Kentucky Transportation Cabinet
Expedited Bridge Replacement Study

PROJECT INFORMATION

County: Leslie County
Road Name: Elk Road
Route Number: CR-1138
Bridge ID: 066C00019N
Bridge MP: 0.02

Highway Plan Project Description:
REPLACE BRIDGE ON CR-1138 OVER GREASY CREEK; (STRUCTURALLY DEFICIENT, SR = 2) 066C00019N

Milepoint: BMP 0.0 EMP 0.1

- [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.
- [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)

Need to complete archaeology impact determination. Need to complete biology review. Bridge was constructed in 1940 but is of common type (SME review needed)

- [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: _____ District Environmental Coordinator 10.14.13 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: Leslie County
Road Name: Elk Road
Route Number: CR-1138

Bridge ID: 066C00019N
Bridge MP: 0.02

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

Route on ☐ NHS

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

ADT (current): 200 (2011)

MPO Area: Not Applicable

Existing Bike Accommodations: Shared Lane **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	066C00019N
Sufficiency Rating	2
Total Length	80'
Width, curb to curb	10.80'
Span Lengths	42'
Year Built	1940
Posted Weight Limit	3 TONS
Structurally Deficient?	YES
Functionally Obsolete?	NO

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

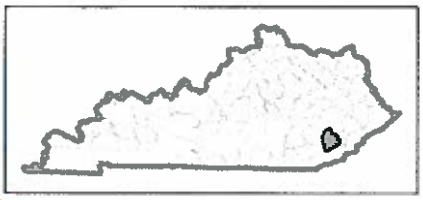
Phase	Estimate
Design	$250,000
R/W	$30,000
Utilites	$50,000
Const	$600,000
TOTAL	**$930,000**

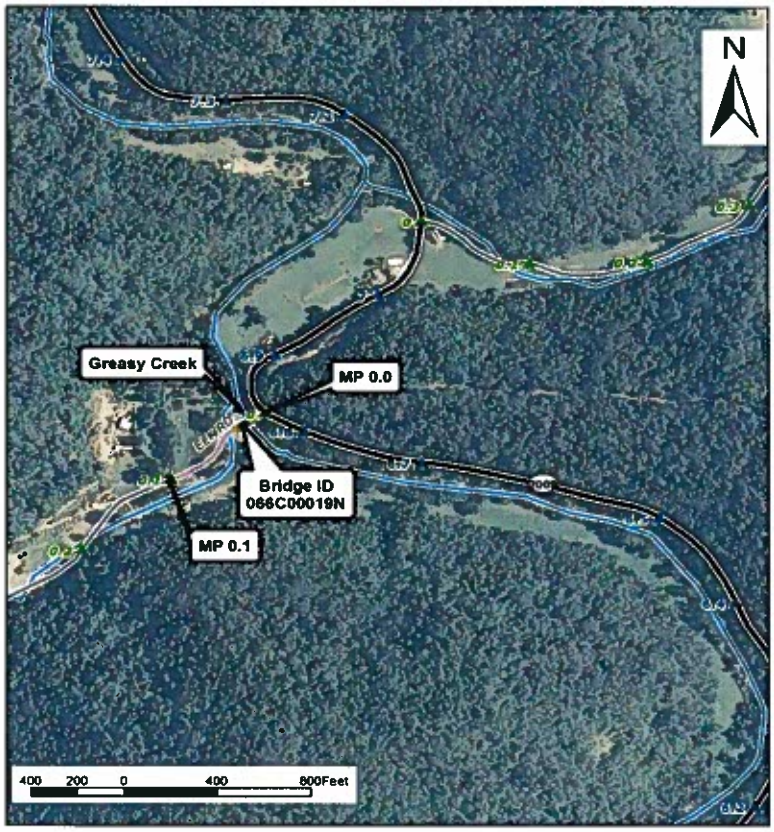
B. Project Approach

This is a dead end road and thus no detour is possible. A diversion or parallel structure is required.
This structure is very near the intersection of KY2009, Greasy Creek Road. The intersection is at or near the end of a relatively steep curve on KY2009 which yields poor intersection sight distance. Elk Creek road reverse curves downstream resulting immediately prior to the structure. Reconstructing the alignment of Elk Road would provide a straighter alignment, would provide better intersection sight distance, and would allow the existing structure to remain in service for Traffic Control purposes. It is unclear at this time, if the intersection could be moved enough to gain full intersection sight distance but any relocation of the structure upstream will provide an improvement. The new structure will need to be significantly longer than existing.

III. Photos and/or Maps

Leslie County
CR-1138 (Elk Road)
Bridge ID : 066C00019N





IV. Categorical Exclusion Level 1
Summary

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

None	Potential to significantly affect Air Quality
Low	Potential to significantly affect any cultural or archaeological resources
Low	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
Low	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)

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.

Partial prior disturbed area. Archaeology will need to complete a review prior to construction. Cutshin quad -83.352832 37.007540 dec degree UTM 17

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?

☑ 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

SNB, LSM, ETSP, IB Biologist will clear species prior to construction.

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

☑ 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.

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)	☐	☑

☑ 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?	☐	☐

☐ 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.

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

Bridge is of common type - slab bridge

V. Additional Photos and/or Maps