Kentucky Transportation Cabinet
Expedited Bridge Replacement Study

PROJECT INFORMATION

County: Simpson
Road Name: Robey Bethel Road
Route Number: CR-1300

Bridge ID: 107C00004N
Bridge MP: 6.152

Highway Plan Project Description:
example: REPLACE BRIDGE ON CR-1300 (ROBEY BETHEL RD) OVER SPRING CREEK, 1.0 MI NORTH OF KY 100; (A42STRUCTURALLY DEFICIENT, SR = 42.3) 107C00004N
Milepoint: 6.152

- [x] Roadway classified as collector or local.
- [x] ADT less than 1,500.
- [x] Bridge replacement at current location or adjacent to existing bridge.
- [x] Temporary Traffic Control maintained on existing structure: part-width construction or adjacent temporary traffic control. **detour 9.0 miles**
- [x] Existing structure's hydraulic performance is adequate.
- [x] Proposed project is not in a FEMA Zone AE regulatory area. Although the project is in a FEMA Zone AE, Central Office Drainage Branch has reviewed the site and approved its inclusion.

Categorical Exclusion Level 1

Potential for Effects Resulting from Project ☐ None ☑ Low ☐ High

(If effects potential is low or high, describe how project meets CE criteria and means to address outstanding issues)

Prior to construction a IBPMOA will be completed for the Indiana Bat using either payment to the IBCF or tree cutting restrictions as Allen County only has Potential for IB Habitat. An assume presence BA will be completed for the Gray Bat to include Best Management Practices to miniumize stream impacts. Bridge will be replace in same location and span the creek. DEA SME will conduct a Habitat Assessment.

- [x] Reevaluation required prior to construction

The project described above has been determined to meet the Categorical Exclusion criteria established in 23 CFR 771.17 and the FHWA/KYTC Categorical Exclusion Agreement.

Approved by: Gina Renée Slaughter — District Environmental Coordinator — 10-15-2013 — Date

- [x] Yes, this project meets the conditions for being an Expedited Bridge Replacement Project.

Recommended by: _____ District TEBM for Project Development

Approved by: _____ Director, Division of Planning

Programming Information

Item No: _____ *Federal Project No.:* _____
Program No.: _____ *UPN:* (Function) (County #) (Route) (MP to & from)

Version 9-20

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I. PROJECT DATA

County: Simpson
Bridge ID: 107C00004N
Road Name: Robey Bethel Road
Bridge MP: 6.152
Route Number: CR-1300

Functional Class.: ☑ Local ☐ Collector ☐ Urban ☑ Rural

Route on ☐ NHS

Truck Class.: **% Trucks:** **Terrain:**

ADT (current): 114

MPO Area: Not Applicable

Existing Bike Accommodations: **Ped:** ☐ Sidewalk

Roadway Data:	**Existing**
No. of Lanes	2
Lane Width	9
Shoulder Width	2
Max. Superelevation	
Minimum Radius	
Maximum Grade	
Minimum Sight Dist.	
Sidewalk Width(urban)	
Clear-zone	

Bridge Data:

Bridge Number	107C00004N
Sufficiency Rating	42.3
Total Length	27.5
Width, curb to curb	19
Span Lengths	27.5
Year Built	1955
Posted Weight Limit	
Structurally Deficient?	yes
Functionally Obsolete?	yes

Existing Rdwy. Plans available?
☐ Yes ☑ No
Year of Plans:

Existing Geotech data available?
☐ Yes ☐ No

Notes:

II. PROJECT SUMMARY

A. Purpose, Need & Project Estimate

In order to maintain connectivity, the purpose of the project is to replace the deficient bridge.

Project Estimate

Phase	Estimate
Design	$250,000
R/W	$50,000
Utilites	$60,000
Const	$200,000
TOTAL	**$560,000**

B. Project Approach

estimate for the Simpson Co. bridge 107C00004N on Robey-Bethel Grove Rd. It has a low future ADT (2026) of 125 so I assumed that we could close the road and detour traffic. Also the existing bridge has an area of 550 sf and I estimated a slightly larger bridge at 660 sf (22’ x 30’). There will be very little approach and earthwork needed. I estimated that very little R/W will be needed: Approximately 0.30 acres all agricultural, 4 or less parcels. This estimate came in at $185,000.

