

ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0885(3) Banks County **OFFICE** Preconstruction
P. I. No. 142265 **DATE** January 17, 2001
CWHutto
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 Keeper
Jerry Hobbs
Herman Griffin
Michael Henry
Marion Waters
Marta Rosen
Paul Liles
Jimmy Chambers (ATTN: Ted Cashin)
Larry Dent
Jim Kennerly

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0885(3) Banks County **OFFICE** Preconstruction
P.I. No. 142265 **DATE** December 5, 2000

Thomas L. Turner
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 a structurally deficient bridge on SR 51 over Grove Creek, 7.0 miles west of Homer, Georgia. The existing bridge, constructed in 1949, is load limited with a sufficiency rating of 45. State Route 51 at this location is a rural two lane roadway (23' wide) with rural shoulders. Traffic is projected to be 2,700 VPD and 4,900 VPD in the years 2004 and 2024 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to construct a new 81' x 44' concrete bridge over Grove Creek at the existing bridge site. The approaches will consist of two, 12' lanes with 10' rural shoulders (4' paved). Traffic will be detoured via an on-site drainage structure and temporary detour road constructed parallel and north of the existing bridge.

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)	\$1,285,000	\$348,000	2003	02-07
Right-of-Way	\$ 38,000	\$ 10,000		
Utilities*	LGPA	LGPA		

*Banks County signed LGPA for utilities 7-16-99.

J. Tom Coleman, Jr.

Page 2

BRST-0885(3) Banks

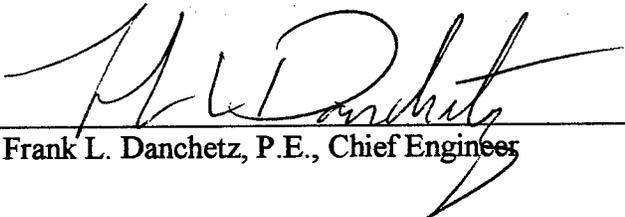
December 5, 2000

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

TLT:JDQ/cj

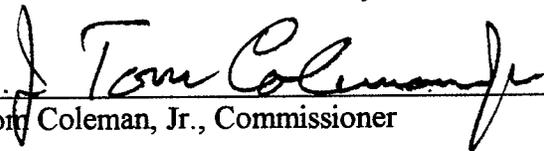
Attachment

CONCUR



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

APPROVE



J. Tom Coleman, Jr., Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRST-0885(3) Banks
P.I. Number 142265-

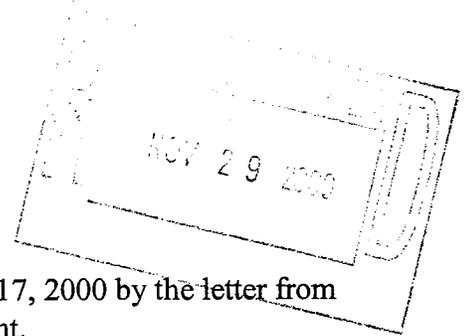
OFFICE: Atlanta, Georgia

DATE: November 28, 2000

FROM: David Mulling, Project Review Engineer *DTM*

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: CONCEPT REPORT



We have reviewed the concept report submitted November 17, 2000 by the letter from Ted Cashin dated November 16, 2000, and have no comment.

The costs for the project are:

Construction	\$1,062,000
Inflation	\$ 106,000
E&C	\$ 117,000
Reimbursable Utilities	\$ 0
Right of Way	\$ 38,000

DTM

c: Ted Cashin – Consultant Design Office

- 1 -
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE:

PROJECT CONCEPT REPORT SIGN OFF FORM

Project Number: BRST-0885(3)

County: Banks

P. I. Number: 142265

DESCRIPTION: SR 51 over Grove Creek 7 Miles W. of Homer

Federal Route Number: N/A

State Route Number: 51

County Road Number: N/A

Date of Report: November 13, 2000

Revised: _____

RECOMMENDATION FOR APPROVAL

Note: This project is contained in the Regional Transportation Plan (RTP) and/or in the Statewide Transportation Improvement Program (STIP). The Concept as presented herein and submitted for approval is consistent with that which is included in the RTP and/or the STIP.

Date

State Transportation Planning Administrator

Date

State Transportation Programming Engineer

Date

State Environmental/Location Engineer

Date

District 1 Engineer / Gainesville

Date

Project Review Engineer

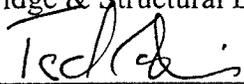
Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer

Date



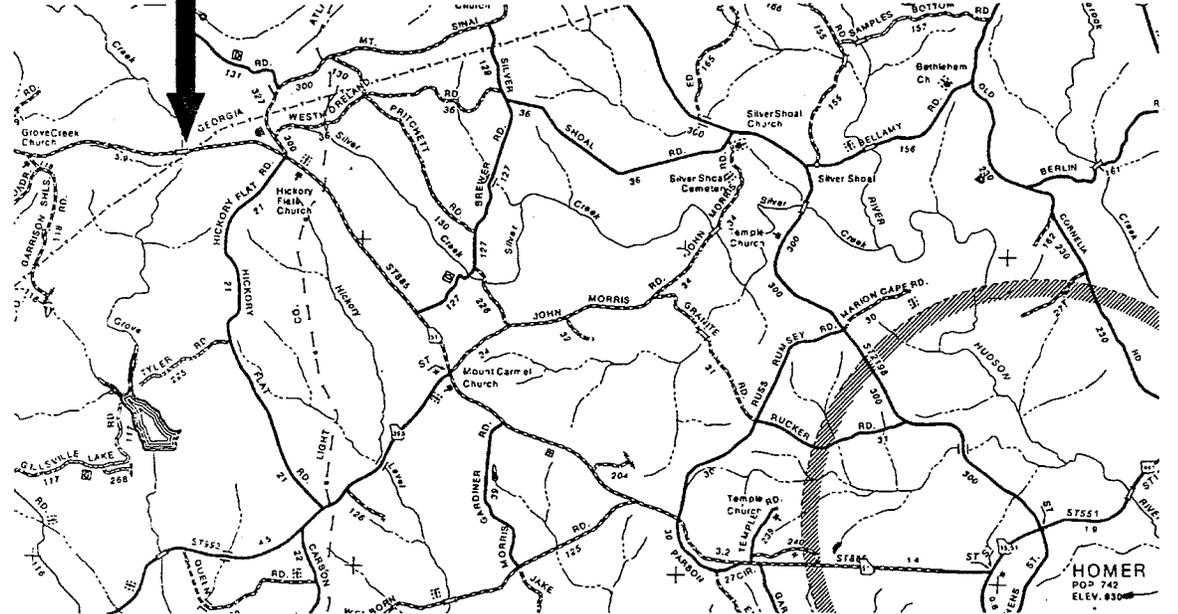
Project Manager- Ted Cashin

PROJECT LOCATION MAP

DATE: November 13, 2000



PROJECT



Location Map

Project: BRST-0885(3) Banks County PI No.: 142265

Description: SR 51 over Grove Creek

PROJECT CONCEPT REPORT

DATE: November 13, 2000

PROJECT NUMBER: BRST-0885(3)

COUNTY: Banks

DESCRIPTION: Bridge Replacement

LENGTH: The total length of this project is approximately 2925 Ft. (0.55 Miles)

P.I. NO.: 142265

U.S. ROUTE NO.: N/A

STATE RT. NO.: 51

LOCATION: SR 51 at Grove Creek , 7 Miles W. of Homer

MILE POINT REFERENCE:

BEGIN N/A END N/A

TRAFFIC

CURRENT

PROJECTED

YEAR: 2004 AADT: 2700

YEAR: 2024 AADT: 4900

24 Hr. T=7%

PDP CLASSIFICATION

FUNCTION CLASSIFICATION

Minor

Rural Minor Arterial

FULL-OVERSIGHT () CA () EXEMPT(X)

EXISTING DESIGN

TYPICAL SECTION: 2 lane rural 23 foot roadway, existing R/W width varies

POSTED SPEED 55 MI/HR

MAX. DEGREE OF CURVE 2 deg.

MAX. EXISTING GRADE 0.0 %

EXISTING MAJOR STRUCTURES: 3 spans approximately 27 feet long

FEATURE INTERSECTED: Grove Creek

S. RTG: 45.1

LENGTH: 81 feet

WIDTH: 22.9 feet

PROJECT NEED & PURPOSE: The purpose of project BRST-0885(3) is to replace a structurally deficient bridge on SR 51 over Grove Creek. The existing bridge's sufficiency rating is currently 45.1. See attached Need & Purpose Statement.

PROPOSED DESIGN

PROPOSED TYPICAL SECTION: Two 12'-0" travel lanes with 10' shoulders (4' Paved). Typical section attached.

PROPOSED RIGHT-OF-WAY WIDTH: 55' additional Right of Way or Easement is anticipated
 DESIGN SPEED: 55 MPH

MAX. DEGREE OF CURVE: ALLOWABLE: 6 deg. PROPOSED: 0 deg.

MAX. GRADE: ALLOWABLE: 6.5 % PROPOSED: 0.0%

TYPE ACCESS: Permit

TRAFFIC CONTROL DURING CONSTRUCTION: The traffic will be maintained during the replacement of existing bridge by the construction of a temporary detour and detour structure over Grove Creek located to the north of the existing bridge.

PROPOSED STRUCTURES: The proposed bridge will be 44'-0" wide, consisting of two 12'-0" travel lanes, and 10'-0" shoulders. The bridge is proposed to be 81' long.

DESIGN EXCEPTIONS REQUIRED

CONTROLLING CRITERIA	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	()	()	(x)
ROADWAY WIDTH:	()	()	(x)
SHOULDER WIDTH:	()	()	(x)
VERTICAL GRADES:	()	()	(x)
CROSS SLOPES:	()	()	(x)
STOPPING SIGHT DISTANCE:	()	()	(x)
SUPERELEVATION RATES:	()	()	(x)
HORIZONTAL CLEARANCE:	()	()	(x)
SPEED DESIGN:	()	()	(x)
VERTICAL CLEARANCE:	()	()	(x)
BRIDGE WIDTH:	()	()	(x)
BRIDGE STRUCTURAL CAPACITY:	()	()	(x)

NUMBER OF PARCELS: 5

DISPLACEMENTS: None

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE: OCT 11,2000

CONFORMS TO TIP/STIP? YES

MEETS LOGICAL TERMINI REQUIREMENTS? YES

P.A.R. MEETING: NONE ANTICIPATED

LEVEL OF ENVIRONMENTAL ANALYSIS: C. E.

PUBLIC INVOLVEMENT: NONE ANTICIPATED

PERMITS REQUIRED (COE 404, WATER QUALITY, TVA): NW 404

TIME SAVINGS PROCEDURES APPROPRIATE: YES

SCHEDULING CONSIDERATIONS:

TIME TO COMPLETE ENVIRONMENTAL: 6 (MONTHS)

TIME TO COMPLETE PRELIMINARY RD/RW PLANS: 3 (MONTHS)

TIME TO COMPLETE 404 PERMIT: 6 (MONTHS)

TIME TO COMPLETE FINAL CONSTRUCTION PLANS: 3 (MONTHS)

TIME TO BUY RIGHT OF WAY: 6 (MONTHS)

LOCAL GOVERNMENT COMMITMENTS: LGPA signed by Banks Co.7-16-99(utilities)

OTHER PROJECTS IN THE AREA: NONE IDENTIFIED

PROBABLE LOCATIONS OF USTS: NONE IDENTIFIED

PROBABLE LOCATION OF HAZARDOUS WASTE: NONE IDENTIFIED

ALTERNATES CONSIDERED: (1) Build proposed bridge on same location of the existing with temporary detour bridge and on-site detour; (2) Build proposed bridge on same location of the existing with off-site detour; close road; (3) Build proposed bridge by shifting the alignment to the south flattening the existing curve and staging construction while maintaining traffic; (4) Build proposed bridge parallel and offset from existing, and remove the existing bridge; (5) No Build

6

Cost Comparison Summary of Concepts 1 - 5

COMMENTS: (2) was eliminated due to the costs of rebuilding/repairing a lengthy detour route on county roads. Alternate (3) was eliminated due to right of way impacts. Alternate (4) was eliminated due to a long realignment to build proposed bridge at 45 feet offset and parallel. Alternate (5) was eliminated due to long term maintenance cost of structurally deficient bridge. Alternate (1) is selected for this concept.

