# PRELIMINARY BRIDGE REPLACEMENT REPORT 

Financial Project ID: 413478-1-32-01
CR 375 over Syfrett Creek
Bridge No. 590018
Section No. 59050000

## Wakulla County



FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT III

Prepared By
PBS
General Consultant

July 2009

## INTRODUCTION

The field review for CR 375 over Syfrett Creek (Bridge No. 590018) was conducted on Thursday, July 30, 2009. This review was conducted to identify project specific design and construction issues and to establish the required scope of work to replace the existing bridge. FDOT Design, Area Construction, DEMO and Drainage were represented. PBS\&J Project Management, PBS\&J Utilities and Wakulla County Public Works were also represented. The following persons attended:

## Attendees:

Jim Joyner - FDOT, Area Construction, Midway - (850) 922-1963
Joe Nalley- FDOT, Area Construction, Midway - (850) 922-1967
Greg Rogers - FDOT, Design, Chipley - (850) 415-9755
Tracey Ludyjan-Ybarra - FDOT, DEMO Permits, Chipley - (850) 415-9506
Doug Carlisle - FDOT, Drainage, Chipley - (850) 415-9493
J.C. Spivey - FDOT, Design, Chipley - (850) 415-9467

Thomas Rogers - FDOT, Drainage, Chipley - (850) 415-9598
Brent Pell - Wakulla County Public Works - (850) 926-9055
Don Kemp - Wakulla County Public Works - (850) 926-7616
Brian Harvey - Wakulla County Public Works - (850) 510-8313
Mike King - Wakulla County Public Works
Cleve Fleming - Wakulla County Public Works - (850) 926-3157
Todd Baldwin - Wakulla County Public Works - (850) 926-7616
Traci Adkison - PBS\&J, Utilities, Tallahassee - (850) 528-3400
Kevin Smith - PBS\&J, Intern, Chipley - (850) 638-2288
Kerrie Harrell - PBS\&J, Project Management, Chipley - (850) 638-2288

## Project Description

The project consists of replacing the existing structurally deficient concrete bridge on CR 375 over Syfrett Creek (No. 590018). The roadway approaches should be resurfaced to the extent of the new guardrail or to the on-site diversion tie-ins as appropriate. The new bridge typical section is anticipated to include two 12' travel lanes, minimum shoulder widths per the PPM and Type F barrier railing.

This site will require an on-site diversion with a temporary bridge or a new alignment parallel to the existing bridge. At the time of the field review several spans of the bridge deck had shifted horizontally 4" to 5 " out of alignment. The substructure also appeared to be in poor condition due to leaning piles and a pole wedged between bent caps for lateral support.

Right-of-way acquisition is anticipated for this project. Wakulla County Public Works indicated the Forestry Service is supportive of this bridge replacement project and will likely provide the needed right-of-way as quickly as possible.

## Project Location

The project is located in southwest Wakulla County west of the City of Sopchoppy. The project will begin approximately 200' west of the existing bridge (CMP 6.415) and end approximately 200' east of the existing bridge (CMP 6.514). The overall project length is approximately 0.099 miles. The location of the project is shown on the Project Location Map.

## Wakulla County Bridge Replacement FDID 413478-1-32-01 <br> CR 375 over Syfrett Creek BR. 590018



## FIELD OBSERVATIONS AND PRELIMINARY INFORMATION

## GENERAL

- $\quad$ The existing concrete bridge has a 20 ' wide clear roadway width and is 120 long. The posted load limit is 12 tons.
- $\quad$ The existing paved roadway is approximately 20 wide.
- This site will require an on-site diversion with a temporary bridge or a new alignment parallel to the existing bridge. The roadway does not appear to have a significant amount of daily traffic, however it is one of only a few roadways through the National Forest in this area.
- $\quad$ The existing right-of-way is 50 left and right of the centerline (100' total). Right-of-way acquisition is anticipated for this project due to the on-site diversion.
- The only utility in the area is located along the south side of the bridge. Telephone is overhead crossing the creek and underground thereafter. Utility impacts are anticipated.
- $\quad$ The Department has requested a TIIFT determination for this project. (Tracey LudyjanYbarra, DEMO Permitting)
- Wakulla County Public Works requested that this bridge be replaced as soon as possible due to the poor condition of the bridge (Brent Pell, Wakulla County)
- CR 375 is a main evacuation route for the area since there are limited north/south routes through the forest. (Brent Pell, Wakulla County)
- Wakulla County Public Work indicated the Forestry Service will support and encourage immediate replacement of the bridge due to their need to transport equipment in the area. The forestry contact is Kathy O’Brian, Federal Forestry Engineer. Since the property on the north and south side of the bridge appears to be forestry land, a reduced time for right-of-way procurement may be achievable.



## Photo 1

Looking west from approximately 100' east of the bridge.

Note: The bridge is posted at 12 tons.


Photo 2

Looking east at the eastern roadway approach from approximately 100' east of the bridge.


## Photo 3

Looking west along the south side of the bridge. The majority of the land on the south side of the roadway appears to be floodplain.


## Photo 4

Looking west at the bridge.


## Photo 6

Looking west along the north side of the bridge. Notice the misalignment of the curb. Several spans have shifted 4" to 5 " on this bridge.


## Photo 7

Looking east at the bridge.


## Photo 8

Looking west at the western roadway approach from approximately 100' west of the bridge. A horizontal curve is located west of the bridge.


## Photo 9

Looking east along the south side of the bridge at the overhead telephone crossing the creek.


## Photo 10

Looking east from the western roadway approach to the bridge.


## Photo 11

Looking east at a driveway taper just west of the bridge. It does not appear to be utilized very often.


Photo 12
Looking north at the substructures of the bridge. Notice the crutch bents and crooked piles.


## Photo 13

Looking north at one of the spans where a pipe strut has been placed between the bent caps to longitudinally support the bents.


## Photo 14

Looking south at the overhead telephone pole. Buried telephone goes overhead at this location adjacent to the southwest corner of the bridge. This is the only utility observed on the field review.


