



ENVIRONMENTAL RE-EVALUATION FORM

FHWA South Carolina

State File # 11.04025

Fed Project # BR11(032)

Project ID 040205_B

Route S-41

County Cherokee

Project Name/Description

The proposed project involves the replacement of the Beech Street (S-41) bridge over Peoples Creek in Gaffney in Cherokee County. The purpose of the project is the replacement of the existing structurally deficient bridge. The existing steel beam and concrete deck bridge will be replaced with a modern single span bridge measuring 42.5 feet wide and 41 feet long and having a 40-foot clear roadway width. See original CE-B document (attached) for additional project info.

1. DOCUMENT TYPE:

☐ EIS ☐ EA ☒ CE

A. Other Actions Associated with the Project:

- ☐ Section 4(f) Evaluation
☐ Section 106 Compliance
☐ Wetland Finding/Section 404 Compliance
☐ T & E Species Biological Assessment
☐ None

2. FHWA DOCUMENT APPROVAL DATE:

10/5/2011

3. DATE(S) OF PRIOR RE-EVALUATIONS:

4. PROJECT DEVELOPMENT STAGE:

- ☐ Final Design
☐ ROW
☐ Construction
☐ Other, Specify

5. HAS DESIGN OR ROW CHANGED SINCE THE LAST APPROVAL?:

(if "NO" then Go To Item 7)

☐ YES ☒ NO

6. DESCRIPTION OF CURRENT PROJECT/DESIGN CHANGES:

No project/design changes. This reevaluation is to update the original CE-B (10/5/11). The project will be subject to the following updated requirements of the Migratory Bird Act: The Department will comply with the Migratory Bird Treaty Act of 1918 in regard to the avoidance of taking of individual migratory birds and the destruction of their active nests. Prior to construction/demolition of the bridges the district personnel/contractor will coordinate with SCDOT Environmental Management Office to determine if there are any active nests on the bridge. After this coordination, it will be determined whether construction/demolition can begin. After construction/demolition has begun, measures can be taken to prevent birds from nesting, such as netting, noise producers, and etc. If during construction or demolition a nest is observed on the bridge that was not discovered during the biological surveys, the contractor will cease work and immediately notify the SCDOT Environmental Management Office. SCDOT biologists will determine whether the nest is active and the species utilizing the nest. After this coordination, it will be determined whether construction/demolition can resume or whether a temporary moratorium will be put into effect.

7. HAVE THERE BEEN SIGNIFICANT CHANGES IN THE AFFECTED ENVIRONMENT OR HAVE THE ENVIRONMENTAL STUDIES BEEN UPDATED SINCE THE LAST PROJECT APPROVAL?: (If "NO" to both Items 5 and 7, Go To Item 10)

☐ YES☒ NO

8. APPROVED DOCUMENT(S) RE-EVALUATION:

A. REVIEW OF EFFECTS: (Complete this section if "YES" to either Item 5 or Item 7)

SOCIAL ENVIRONMENT

CHANGE

REMARKS

1. Land Use	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
2. Community	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
3. Relocations	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
4. Churches/Institutions	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
5. Title VI/E.O. 12898	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
6. Economic	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
7. Controversy	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
8. Other; Specify	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

NATURAL ENVIRONMENT

CHANGE

REMARKS

1. Wetlands	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
2. Water Quality	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
3. Wild/Scenic Rivers	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
4. Farmland	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
5. T & E Species	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
6. Floodplains	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
7. Other; Specify	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

PHYSICAL ENVIRONMENT

CHANGE

REMARKS

1. Noise	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
2. Air Quality	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
3. Energy/Mineral Resources	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
4. Construction/Utilities	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
5. UST's	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
6. Hazardous Waste Sites	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
7. Other; Specify	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CULTURAL ENVIRONMENT	CHANGE	REMARKS
1. Historic Sites	<input type="checkbox"/> YES <input type="checkbox"/> NO	<div style="border: 1px solid black; height: 15px;"></div>
2. Archaeological Resources	<input type="checkbox"/> YES <input type="checkbox"/> NO	<div style="border: 1px solid black; height: 15px;"></div>
7. Other; Specify	<input type="checkbox"/> YES <input type="checkbox"/> NO	<div style="border: 1px solid black; height: 15px;"></div>

PERMITS	CHANGE	REMARKS
1. U.S. Coast Guard	<input type="checkbox"/> YES <input type="checkbox"/> NO	<div style="border: 1px solid black; height: 15px;"></div>
2. Forest Service/USACE/USFWS Land	<input type="checkbox"/> YES <input type="checkbox"/> NO	<div style="border: 1px solid black; height: 15px;"></div>
3. Section 404	<input type="checkbox"/> YES <input type="checkbox"/> NO	<div style="border: 1px solid black; height: 15px;"></div>
4. Other; Specify	<input type="checkbox"/> YES <input type="checkbox"/> NO	<div style="border: 1px solid black; height: 15px;"></div>

Have the required permits been obtained? ☐ YES ☐ NO

If "YES" what is the expiration date?

***If permits have expired, permits will need updated and attached to re-evaluation.**

9. NEED FOR PUBLIC INVOLVMENT:

☐ A public hearing/public information meeting was held for the project on:

☐ There have been no changes in project design or environmental effects which would require a public hearing [or additional public hearing if one has already been held] or public information meeting.

☐ The change(s) in project design and/or effects require(s) an additional public hearing/public information meeting. The meeting is scheduled for:

10. FINDINGS/CONCLUSIONS:

☐ Based on the analysis contained in this re-evaluation, it has been determined that the change in project design and/or environmental effects would not significantly alter the conclusions reached in the approved environmental document and/or previous re-evaluation(s).

☒ There have been no changes in the design/ROW of this project nor have there been changes in project effects or the affected environment. Therefore, the conclusions reached in the approved environmental document and/or previous re-evaluation(s) remain valid.

