ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-030-1(26) Webster County
P. I. No. 333165

OFFICE Preconstruction

DATE December 31, 2001

FROM C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT **REVISED 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
Ben Buchan
Glenn Durrence
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **BRST-030 1 (26), Webster County**
S.R. 27/U.S. 280 over Lanahassee Creek
P.I. No. 333165

OFFICE Consultant Design

FROM Ben Buchan, P.E. State Consultant Design Engineer

DATE December 5, 2001

TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT **REVISED PROJECT CONCEPT REPORT**

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

The revised concept proposes to replace the existing S.R. 27/U.S. 280 Bridge over Lanahassee Creek with a new structure constructed on new alignment shifted approximately 30-feet from the centerline of the existing bridge. Constructing the proposed structure on new alignment will reduce potential environmental impacts to a state and federally listed endangered mussels species by eliminating the need to construct and then later remove a temporary onsite detour and detour bridge, which will also reduce the total project construction cost.

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

12-11-01
Date

Marta F. Rosen
State Transportation Planning Administrator

JBB:OC:jlw

Distribution:
David Mulling, Project Review Engineer
Harvey Keepler, State Environment/Location Engineer
Phillip Allen, State Traffic Safety and Design Engineer
Marta Rosen, State Transportation Planning Administrator
Herman Griffin, State Transportation Program Engineer
Paul Liles, State Bridge & Structural Engineer
Glenn Durrence, District Engineer – Thomaston

REVISED PROJECT CONCEPT REPORT

S.R. 27/U.S. 280 OVER LANAHASSEE CREEK
BRST-030 1 (26), Webster County
P. I. Number: 333165

Need and Purpose: Bridge project BRST-030-1 (26) in Webster County will replace the existing structurally deficient bridge located on S.R. 27/U.S. 280 over Lanahassee Creek approximately 2.2 miles east of Preston, Georgia.

The existing bridge over Lanahassee Creek is 195 feet long and was constructed in 1953. The roadway width of the structure is 23.9 feet. The posted speed limit along this section of S.R. 27 is 55 miles per hour.

The sufficiency rating of this bridge is 21.4. The Office of Bridge Maintenance has determined that any structure with a sufficiency rating less than 50 should be replaced rather than improved. The bridge is an H-15 design and currently the load limits are posted as follows: 14 tons (H-Modified), 22 tons (HS-Modified), 18 tons (Type 3), 33 tons (Type 3S2), and 25 tons (Timber). This project will replace the existing bridge with a new structure meeting today's design standards and specifications.

This section of SR 27 is functionally classified as a rural principal arterial and is designated as a school bus route. SR 27 is also designated as a STAA Route. Based on recommendations of each state, the Surface Transportation Assistance Act of 1982 (STAA) designated specific routes as STAA Routes to facilitate the movement of freight by truck. S.R. 27 is not designated as a statewide bicycle route.

In 1999, the Annual Average Daily Traffic (AADT) along this section of S.R. 27 was 2,600 vehicles per day. Estimates indicated that 13 % of this traffic is truck traffic. The projected AADT for this section of S.R. 27 is 3,000 vehicles per day in the year 2006 and 4,500 vehicles per day in the year 2026.

Replacing this bridge will bring it up to current design standards and in doing so will improve the operation and safety of this roadway.

Project Location: This project is approximately 0.38 miles in length and is located on S.R. 27/U.S. 280 at MP 8.95 over Lanahassee Creek in Webster County, 2.2 miles East of Preston, Georgia.

Description of the Approved Concept: The approved concept for this project proposes to replace the 23.9-ft X 195-ft structurally deficient S.R. 27 Bridge over Lanahassee Creek with a new 44-ft wide by approximately 200-ft long structure meeting current design standards. The proposed bridge is to be constructed on the existing roadway alignment. Traffic will be maintained during construction using a temporary on-site detour and detour structure that would be constructed 50-feet downstream of the existing bridge.

PDP Classification: Minor

Functional Classification: Rural Principal Arterial

Full Oversight ( ) **Exempt (X)** **SF ( )** **Other( )**

U.S. Route Number(s): 280 **State Route Number(s):** 27

Traffic as shown in the Approved Concept:

Current Year: 2006 **AADT:** 3,000 **Design Year:** 2026 **AADT:** 4,500

Proposed Features to be Revised: The revised concept proposes to replace the existing bridge with a new structure that is to be stage constructed on new alignment to minimize the potential impacts to an endangered mussel species (The Shiny Ray Pocket Book Mussel) that has been identified upstream from the proposed project site. To protect this endangered mussel species and its habitat, the Office of Environmental Location (OEL) has requested that any bridge constructed span Lanahassee Creek in a single span with no pilings placed within the steam bed. OEL also requested that a protective platform, which would prevent any demolition debris from falling into the creek, be used when removing the existing and temporary bridge structures. To meet these requirements, the cost of constructing the temporary detour bridge would increase to approximately $375,000, an increase of $250,000 over the original estimated detour structure cost. Constructing the proposed bridge on new alignment will reduce the potential environmental impacts by eliminating the need to construct and then subsequently remove the temporary detour and detour bridge and reduce the cost of construction by approximately $200,000. The proposed shifted alignment will extend the approved project length by approximately 650 feet.

Describe the Revised Features to be Approved: The proposed bridge will be stage constructed on new alignment shifted approximately 30-ft downstream from the centerline of the existing bridge. The revised project termini will begin at milepost 8.71 and end at milepost 9.21. The new project length will be 0.50 miles.