III. Photos and/or Maps

IV. Categorical Exclusion Level 1
Summary

Effects Potential (scale of effects and potential to influence project schedule)

None	Potential to significantly affect Air Quality
None	Potential to significantly affect any cultural or archaeological resources
None	Potential to affect historic properties or other Section 4(f) resources
	☐ can be addressed through standard practices (programmatic agreements, deminimis, etc.)
Low	Potential to significantly impact any federally listed, threatened or endangered species
None	Potential to significantly effect properties with hazardous materials concerns
None	Potential to significantly impact Waters of the U.S. or Commonwealth
None	Potential to significantly affect traffic noise
None	Potential to require relocations or other significant socioeconomic impacts (travel patterns, land use, or planned growth)

A. Air Quality

Project is in: ☑ Attainment area ☐ Nonattainment or Maintenance Area ☐ PM 2.5 County

☑ No potential to significantly affect Air Quality (attach PM 2.5 and MSAT documentation, as appropriate or note below intent to complete prior to construction)

This project is considered an exempt project per 40 CFR 93.126 (Safety - Reconstructing Bridge) and also because it has no meaningful impact on traffic volumes or traffic mix, and therefore, has no potential for meaningful MSAT impacts. The present ADT is 114. Air toxics analysis is an emerging field and current scientific techniques, tools and data are not sufficient to accurately estimate human health impacts that would result from a transportation project in a way that would be useful to decision-makers. Appendix C of FHWA's "Interim Guidance on Air Toxic Analysis in NEPA Documents" should be consulted for further information.

B. Archaeology

	Yes	No
1) Is all area to be affected by the project previously disturbed or within existing ROW? (If YES, STOP- Bridge is unlikely to adversely affect archaeological resources)	☐	☑
2) Are known archaeological sites present (project may potentially affect archaeological resources; Discuss with SME and provide comment below)	☐	☑

☑ No effect to archaeological resources

☐ Archaeological resources may be present; investigation to be completed during detailed design. Impacts to archaeological resources are not expected and should not impede project development.

☐ Archaeological impacts are of such potential complexity project schedule is likely to be adversely affected.

verifed by Archealogist SME James Hixon

C. Threatened and Endangered Species

	Yes	No
1) Is the bridge over a KY DOW Special Use Water or within designated critical habitat? (If YES, STOP- Not eligible for EBRP; If NO, continue)	☐	☑
2) Does the county have federally listed fish and mussel species? (If NO, STOP; If YES, continue)	☑	☐
3) Does the bridge cross a stream with perennial flow? (If NO, STOP - No effect for mussels/fish species; If YES, continue)	☑	☐

4) Are any of the mussel/fish species typically found in smaller rivers and streams? (If NO, STOP; if YES, requires SME review to conduct Habitat Assessment) ☑ ☐

Additional Information required for possible effects assessment:

1) Will the bridge be replaced in the same location as existing?

2) Will the new bridge clear-span the stream?

- [x] Biological concerns unlikely to impede project development (For all appropriate species, conduct Habitat Assessment/Biological Assessment prior to construction)
- [ ] Biological concerns are of such complexity that project schedule is likely to be adversely impacted

Federally listed T & E species for Simpson County: Gray Bat (GM -902), Indiana Bat (IB-903), Fanshell (FSM-403), slabside pearlymussel (SPM-411) ring pink mussel (RPM- 412) littlewing pearlymussel (LWMP-413), sheepnose (SNM-415) and the fluted kidneyshell (FKM-419). Prior to construction a IBPMOA will be completed for the Indiana Bat using either payment to the IBCF or tree cutting restrictions as Allen County only has Potential for IB Habitat. An assume presence BA will be completed for the Gray Bat to include Best Management Practices to miniumize stream impacts. Bridge will be replace in same location and span the creek. DFA SME will conduct a Habitat Assessment

D. Hazardous Materials

	Yes	No
1) Are potentially contaminated sites present?	☐	☑
2) Does bridge require inspection for asbestos containing materials?	☑	☐

- [x] Hazardous materials concerns are non-existent or routine in nature, will be addressed during detailed design and should not impede project development.
- [ ] Hazardous materials concerns are of such complexity that the project schedule is likely to be adversely affected.

concrete bridge will require an inspection for asbestos containing materials prior to construction demolotion

E. Permitting

Check all that may apply: ☑ Waters of the US ☐ MS4 area ☐ Floodplain Impacts ☐ Navigable Waters Impacted

Are 401/404 Permits likely to be required? ☐ Yes ☐ No Impacts to: ☐ Wetlands ☑ Stream/Lake/Pond