Prepared By:	<div style="border: 1px solid black; padding: 2px;">David P. Kelly </div>	Date:	<div style="border: 1px solid black; padding: 2px;">11/17/2014</div>
Concurred (FHWA):	<div style="border: 1px solid black; height: 20px;"></div>	Date:	<div style="border: 1px solid black; height: 20px;"></div>



TO: David Kelly, NEPA Coordinator – RPG 4

FROM: Ed Frierson, NEPA Coordinator/Biologist

DATE: November 14, 2014

SUBJECT: Review of Original Permit Determination and Biological Assessment for S-41 Bridge Replacement over Peoples Creek in Cherokee County for the Environmental Re-evaluation, PIN 40205, File No. 11.040205

I reviewed the original permit determination (dated Sept. 30, 2011) and biological assessment (dated December 1, 2010) for the above referenced project and determined that both are still valid, due to no changes in the project scope and no new species added to the USFWS endangered species list for Cherokee County, South Carolina since the survey was completed. Therefore, neither of these studies need to be updated for the Environmental Re-evaluation. I do recommend however, adding the commitment regarding compliance with Migratory Bird Treaty Act to the Re-evaluation since this is a bridge project and during the original initiation of the project, it does not appear that this commitment was included in the document.

**Biological Assessment for Road S-41 Bridge Replacement in
Cherokee County, South Carolina**

Prepared by: Ed Frierson, SCDOT Biologist

Pursuant to Section 7 of the Endangered Species Act a field survey was conducted on the proposed new right of way. The following list of endangered (E) and threatened (T) species was obtained from the U. S. Fish and Wildlife Service:

PLANTS

Dwarf-flowered heartleaf – *Hexastylis naniflora* – (T)

METHODS

The project area was examined by reconnaissance methods on December 1, 2010. Habitats surveyed were determined by the species' ecological requirements.

RESULTS

The improvements will require primarily upland hardwood forested areas and will traverse Peoples Creek. One small area of cleared grassland would be impacted.

No habitat for heartleaf was located in the proposed project corridor.

Based on the lack of suitable habitat and no observations of the listed species during the field survey, the proposed action will not affect any threatened or endangered species or critical habitats currently listed by the USFWS for Cherokee County.

Date: Sept. 30, 2011

MEMORANDUM

FROM Ed Frierson COMPANY SCDOT

PRIME CONSULTANT _____ Contact Person _____

SUB CONSULTANT _____ Contact Person _____

SCDOT PROJECT ENGINEER Rob Perry

TO: Sean Connolly, Environmental Permits Manager

SUBJECT: Permit Determination

Project Description: Bridge replacement over Peoples Creek

Route or Road No.: 5-41 County: Cherokee

CONST. PIN 40205 OTHER PINS or STRUCTURE # _____

Response: RD01

(☒) It has been determined that no permits are required because

No wetlands or waterways would be impacted.

() The following permit(s) is/are necessary:

(Please check which type(s) of permit the project will need)

___ JD (Jurisdictional Determination) ___ COEGP ___ ICOE ___ NAVGP

___ NAV ___ OCRM (CZC) ___ OCRM (CAP) Other _____

Water Classification: _____

303(d) listed () no () yes, for _____ TMDL developed () no () yes, for _____

Comments: _____

The determination above was based on the most recently available information at the time. This is a preliminary determination and is subject to change if the design of the project is modified.

Ed Frierson
Biologist, SCDOT/Consultant

9-30-11
Date

BRIDGE REPLACEMENT SCOPING TRIP RISK ASSESSMENT FORM

COUNTY: _____

DATE: _____

ROAD #: _____

STREAM CROSSING: _____

Purpose & Need for the Project:

I. FEMA Acknowledgement

Is this project located in a regulated FEMA Floodway? ☐ Yes ☐ No

Panel Number: _____ Effective Date: _____ (See Attached)

II. FEMA Floodmap Investigation

FEMA Flood Profile Sheet Number _____ illustrates the existing 100 year flood:

- ☐ Passes under the existing low chord elevation.
- ☐ Is in contact with the existing low chord elevation.
- ☐ Overtops the existing bridge finished grade elevation.

III. No Rise/CLOMR Preliminary Determination

- ☐ Preliminary assessment indicates this project may be constructed to meet the "No-Rise" requirements. A detailed hydraulic analysis will be performed to verify this assessment.

Justification:

- ☐ Preliminary assessment indicates this project may require a CLOMR/LOMR. Impacts will be determined by a detailed hydraulic analysis.

Justification:

BRIDGE REPLACEMENT SCOPING TRIP RISK ASSESSMENT FORM

IV. Preliminary Bridge Assessment

A. Locate Existing Plans

a. Bridge Plans ☐ Yes File No. _____ Sheet No. _____ (See Attached)
☐ No

b. Road Plans ☐ Yes File No. _____ Sheet No. _____ (See Attached)
☐ No

B. Historical Highwater Data

a. USGS Gage ☐ Yes Gage No. _____ Results: _____
☐ No

b. SCDOT/USGS Documented Highwater Elevations
☐ Yes Results: _____
☐ No

c. Existing Plans ☐ Yes See Above
☐ No

V. Field Review

A. Existing Bridge

Length: _____ ft. Width: _____ ft. Max. span Length: _____ ft.

Alignment: ☐ Tangent ☐ Curved

Bridge Skewed: ☐ Yes ☐ No Angle: _____

End Abutment Type: _____

Riprap on End Fills: ☐ Yes ☐ No Condition: _____

Superstructure Type: _____

Substructure Type: _____

Utilities Present: ☐ Yes ☐ No

Describe:

Debris Accumulation on Bridge: Percent Blocked Horizontally: _____ %
Percent Blocked Vertically: _____ %

Hydraulic Problems: ☐ Yes ☐ No

Describe:

BRIDGE REPLACEMENT SCOPING TRIP RISK ASSESSMENT FORM

V. Field Review (cont.)

B. Hydraulic Features

a. Scour Present: ☐ Yes ☐ No Location: _____

b. Distance from F.G. to Normal Water Elevation: _____ ft.

c. Distance from Low Steel to Normal Water Elev.: _____ ft.

d. Distance from F.G. to High Water Elevation: _____ ft.

e. Distance from Low Steel to High Water Elev.: _____ ft.

f. Channel Banks Stable: ☐ Yes ☐ No

Describe:

g. Soil Type: _____

h. Exposed Rock: ☐ Yes ☐ No Location: _____

i. Give Description and Location of any structures or other property that could be damaged due to additional backwater.