ATTACHMENTS: COST ESTIMATE, TYPICAL SECTION, BRIDGE INVENTORY, LOCATION & DESIGN NOTICE, TRAFFIC ASSIGNMENTS, BRIDGE REPLACEMENT/REHABILITATION/NEED AND PURPOSE LETTER

PRELIMINARY COST ESTIMATE

DATE: November 13, 2000 PREPARED BY: Parsons Brinckerhoff

PROJECT NO.: BRST-0885(3)

P.I. NO.: 142265

LENGTH:

PROJECT DESCRIPTION: SR 51 over Grove Creek bridge replacement - Proposed bridge length of 81 ft and 44'-0" wide.

PROPOSED CONCEPT: Two 12'-0" travel lanes with 10'-0" shoulders(4' Paved).

EXISTING ROADWAY: State Route 51

TRAFFIC: Existing: 2700 ADT (2004) Design: 4900 ADT (2024)

() PROGRAMMING PROCESS (x) CONCEPT DEVEL. () DURING PROJ DEVEL.

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (R/W & EASEMENT)	\$37,900
2. DISPLACEMENTS: NONE	\$
3. OTHER COST (ADM./COST, INFLATION)	\$
SUBTOTAL:A	\$37,900
B. REIMBURSABLE UTILITIES:	
1. RAILROAD	\$ 0
2. TRANSMISSION LINES	\$ 0
3. SERVICES	\$
SUBTOTAL:B	\$
C. CONSTRUCTION:	
1. MAJOR STRUCTURES	
a. OVERPASSES – Bridge over Grove Creek (44'x81')@\$75/Sq Ft	\$ 267,300
b. APPROACH SLAB – 267 SY @ \$90/SY, 2 spillways @ \$1200 ea	\$ 26,430
SUBTOTAL:C-1	\$ 293,730
2. GRADING AND DRAINAGE:	
a. EARTHWORK – 30,000 CY Borrow @ \$5.00/CY	\$ 150,000

PROJECT COST		
b. DRAINAGE:		
1) CROSS DRAIN PIPE		\$
2) LONGITUDINAL SYSTEMS (INCL CATCH BASINS)		\$ 0
SUBTOTAL:C-2		\$ 150,000
3. BASE AND PAVING:		
a. AGGREGATE BASE – 4594 TN @ \$18/TN		\$ 82,692
b. ASPHALT PAVING: SURFACE – 632 TN @ \$40/TN	\$ 25,280	
BINDER – 863 TN @ \$40/TN	\$ 34,520	
BASE - 1306 TN @ \$40/TN	\$ 52,240	
SUBTOTAL:C-3.b		\$ 112,040
c. CONCRETE PAVING		
d. OTHER - Bitum. Tack Coat 1310 Gal @ \$1.00/Gal		\$ 1310
SUBTOTAL:C-3		\$ 196,042
4. LUMP ITEMS:		
a. GRASSING – 5 acres @ \$1000/acre		\$ 5,000
b. CLEARING AND GRUBBING -		\$
c. LANDSCAPING		\$
d. EROSION CONTROL- Silt Fence type A 2500 LF @ \$3.10/LF, Silt Fence Type C 500 LF @ \$4.80/LF		\$ 10,150
e. TRAFFIC CONTROL		\$ 25,000
SUBTOTAL:C-4		\$ 40,150
5. MISCELLANEOUS:		
a. LIGHTING - NONE		\$
b. SIGNING - MARKING		\$ 5,000
c. GUARDRAIL – “W” Beam 2000 LF @ \$15/LF, 4 each Type 12 Anch @ \$1700 ea		\$ 36,800
d. CURB & GUTTER - NONE		
SUBTOTAL:C-5		\$ 41,800

PROJECT COST	
6. SPECIAL FEATURES – Rem. Exist. Bridge \$50,000, Field Eng. Office Ty 2 \$40,000 Construct and remove onsite detour, including detour bridge structure(\$250,000.00) SUBTOTAL:C-6	\$340,000

ESTIMATE SUMMARY		
A. RIGHT-OF-WAY	\$ 37,900	
B. REIMBURSABLE UTILITIES	\$	
C. CONSTRUCTION		
1. MAJOR STRUCTURES	\$ 293,730	
2. GRADING AND DRAINAGE	\$ 150,000	
3. BASE AND PAVING	\$ 196,042	
4. LUMP ITEMS	\$ 40,150	
5. MISCELLANEOUS	\$ 41,800	
6. SPECIAL FEATURES	\$ 340,000	
SUBTOTAL CONSTRUCTION COST		\$ 1,061,722
E. & C. (10%)		\$ 106,173
INFLATION (5% PER YEAR)		\$ 116,790
NUMBER OF YEARS	2	
TOTAL CONSTRUCTION COST		\$ 1,284,685
GRAND TOTAL PROJECT COST		\$ 1,322,585

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NOTICE OF LOCATION AND DESIGN APPROVAL

Project No. BRST-0885(3)

P.I. No. 142265

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.