☑ ACE LON ☐ ACE NW ☐ General WQC ☐ TVA

	Yes	No
1) Will the project affect more than 300 lf of stream? (If YES, STOP- Not eligible for EBRP; If NO, continue)	☐	☑
2) Will the project effect more than ½ acre of potential wetland? (If YES, STOP- Not eligible for EBRP; If NO, water related impacts not likely to impede project development)	☐	☑

- [x] Will not significantly impact Waters of the U.S. or Commonwealth. Stream and wetland impacts, if any, are routine in nature and will not require individual permits; Any required permits will be acquired during detailed design. Project development should not be impeded.
- [ ] Stream and/or wetland impacts exceed nationwide and general WQC thresholds. Project schedule is likely to be adversely impacted (Not eligible for EBRP).

F. Noise

	Yes	No
1) Are existing or planned noise sensitive receptors adjacent to the proposed project? (If NO, STOP- No effect for Noise Impacts; If YES continue)	☐	☑
2) Is this considered a "Type I Project" according to the KYTC Noise Analysis and Abatement Policy?	☐	☑

- [x] No noise related impacts predicted for the project
- [ ] Noise related impacts are unlikely but will be further assessed during detailed design prior to construction. Further assessment should not impede project development.
- [ ] Noise related impacts are of such complexity that project schedule is likely to be adversely affected.

No house immediately adjacent to the bridge

G. Socioeconomic

	Yes	No
1) Are there any relocations required for construction of the project? (If YES, STOP- Does not meet criteria for EBRP; If NO Continue)	☐	☑

2) Will project require more than approximately one acre of fee simple R/W? (If YES, STOP- Project Does not meet criteria for EBRP; If NO, continue)	☐	☑

	Yes	No
3) Is ROW required from any federal agency?	☐	☑
4) Will project cause disproportionately high and adverse effects on any minority or low-income population in accordance with the provision of E.O. 12898 and FHWA Order 6640.23	☐	☑
5) Will project significantly affect land use, travel patterns or planned growth?	☐	☑

☑ Will have no significant Socioeconomic impacts

☐ Socioeconomic impacts are unlikely but will be further assessed during detailed design prior to construction. Further assessment should not impede project development.

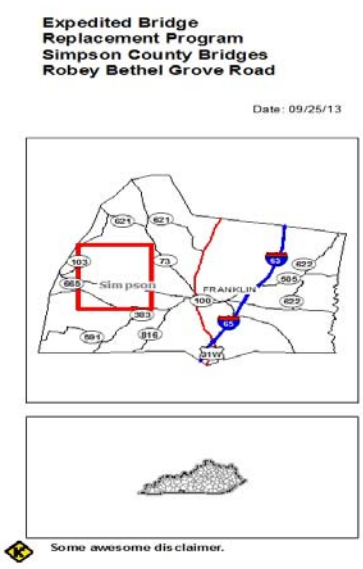
☐ Socioeconomic impacts are of such complexity that project schedule may be adversely affected.

H. Section 106, 4(f) or 6(f) Resources

The following are present on the project:	Yes	No
1) Does the project affect a park, wildlife refuge or recreation area (If YES, STOP- Not eligible for EBRP; If NO continue)	☐	☑
2) Is the bridge a truss (If YES, STOP- Not eligible for EBRP; if NO continue)	☐	☑
3) Is the bridge or do any of the surrounding properties appear to be greater than 50 years old? (If YES continue; If NO, STOP: No Effect to Historic Properties)	☑	☐
4) Was the bridge constructed after 1945? (If YES continue; If No, STOP- project will require SME review; If YES, continue)	☑	☐
5) Is the bridge of a common type covered by the FHWA Program Comment? (If YES continue; If NO, STOP-project will require SME review)	☑	☐
6) Are there any buildings or potentially important features (wells, barns, cemeteries, etc.) of the surrounding property that are more than 50 years old that will be impacted by the project (If YES, STOP - project will require SME review; If NO, STOP: No Effect/No Adverse Effect to historic properties)	☐	☑

☑ No potential to affect cultural historic resources, Section 4(f) or Section 6(f) resources

☐ No Potential to affect Section 4(f) or Section 6(f) resources other than cultural historic resources, which can be addressed through standard practices (Programmatic 4(f), deminimis, etc.) and should not impede project development

☐ Affects to cultural historic resources are of such complexity that the project schedule may be adversely affected

V. Additional Photos and/or Maps