C. Existing Roadway Geometry

a. Can the existing roadway be closed for an On-Alignment Bridge Replacement

☐ Yes ☐ No

Describe:

If "yes", does the existing vertical and horizontal curves meet the proposed design speed criteria?

If "No", will the proposed bridge be:

☐ Staged Constructed

☐ Replaced on New Alignment

BRIDGE REPLACEMENT SCOPING TRIP RISK ASSESSMENT FORM

VI. Field Review (cont.)

A. Proposed Bridge Recommendation:

Length: _____ ft. Width: _____ ft. Elevation: _____ ft.

Span Arrangement: _____

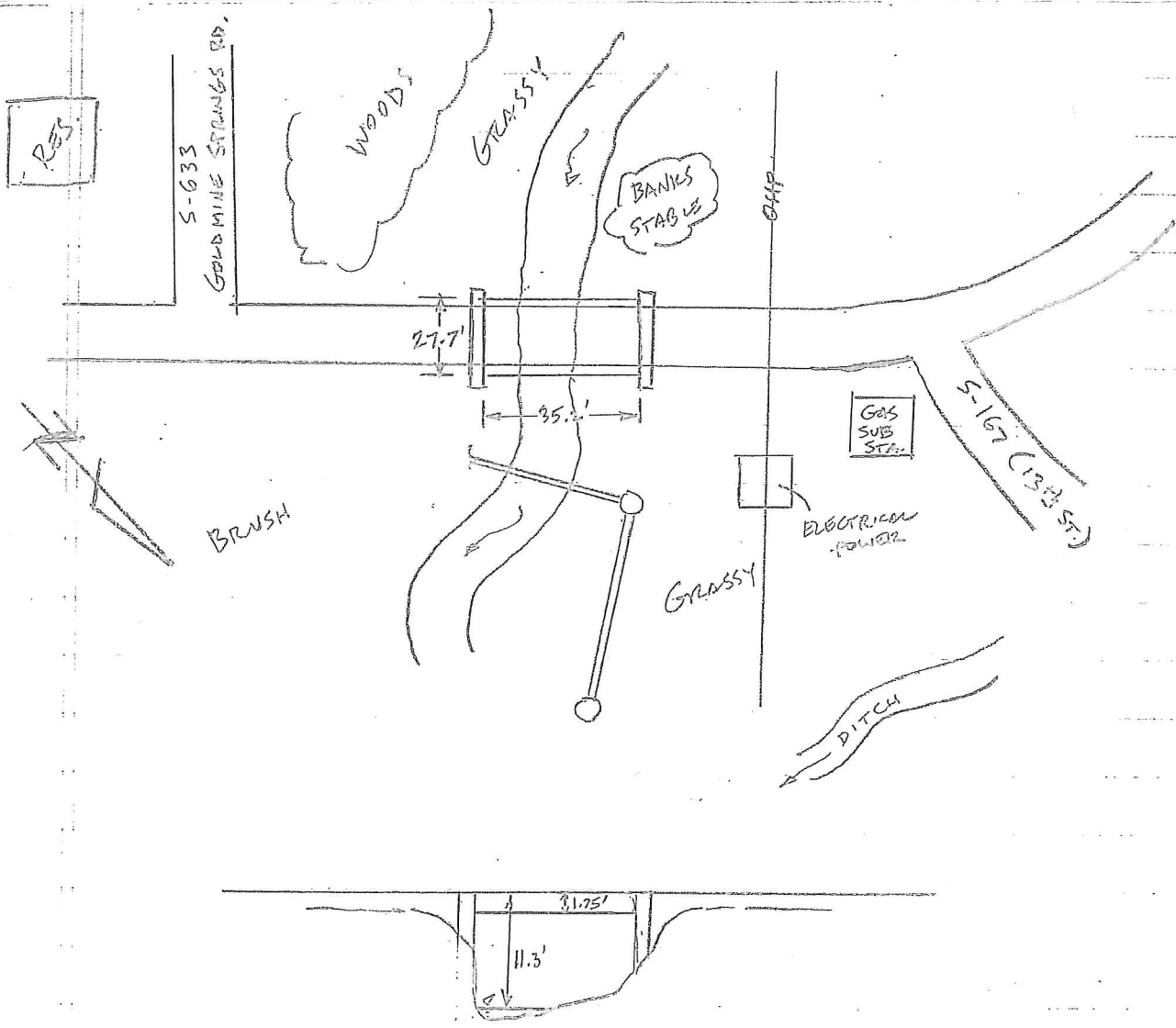
Notes: _____

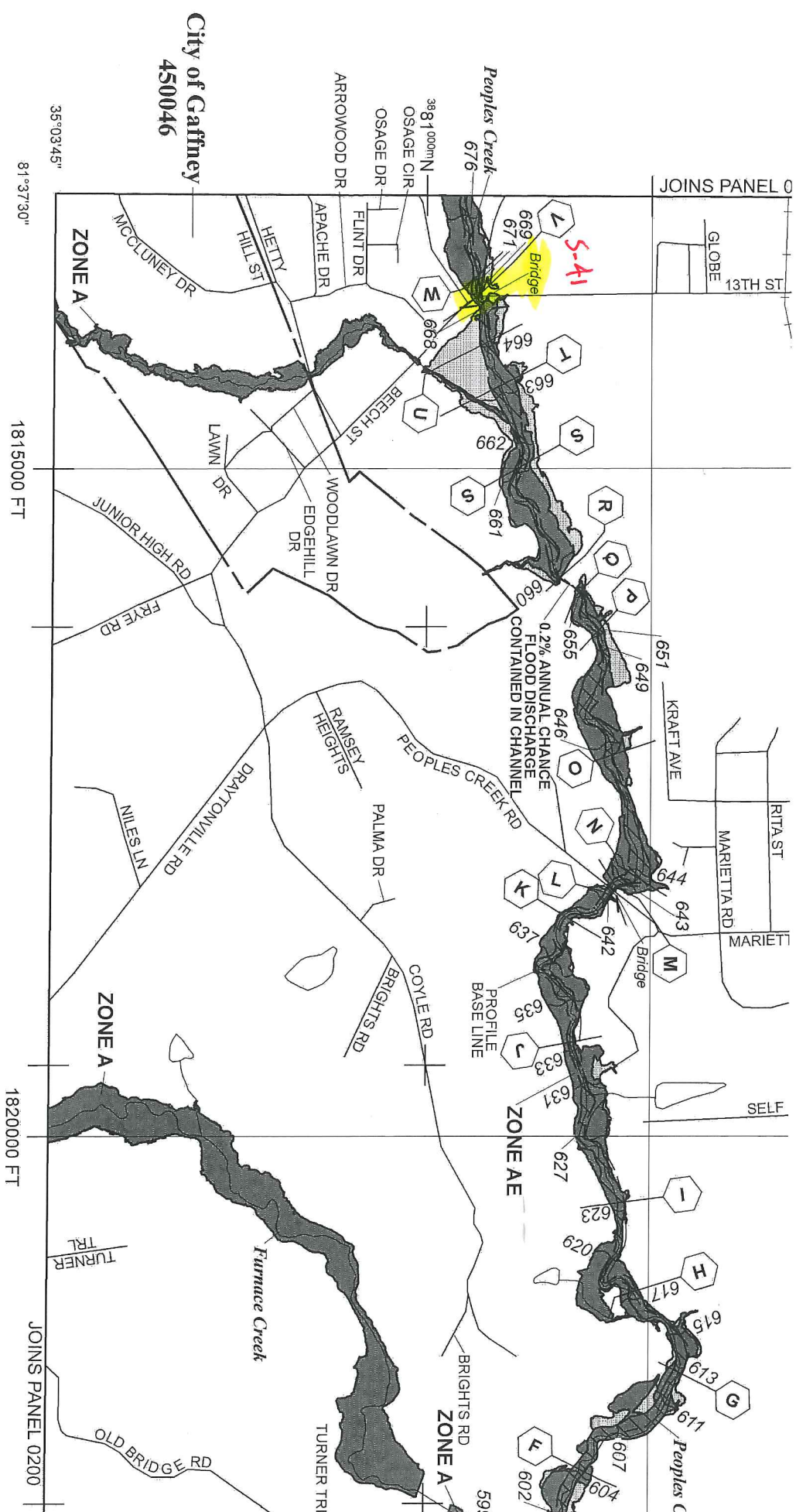
BRIDGE SITE DIAGRAM: (Show North Arrow and Direction of Flow)

See next page

Performed By: _____

Title: _____





FIRM PANEL
4502160180D

CHEROKEE COUNTY COUNCIL

210 NORTH LIMESTONE STREET
GAFFNEY, SOUTH CAROLINA 29340-3136

TELEPHONE (864) 487-2560
TELEFAX (864) 487-2594

COUNTY COUNCIL:

Dist. 1 RUFUS H. FOSTER, JR., VICE-CHAIRMAN
Dist. 2 MIKE FOWLKES
Dist. 3 QUAY LITTLE
Dist. 4 TIM SPENCER, CHAIRMAN
Dist. 5 CHARLES MATHIS, JR.
Dist. 6 HOKE PARRIS
Dist. 7 TRACY A. MCDANIEL

CLERK TO COUNCIL
DORIS PEARSON



INTERIM COUNTY ADMINISTRATOR
BEN L. CLARY

ASSISTANT COUNTY ADMINISTRATOR
HOLLAND BELUE

September 22, 2011

Mr. Mark Hammond
Hydraulic Design Engineer
S. C. Department of Transportation
955 Park Street – Room 216
Columbia, S. C. 29202

Re: Bridge replacement on Rd. S-41 (Beech Street)
over Peoples Creek

Dear Mr. Hammond:

I am very much aware of the condition of the above referenced bridge and its need for replacement.

I am also in receipt of your letter of September 20, 2011 and a copy of the Hydraulic Analysis Report and "No Impact" certification of this project.

The appropriate staff personnel along with myself have reviewed this report to the best of our knowledge and we do in fact concur with your "No Impact" submittal.

If I can be of any further assistance in this matter, please do not hesitate to call me.

Sincerely,

