

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0002840, Charlton County **OFFICE** Preconstruction
BR-0002-00(840)
Bridge Replacement **DATE** October 17, 2005

FROM *for* *John Kunkle*
Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

MBP/cj

Attachment

DISTRIBUTION:

Brian Summers
Harvey Keeper
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Babs Abubakari
Gary Priester
BOARD MEMBER

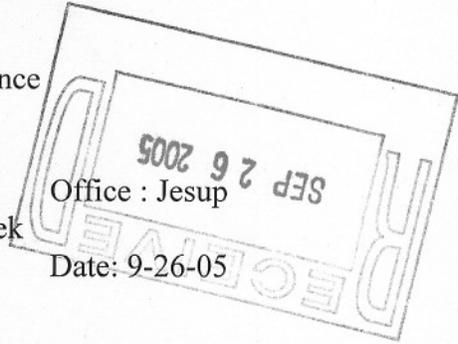
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

Interdepartmental Correspondence

File: BR-0002-00(840) Charlton County
Desc. Bridge Replacement on CR#3 at Sparkman Creek
P.I. No. 0002840

Office : Jesup

Date: 9-26-05



From: Gary D. Priester, District Engineer

To: Meg Pirkle, Asst. Director of Preconstruction

Subject: Revised Project Concept Report

Remarks:

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

The revision consists of changing two issues. The first being to reduce the speed design from 55 mph to 45 mph, to meet clear zone requirements listed in the Roadside Design Guide. The second issue is to change the Functional Classification from Rural Collector or Rural Minor Arterial to Rural Minor Collector. Both of these issues were brought up at the Preliminary Plan Review that took place on 9-7-05, therefore needing to be changed.

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

If there are any questions or if additional information is needed, please contact Rebecca Thigpen at (912) 427-5770 or e-mail at Rebecca.Thigpen@dot.state.ga.us.

DATE 9/26/05


State Transportation Planning Administrator

GP:ADO: ryt

Copies to:

Anthony Collins, Preconstruction Engineer
Dennis Odom, District Design Engineer
Brian Summers, Project Review Engineer
Harvey Keeper, State Environmental/Location Engineer
Keith Golden, State Traffic Safety and Design Engineer
Joe Palladi P.E., State Transportation Planning Administrator
Jamie Simpson, State Financial Management Administrator
Paul Liles, State Bridge Design Engineer (only for those projects that involve structures)
General File Unit, Atlanta
Jesup Files

REVISED PROJECT CONCEPT REPORT

Need and Purpose: This project is needed to replace a bridge with substandard load capacity, and deck geometry. The existing bridge was built in 1950. It is located on CR 3 over Sparkman Creek, has a sufficiency rating of 24.0, and was designed for H-10 live loading. Bridges with a rating under 50 and H-15 live loading do not meet current standards under TOPPS directive 2405-1. The existing bridge deck, which is 11' wide, will be replaced with a bridge which is 30' wide. This will meet the guidelines of TOPPS directive 4265-9.

The average annual daily traffic (AADT) on this section of roadway was 500 in 2002. 1 percent of the traffic volume is truck traffic. The projected AADT is 600 for the year 2007 and 900 for the design year 2027.

Project Location: The proposed location of the project is on County (dirt) Road 3 in Charlton County, 11 miles south of St. George, Georgia at Sparkman Creek. The approximate length of the bridge project is ½ mile long.

Description of the approved concept: The logic for establishing this termini is due to replacing the bridge, and reworking the shoulders and slopes to accommodate the guardrail. The new bridge will be constructed on a new alignment to the south of the existing bridge. Currently the road has been closed by the county due to the safety of the existing bridge. The concept proposes to satisfy the Need and Purpose by replacing a substandard load capacity and deck geometry bridge, while at the same time placing guardrail, and upgrading shoulders to accommodate guardrail.

PDP Classification:

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

Functional Classification: Rural Minor Collector

U.S. Route Number(s):None

State Route Number(s): None

Traffic (AADT) as shown in the approved concept:

Current Year: (2002) 500

Design Year:(2027) 900

Proposed features to be revised:

- The approved speed design for this project is 55 mph, and we are proposing to decrease the speed design to 45 mph.
- Functional Classification of Rural Collector or Rural Minor Arterial needs to be changed to Rural Minor Collector.

