

BURGESS & NIPLE

400 Blankenbaker Pkwy. | Suite 300 | Louisville, KY 40243 | 502.254.2344

Mr. Spencer Stork, PE
Kenton County Public Works
420 Independence Station Road
Independence, KY 41051

Re: Menefee Road Bridge

Attention: Mr. Nick Hendrix, PE

September 9, 2022

Dear Mr. Stork:

Thank you for giving Burgess & Niple, Inc. (B&N) the opportunity to submit this fee proposal to perform engineering services for the rehabilitation of the Menefee Road Bridge for Kenton County Public Works. This proposal is to perform preliminary construction cost estimates for three rehabilitation alternatives.

PROJECT DESCRIPTION

The project scope will consist of studying three (3) proposed rehabilitation alternatives of the bridge and providing a preliminary estimated construction cost for each alternative. The alternatives studied will assume that all bridge work will be completed in compliance with Kentucky Transportation Cabinet (KYTC) and AASHTO standards. Estimated construction costs will be based on the most recent bid history provided by KYTC and other recent project bid history. The three alternatives to be investigated are as follows:

Alternative 1: Rehabilitation – Would consist of rehabilitation of the existing structure by patching the top side and underside of the box beams as needed. Waterproofing and a top asphalt layer would be added over the top of the box beams. The stone abutments would be repaired as needed. The existing posted weight limit (15 tons) would remain and may need to be lowered due to the additional asphalt overlay.

Alternative 2: Superstructure Replacement – This option would include replacing the entire superstructure with new non-composite box beams. The existing abutments would be reused and repaired. The new bridge would eliminate the concrete curbs and use guardrail attached to the box beams with overside drainage increasing the bridge width by roughly 1.5' to 2'.

Alternative 3: Structure Replacement and Widening – This option would be a complete bridge replacement and widening of the bridge (by at least 4'). The existing box beams would be replaced as described in Alternative 2, and an additional box beam would be added to widen the bridge. New capped pile abutments would be placed likely behind the existing stone wall abutments resulting in an increased span for the new beams. Two foundation alternatives (3A and 3B) will be considered for this alternative. For Alternative 3A, new capped pile abutments would be placed behind the existing stone wall abutments resulting in an increased span for the new beams. The existing abutments would be repaired and remain in place but would no longer support the bridge superstructure. For

Alternative 3B, the existing abutments would be removed and new abutments per KYTC standard drawings would be provided. Some approach roadway work may be needed for the increased bridge width.

SCOPE OF SERVICES

The following scope of services is our understanding of the tasks needed to complete the project based on discussions with Kenton County Public Works. One submittal will be provided during this study phase that will be reviewed by Kenton County Public Works.

Bridge Study Report

B&N will provide a Bridge Study Report which will include a summary description of each alternative and an estimated cost of construction for each alternative.

FEE

B&N will complete the above-described scope of services for a not to exceed fee of \$9,994. The fee proposal breakdown is attached.

We appreciate this opportunity to provide engineering services to Kenton County Public Works. If you have any questions or comments, please do not hesitate to call.

Sincerely,

BURGESS & NIPLE, INC.

Steve McDevitt, PE
Vice President

PROPOSAL COST SUMMARY									
Menefee Road Bridge Rehabilitation									
Rehabilitation Study								Overhead Rate = 0.00%	
CONSULTANT: Burgess and Niple, Inc.								Note: Kenton County Hourly Rates Include Overhead	
DATE: 9-09-22								Net Fee Percentage = 11.00%	
		Senior Engineer		Project Engineer		Direct Labor	Other		
Task	Hourly	Total	Hourly	Total	Direct Labor	Subcon.	Direct	Net	Total
Description	Rate	Hours	Rate	Hours	& Overhead Costs	Costs	Costs	Fee	Cost
Study Phase									
Prepare Cost Estimates									
Alternative 1 Quantities	\$220.00	1	\$162.00	7	\$1,354	\$0	\$0	\$149	\$1,503
Alternative 1 Cost Estimate	\$220.00	1	\$162.00	4	\$868	\$0	\$0	\$95	\$963
Alternative 2 Quantities	\$220.00	1	\$162.00	7	\$1,354	\$0	\$0	\$149	\$1,503
Alternative 2 Cost Estimate	\$220.00	1	\$162.00	4	\$868	\$0	\$0	\$95	\$963
Alternative 3 Quantities	\$220.00	1	\$162.00	8	\$1,516	\$0	\$0	\$167	\$1,683
Alternative 3 Cost Estimate	\$220.00	1	\$162.00	4	\$868	\$0	\$0	\$95	\$963
Subtotal					\$6,828	\$0	\$0	\$751	\$7,579
Prepare Study Report									
Summary Report	\$220.00	2	\$162.00	8	\$1,736	\$0	\$0	\$191	\$1,927
Subtotal					\$1,736	\$0	\$0	\$191	\$1,927
Project Management									
Project Management	\$220.00	2			\$440	\$0	\$0	\$48	\$488
Subtotal					\$440	\$0	\$0	\$48	\$488
Study Phase		TOTAL HOURS:		52	\$9,004	\$0	\$0	\$990	\$9,994
TOTAL AUTHORIZED PARTS									
		TOTAL HOURS:		52	\$9,004	\$0	\$0	\$990	\$9,994