A handwritten signature in blue ink, which appears to read "Ben L. Clary", is written over the word "Sincerely,".

Ben L. Clary
Administrator
Cherokee County

BLC:jmp
CC: File



South Carolina Department of Transportation
On Behalf of the Federal Highway Administration - South Carolina Division Office



PROCESSING FORM FOR PROGRAMMATIC CATEGORICAL EXCLUSIONS
NON MAJOR FEDERAL ACTIONS

State File #	11.040205	Fed Project #	BR11(032)	PIN	040205_BR11	Route	S-41	County	Cherokee
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Programmatic Type: CE-B

Project Name/Description

The proposed project involves the replacement of the Beech Street (S-41) bridge over Peoples Creek in ~Gaffney in Cherokee County. The purpose of the project is the replacement of the existing structurally deficient bridge. The existing steel beam and concrete deck bridge, built in 1930 and reconstructed in 1951, has a sufficiency rating of 14.2. The existing bridge measures 37 by 24 feet. It will be replaced with a modern single span bridge measuring 42.5 feet wide and 41 feet long and having a 40-foot clear roadway width. The present bridge is not eligible for the National Register of Historic Places and there are no historic properties affected (see attached SHPO concurrence). The bridge is located in an urban environment. No wetlands or waterways will be impacted (see attached Permit Determination). The Department's Hydraulic Analysis and "No Impact" Certification (see attached) indicates that there will be no impact on the FEMA floodplain. The existing roadway right of way is unverifiable, but from property lines appears to be vary between about 48 feet (24 feet each side) and 66 feet (33 feet each side). New right of way of 150 feet (75 feet each side) will be obtained in the immediate vicinity of the bridge for a maximum length of 195 feet plus a 30 foot sight triangle at 13th Street. The present traffic volume of Beech Street is 3,000 (year 2012) and the future traffic volume is 4,200 (year 2032). The proposed project costs are estimated at \$1,800,000.