Describe the revised feature(s) to be approved:

- The speed design of 45 mph needs to be approved for this project due to clear zone issues. The current speed design of 55 mph calls for a clear zone of 20 ft from the edge of the proposed roadway. Due to the need to keep the Required Right of Way at a minimum along several of the parcels, a front slope of 10 feet is necessary. In these areas, the clear zone cannot be met, but by reducing the speed design, the clear zone will be achievable. Also, due to the road being in a residential area, there will not be a need for the posted speed to be any higher than 45 mph.
- The functional classification of this county dirt road should have been listed as a Rural Minor Collector, therefore requesting a change to the concept.

Updated traffic data (AADT): none

Programmed/Schedule:

PE 1/23/02

R/W: Local ~~Feb. 2006~~

Construction: 2006

Revised cost estimates:

1. Construction cost including inflation and E&C, (no change)
2. Right-of-way, and (no change)
3. Utilities (no change)

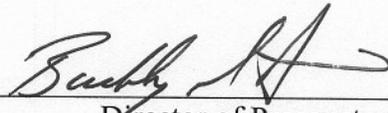
Is the project located in a Non-attainment area? ___ Yes X No.

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

Attachments:

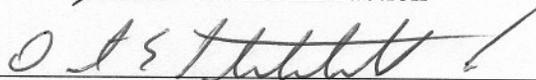
1. Sketch Map
2. Cost Estimate

Concur: _____



Director of Preconstruction

Approve: _____



Chief Engineer

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

**FILE: BR-0002-00(840) Charlton County
PI No.: 0002840**

OFFICE: Jesup

DATE: Feb 01, 2005

FROM Gary Priester, District Engineer

TO David Mulling, Project Review Engineer

SUBJECT REVISION TO PROGRAMMED COSTS

NO REVISION REQUIRED

PROGRAMMED COSTS:

- Construction Cost \$630,000
- Right-of-Way Cost
- Reimbursable Utility Cost

NEW COST ESTIMATES:

- Construction Cost* \$1,260,000
- Right-of-Way Cost
- Reimbursable Utility Cost

*Costs contain 10% E&C, and 0% for 0 years of inflation

Reasons why the costs changed:
Updated quantities

Attachment: Cost Estimate including estimate quantities and unit prices

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED
BRIDGE REPLACEMENT ON
C.R. 3 OVER SPARKMAN CREEK
CHARLTON COUNTY
FEDERAL AID PROJECT

BR-0002-00(840)