This project consists of improvements of S.R. 51 over Grove Creek, located in Banks County, GMD 912. The improvement project includes replacing the existing bridge over Grove Creek.

Date of Location Approval: _____

Drawings and/or maps, and/or plats of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation. Any interested party may obtain a copy of the drawings or maps or plats by writing to the Georgia Department of Transportation, No. 2 Capitol Square, Atlanta, Georgia 30334 and paying a nominal cost thereof.

Any written request in reference to this Notice SHOULD include the PROJECT AND P.I. NUMBERS AS NOTED AT THE TOP OF THIS NOTICE AND may be referenced to:

James R. Chambers
Georgia Department of Transportation
No. 2 Capitol Square
Atlanta, Georgia 30334

Need and Purpose Statement**BANKS COUNTY****BRST-0885(3)****P.I. 142265**

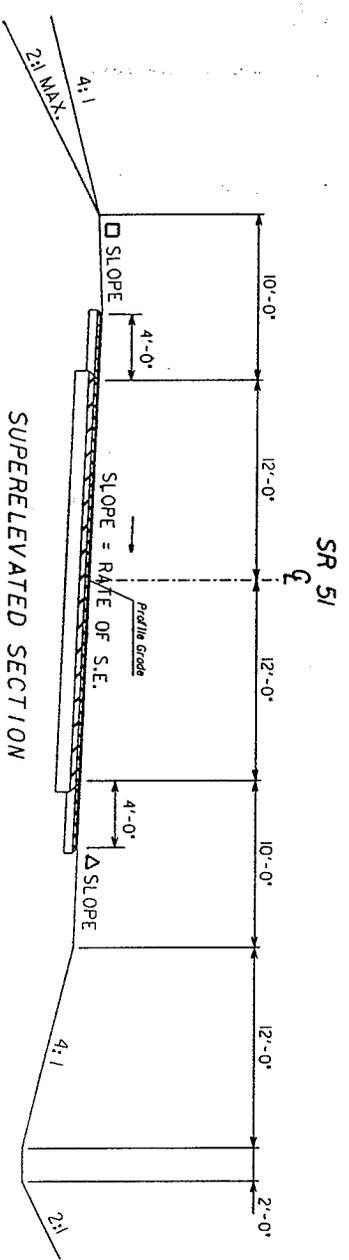
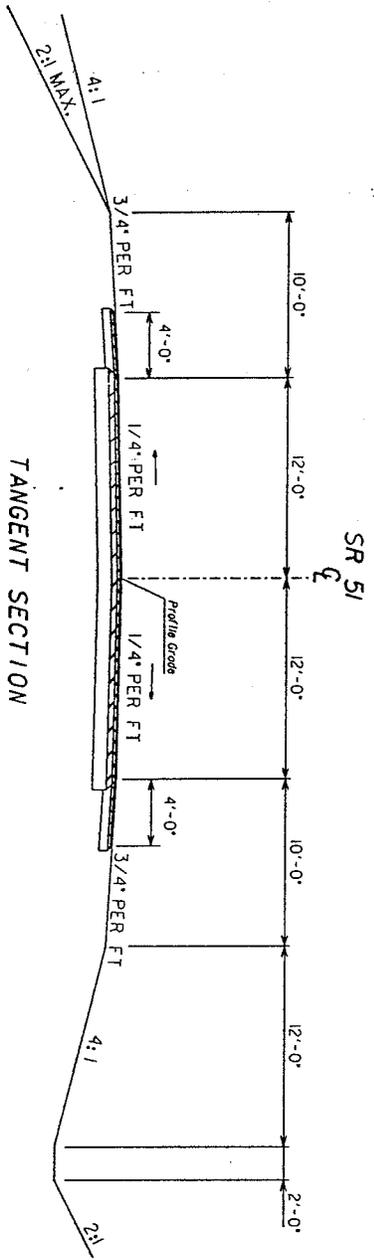
The purpose of this project is to replace the SR 51 bridge over Grove Creek. The project is located 7.0 miles west of the City of Homer and consists of the replacement of the bridge and the reconstruction of the approaches for a total distance of approximately 0.55 miles.

The Bridge over was originally constructed in 1949. The existing two lane bridge is 22.9 feet wide and 81 feet long. SR 51 has a speed limit of 55 MPH. The bridge has a sufficiency rating 45.1 out of 100. A sufficiency rating of less than 50 indicates that the bridge is structurally deficient. The bridge has been posted to restrict vehicles carrying more than 31 tons, which is less than the standard for facilities on the state highway system. The design for this bridge does not have the load carrying capacity needed for the current truck traffic and needs to be replaced. Traffic for the year 2004 is estimated to be 2,700 VPD. SR 51 along this section currently operates at level of service A.

The proposed project will be to replace the exiting bridge with a structure 44 feet wide. The new structure will have two 12 foot travel lanes plus two 10 foot shoulders. The additional width will improve the safety of this facility. Project traffic for the year 2024 is projected to be 4,900, yielding a level of service C.

TYPICAL SECTIONS

S. R. 51



STATE	PROJECT NUMBER	DATE	SCALE
GA	BRST-0885131		

THE LPA GROUP
 TRANSPORTATION CONSULTANTS
 5255 TRIANGLE PARKWAY, SUITE 300
 NORCROSS, GEORGIA 30092
 (770) 263-9118



REPORTABLES
 08/07/00
 08/07/00
 08/07/00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 011-0007-0