Categorical Exclusion Type B (Conditional Programmatic)

Projects of the type listed below would not automatically fall under the same programmatic clearance as the CE Type A. The regulations in 23 CFR Part 771.117(d) list additional types of projects which can meet the CE criteria only after FHWA approval. Several of these projects have been approved to be processed programmatically by FHWA-SC if certain conditions are met. These types are listed below.

Check appropriate project type:

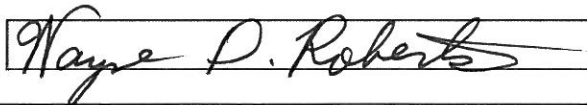
- ☐ Safety projects including but not limited to: placement of traffic barrier; energy attenuators; grading of slopes or gore areas to eliminate the need for guardrail, improve the clear zone, improve curves, or improve sight distance/removal of fixed objects such as boulders or trees; lighting; glare screens; delineators; and safety modification of drainage structures.
- ☐ Pavement resurfacing, restoration, rehabilitation, and reconstruction projects including related shoulder and ditch work.
- ☐ Traffic operation type projects including but not limited to: freeway surveillance and control systems; intersection channelization; turn lanes, acceleration or deceleration lanes; construction, modification or elimination of curbs, raised dividers or sidewalks; and widening less than a single lane width.
- ☒ Bridge and culvert rehabilitation work and bridge replacement at the same location.

To be processed as a Categorical Exclusion Type B (CE-B) the following conditions must be met in addition to the General Criteria (as outlined in the CE Programmatic Agreement (PA) between FHWA-SC and SCDOT). Place a "X" in the appropriate box below. If the answer is "Yes" to any of the below criteria, a Documented Categorical Exclusion (CE-C) must be prepared and forwarded to FHWA for approval.

1.	The acquisition of more than minor amounts of temporary or permanent strips of right-of-way and the acquisition will not require any residential or business relocations.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2.	Use of Section 4(f) or 6(f) properties.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
3.	An adverse effect determination under Section 106 of the National Historic Preservation Act.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
4.	Individual U.S. Coast Guard Permits.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5.	Individual Corps of Engineer Permits, or an impact greater than three (3) acres of wetlands. a. Wetland impacts (acres): <input type="text"/>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6.	Impacts to planned growth or land use, or significant impacts on travel patterns.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7.	Work encroaching in a regulatory floodway, adversely affecting the base floodplain, or potentially adversely affecting a National Wild and Scenic River.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
8.	Changes in access control.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
9.	Any known or potential major hazardous waste sites within the right-of-way.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

The above described project has been reviewed based on the information contained in the engineer's Project Planning Report (PPR) and it has been determined that the project meets the criteria set forth in the Programmatic Categorical Exclusion Agreement signed by FHWA and SCDOT. It is understood that any additions/deletions to the project may void environmentally processing the project as presently classified; consequently, any engineering changes must be brought to the attention of the SCDOT Environmental Management Office (EMO) immediately. The project's CE classification should be shown in the remarks section on the Letter of Request for Authorization Form (PS Form 39) for right-of-way and/or construction for concurrence by FHWA. A copy of this form is included in the project file and one (1) copy has been provided to FHWA.

Prepared By:


Date

PPMS:

☒ Yes☐ No

Roberts, Wayne D

From: Kelly, David <KELLY@SCDAH.STATE.SC.US>
Sent: Tuesday, October 04, 2011 10:34 AM
To: Roberts, Wayne D
Subject: RE: S-41/Beech Creek Bridge Replacement

Hello Wayne--

I concur with your recommendations below. Let me know if you need anything else.

David P. Kelly

*Department of Transportation Coordinator
National Register Survey Coordinator*

South Carolina Department of Archives and History
8301 Parklane Road
Columbia, SC 29223
Phone (803) 896-6184
Fax (803) 896-6167

From: Roberts, Wayne D [mailto:RobertsWD@dot.state.sc.us]
Sent: Monday, October 03, 2011 2:39 PM
To: Kelly, David
Subject: S-41/Beech Creek Bridge Replacement

David,
The Department proposes to replace the S-41/Beech Creek Bridge in the City of Gaffney, Cherokee County. Attached is some project information, location maps, the National Bridge Inventory Structure Inventory and Appraisal Report, and a photograph of the bridge. The bridge is a steel stringer and cast-in-place concrete deck bridge. It was built in 1930 and reconstructed in 1951. This bridge type is not usually eligible for the National Register of Historic Places (NRHP) and was not found significant or worthy of additional investigations by the Statewide Bridge Survey conducted by Lichtenstein. I do not think the bridge is eligible for the NRHP. The bridge is being replaced on the same location. The area was walked by me in July 2010 and June 2011. I do not recommend an intensive archaeological survey. There is little new right of way. The area of new right of way includes the creek itself; low wet areas alongside the creek; disturbances from existing Beech Street (S-41), 13th Street (S-167), and Goldmine Springs Road (S-633); and a large natural gas pipeline, a water line, and sanitary sewer line. For those reasons, an intensive archaeological survey was thought to be impractical. No additional investigations are recommended. Do you concur with these recommendations?
Wayne

PROJECT PLANNING REPORT TRANSMITTAL

Date August 11, 2010

MEMORANDUM TO: Environmental Manager

Project: S-41 (Beech Street) Bridge Replacement over Peoples Creek

Pin: 040205PE01, 040205BR01

File No: 11.040205 & 11.040205.1

From: S-41 (Beech Street) Bridge Replacement

To: Crossing People's Creek

Project Description:
Bridge replacement.

