Durden noted that fiber optic cable is buried on the south side of SR 46.

Tony Collins requested that the bike lines for this segment of SR 46 not be signed.

Earthtech will evaluate the need for a left turn lane at the intersection of SR 46 and CR 30.

Jerome Sheffield and Tony Collins stated that there aren't any salvageable materials on this project.

Mr. Sheffield requested that a note be placed on the plans to show clearing and grubbing to be 10' outside the shown cut and fill limits. This is to clear up any confusion the contractor may have about placing erosion control measures outside the proposed cut/fill limits.

Earthtech will make the following changes:

For other major items that will affect the project schedule, "none" will be changed to "coordination with Statesboro Natural Gas".

For guardrail and guardrail anchors, the typical section will show paving to the shoulder break.

Since the proposed letting date is fiscal year 2005, the cost estimate will show 4 years for inflation. This changes the estimated cost for the project.

**GEORGIA DEPARTMENT OF TRANSPORTATION**  
**SR 46 Over Fifteen Mile Creek 2.8 mile East of Metter**  
**Concept Meeting**  
**P.I. No. 542400**  
**September 6, 2001**

Name	Organization	Telephone
Scott Gero	Earth Tech	770-956-5349
Britt Hennessey	Earth Tech	770-956-2984
JINKS DURDEN	PINELAND TELEPHONE	912-685-2121
LARRY A. DURDEN	EXCELSIOR CMC	912-685-2115
Jack Moads	D.O.T.	912-427-5857
John M. Gould	D.O.T.	912-427-1975
JEROME R. SHEFFIELD	D.O.T. Dist. CONSTRUCTION	(912) 427-5733
C. R. JACKSON	D.O.T. ; AREA ENGINEER	(912) 871-1108
Michael Hall	D.O.T Dist. Traffic Ops	(912) 427-5864
Tony Collins	GDOT - JESUP	912-427-5715
Tahnie Boyd	GDOT - JESUP	912-370-2588
HOWELL CLEMENTS	GDOT. JESUP	912-427-5779
Stephen Thomas	GDOT - UTILITIES	912 427-5754
BARY SANDS	GDOT LOCATION	912-370-2713
BARBARA A. BENNETT	CANDLER Co. PW/LF	912-685-2822

**PI NUMBER** **READY**  
**PROJECT** **COUNTY** **DESCRIPTION** **TO LET**

542400- CANDLER SR 46 @ FIFTEEN MILE CREEK 2.8 MI E OF METTER 0407  
 BRST-0577(24) US: APPROVED DATES PE DATE: 9910 RW DATE: 2004 CST DATE: 2005  
 PROJ MGR T. CASHIN PROPOSED DATES TII PE DATE: 9910 TII RW DATE: 2004 TII CST DATE: 2005  
 PROG TYPE: REPLACEMENT APPROVED COSTS PES: \$5,000 RW COST: \$10,000 CST EST \$1,901,000  
 CONCEPT: PROPOSED COSTS TII PES: \$5,000 TII RWS: \$10,000 TII CSTS \$1,901,000  
 P.E. PROJECT: BRST-0577(24) NN: 63.9 REF PROJ: TWIN PROJ: EST DATE: 4/15/99  
 LENGTH: 0.28 C DIST 1 FIELD DIST: 5 STATUS: PRECST TIP #: UAC: 0 FUND I: Q10

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		DEFINE CONCEPT RPT:			00	
		CONCEPT MEETING:				
		SUB RTP TO ENG SERVICES:				
		REC ENG SERV APPROVAL:				
		MGT APPROV CPT REPORT:			00	
		ENVIRONMENTAL:	1/1/02	7/31/02	00	
		PUBLIC HEARING:				
		PHOTO MAPPING:			01	
		FIELD SURVEY:			00	
		FINAL ALT APPRV:				
		PRELIM FPR HELD:				
		PREL RDWY RW PLANS:			00	
		SECURE 404 PROCESS:			00	
		LOC DZN APPRV:			00	
		FINAL CST PLANS:			00	
		APPRV RW PLANS:			00	
		STAKE RW:			00	
		FINAL FPR HELD:				
		LAB RECV SOIL REQUEST:			00	
		PREL HYDR PLANS:			00	
		LAB BFI REQUEST:			00	
		BRIDGE PLANS:			00	
		U.S.T.s:			00	

BIKE PROVISIONS INCLUDED?: MEASUREMENT SYSTEM: CONSULTANT: C UT EST: \$0.00  
 PDD: 4/99 BOARD ADDITION: ASSIGNED TO CONSULTANT TASK FORCE 4/30/99  
 PLANNING:  
 DZN CMT:  
 UTIL CMT:  
 LGFA: CANDLER SGN DO UTILITIES 7-25-99.  
 LOC CMT: BRIDGE  
 EIS: STICH - CONSULT TASK FORCE  
 404: CONSULTANT TASK FORCE-NW 23 EXPECTED  
 TS: NO SIGN & MKG PLANS REQ'D KRA 4/29/99 #  
 ROW:  
 RR  
 PITS:  
 UST CMT:  
 BR CNT: 3-25 BRIDGE REQUIRED