Banks County

SUFF. RATING: 45.1

Location & Geography

Signs & Attachments

<ul style="list-style-type: none"> * Structure I.D. No.: 011-0007-0 200 Bridge Information: 06 * 6A Feature Int.: GROVE CREEK * 6B Critical Bridge: 0 * 7A Route Number Carried: SR00051 * 7B Facility Carried: SR 51 * 9 Location: 7 MI. WEST OF HOMER 2 DOT District: 1 207 Year Photo: 1999 1 Inspection Frequency: 24 Date: 12/19/1999 * 2A Fyact Cri 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 <ul style="list-style-type: none"> Type: 3 Designator: 1 Number: 00051 Direction: 0 * 16 Latitude: 34-22.3 * 17 Longitude: 83 -36.7 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: 003.25 * 208 Inspection Area: 01 Initials: GMC * Location I.D. No.: 011-00051D-003.25E * XReferen I.D. No.: 000-0000000-000.000 	<ul style="list-style-type: none"> * 104 Highway System: 0 * 26 Functional Classification: 07 * 204 Federal Route Type: S No: 00885 * 110 Truck Route: 0 206 School Bus Route: 1 217 Benchmark Elevation: 0.00 218 Datum: 0 * 19 Bypass Length: 3 * 20 Toll: 3 * 21 Maintenance: 01 * 22 Owner: 01 * 31 Design Load: 1 37 Historical Significance: 5 205 Congressional District: 11 * 27 Year Reconstructed: 1949 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 * 42 Type Service On: 1 Under: 5 214 Movable Bridge: 00 203 Type Bridge: E-N-M-O 259 Pile Encasement: 1 * 43 Structure Type Main: 4 02 45 No. Spans Main: 002 44 Structure Type Appr: 3 3 46 No. Spans Appr: 0001 226 Bridge Curve Horiz: 0 Vert: 0 111 Pier Protection: 0 107 Deck Structure Type: 1 108 Wearing Surface Type: 6 Membrane: 0 Protection: 8 223 Expansion Joint Type: 02 242 Deck Drains: 1 243 Parapet Location: 0 <ul style="list-style-type: none"> Height: 0 Width: 0 238 Curb: 1.01 239 Handrail: 2.2 * 240 Median Barrier Rail: 0 241 Bridge Median Height: 0 <ul style="list-style-type: none"> Width: 0 * 230 Guardrail Loc Dir Rear: 6 <ul style="list-style-type: none"> Fwrtd: 6 Oppo Dir Rear: 0 Fwrtd: 0 244 Approach Slab: 0 224 Retaining Wall: 0 233 Posted Speed Limit: 55 236 Warning Sign: 1 234 Delineator: 1 235 Hazard Boards: 1 237 Utilities Gas: 00 <ul style="list-style-type: none"> Water: 00 Electric: 00 Telephone: 00 Sewer: 00 247 Lighting Street: 0 <ul style="list-style-type: none"> Navigation: 0 Aerial: 0 * 248 County Continuity No: 00
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BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 011-0007-0 Banks County SUFF. RATING: 45.1

Programming Data

201 Project No: FAS 340 (1)
 202 Plans Available: 1
 249 Prop. Proj No: BRST-0885 (3)
 250 Approval Status: 0000
 251 P.I. No: 142265
 252 Contract Date: 02/01/2002
 260 Seismic No: 00000
 75 Type Work: 311
 94 Bridge Imp. Cost: \$119
 95 Roadway Imp. Cost: \$56
 96 Total Imp. Cost: \$206
 Imp. Length: 000292
 57 Imp. Year: 1990
 114 Future ADT: 003000 Year: 2018

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: 00.6 Br Height: 15.4
 222 Slope Protection: 6
 221 Spur Dikes Rear: 0 Fwrd: 0
 219 Fender System: 0
 220 Dolphin: 0
 Culvert Cover: 0000
 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: 011-0005ID-003.25E
 * XReferen I.D. No: 000-000000-000.000

Report Date: 07/07/2000

Measurements

* 29 ADT: 002000 Year: 1998
 109 % Trucks: 9
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0027
 * 49 Structure Length: 81
 51 Br. Rdwy. Width: 21.7
 52 Deck Width: 22.9
 * 47 Tot. Horz. Cl: 21.7
 50 Curb/Sdewlk Width: 0.1/0.1
 32 Approach Rdwy Width: 023
 * 229 Shlder Width:

Rear Lt: 4.4 Type: 8 Rt: 4.6
 Fwrd Lt: 3.2 Type: 8 Rt: 4.5
 Pymnt Width:
 Rear: 23.6 Type: 2
 Fwrd: 23.9 Type: 2

36 Safety Features Br. Rail: 2
 Transition: 2
 App. G. Rail: 2
 App. Rail End: 1
 53 Minimum Cl. Over: 99' 99"
 Under: N 00' 00"

* 228 Min. Vert. Cl
 Act. Odm. Dir: 99' 99"
 Oppo. Dir: 99' 99"
 Posted Odm. Dir: 00' 00"
 Oppo. 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: 6.0
 Deck Thick Approach: 6.0
 246 Overlay Thickness: 3.3
 211 Tons Structural Steel: 0.0
 212 Year Last Painted: Sup: 1990 Sub: 1990