Updated Traffic Data:

Current Year: 2006 **AADT:** 3,000 **Design Year:** 2026 **AADT:** 4,500

Programmed/Schedule:

P.E. 10-99 R/W: 2002 Construction: 2003

Revised Cost Estimates:

1. Construction:	$1,111,255
E & C (10%):	$113,904
Inflation:	$122,516
Total Construction:	$1,347,675
2. Right of Way:	$25,000
3. Utilities:	$45,000

Is the Project Located in a Non-attainment Area? ____ **Yes** __X__ **No**

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

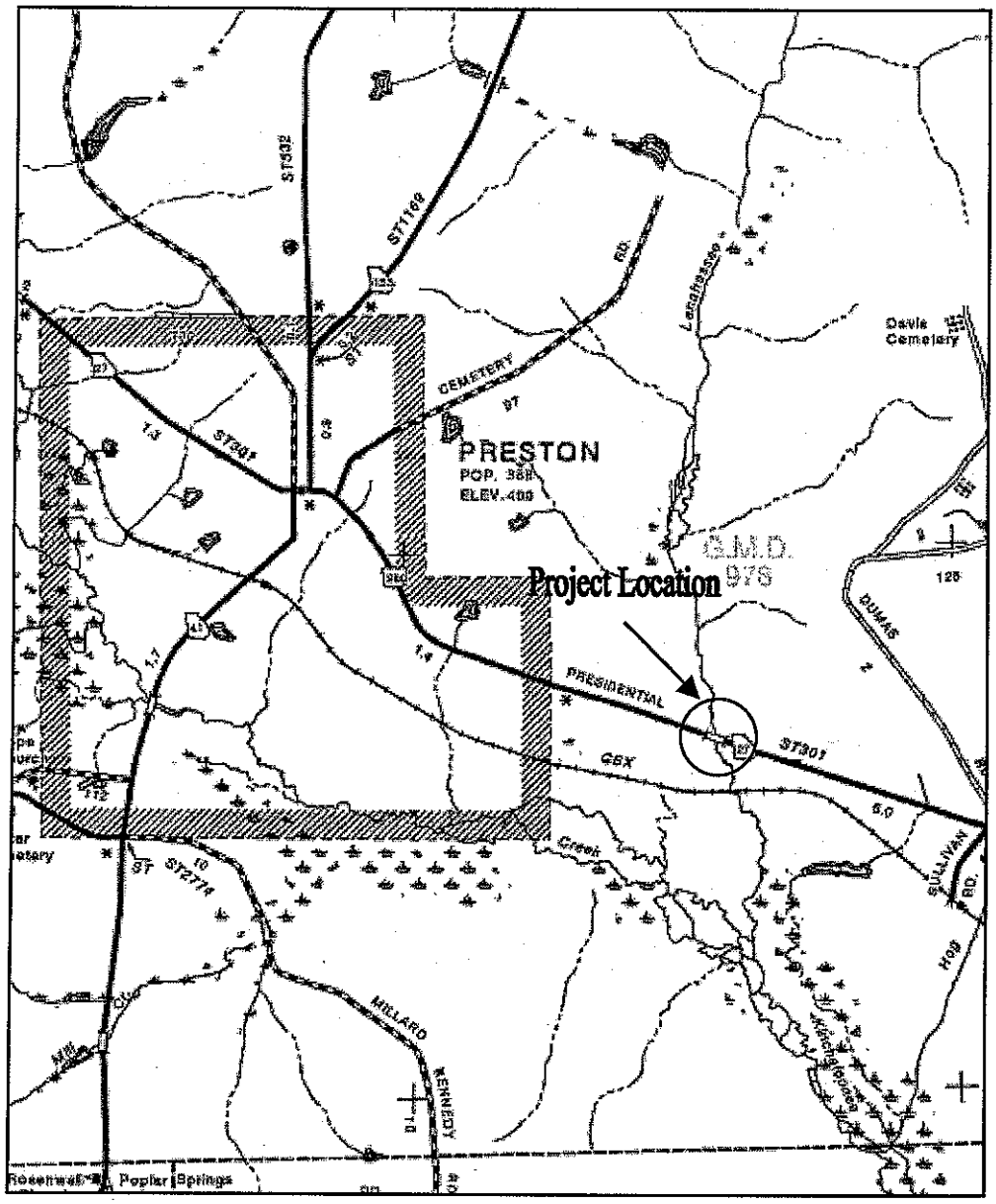
Attachments:

1. Project Sketch Map
2. Cost Estimate
3. OEL Letter

Concur: _____
Director of Preconstruction

Approve: _____
Chief Engineer

PROJECT LOCATION MAP



Project: BRST-030-1(26), Webster County
Project Description: S.R 27/US 280 over Lanahassee Creek 2.2 miles East of Preston.
P.I. No.: 333165

PRELIMINARY COST ESTIMATE

DATE: December 5, 2001 | PREPARED BY: The LPA Group, Inc.
PROJECT NO.: BRST-030-1 (26) | COUNTY: Webster
P.I. NO.: 333165 | LENGTH: 0.50 Miles

PROJECT DESCRIPTION: S.R. 27/U.S. 280 over Lanahassee Creek

PROJECT COSTS

A. RIGHT OF WAY

1. Property (Land & Easement)		$15,000
2. Displacements; Res: 0, Bus: 0, M.H.: 0		$0
3. Other Cost (Adm./Cost, Inflation)		$10,000
4. Detour (Temp. Easement)		$0
	Subtotal: A	**$25,000**

B. REIMBURSEABLE UTILITIES

1. Railroad; (None)		$0
2. Transmission Lines;		$30,000
3. Services:		$15,000
	Subtotal: B	**$45,000**

C. CONSTRUCTION

1. Major Structures			
a. Retaining Walls; (None)			$0
b. Bridges;	10,560 sft	@ $70 sft	$739,200
c. Box Culverts; (None)			$0
d. Removal of existing bridge;			$120,000
		Subtotal: C-1	**$859,200**
2. Grading and Drainage:			
a. Earthwork;	5,000 cy	@ $4 cy	$20,000
b. Drainage;			
1) Cross Drain Pipe (exclude box culverts) (None)			$0
2) Curb and Gutter (None - Rural)			$0
3) Longitudinal System (include catch basin (None - Rural)			$0
		Subtotal: C-2	**$20,000**

3. Base and Paving

a. Aggregate Base;	(	2,000 tons	@ $17 tn)	$34,000
b. Asphalt Paving;				
1) Surface	(	650 tons	@ $47 tn)	$30,550
2) Binder	(	390 tons	@ $47 tn)	$18,330
3) Base	(	575 tons	@ $45 tn)	$25,875
4) Leveling	(	200 tons	@ $45 tn)	$9,000
c. Concrete Paving;	(	0 syd	@ $100 syd)	$0
d. Other;		(None)		$0
			Subtotal:C-3	**$108,755**

4. Lump Items:

a. Traffic Control;		$40,000
b. Clearing & Grubbing;		$20,000
c. Grassing;		$20,000
d. Erosion Control;		$25,000
	Subtotal: C-4	**$105,000**

5. Miscellaneous:

a. Lighting;	(None)		$0
b. Striping - (5 in yellow);	5300 ft	@ $0.50 ft)	$2,650
c. Striping - (5 in white);	5300 ft	@ $0.50 ft	$2,650
d. Guardrail			$13,000
e. Sidewalk - Median Barrier;			$0
		Subtotal: C-5	**$18,300**