Program Development Engineer

By: Rob Perry
Program Manager

☐ Yes ☒ No Indicate whether copy of report is to be sent to the State Energy Office.

Attachments

cc: Program Development File w / attachments - Route thru:

General File - Note: Attachments are filed in Program Development Office.

PROJECT PLANNING REPORTDate 8-11-2010**Project Identification:** Program Manager Rob Perry Phone 737-1440F.A. Project Number BR11(032) File No. 11.040205 & 11.040205.1PE PIN 040205 PE01 Construction PIN 040205 BR01Right of Way Obligation Date December 2011

Bridge Length approx. 41'

Project Description: Length Road Length 450' to 1000' Width of new right of way unknown at this time**Location - (County, Road, Termini)**

Cherokee County, S-41 (Beech Street) over People's Creek located 1.5 miles east of the City of Gaffney

Description of Work * Project involves bridge replacement on same location as the existing. The existing 37' by 24' deficient bridge (Structure # 1170004100100), built in 1930, will be replaced with a modern bridge having a 40' clear roadway width. The new bridge will be placed in the existing alignment. The existing right-of-way will be verified by survey.

Bridges Structure number 1170004100100**Intersection Improvements** Intersection improvements are possible at the following intersections:

1. S-41 & S-167 (13th Street) and
2. S-41 & S-633 (Goldmine Springs Road).

Geometric Changes The anticipated new structure will be a single span structure approx. 42.5' wide by 41' long.**Sidewalks/Bikeslanes** None**High Occupancy Vehicle Lanes** None**Plans Sheets Available** Location map attached, flood map attached.

* (please include typical sections and location map)

Project Costs: Roadway _____ Right of way _____Bridges \$1,620,000 PE, E, and C \$180,000**Alternatives:** Design No-buildLocation (attach map) 1.5 miles E of City of Gaffney in Cherokee County

Purpose of Project:*

Bridge replacement for bridge that has a 14.2 sufficiency rating. Survey will verify existing right of way limits as no as-built plans were available for previous bridge project.

* (please include statements about logical termini, connectivity, level of service or other impacts if project is not constructed)

Project Sponsor and Funding Priority: BR funds

Existing Roadway Inventory: Existing lane widths Existing 10 foot wide lanes

Existing Right of Way limits No plans were found in plan library for existing bridge to confirm existing ROW

Development along project corridor Residential

Traffic Information: Present: Traffic Volumes 3000 ADT (year- 2012)

DHV (%)

MDV

HDV

Posted Speed Limit 35 mph

Level of Service

Future: Traffic V olumes 4200 ADT (year- 2032)

Design Speed Proposed

Level of Service (under no build conditions)

Please attach accident data.

Public Involvement Plan:*

None. Contractor will notify media outlets prior to implementing detours during construction.

* (please include proposed timeline for public involvement meetings and hearings, outreach methods)

Social, Economic and Environmental Concerns:

Structures 50 years or older: X yes no unsure

Public Parks / Recreation Areas: yes X no unsure

Known Historic Sites: yes X no unsure

Displacements: yes no X unsure

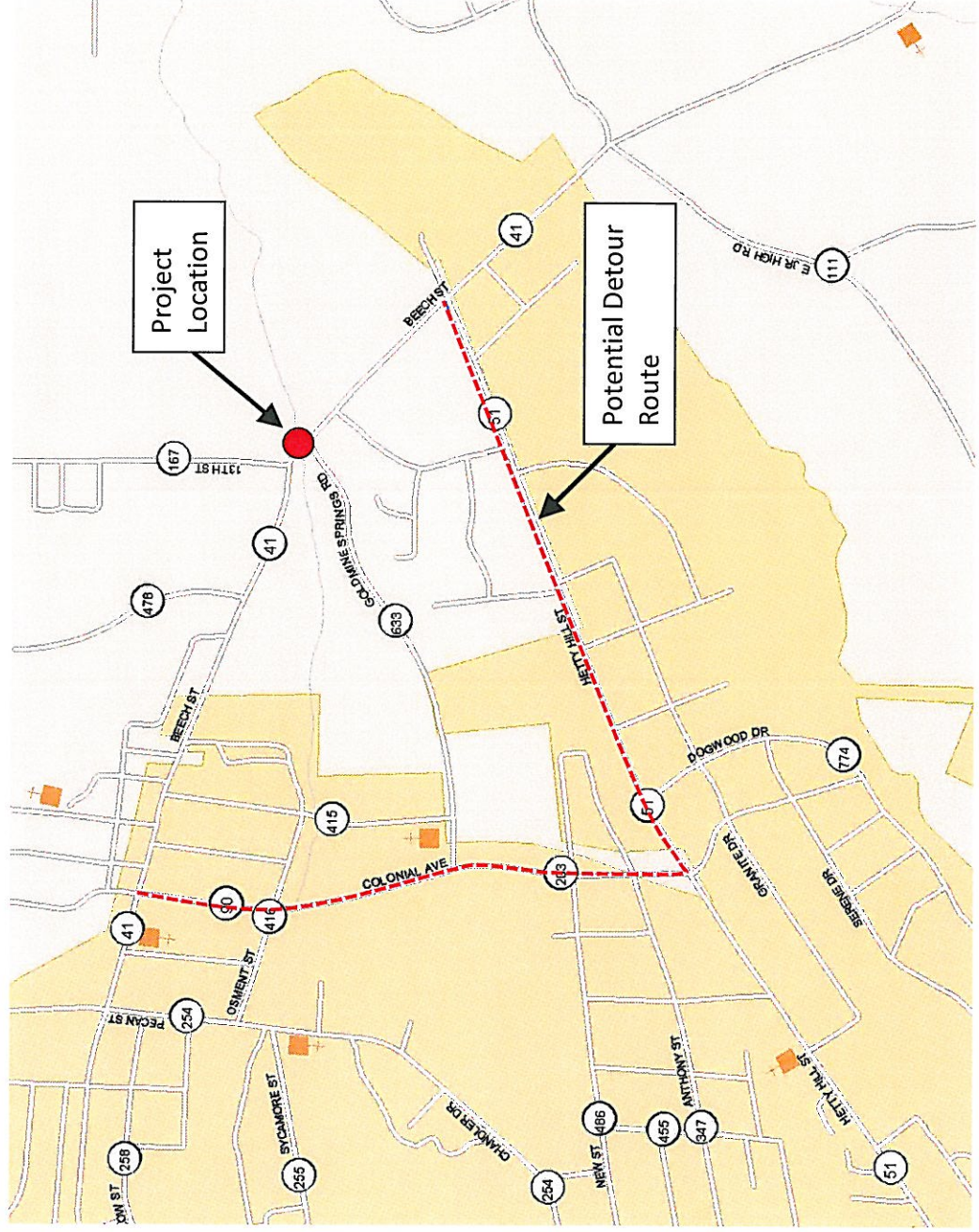
Wetlands: yes no X unsure

USTs / Hazardous Materials: yes no X unsure

Other Areas of Concern:

See attached floodplain map. Permitting fill in the floodplain is a major area of concern for this project that will need further discussion.

(File: 11.040205.1, Bridge Structure Number: 1170004100100)



REQUEST FOR TRAFFIC DATA

DATA REQUESTED:

- ☒ Traffic Loading for Pavement Design
- ☒ Classification Count for Pavement Design
- ☐ Design Data
- ☐ Intersection Two-Way Traffic Flow (ADT)
- ☐ Intersection Turning Movement Counts
- ☐ Other (Explain) _____

LOCATION:

COUNTY Cherokee

ROUTE/ROAD S-41 Beech Street

From MM 2.74 (13st, S-167)
(ATTACH MAP)

To MM 2.77 (Goldmine Springs Road, S-633)

CONTROLS:

For Pavement Loading

	<u>Year</u>	<u>ADT</u>
Base Year	<u>2012</u>	<u>3600</u>
Middle Year	<u>2022</u>	<u>3600</u>
End Year	<u>2032</u>	<u>4200</u>
No. of Lanes	<u>2 lanes</u>	

Provide ESALs for Flexible and Rigid
Pavement Types.

Road Group H

Lane Distribution 100

Trucks (%ADT) 5%

For Design

	<u>Year</u>	<u>ADT</u>
Present ADT	()	

Future ADT	()	
------------	-----	--

Design Speed (V) _____

K% _____ D% _____

Trucks:

% ADT _____

% DHV _____

Other _____

FURNISH COPIES OF TRAFFIC DATA TO:

- ☐ Environmental Coordinator
- ☒ Road Design Engineer (Philip Sandel)
- ☐ Bridge Design Engineer
- ☒ Project Manager (Emily Toler)
- ☐ Project Development Engineer
- ☐ Research & Materials Engineer

Requested By: Emily Toler

Section: RPG 4, Program Management

Date: 6-22-2010

REQUEST FOR TRAFFIC DATA

DATA REQUESTED:

- ☒ Traffic Loading for Pavement Design
- ☒ Classification Count for Pavement Design
- ☐ Design Data
- ☐ Intersection Two-Way Traffic Flow (ADT)
- ☐ Intersection Turning Movement Counts
- ☐ Other (Explain) _____

LOCATION: COUNTY Cherokee ROUTE/ROAD S-167 13th Street
From MM 0 (S-41 Beech St) To MM 0.2
(ATTACH MAP)

CONTROLS:

For Pavement Loading

	<u>Year</u>	<u>ADT</u>
Base Year	<u>2012</u>	<u>2100</u>
Middle Year	<u>2022</u>	<u>2300</u>
End Year	<u>2032</u>	<u>2500</u>
No. of Lanes	<u>2 lanes</u>	

Provide ESALs for Flexible and Rigid Pavement Types.

Road Group F

Lane Distribution 100

Trucks (%ADT) 5%

FURNISH COPIES OF TRAFFIC DATA TO:

- ☐ Environmental Coordinator
- ☒ Road Design Engineer (Philip Sandel)
- ☐ Bridge Design Engineer
- ☒ Project Manager (Emily Toler)
- ☐ Project Development Engineer
- ☐ Research & Materials Engineer

For Design

	<u>Year</u>	<u>ADT</u>
Present ADT	()	
Future ADT	()	
Design Speed (V)		
K% <u> </u> D% <u> </u>		
Trucks:		
% ADT <u> </u>		
% DHV <u> </u>		
Other <u> </u>		
<u> </u>		
<u> </u>		

Requested By: Emily Toler

Section: RPG 4, Program Management

Date: 6-22-2010

REQUEST FOR TRAFFIC DATA

DATA REQUESTED:

- ☒ Traffic Loading for Pavement Design
- ☒ Classification Count for Pavement Design
- ☐ Design Data
- ☐ Intersection Two-Way Traffic Flow (ADT)
- ☐ Intersection Turning Movement Counts
- ☐ Other (Explain) _____

LOCATION: COUNTY Cherokee ROUTE/ROAD S-633 Goldmine Springs Road
From MM 0 (S-41 Beech St) To MM 0.2
(ATTACH MAP)

CONTROLS:

For Pavement Loading

	<u>Year</u>	<u>ADT</u>
Base Year	<u>2012</u>	<u>600</u>
Middle Year	<u>2022</u>	<u>650</u>
End Year	<u>2032</u>	<u>700</u>
No. of Lanes	<u>2 lanes</u>	

Provide ESALs for Flexible and Rigid
Pavement Types.