Ratings

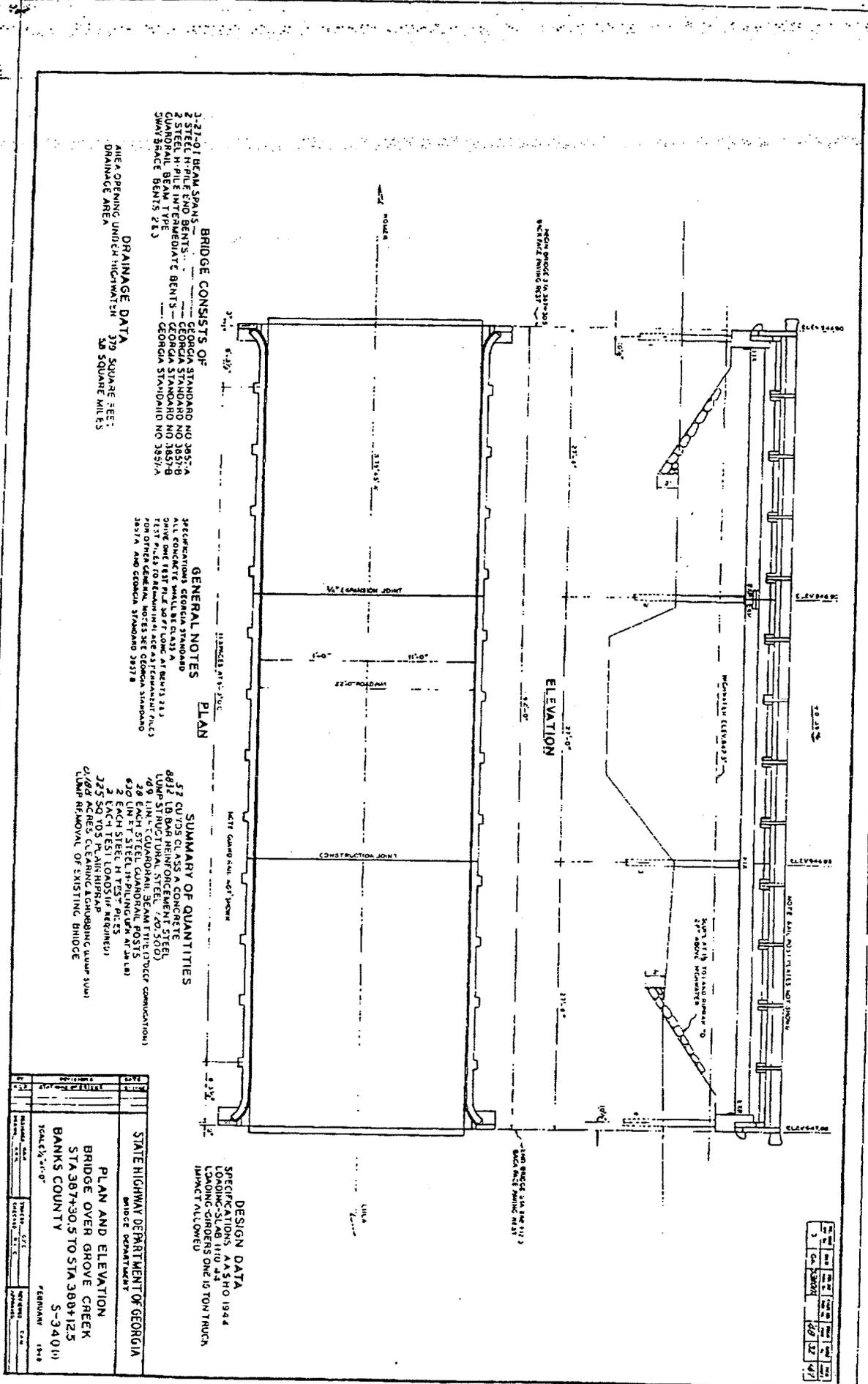
66 Inventory Type: 2 Rating: 13
 64 Operating Type: 2 Rating: 29
 231 Calculated Loads

H-Modified: 15 1
 HS-Modified: 25 0
 Type 3: 26 1
 Type 3S2: 39 0
 Timber: 31 1
 Piggyback: 00 0
 261 H Inventory Rating: 10
 262 H Operating Rating: 15
 67 Structural Evaluation: 2
 58 Deck Condition: 7
 59 Superstructure Condition: 6
 * 227 Collision Damage: 0
 60A Substructure Condition: 6
 60B Scour Condition: 6
 60C Underwater Condition: N
 71 Waterway Adequacy: 8
 61 Channel Protection Cond: 6
 68 Deck Geometry: 2
 69 UnderCl. Horz/Vert: N
 72 Appr. Alignment: 7
 62 Culvert: N

Posting Data

70 Bridge Posting Required: 3
 41 Struct Open, Posted, Cl: P
 * 103 Temporary Structure: T
 232 Posted Loads H-Modified: 15
 HS-Modified: 00
 Type 3: 26
 Type 3S2: 00
 Timber: 31
 Piggyback: 00
 253 Notification Date: 0000
 253 Fed Notify Date: 0000

01-20-00 10:40A LTA Group Atlanta



BRIDGE CONSISTS OF
 2-27'-0" BEAM SPANS
 2 STEEL H-PILE END BENTS
 2 STEEL H-PILE INTERMEDIATE BENTS
 QUADRANT BEAM TYPE
 3M4 BRACE BENTS (2 X 3)
 GEORGIA STANDARD NO. 3857-A
 GEORGIA STANDARD NO. 3857-B
 GEORGIA STANDARD NO. 3857-A
 GEORGIA STANDARD NO. 3857-A

DRAINAGE DATA
 AREA OPENING UNDER HIGHWAY: 379 SQUARE FEET
 DRAINAGE AREA: 38 SQUARE FEET

GENERAL NOTES
 ALL CONCRETE SHALL BE CLASS A
 DRIVE ONE TEST PILE TO PROVE AT BENT 1
 TEST PILES TO REMAIN IN PLACE AS TEST PILES
 FOR OTHER GENERAL NOTES SEE GEORGIA STANDARD
 3857-A AND GEORGIA STANDARD 3857-B

SUMMARY OF QUANTITIES
 57 CU YDS CLASS A CONCRETE
 18 BAR REINFORCEMENT STEEL
 1000 LB STRUCTURAL STEEL (20,500)
 48 LIN FT 27" DIAM BEAM TYPE (12" DIA CONNECTION)
 630 LIN FT STEEL H PILING (4" DIA)
 2 EACH TEST LOADS (IF REQUIRED)
 225 SQ YDS PLAIN ASPHALT
 0.88 ACRES CLEARING AND GRUBBING (4000 SQ YD)
 LIMIT REMOVAL OF EXISTING BRIDGE