6. Special Features (None) Subtotal: C-6 **$0**

7. Detour (None) Subtotal: C-7 **$0**

ESTIMATE SUMMARY

A. Right-of-Way		$20,000
B. Reimbursable Utilities		$45,000
C. Construction		
1. Major Structures	$859,200	
2. Grading and Drainage	$20,000	
3. Base and Paving	$108,755	
4. Lump Items	$105,000	
5. Miscellaneous	$18,300	
6. Special Features	$0	
7. Detour	$0	
Subtotal Construction Cost	$1,111,255	
Inflation (5% per year for 2 years	$113,904	
E & C (10%)	$122,516	
Total Construction Cost		$1,347,675
GRAND TOTAL PROJECT COST	**$1,412,675**	

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. 333165 **OFFICE** Environment/Location

DATE July 13, 2001

FROM Harvey D. Keepler, State Environmental/Location Engineer

TO James R. Chambers, P.E. Office of Consultant Design

ATTN Ted Cashin

SUBJECT BRST-030-1(26) Proposed Bridge Replacement on State Route 27 in Webster County

This memorandum is to notify you that the state and federally listed endangered shinyrayed pocketbook mussel *(Lampsilis subangulata)* has been found directly upstream of the existing bridge.

To protect this species and its habitat, it is requested that a free span with no pilings placed into the streambed, be used for the temporary bridge structure. It is also requested that a protective platform which prevents all demolition debris from falling into the stream be used in the removal of the existing bridge. All piles in the water should be cut off 1.0 foot above the normal water level. All other piles near or adjacent to the creek should be cut off at ground level.

These measures should help to avoid the often lengthy formal Section 7 consultation process with the U.S. Fish and Wildlife Service (FWS) and prevent any delays to project completion. So that we at the Office of Environment/Location can proceed with necessary informal discussions with FWS concerning this project, we ask that you formally respond as to whether your office will definitely be able to implement the free span bridging, protective platform use and pile removal techniques as requested in this memo. If you have any questions regarding this request please contact Lisa Westberry at 404-699-4433 or Tara Fletcher at 404-699-4428.

cc: Tom Turner
Bill Phillips

HDK/ttf

ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-030-1(26) Webster County
P. I. No. 333165

OFFICE Preconstruction

DATE October 27, 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
Harvey Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Marion Waters
Marta Rosen
Paul Liles
Jimmy Chambers (ATTN: Ted Cashin)
Glenn Durrence

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-030-1(26) Webster County
P.I. No. 333165

OFFICE Preconstruction

DATE October 16, 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 a narrow and structurally deficient bridge on SR 27/US 280 over Lanahasse Creek, 2.2 miles east of Preston, Georgia. The existing bridge, built in 1953, is 195' x 25' ' with a design load capacity of H-15 and a sufficiency rating of 21. The existing approaches consist of a two lane rural roadway on 100' of existing right-of-way. The base year (2006) traffic is 3,000 VPD and the design year (2026) traffic is 4,500 VPD. The posted speed and the design speed are 55 MPH.

The construction proposes to construct a new 200' x 44' concrete bridge over Lanahasse Creek at the existing bridge site. The approaches will consist of two, 12' lanes with 10' rural shoulders (2' paved). Traffic will be detoured via an on-site drainage structure and temporary detour road constructed parallel to 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:

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$1,306,000	$686,000	2004	03-07
Right-of-Way	$ 35,000	$ 10,000		
Utilities*	LGPA	LGPA		

*Webster County signed LGPA 8-17-99 for utilities.

BRST-030-1(26) Webster
October 16, 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-030-1(26) ~~Stewart~~ WEBSTER CO.
P.I. Number 333165

OFFICE: Atlanta, Georgia

DATE: October 2, 2000

FROM: David Mulling, Project Review Engineer DM

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: **CONCEPT REPORT**

We have reviewed the concept report submitted September 26, 2000 by the letter from Ted Cashin dated September 29, 2000, and have no comments.

The costs for the project are:

Construction	$1,079,000
Inflation	$ 108,000
E&C	$ 119,000
Reimbursable Utilities	$ 45,000
Right of Way	$ 35,000

RECEIVED
OCT - 3 2000

DTM

c: Ted Cashin – Consultant Design Office

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

SEP 2000
REC'D
Office of Engineering Services
D.O.T.

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-030-1(26) ~~Stewart~~ WEBSTER County
S.R. 27/U.S. 280 over Lanahassee Creek
P.I. No. 333165

OFFICE Atlanta

FROM Ted Cashin, Consultant Design Office

DATE September 26, 2000

TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT **PROJECT CONCEPT REPORT**

Attached is the original copy of the concept report for your further handling and approval in accordance with the PDP.

Those people 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.

cc: Marta Rosen, State Transportation Planning Administrator
David Studstill, State Environment/Location Engineer
Glenn Durrence, District Engineer – Thomaston
David Mulling, Project Review Engineer
Paul Liles, State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE:

PROJECT CONCEPT REPORT SIGN OFF

S.R. 27/US 280 OVER LANAHASSEE CREEK

Project Number: BRST-030-1(26)
County: Webster
P. I. Number: 333165
Federal Route Number: 280
State Route Number: 27
County Road Number: N/A

Date of Report: September 26, 2000 Revised:

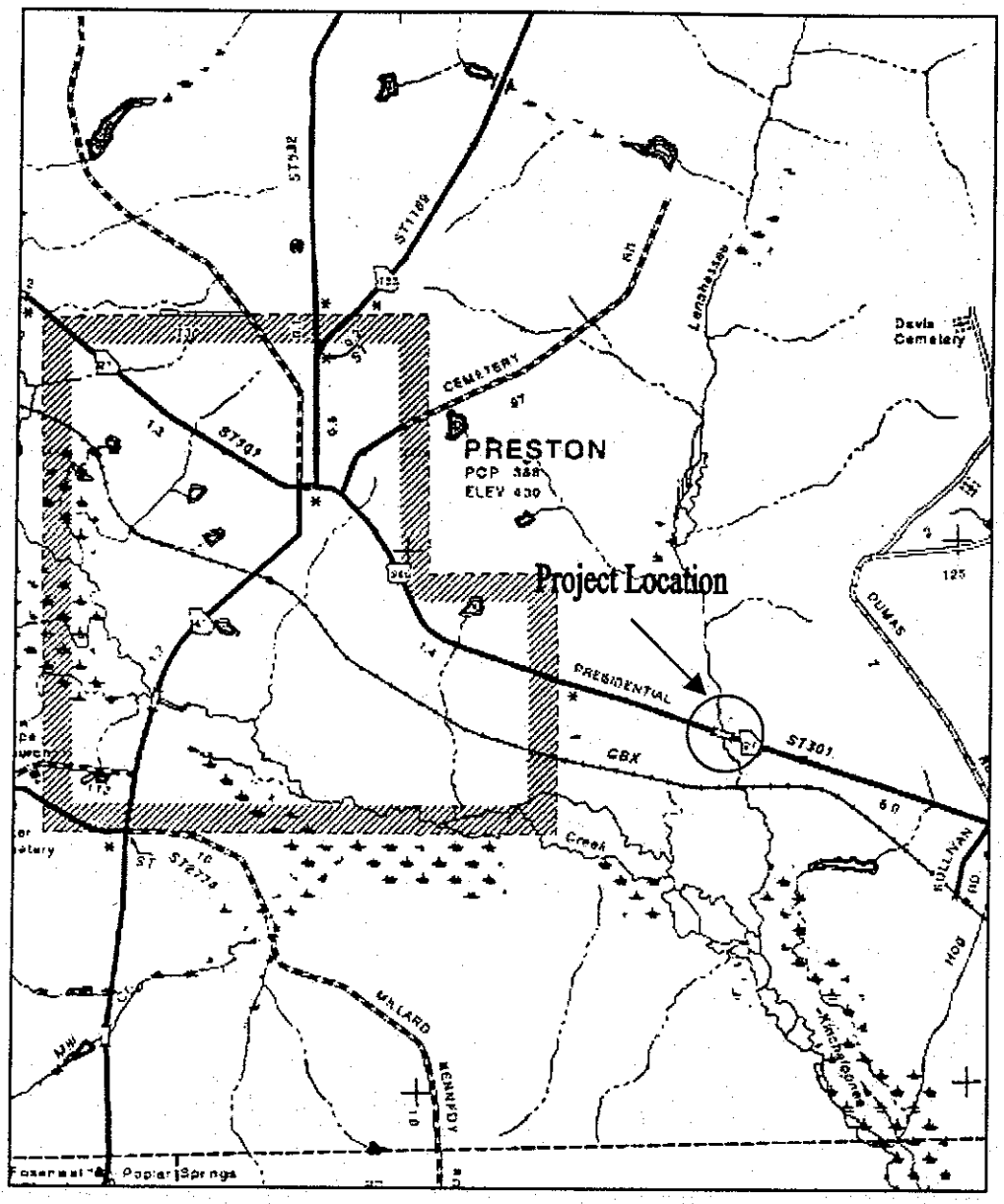
RECOMMENDATION FOR APPROVAL

This project concept is contained 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 STIP.

Date	State Transportation Planning Administrator
Date	State Environmental/Location Engineer
Date	District 3 Engineer / Thomaston
10/2/00 Date	Project Review Engineer
Date	State Bridge & Structural Engineer

Project Location Map: See Page 2

PROJECT CONCEPT REPORT
PROJECT NUMBER BRST-030-1(26)
PROJECT LOCATION MAP



Project: BRST-030-1(26), Webster County, P.I. No.: 333165
Project Description: S.R 27/US 280 over Lanahassee Creek 2.2 miles East of Preston.

PROJECT CONCEPT REPORT

DATE: September 22, 2000

PROJECT NUMBER: BRST-030-1(26)
COUNTY: Webster
DESCRIPTION: Bridge Replacement
LENGTH: The total length of this project is approximately 2,000 ft. (0.38 miles)
P.I. NO.: 333165
U.S. ROUTE NO.: 280 STATE RT. NO.: 27
LOCATION: SR 27/US280 over Lanahassee Creek
MILE POINT REFERENCE:
BEGIN 8.95 END N/A

TRAFFIC

CURRENT
YEAR: 2006 ADT: 3000

PROJECTED
YEAR: 2026 ADT: 4500

PDP CLASSIFICATION
Minor

FUNCTION CLASSIFICATION
Rural Principal Arterial

FOS ( ) EXEMPT(X) N/A ( )

EXISTING DESIGN

TYPICAL SECTION: Twelve foot lanes with rural shoulders, existing right-of-way 100'.

POSTED SPEED 55 MI/HR MAX. DEGREE OF CURVE Tangent

MAX. EXISTING GRADE 1 %

EXISTING MAJOR STRUCTURES: Thirteen spans, each approximately 15 feet long

FEATURE INTERSECTED: Lanahassee Creek
S. RTG: 21.4 LENGTH: 195 feet WIDTH: 25 feet

PROJECT NEED & PURPOSE: The purpose of project BRST-030-1(26) is to replace the load posted bridge. See attached Need and Purpose Statement.

PROJECT CONCEPT REPORT
PROJECT NUMBER BRST-030-1(26)

PROPOSED DESIGN

PROPOSED TYPICAL SECTION: The proposed roadway will consist of two 12' travel lanes with 10' shoulders. The shoulder will include a 2' paved shoulder. Typical Section attached.

PROPOSED RIGHT-OF-WAY WIDTH: Additional right-of-way is not anticipated. The project might require construction easement for the detour.

DESIGN SPEED: 55 MI/HR
MAX. DEGREE OF CURVE: ALLOWABLE: 4°45 PROPOSED: Tangent
MAX. GRADE: ALLOWABLE: 4.5% PROPOSED: 1.0 %
TYPE ACCESS: Permit

TRAFFIC CONTROL DURING CONSTRUCTION: Two-way traffic will be maintained on a temporary structure.

PROPOSED STRUCTURES: The proposed bridge will be 44'-0" wide, consisting of two 12'-0" travel lanes and two 10'-0" shoulders. The bridge is expected to be approximately 200' in length.

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 IMPACTED: 4
DISPLACEMENTS: NONE

PROJECT CONCEPT REPORT
PROJECT NUMBER BRST-030-1(26)

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE: 3/16/2000
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: 4 (MONTHS)
TIME TO COMPLETE PRELIMINARY RD/RW PLANS: 3 (MONTHS)
TIME TO COMPLETE 404 PERMIT: 3 (MONTHS)
TIME TO COMPLETE FINAL CONSTRUCTION PLANS: 3 (MONTHS)
TIME TO BUY RIGHT OF WAY: 8 (MONTHS)

LOCAL GOVERNMENT COMMITMENTS: LGPA signed for utilities from Webster County 8/17/99.