Road Group F

Lane Distribution 100

Trucks (%ADT) 50%

FURNISH COPIES OF TRAFFIC DATA TO:

For Design

	<u>Year</u>	<u>ADT</u>
Present ADT	()	
Future ADT	()	
Design Speed (V)		
K% _____	D% _____	

Trucks:

% ADT _____

% DIIV _____

Other _____

- ☐ Environmental Coordinator
- ☒ Road Design Engineer (Philip Sandel)
- ☐ Bridge Design Engineer
- ☒ Project Manager (Emily Toler)
- ☐ Project Development Engineer
- ☐ Research & Materials Engineer

Requested By: Emily Toler

Section: RPG 4, Program Management

Date: 6-22-2010



IDENTIFICATION

(1) State Name - SOUTH CAROLINA Code 454
 (8) Structure Number # 0001170004100100
 (5) Inventory Route (On/Under) On - 171000410
 (2) State Highway Department District 4
 (3) County Code 21 (4) Place Code
 (6) Features Intersected PEOPLES CREEK
 (7) Facility Carried S-11-41
 (9) Location CITY OF GAFFNEY
 (11) Milepoint 1.270
 (12) Base Highway Network -NOT PART OF NET Code 0
 (13) LRS Inventory Route & Subroute
 (16) Latitude 35 Degrees 4 Minutes 15.00 Seconds
 (17) Longitude 81 Degrees 37 Minutes 19.00 Seconds
 (98) Border Bridge State Code % SHARE %
 (99) Border Bridge Structure No. #

Sufficiency Rating = 14.2
 Functionally Obsolete = NO
 Structurally Deficient = YES

CLASSIFICATION

Code

(112) NBIS Bridge Length - YES
 (104) Highway System - NOT NHS 0
 (26) Functional Class - RURAL-MAJ COLL 04
 (100) Strahnet Highway - NOT STRAH HWY 0
 (101) Parallel Structure - NONE EXIST N
 (102) Direction of Traffic- 2-WAY TRAFFIC 2
 (103) Temporary Structure -
 (105) Federal Lands Highways N/A 0
 (110) Designated National Network -NO 0
 (20) Toll - ON FREE ROAD 3
 (21) Maintain - SCDOT 1
 (22) Owner - SCDOT 1
 (37) Historical Significance -NOT DETERMINABLE 4

STRUCTURE TYPE AND MATERIAL

(43) Structure Type Main:MATERIAL STEEL
 Type - 2 Code 302
 (44) Structure Type Appr:MATERIAL OTHER OR N/A
 Type - OTHER OR N/A Code 000
 (45) Number of Spans in Main Unit 1
 (46) Number of Approach Spans 0
 (107) Deck Structure Type -CONCRETE CAST-IN-PLC Code 1
 (108) Wearing Surface / Protective System:
 A) Type of Wearing Surface - BITUMINOUS Code 6
 B) Type of Membrane - UNKNOWN Code 8
 C) Type of Deck Protection - UNKNOWN Code 8

CONDITION

Code

(58) Deck - SERIOUS 3
 (59) Superstructure - SERIOUS 3
 (60) Substructure - FAIR 5
 (61) Channel and Channel Protection-BNK PRT REPAIR 7
 (62) Culverts - NOT APPLICABLE N

LOAD RATING AND POSTING

Code

(31) Design Load - H 10 1
 (64) Operating Rating - AS 5
 (66) Inventory Rating - AS 5
 (70) Bridge Posting - > 39.9% BELOW 0
 (41) Structure Open, Posted or Closed - P
 Description -POSTED FOR LOAD

AGE AND SERVICE

(27) Year Built 1930
 (106) Year Reconstructed 1951
 (42) Type of Service On -HIGHWAY
 Under - WATERWAY Code 5
 (28) Lanes: On Structure = 2 Under Structure = 0
 (29) Average Daily Traffic 1500
 (30) Year of ADT 2007 (109) Truck ADT 05 %
 (19) Bypass, Detour Length 2 MI

APPRAISAL

Code

(67) Structure Evaluation - INTOLERABLE; HIGH PRI RE 2
 (68) Deck Geometry 4
 (69) Underclearances, Vertical and Horizontal N
 (71) Waterway Adequacy 8
 (72) Approach Roadway Alignment 8
 (36) Traffic Safety Features 0000
 (113) Scour Critical Bridges- UNKNOWN U

GEOMETRIC DATA

(48) Length of Maximum Span 35 FT
 (49) Structure Length 37 FT
 (50) Curb or Sidewalk: Left 0.0 FT Right 0.0 FT
 (51) Bridge Roadway Width Curb to Curb 24.2 FT
 (52) Deck Width Out to Out 25.6 FT
 (32) Approach Roadway Width (W/Shoulders) 30 FT
 (33) Bridge Median -NONE Code 0
 (34) Skew 0 Deg (35) Structure Flared NO
 (10) Inventory Route Min Vert Clear 99 FT 99 IN
 (47) Inventory Route Total Horz Clear 24.2 FT
 (53) Min Vert Clear Over Bridge Roadway 99 FT 99 IN
 (54) Min Vert Underclear Ref -NOT HWY OR R 0 FT 0 IN
 (55) Min Lat Underclear Right Ref -NOT HWY OR RXR 99.9 FT
 (56) Min Lat Underclear Left 0.0 FT

PROPOSED IMPROVEMENTS

(75) Type of Work -REPLACE/LOAD CAPACITY Code 311
 (76) Length of Structure Improvement 58.7 FT
 (94) Bridge Improvement Cost \$181,000
 (95) Roadway Improvement Costs \$45,000
 (96) Total Project Cost \$272,000
 (97) Year of Improvement Cost Estimate 2008
 (114) Future ADT 2190
 (115) Year of Future ADT 2027

NAVIGATION DATA

(38) Navigation Control -NONE Code 0
 (111) Pier Protection - Code
 (39) Navigation Vertical Clearance FT
 (116) Vert-Lift Bridge Nav Min Vert Clear FT
 (40) Navigation Horizontal Clearance FT

INSPECTIONS

(90) Inspection Date 11/2007 (91) Frequency 12 Mo
 (92) Critical Feature Inspection: (93) CFI Date
 A) Fracture Crit Detail NO Mo A)
 B) Underwater Insp NO Mo B)
 C) Other Special Insp NO Mo C)