DESIGN DATA
 SPECIFICATIONS: AASHTO 1944
 LOADS: HS-20
 LADING: GIBBERS ONE TON TRUCK
 IMPACT: ALLOWED

STATE HIGHWAY DEPARTMENT OF GEORGIA	
BRIDGE OVER GROVE CREEK	
BANKS COUNTY	
PLAN AND ELEVATION	
STA 387+30.5 TO STA 388+12.5	
S-34011	
FEBRUARY 1948	
APPROVED:	DATE:
DESIGNED BY:	CHECKED BY:
DRAWN BY:	SCALE:

NO.	QTY	UNIT	AMOUNT
1	57	CU YDS	CONCRETE
2	18	BAR	REINFORCEMENT STEEL
3	1000	LB	STRUCTURAL STEEL
4	48	FT	27" DIAM BEAM TYPE
5	630	FT	STEEL H PILING
6	2	EACH	TEST LOADS
7	225	SQ YDS	PLAIN ASPHALT
8	0.88	ACRES	CLEARING AND GRUBBING

Product: Abby
Sent: Tuesday, October 06, 1998 8:39 AM
To: Chambers, Jimmy
Subject: Traffic Assignments for S.R. 51 @ Grove Creek.

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-0885(3), Banks County **OFFICE** Environment/ Location
P.I. # 142285 **DATE** December 7, 1999

FROM David E. Studstill, P.E., State Environment/ Location

TO Jim Chambers, Office Of Consultant Management
Attn. Ted Cashin

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

2004 AADT = 2700
2024 AADT = 4900
K = 10%
D = 60%
T = 5%
24 HR. T = 7%
S.U. = 3.5%
COMB. = 3.5%

If you have any questions concerning this information please
contact Abby Ebodaghe at (404) 505-4889.

7-Jul-2000

P.I. NUMBER : 142265-

BANKS CO.

SCHED. LET: 20-03

DESCRIPTION : SR 51 @ GROVE CREEK 7 MI WEST OF HOMER
 PROJECT NO. : BRST-0885(3)
 P.E. PROJECT: BRST-0885(3)
 PROJ. LENGTH: .21 MI. CONCEPT:

ASST. HD: JRC
 SQUAD LDR: T. CASHIN

BIKE:
 METRIC:
 CONSULTANT: C
 P.E. DATE: 10/25/99

ACTIVITY	SCHED START	SCHED FINISH	ACTUAL START	ACT/EST FINISH	PCT	NOTES	PROGRAM ESTIMATES
CONCEPT PHOTOS			NO RPT	NO RPT	N/R		PE : \$5,000
DRAFT CONCEPT/RPT			NO RPT	NO RPT	0%		R/W : \$10,000
CONCEPT MTG				NO RPT			CNST: \$348,000
SUB RPT TO ENG SERV				NO RPT			EST DATE: 4/15/99
RECV ENG SERV APPRV				NO RPT			=====
MGMT APPRV REPORT			NO RPT	NO RPT	0%		LOC TAX N
ENVIRONMENTAL			1-Jul-2000	31-Dec-2000	0%		=====
HOLD HEARING				NO RPT			
MAPPING			NO RPT	NO RPT	N/R		STIP: Y
PHOTO X-SECTIONS			NO RPT	NO RPT	N/R		PE PROG DATE: 9910
FIELD SURVEYS			NO RPT	NO RPT	0%		R/W PROG DATE: 2001
FINAL ALT. APPROVAL				NO RPT			CST PROG DATE: 2002
& D APPROVAL			NO RPT	NO RPT	0%		
HOLD PREL. FPR				NO RPT			=====
PREL RD/RW PLANS			NO RPT	NO RPT	0%		EXEMPT: Y
APPROVE R/W PLANS			NO RPT	NO RPT	0%		
SECURE 404 PERMIT			NO RPT	NO RPT	0%		R/W DATA
PREL BRIDGE/HYDRAU			NO RPT	NO RPT	0%		
BRIDGE PLANS			NO RPT	NO RPT	0%		SCHED R/W AUTH: 20-03
RECV SOIL SURVEYS				NO RPT			ACT. R/W AUTH: 20-03
J.S.T.'s			NO RPT	NO RPT	0%		R/W ACQD. BY: DOT
HOLD FINAL FPR				NO RPT			# PARCELS: 0
FINAL CST. PLANS			NO RPT	NO RPT	0%		# APPR. TO DATE: 0
							# ACQD. TO DATE: 0

COMMENTS

·PDD : [01R] APRIL BOARD ADDITION: ASSIGNED CONSULTANT TASK FORCE 4/30/99
 ·DZN :
 ·PLAN :
 ·DIST : >LOC : BRIDGE
 ·T&S : NO SIGN & MKG PLANS REQ'D KRA 4/29/99 # >EIS : PRESTON - CONSULT TASK FORCE
 ·BR : 2-32 BRIDGE REQUIRED >404 : CONSULTANT TASK FORCE-NW 23 EXPECTED
 ·UT : >UST :
 ·RR : >PITS :
 ·LGPA: BANKS SGN DO UTILITIES 7-16-99. >R/W :

BANKS CO.
 P.I. NUMBER : 142265-



Memorandum of Concept Meetings

Date: October 12, 2000

Date of Meeting: October 10, 2000

Project: Work Order 4 – SR 51 over Grove Creek
Work Order 5 – SR 105 over Middle Fork Broad River
BRST-0885 (3), BRST-0981 (2), Banks County
P.I. No. 142265, 142266

Purpose of Meeting: Concept meeting to discuss the conceptual plans for the two projects, the circumstances surrounding them, and any possible complications.