OTHER PROJECTS IN THE AREA: NONE

PROBABLE LOCATIONS OF USTS: NONE IDENTIFIED

PROBABLE LOCATION OF HAZARDOUS WASTE: NONE IDENTIFIED

ALTERNATES CONSIDERED: (1) Build the proposed bridge in the same location as the existing structure, with a temporary detour on one side of the existing bridge; (2) Build the proposed bridge parallel and offset from the existing bridge, then abandon or demolish the existing structure. (3) No Build.

Cost Comparison Summary of Concepts 1 - 3

COMMENTS: Alternate (2) was eliminated due to a long realignment to build proposed bridge offset and parallel. Alternate (3) was eliminated due to long term maintenance cost of structurally deficient bridge. Alternate (1) is selected for this concept.

Attachments: Cost Estimate, Typical Sections, Location & Design Notice, Concept Meeting Minutes, Bridge Inventory, Need & Purpose Statement.

PROJECT CONCEPT REPORT
PROJECT NUMBER BRST-030-1(26)

PRELIMINARY COST ESTIMATE

DATE: September 22, 2000 PREPARED BY: The LPA Group, Inc.
PROJECT NO.: BRST-030-1(26)
P.I. NO.: 333165 LENGTH: 4000 feet (0.75 miles)
PROJECT DESCRIPTION: Bridge Replacement – S.R. 27/US 280 over Lanahassee Creek.

PROPOSED CONCEPT: The proposed bridge will be 44'-0" wide, consisting of two 12'-0" travel lanes and two 10'-0" shoulders. The bridge is expected to be approximately 200' in length.

EXISTING ROADWAY: State Route 27/US 280
TRAFFIC: Existing: 3000 ADT (2006) Design: 4500 ADT (2026)

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

PROJECT COSTS

PRELIMINARY COST ESTIMATE

A. RIGHT-OF-WAY

1. Property (Land & Easement)		$25,000
2. Displacements; Res: 0, Bus: 0, M.H.: 0		$0
3. Other Cost (Adm./Cost, Inflation)		$10,000
	Subtotal: A	**$35,000**

B. REIMBURSABLE UTILITIES

1. Railroad; (None)		$0
2. Transmission Lines; (OH power lines on south side, relocation cost to be determined		$0
3. Services: (None)		$45,000
	Subtotal: B	**$45,000**

C. CONSTRUCTION

1. Major Structures			
a. Retaining Walls;	(None)		$0
b. Bridges;	9,450 sft	@ $55 sft	$519,750
c. Detours Bridges;	5,000 sft	@ $25 sft	$125,000
d. Box Culverts; (None)			$0

e. Removal of existing bridge;				$50,000
			Subtotal: C-1	**$694,750**

2. Grading and Drainage:

a. Earthwork;	3,517 cy	@ $4 cy		$14,067
b. Drainage;				
1) Cross Drain Pipe (exclude box culverts)			(None)	$0
2) Curb and Gutter			(None - Rural)	$0
3) Longitudinal System (include catch basins)			(None - Rural)	$0
			Subtotal: C-2	**$14,067**

3. Base and Paving

a. Aggregate Base;	5,600 syd	@ $12 syd		$67,200
b. Asphalt Paving;				
1) Surface	550 tons	@ $47 tn		$25,850
2) Binder	900 tons	@ $47 tn		$42,300
3) Base	2,500 tons	@ $45 tn		$112,500
c. Concrete Paving;	282 syd	@ $100 syd		$28,200
d. Other;	(None)			$0
			Subtotal:C-3	**$276,050**

4. Lump Items:

a. Traffic Control;				$40,000
b. Clearing & Grubbing;				$14,568
c. Landscaping;				$3,222
d. Erosion Control;				$15,000
e. Detours;	(included in const. Quantaties)			$0
			Subtotal: C-4	**$72,790**

5. Miscellaneous:

a. Lighting;		(None)		$0
b. Striping - (5 in yellow);	5200 ft	@ $0.50 ft		$2,600
c. Striping - (5 in white);	5200 ft	@ $0.50 ft		$2,600
d. Guardrail				$16,040
e. Sidewalk - Median Barrier;		(None)		$0
			Subtotal: C-5	**$21,240**

6. Special Features (None) Subtotal: C-6 **$0**

PROJECT CONCEPT REPORT
PROJECT NUMBER BRST-030-1(26)

ESTIMATE SUMMARY

A. Right-of-Way			$35,000.00
B. Reimbursable Utilities			$45,000.00
C. Construction			
1. Major Structures		$694,750.00	
2. Grading and Drainage		$14,037.00	
3. Base and Paving		$276,050.00	
4. Lump Items		$72,785.00	
5. Miscellaneous		$21,240.00	
6. Special Features		$0.00	
Subtotal Construction Cost		$1,078,862.00	
E & C (10%)		$107,886.20	
Inflation (5% per year)		$110,583.36	
Inflation	1st yr	$53,943.10	$1,132,805.10
	2nd yr	$56,640.26	
Number of Years		2	
Total Construction Cost			$1,297,331.56
GRAND TOTAL PROJECT COST			**$1,377,331.56**

PROJECT CONCEPT REPORT
PROJECT NUMBER BRST-030-1(26)

NOTICE OF LOCATION AND DESIGN APPROVAL

Project No. BRST-030-1(26)
P.I. No. 333165

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. 27/US 280 over Lanahassee Creek, located in Webster County, 25th Land District, Land Lots 216,231,232 and 233. The improvement project includes replacing the existing bridge over Lanahassee 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 by referenced to:

James R. Chambers
Georgia Department of Transportation
No. 2 Capitol Square
Room 444
Atlanta, Georgia 30334

September 25, 2000

Need and Purpose

Project BRST –030-1(26); Webster County
P.I. # 333165
Bridge over Lanahassee Creek

The proposed project involves replacing the existing two-lane bridge and approaches over Lanahassee Creek on State Route 27 with a new two-lane bridge. State Route 27 runs east-to-west, connecting destinations in southwestern Georgia such as Vienna and I-75 to places such as Americus in Sumter County, Lumpkin in Stewart County, and Georgetown in Quitman County. State Route 27 is also one of the few routes in this area of the state that provides access across the Chattahoochee River into Alabama.