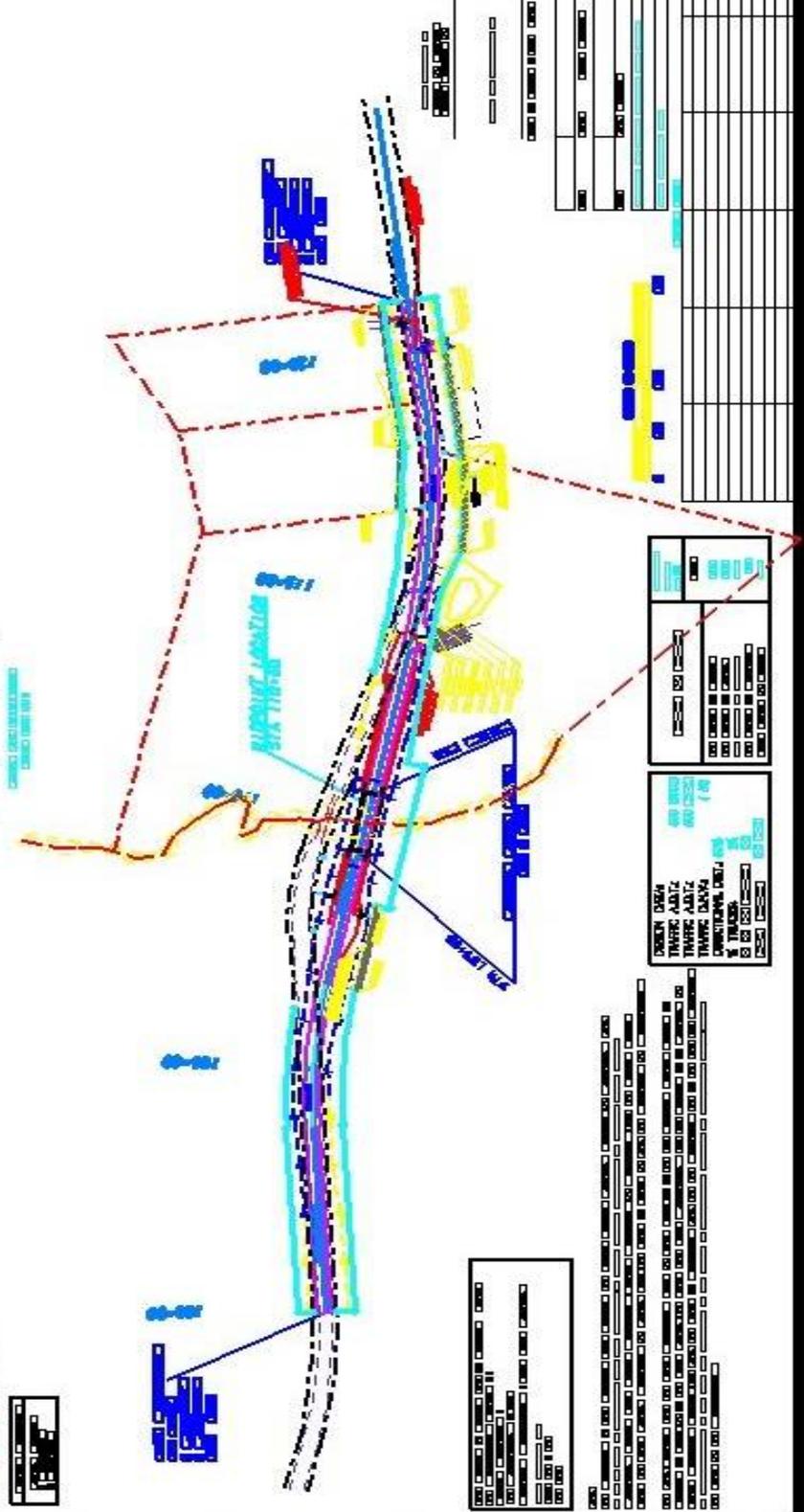
LOCATION MAP

PROJECT LOCATION

PROJECT LOCATION



SCALE



NO.	DESCRIPTION	DATE	BY	CHECKED
1	DESIGN	10/1/84	J. H. [unclear]	[unclear]
2	TRAFFIC ANALYSIS	10/1/84	[unclear]	[unclear]
3	TRAFFIC ANALYSIS	10/1/84	[unclear]	[unclear]
4	CONSTRUCTION DETAILS	10/1/84	[unclear]	[unclear]
5	AS BUILT	10/1/84	[unclear]	[unclear]
6	AS BUILT	10/1/84	[unclear]	[unclear]

NO.	DESCRIPTION	DATE	BY	CHECKED
1	DESIGN	10/1/84	[unclear]	[unclear]
2	TRAFFIC ANALYSIS	10/1/84	[unclear]	[unclear]
3	TRAFFIC ANALYSIS	10/1/84	[unclear]	[unclear]
4	CONSTRUCTION DETAILS	10/1/84	[unclear]	[unclear]
5	AS BUILT	10/1/84	[unclear]	[unclear]
6	AS BUILT	10/1/84	[unclear]	[unclear]

NO.	DESCRIPTION	DATE	BY	CHECKED
1	DESIGN	10/1/84	[unclear]	[unclear]
2	TRAFFIC ANALYSIS	10/1/84	[unclear]	[unclear]
3	TRAFFIC ANALYSIS	10/1/84	[unclear]	[unclear]
4	CONSTRUCTION DETAILS	10/1/84	[unclear]	[unclear]
5	AS BUILT	10/1/84	[unclear]	[unclear]
6	AS BUILT	10/1/84	[unclear]	[unclear]