Meeting Location: GDOT Gainesville District Office

Attendees:	Allen Ferguson	GDOT	770-532-5510
	Robby Oliver	GDOT	770-532-5510
	Parks Preston	GDOT	404-699-4415
	Todd Long	GDOT	770-532-5520
	Billy Cantrell	GDOT	770-532-5563
	Bobby Murray	GDOT	770-532-5563
	Tony Bradley	GDOT	770-532-5580
	Leon White	ALLteL	706-776-4507
	Doug Smith	Jackson EMC	770-538-2528
	Al Bowman	LPA Group	770-263-9118
	Danny Godwin	LPA Group	770-263-9145
	Roger Palmer	PBQ&D	404-364-2658
	Jim Graybeal	PBQ&D	404-364-8190
	Cristina Ley	PBQ&D	404-364-2661

Distribution: Attendees
Terry Kazmerzak PBQ&D

Jim Graybeal led the discussion by reviewing the contents of the concept report. Afterward, comments and concerns were brought up about the project and are as noted below.

Work Order 4 Discussion:

- Power lines cross the project East of the bridge
- No additional Need & Purpose will be supplied by GDOT however, typical language is that it is the Department's policy that when the sufficiency rating is less than 50, the structurally deficient bridge must be replaced. In addition, this serves the regional area, including access to Homer.
- The new bridge must be raised; the current one is too low.



- PB needs profile information
- A temporary onsite bridge on the north side will maintain traffic while the new bridge is constructed in its original location.
- A pond is located on the south side and a dam faces the bridge.
- Between the bridge and power lines appear to be wetlands.
- Project was originally estimated to be \$350k and is now estimated at more than \$1.2 mil.
- The project limit on the east side may need to be extended based on whether it meets speed design criteria.

Work Order 5 Discussion:

- Like WO 4, no profiles have been produced yet.
- Currently, there appears to have been problems on the end bents of the bridge.
- The new bridge will be placed to the North of the existing bridge and the old bridge would be demolished.
- There is 1 Mobile Home within the ROW which will need to be relocated.
- CR 113, which services a church only, ties into SR 105 on the north side near the bridge.
- There is a high bank on SR 105.
- The bridge does not need to be raised.
- Sight distance is a problem on the west side of the bridge
- The survey will be done back to the sag in the roadway on the west side.
- ALLtel has a cable going out along CR 113 and 2 cables going across the bridge.
- Currently someone, likely the owner of the chicken coops, is using the additional space under the bridge as tractor access. Designers will make efforts to maintain this access with the new bridge.

The foregoing is my understanding of the topics discussed. If you have any corrections or comments, please fax them to me at 404-237-3015.

Sincerely,

PARSONS BRINCKERHOFF QUADE & DOUGLAS, INC.

A handwritten signature in black ink that reads 'Roger A. Palmer'.

Roger A. Palmer, P.E.
Project Manager

- 1 -
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE:

PROJECT CONCEPT REPORT SIGN OFF FORM

Project Number: BRST-0885(3)

County: Banks

P. I. Number: 142265

DESCRIPTION: SR 51 over Grove Creek 7 Miles W. of Homer

Federal Route Number: N/A

State Route Number: 51

County Road Number: N/A

Date of Report: November 13, 2000

Revised: _____

RECOMMENDATION FOR APPROVAL

Note: This project is contained in the Regional Transportation Plan (RTP) and/or in the Statewide Transportation Improvement Program (STIP). The Concept as presented herein and submitted for approval is consistent with that which is included in the RTP and/or the STIP.

Date

State Transportation Planning Administrator

Date

State Transportation Programming Engineer

Date

State Environmental/Location Engineer

Date

District 1 Engineer / Gainesville

Date

Project Review Engineer

Date

State Traffic Operations Engineer

11/28/00
Date

Paul V. Miles Jr.
State Bridge & Structural Engineer

Date

Project Manager- Ted Cashin

- 1 -
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STATE OF GEORGIA
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Date

State Transportation Planning Administrator

Date

State Transportation Programming Engineer

Date

State Environmental/Location Engineer

11/22/00
Date

Larry E. Denton
District Engineer / Gainesville

Date

Project Review Engineer

Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer

Date

Project Manager- Ted Cashin

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: BRST-0885(3)/Banks County
P.I. No. 142265

Office: Traffic Operations
Atlanta, Georgia
Date: November 20, 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 a structurally deficient bridge on SR 51 over Grove Creek, located 7 miles west of Homer. The existing bridge is 29.7 feet in width with a sufficiency rating of 33.

SR 51 is a rural two lane roadway with a posted speed limit of 55mph. Traffic for the year 2004 is estimated at 2700vpd and design year, 2024, traffic estimate an increase to 4900vpd.

This project will construct a new structure on the same alignment as the existing structure. The proposed bridge will be 44 feet in width and this is in conformance with MOG 4265-10. Traffic will be maintained during the replacement, by construction of a temporary detour and detour structure located north of the existing bridge.

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

We therefore find this report satisfactory for approval.

MGW:TWS

Attachment (signature page)

c: Harvey Keepler
James R. Chambers, P.E., State Consultant Design Engineer
Attention: Ted Cashin
David Mulling, w/ attachment
Marta Rosen
Joe Garland, District Traffic Operations Engineer, Gainesville
Chuck Hasty, TMC
General Files

- 1 -
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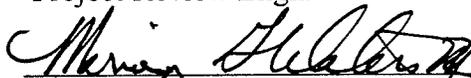
Date

District 1 Engineer / Gainesville

Date

Project Review Engineer

11/20/0000
Date



State Traffic Operations Engineer

Date

State Bridge & Structural Engineer

Date

Project Manager- Ted Cashin

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STATE OF GEORGIA
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11/20/00
Date

Marta Rosen
State Transportation Planning Administrator

Date

State Transportation Programming Engineer

Date

State Environmental/Location Engineer

Date

District 1 Engineer / Gainesville

Date

Project Review Engineer

Date

State Traffic Operations Engineer

Date

State Bridge & Structural Engineer

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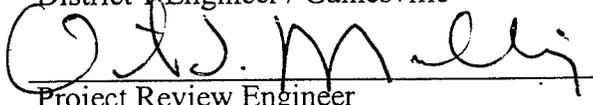
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11/28/00
Date



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