The existing bridge over Lanahassee Creek is 195 feet long and was constructed in 1953. A total of 13 spans equaling 15 feet each make up the length of this structure. The roadway width of the structure is 23.9 feet. The posted speed limit is 55 miles per hour. State Route 27 is also designated as a special truck route (see below); however, it is not designated as a statewide bicycle route.

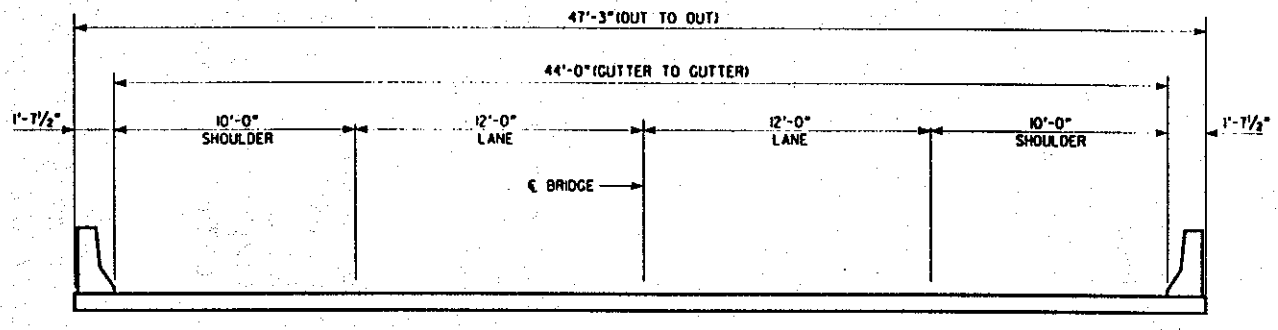
This section of State Route 27 is functionally classified as a rural principal arterial. It is also designated as a school bus route and as a STAA Access Route. Based on recommendations of each state, the Surface Transportation Assistance Act of 1982 (STAA) designated specific routes as STAA Routes to facilitate the movement of freight by truck. The majority of these national routes are interstate highways and major arterial roadways. There are 2,425 miles of STAA routes in Georgia. To assist truck freight in reaching terminals and delivery points more directly, the state of Georgia designated additional connecting roads as STAA Access routes. The total number of approved STAA and STAA Access route mileage in Georgia is 9,246 miles.

In 1999, the average annual daily traffic (AADT) was recorded to be 2,600 vehicles per day. This traffic volume is slightly down from 2,700 vehicles per day recorded in 1996. Estimates indicate that 13% of this traffic is truck traffic. Future design traffic on State Route 27 is estimated to be 3,000 vehicles per day in the year 2006 and 4,500 vehicles per day in the year 2026. Using the Highway Capacity Manual to determine operating Level-of-Service (*LOS*), the roadway is presently operating at a *LOS B*. Using the projected year 2026 traffic, the roadway is projected to be operating at a *LOS C*.

The Office of Bridge Maintenance has identified this bridge to be structurally deficient and has determined the bridge needs to be replaced. The sufficiency rating of this bridge is 21.4 and the Office of Bridge Maintenance has determined that any bridge with a sufficiency rating less than 50 needs to be repaired or replaced. The bridge is an H-15 design and currently the load limits are posted as follows: 14 tons (H-Modified), 22 tons (HS-Modified), 18 tons (Type 3), 33 tons (Type 3S2), 25 tons (Timber). The new bridge and approaches will be constructed to meet today's design standards and specifications.

Based on the above, there is a need to replace the existing bridge on State Route 27 over Lanahassee Creek due to structural deficiencies. The purpose of replacing this bridge is to provide continued access along State Route 27 to local residents as well as to through truck traffic utilizing this designated STAA Access route.

STATE	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	WEBSTER	BRST-030-1(26)		



BRIDGE TYPICAL SECTION

SCALE: ⅛" = 1'-0"

PROJECT NO.: AT258303	DATE
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SUPERVISED BY: ALBERT W. BOWMAN, P.E.	

THE LPA GROUP

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

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

BRIDGE TYPICAL SECTION
S.R. 27/US 280 AT LANAHASSEE CREEK
WEBSTER CO. BRST-030-1(26)

22 AUG 2002 07:59:50

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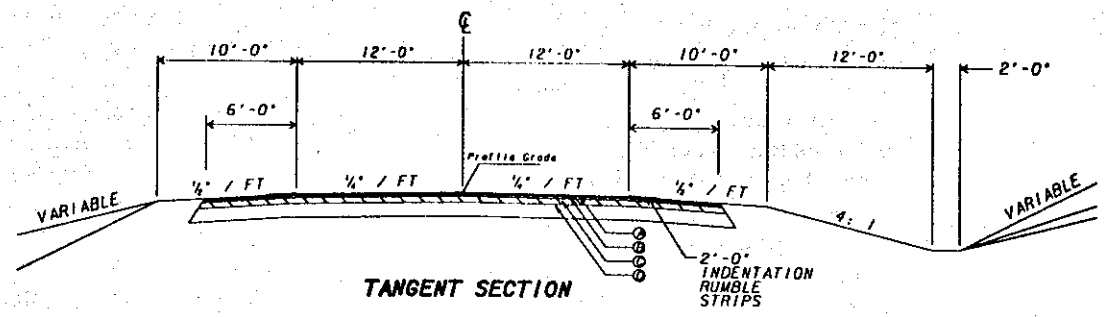
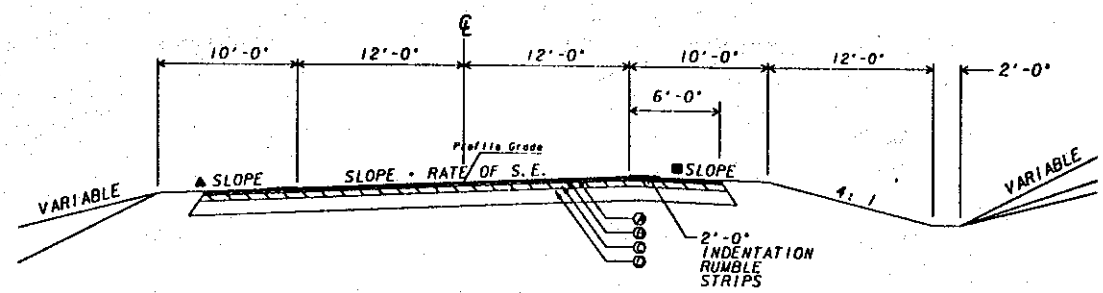
STATE	COUNTY	NUMBER	NO.	SHEETS
GA.	WEBSTER	BRST-030-1(26)		