R/W INFORMATION:

R/W STATUS: PRECST NUMBER OF PARCELS TO BE ACQUIRED: 4 ACQUIRED BY: DOT ACQ MGR  
 UNDER-REVIEW: 0 RELEASED 0 OPT-PEND: 0 DEEDS 0 COND-PEND 0 COND-FILED 0  
 RWCERT:

## NOTICE OF LOCATION AND DESIGN APPROVAL

**Project No. BRST-0577(24)**  
**P.I. No. 542400**

Notice is hereby given in compliance with Georgia code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The date of location approval is OCTOBER 10, 2001

This project is located in Candler County on SR 46 over Fifteen Mile Creek. The project is located within G.M.D. 1739, and 1685.

This project consists of the replacement of the structurally deficient bridge on SR 46 over Fifteen Mile Creek. The proposed bridge structure and alignment will be constructed adjacent to the existing alignment.

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

Mr. C.R. Jackson – Area 6 Engineer  
Claude.Jackson@dot.state.ga.us  
17213 US HWY. 301 North  
Statesboro, Georgia 30461  
(912) 871-1103

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:

Ted Cashin  
Office of Consultant Design  
Ted.Cashin@dot.state.ga.us  
No. 2 Capitol Square  
Atlanta, Georgia 30334  
404-463-6265

Any written request or communication in reference to this project or notice must include Project and P.I. Numbers as noted at the top of this notice.

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

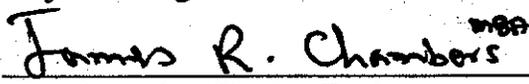
Project Number: BRST-0577(24)  
County: Candler  
P.I. Number: 542400  
Federal Route Number: N/A  
State Route Number: 46

Recommendation for approval:

DATE 9-13-01

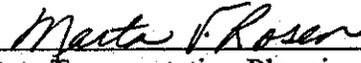
  
Project Manager

DATE 9-13-01

  
State Consultant Design Engineer

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

9-17-01  
DATE

  
State Transportation Planning Administrator

DATE

State Transportation Programming Engineer

DATE

State Environmental / Location Engineer

DATE

State Traffic Safety and Design Engineer

DATE

District Engineer

DATE

Project Review Engineer

DATE

State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

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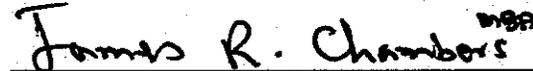
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DATE 9-13-01

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Project Manager



State Consultant Design Engineer

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State Transportation Planning Administrator

DATE \_\_\_\_\_

State Transportation Programming Engineer

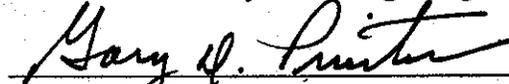
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State Environmental / Location Engineer

DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE 9/17/01



DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

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State Bridge & Structural Engineer

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STATE OF GEORGIA  
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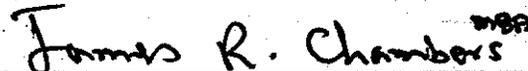
Project Number: BRST-0577(24)  
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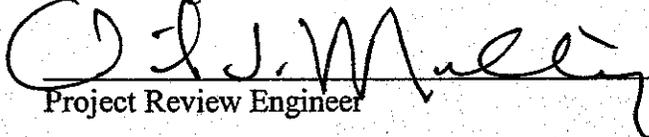
DATE \_\_\_\_\_

State Traffic Safety and Design Engineer

DATE \_\_\_\_\_

District Engineer

DATE 9/25/01

  
Project Review Engineer

DATE \_\_\_\_\_

State Bridge & Structural Engineer

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STATE OF GEORGIA  
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

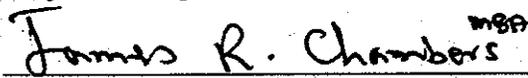
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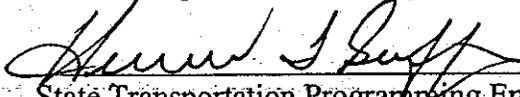
DATE \_\_\_\_\_

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State Transportation Planning Administrator

  
State Transportation Programming Engineer

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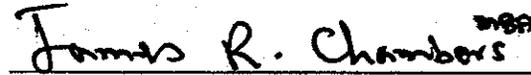
Recommendation for approval:

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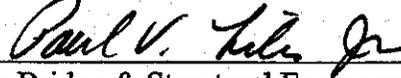
DATE \_\_\_\_\_

District Engineer

DATE \_\_\_\_\_

Project Review Engineer

DATE 9/28/01

  
State Bridge & Structural Engineer