

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

REVISED PROJECT CONCEPT REPORT

Project Number: BR000-0005-00(571)

County: Walker

P. I. Number: 0005571

Federal Route Number: N/A

State Route Number: 136

The original concept report indicated that traffic would be detoured via an on-site drainage structure and a temporary detour road constructed parallel and north of the existing bridge. However, due to the close proximity of an existing transmission tower this detour plan is no longer viable. Traffic will be detoured via an off-site detour.

Submitted for approval: (Submit to "Concept Reports" in Outlook)

DATE 2/8/10

Kari Ward, Street Smarts, Inc.
Design Consultant Name and Firm Name (if applicable)

DATE _____

Bobby Hilliard
Office Head (Project Manager's Office)

DATE 2/5/10

Kristal Stewart-Dixon
Project Manager

Recommendation for approval:

DATE 02/10/2010

Glenn Bowman / DRP*
State Environmental Administrator

DATE 02/10/2010

Paul Liles / DRP*
State Bridge Design Engineer (if applicable)

The 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).

DATE 2/16/2010

Paul J. Alford
State Transportation Planning Administrator

* APPROVAL ON FILE

REVISED PROJECT CONCEPT REPORT

Need and Purpose:

See attachment for approved Need and Purpose Statement

Project Location:

This project is the replacement of a structurally deficient bridge on SR 136 over W. Chickamauga Creek, 5.7 miles northwest of Lafayette, Georgia. The proposed bridge replacement will have a total length of approximately 1,650 linear feet, with the existing bridge located near the center of the project. The project is located in Walker County in the 10th U.S. Congressional District, in Land Lots 110, 111, 142, and 143 of the 8th District of the 4th Section of Walker County.

Description of the approved concept:

This project is the replacement of a structurally deficient bridge on SR 136 over W. Chickamauga Creek, 5.7 miles northwest of Lafayette, Georgia. The existing bridge, constructed in 1941, is load limited with a sufficiency rating of 32. State Route 136 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 136 is functionally classified as a rural major collector. Traffic is projected to be 3,000 VPD and 4,000 VPD in the years 2012 and 2032 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to construct a new 300' x 40' concrete bridge over W. Chickamauga 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.

PDP Classification: Minor Project

Federal Oversight: Exempt

Functional Classification: Rural Major Collector

U.S. Route Number(s): N/A

State Route Number(s): 136

Traffic (AADT) as shown in the approved concept:

Base Year (2012): 3,000 VPD

Design Year (2032): 4,000 VPD

Updated traffic data (AADT):

Base Year (2013): 3,050 VPD

Design Year (2033): 4,050 VPD

Approved Programmed/Schedule:

P.E.: 2005

R/W: 2008

Construction: LR

VE Study Required: No

Benefit/Cost Ratio: N/A

Is the project located in an Ozone Non-attainment area? No

Is the project in a PM 2.5 Non-attainment area? No

Approved Features:	Proposed Features:
Traffic will be detoured via an on-site drainage structure and temporary detour road constructed parallel and north of the existing bridge.	Traffic will be detoured via an off-site detour.
Reason for Change: Due to the close proximity of an existing transmission tower the on-site detour plan is no longer viable.	

Updated Cost Estimate	
Construction including Contingencies	\$2,249,778.70
Fuel Adjustment	\$56,054.45
Right-of-Way	\$150,000.00
Utilities (reimbursable)	\$905,441.00
Utility Contingencies	\$271,632.30

Recommendation:

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

Attachments:

1. Need and Purpose Statement
2. Sketch Map

Concur:


Director of Engineering

Approve:


Chief Engineer

3/16/2010

Date

NEED AND PURPOSE
PROJECT BR-0005-00(571), WALKER COUNTY
PI 0005571
BRIDGE REPLACEMENT
SR 136 OVER CHICKAMAUGA CREEK

Project Information

Project BR-0005-00(571) will provide for the replacement of a bridge on SR 136 over Chickamauga Creek in Walker County. The bridge is located 5.7 miles southwest of Lafayette.

Bridge Replacement Justification

The bridge meets GDOT's policy 2405-1 requirements to be replaced. The policy allows bridges with a sufficiency rating below 50 and on the Highway Bridge Replacement Rehabilitation Program (HBRRP) list to be replaced. The bridge is on the required HBRRP list, and the bridge has a sufficiency rating of 32.17.

Traffic Information

The AADT along SR 136 at the bridge was 2,460 in 2003 and is expected to be 3,200 AADT by 2030. The LOS along this section of roadway was B in 2003 and is expected to remain LOS B through 2030.

Local and State Transportation Plan

Other transportation plans were also reviewed to determine their involvement with the proposed bridge project. SR 136 is not a part of the GDOT's Statewide Bicycle Plan. The route, however, is on a school bus route. The bridge project lies within the area of Project STP-184-1(6). Under Project STP-184-1(6), passing lanes will be added along SR 136 at various locations (see table below). Passing lanes will not be located on the bridge. The bridge project can be constructed independently of the passing lane project.

	Project #	Type of Work	Description	PE	ROW	CST
STP-184-1(6)	621650	Passing Lane	SR 136 - EB MP 21.4-22.8- 25.7-26.6 WB 4.12-5.22- 26.6-28.0	1992	LR	LR

Demographics

Project BR-0005-00(571) lies within Census Tracts 205.02 and 208. The total population in census tract 205.02 is 5,592 persons, 2.1% of the population is Black and 0.6% is Hispanic. There are 1,670 families living in this census tract and about 4.4% of the families live below the poverty level. The total population in census tract 208 is 3,015 persons, 8.4% of the population is Black and 0.5% is Hispanic. There are 1,138 families living in this census tract and about 12.2% of the families live below the poverty level. Land use in the area is mix residential, commercial, and manufacturing.

SITE LOCATION MAP