TANGENT SECTION



SUPERELEVATED SECTION

SLOPE SELECTION		
SLOPE	CUT	FILL
4:1	0'-6'	0'-6'
3:1	6'-10'	6'-10'
2:1	10+	10+

REQUIRED PAVEMENT

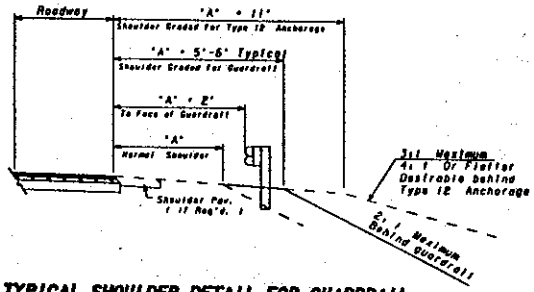
Ⓐ ASPHALTIC CONCRETE 9.5 MM SUPERPAVE, 165 LBS./S.Y.
Ⓑ ASPHALTIC CONCRETE 19 MM SUPERPAVE, 220 LBS./S.Y.
Ⓒ ASPHALTIC CONCRETE 25 MM SUPERPAVE, 660 LBS./S.Y.
Ⓓ GRADED AGGREGATE BASE, 10"

SUPERPAVE MIX DESIGN LEVEL B

▲ SLOPE ¼" / 1'-0" OR RATE OF S.E. WHICHEVER IS GREATER

■ SLOPE AS FOLLOWS:
S.E. RATE OF 0.03'/FT OR LESS USE ¼" IN 1'-0"
S.E. RATE OF 0.04'/FT, USE ⅜" IN 1'-0"
S.E. RATE OF 0.05'/FT, USE ½" IN 1'-0"
S.E. RATE OF 0.06'/FT, USE ¾" IN 1'-0"
S.E. RATE OF 0.08'/FT, USE +0.01'/FT

ALGEBRAIC DIFFERENCE IN PAVING AND SHOULDER SLOPES NOT TO EXCEED 0.07'/FT



TYPICAL SHOULDER DETAIL FOR GUARDRAIL
SEE PLAN FOR LOCATION

PROJECT NO.: AT258303	DATE
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
SUPERVISED BY:	

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

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION

ROADWAY TYPICAL SECTION
S.R. 27/US 280 AT LANAHASSEE CREEK
WEBSTER CO. BRST-030-1(26)

23 AUG 2000 07:37:28
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BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 307-0005-0 **Webster County** SUFF. RATING: 21.4

Location & Geography

* Structure I.D. No.: 307-0005-0
200 Bridge Information: 06

* 6A Freature Int.: LANAHASSEE CREEK
* 6B Critical Bridge: 0
* 7A Route Number Carried: SR00027
* 7B Facility Carried: US 280
* 9 Location: 2.2 MI E OF PRESTON
2 DOT District: 3
207 Year Photo: 1997

91 Inspection Frequency: 24 Date: 07/22/1999
92A Fract Crit Insp Freq: 0 00 Date: 0000
92B Underwater Insp Freq: 1 60 Date: 11/30/1999
92C Other Spc. Insp Freq: 0 00 Date: 0000

* 4 Place Code: 00000

* 5 Inventory Route (O/U): 1
Type: 2
Designator: 1
Number: 00280
Direction: 0

* 16 Latitude: 32-02.3
* 17 Longitude: 84 -30.4

98 Border Bridge: 000 %Shared: 00
99 ID Number: 000000000000000

* 100 Defense Highway: 0
* 101 Parallel Structure: N
* 102 Direction of Traffic: 2
264 Road Inventory Mile Post: 009.20

* 208 Inspection Area: 08 Initials: JLA

* Location I.D. No: 307-00027D-009.53E
* XReferen I.D. No: 000-000000-000.000

* 104 Highway System: 0
* 26 Functional Classification: 02
* 204 Federal Route Type: F No: 030-1
* 110 Truck Route: 0
206 School Bus Route: 1
217 Benchmark Elevation: 0.00
218 Datum: 0
* 19 Bypass Length: 29
* 20 Toll: 3
* 21 Maintenance: 01
* 22 Owner: 01
* 31 Design Load: 2
37 Historical Significance: 5
205 Congressional District: 02
* 27 Year Constructed: 1953
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: 3

* 42 Type Service On: 1
Under: 5
214 Movable Bridge: 00
203 Type Bridge: E-N-A-O
259 Pile Encasement: 1
* 43 Structure Type Main: 1 01
45 No. Spans Main: 013
44 Structure Type Appr: 0 0
46 No. Spans Appr: 0000
226 Bridge Curve Horz: 0 Vert: 0
111 Pier Protection: 0
107 Deck Structure Type: 2

108 Wearing Surface Type: 6
Membrane: 0
Protection: 0

Signs & Attachments

223 Expansion Joint Type: 02
242 Deck Drains: 1

243 Parapet Location: 0
Height: 0
Width: 0

238 Curb: 1.0 1
239 Handrail: 2 2
* 240 Median Barrier Rail: 0

241 Bridge Median Height: 0
Width: 0

* 230 Guardrail Loc Dir Rear: 6
Fwrd: 6
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: 307-0005-0 **Webster County** SUFF. RATING: 21.4

Programming Data

201 Project No: SMF
202 Plans Available: 2
249 Prop. Proj No: BRST-030-1 (26)
250 Approval Status: 0000
251 P.I. No: 333165
252 Contract Date: 02/01/2004
260 Seismic No: 00000
75 Type Work: 34 1
94 Bridge Imp. Cost: $ 260
95 Roadway Imp. Cost: $ 50
96 Total Imp. Cost: $ 406
76 Imp. Length: 000406
97 Imp. Year: 1990
114 Future ADT: 004050 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: 7 Br Height: 9.4
222 Slope Protection: 1
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No Barrels: 0
Width: 0.0
Height: 0.0
Length: 0
Apron: 0
* 265 U/W Insp. Area: 2 Diver: WSS

* Location I.D. No: 307-00027D-009.53E
* XReferen I.D. No: 000-000000-000.000

Measurements

* 29 ADT: 002700 Year: 1998
109 % Trucks: 19
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0015
* 49 Structure Length: 195
51 Br. Rdwy. Width: 23.9
52 Deck Width: 25.0
* 47 Tot. Horz. Cl: 23.9
50 Curb/Sdewlk Width: 0.0/0.0
32 Approach Rdwy Width: 23
* 229 Shlder Width:
Rear Lt: 2.5 Type: 2 Rt: 2.5
Fwrd Lt: 2.5 Type: 2 Rt: 2.5
Pvment Width:
Rear: 28.0 Type: 2
Fwrd: 28.0 Type: 2
Intersection Rear: 0 Fwrd: 0
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"
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: 12.5
Deck Thick Approach: 0.0
246 Overlay Thickness: 2.5
211 Tons Structural Steel: 0.0
212 Year Last Painted: Sup: 0000 Sub: 1953

Ratings

66 Inventory Type: 2 Rating: 13
64 Operating Type: 2 Rating: 29
231 Calculated Loads
H-Modified: 14 1
HS-Modified: 22 1
Type 3: 18 1
Type 3s2: 33 1
Timber: 25 1
Piggyback: 00 0
261 H Inventory Rating: 10
262 H Operating Rating: 15
67 Structural Evaluation: 2
58 Deck Condition: 6
59 Superstructure Condition: 6
* 227 Collision Damage: 0
60A Substructure Condition: 5
60B Scour Condition: 6
60C Underwater Condition: 4
71 Waterway Adequacy: 6
61 Channel Protection Cond: 6
68 Deck Geometry: 2
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 8
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: 14
HS-Modified: 22
Type 3: 18
Type 3S2: 33
Timber: 25
Piggyback: 00
253 Notification Date: 0000
253 Fed Notify Date: 0000 2

THE LPA GROUP INCORPORATED
Transportation Consultants
5255 Triangle Parkway, Suite 300
Post Office Box 922115
Norcross, Georgia 30010
(770) 263-9118
FAX (770) 263-9145

September 12, 2000

Meeting notes from the September 8, 2000 concept meeting at the Thomaston archive building for projects: BRST-2692(12), BRST-030-1(25), and BRST-030-1(26).

Attendees:

Ted Cashin	GDOT – Consultant Design	(404) 463-6135
Andy Lindsey	GDOT – Area Engineer	(912) 931-2434
Katie Mullins	Office of Programming	(404) 651-7043
Kerry Gore	GDOT – Utilities	(706) 646-6552
Steven J. Blackston	GDOT – Traffic Operations	(706) 646-6560
Tom Montgomery	The LPA Group Incorporated	(770) 263-9118
Al Bowman	The LPA Group Incorporated	(770) 263-9118
David Henry	The LPA Group Incorporated	(770) 263-9118

Meeting Notes:

S.R. 39 over Talipahoga Creek, Project BRST-2692(12), is in a tangent section and no vertical realignment is anticipated. The detour for S.R. 39 will be designed for 45 mph. Typical sections for S.R. 39 shall be: two 12 ft. lanes with 10 ft. shoulders for the road and two 12 ft. lanes with 7 ft. shoulders for the bridge. LPA Group needs to verify existing right-of-way as 50 ft. or more. It was decided that the project needed to be divided into two projects for proper funding, because of the 52.4 sufficiency rating. One estimate will be for the cost of just the widening of the bridge and the second estimate will be for the total cost of the bridge replacement minus the cost of the widening. There are no anticipated environmental concerns.

Post meeting note: A revised inspection report shows a sufficiency rating of 42.0, therefore full replacement funding is appropriate.

S.R. 27 over Bladen Creek, Project BRST-030-1(25), is in a tangent section and the vertical realignment will need to be raised, due to the existing conditions do not meet speed design. The new bridge will be 20 – 30 ft. longer due to raising the grade 10 ft. Barrier wall will need to be used instead of guardrail for the detour. Slopes behind the guardrail will be 2:1. The project may need additional right-of-way, because of the fill slopes. There are no anticipated environmental concerns.

S.R. 27/US 280 over Lanahassee Creek, Project BRST-30-1(26), is in a tangent section and no vertical realignment is needed. LPA Group needs to confirm which side of the bridge the creek splits. If the detour is placed on the side of the split the detour bridge will have to be longer. Utility costs need to be changed to $45,000.

General Comments For All Projects:
The cover sheet and plans sheets need to be sent to Kerry Gore as soon as possible, so utility location can begin. Look at putting the detours on the opposite side of the utilities for all projects to avoid major conflicts. LPA Group needs to talk to Bill Rountree about using a 2 ft. paved shoulder instead of a 6 ft. paved shoulder. Sediment basins might be needed. If sediment basins are needed, place them in Temporary Easement. Add a trailer to each cost estimate. On the detour use a 6' dirt shoulder with no paved shoulder.

Post meeting note: Bill Rountree said to use the 2' paved shoulder.

This is our understanding of the concept meeting on September 8, 2000. If you have any further comments or questions please call (770) 263-9118.

David B. Henry, P.E.

The LPA Group Incorporated
5255 Triangle Parkway, Suite 300
Post Office Box 922115
Norcross, Georgia 30010

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE:

PROJECT CONCEPT REPORT SIGN OFF

S.R. 27/US 280 OVER LANAHASSEE CREEK

Project Number: BRST-030-1(26)
County: Webster
P. I. Number: 333165
Federal Route Number: 280
State Route Number: 27
County Road Number: N/A

Date of Report: September 26, 2000 Revised:

RECOMMENDATION FOR APPROVAL

This project concept is contained 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 STIP.

Date	State Transportation Planning Administrator
Date	State Environmental/Location Engineer
Date	District 3 Engineer / Thomaston
Date	Project Review Engineer
10/5/00 Date	Paul V. Liles Jr State Bridge & Structural Engineer

Project Location Map: See Page 2

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE:

PROJECT CONCEPT REPORT SIGN OFF

S.R. 27/US 280 OVER LANAHASSEE CREEK

Project Number: BRST-030-1(26)
County: Webster
P. I. Number: 333165
Federal Route Number: 280
State Route Number: 27
County Road Number: N/A

Date of Report: September 26, 2000 Revised:

RECOMMENDATION FOR APPROVAL

This project concept is contained 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 STIP.

10/9/00	Marta Rosen
Date	State Transportation Planning Administrator
Date	State Environmental/Location Engineer
Date	District 3 Engineer / Thomaston
Date	Project Review Engineer
Date	State Bridge & Structural Engineer

Project Location Map: See Page 2