



CITY OF NORMAN, OK STAFF REPORT

MEETING DATE: 01/25/2022

REQUESTER: Joseph Hill, Streets Program Manager

PRESENTER: Shawn O'Leary, Director of Public Works

ITEM TITLE: CONSIDERATION OF APPROVAL, ACCEPTANCE, REJECTION, AMENDMENT, AND/OR POSTPONEMENT OF CONTRACT K-2122-91: A CONTRACT BY AND BETWEEN THE CITY OF NORMAN, OKLAHOMA, AND H.W. LOCHNER, INC., IN THE AMOUNT OF \$61,400 TO PROVIDE CONSULTANT SERVICES FOR THE BRIDGE MAINTENANCE PROGRAM SITE DISCOVERY PROJECT AND BUDGET TRANSFER AS OUTLINED IN THE STAFF REPORT.

BACKGROUND:

The Oklahoma Department of Transportation (ODOT) is tasked by the Federal Highway Administration to perform Bridge Safety Inspections for all publicly owned structures greater than 20 feet in length. Inspections are performed at least once every two years to identify any critical findings, document the bridge condition, and make repair recommendations if necessary. ODOT compiles a list of pre-qualified candidates from which the City interviews at least three (3). Upon completion of the interviews, City Staff selects the candidate they feel is most qualified.

On November 12, 2019, City Council approved Resolution R-1920-53 selecting H.W. Lochner, Inc., as the City's appointed Bridge Safety Inspection Consultant to ODOT for compliance with the National Bridge Inspection Standards under ODOT Contract Number CI-2105G. The contract duration was 2 years.

In 2021, a new round of interviews was conducted to select a firm for the 2021-2023 Off-System Bridge Inspections. On October 12, 2021, City Council approved Resolution R-2122-45 selecting H.W. Lochner, Inc., as the City's appointed Bridge Safety Inspection Consultant to ODOT for compliance with the National Bridge Inspection Standards.

The 2019 Bridge Safety Inspection results identified 13 structurally deficient bridges, 8 functionally obsolete bridges, and 8 bridges at risk of becoming structurally deficient. Based on this data, City Staff identified and ranked bridges in need of maintenance activities. The four bridges that were deemed to be the highest priority for maintenance in this cycle are listed below:

- NBI No. 05645 – 48th Ave. SE (0.8 miles South of HWY 9)
- NBI No. 18958 – W. Imhoff Rd. (0.2 miles East of S. Berry Rd.)
- NBI No. 20034 – Cedar Lane Rd. (0.8 miles East of Indian Meridian Ave.)
- NBI No. 09189 – 60th Ave. NE (0.5 miles North of Rock Creek Rd.)

On July 13, 2021, City Council approved Contract K-2122-6 with Haskell Lemon Construction Co. to perform maintenance activities on the aforementioned bridge locations as part of the City's annual Bridge Maintenance Program.

On Thursday, July 29, 2021, City Staff were made aware of the failure of the southeast wing wall attached to the West Imhoff Road Bridge, NBI No. 18958. Upon initial inspections performed by City Staff, the condition of the bridge was found to be severe enough to warrant immediate closure.

On August 10, 2021, Haskell Lemon Construction Co., mobilized to the West Imhoff Road Bridge to begin removing the debris from the channel that was restricting the flow of Imhoff Creek which was part of the original scope of work listed in the FYE 2022 Bridge Maintenance Program contract. On August 11, 2021, Haskell Lemon Construction Co., investigated spalling on the northwest wing wall that was also identified in the FYE 2022 Bridge Maintenance Program contract scope. During their investigations a large portion of concrete came loose exposing the joint between the wing wall and the bridge structure. The wing wall was found to have approximately 1.5" of separation from the bridge structure with no reinforcing tie-ins. This wing wall has three (3) utility lines routed through it: a sanitary sewer line, a 4" gas line, and a potable water line. The wing wall is in danger of a full-scale failure; which failure would affect these three utilities as well as the structure's stability.

Due to the need for an urgent response, City Staff requested H.W. Lochner, Inc., travel to the location and provide a preliminary engineering assessment of the bridge and develop plans for the repair. H.W. Lochner, Inc., has previously been selected using a Qualifications-Based Selection process. H.W. Lochner, Inc. provided a proposal, which was accepted and executed by the City Manager. On September 9, 2021, H.W. Lochner, Inc. submitted the finalized plans for the repair of the West Imhoff Road Bridge.

On September 14, 2021, City Council approved Contract K-2122-59 with Haskell Lemon Construction Co., in the amount of \$1,440,695 to perform emergency repair activities on the Imhoff Road Bridge. The above described emergency response is the third such response that has occurred in the last five years. The other two locations were Halbrook Drive over Brookhaven Creek in 2016 and Main Street over Brookhaven Creek in 2018.

DISCUSSION:

The Bridge Maintenance Program has been very successful in identifying the highest-risk bridge structures in the City. Since the 2019 Off-System Bridge Inspections, performed by H.W. Lochner, Inc. the City has seen a reduction in the number of structurally deficient bridges; from thirteen (13) in 2019 to four (4) today. To date, the method for selecting project locations for the Bridge Maintenance Program is based on the inspections performed by H.W. Lochner, Inc. and the subsequent list of structurally deficient bridge locations. Desiring to shift from a reactive approach to a proactive approach, Staff began development of an inventory ranking system.

In December of 2021, Staff reached out to H.W. Lochner, Inc., having been previously selected using a Qualifications-Based Selection process and having familiarity with the City's bridge inventory, to request a quote for consultation on a Bridge Maintenance Program Site Discovery project that would provide detailed cost estimates on locations identified by the inventory ranking system within the Bridge Maintenance Program. The list below identifies what Staff has identified as the top 20 priority locations to be evaluated by this Bridge Discovery phase utilizing the inventory ranking system and recent inspection data received in late December 2021.

- NBI 05274 – North Porter Avenue 0.6 Miles South of Franklin Road (Replace)
- NBI 06106 – 72nd Avenue NE 0.1 Miles South of Tecumseh Road (Replace)
- NBI 18958 – Imhoff Road 0.2 Miles East of Berry Road (Replace)
- NBI 09189 – 60th Avenue NE 0.5 Miles North of Rock Creek Road (Replace)
- NBI 05850 – East Robinson Street 0.6 Miles East of 72nd Avenue NE (Replace)
- NBI 09991 – Franklin Road 0.1 Miles West of 36th Avenue NE (Replace)
- NBI 18802 – 24th Avenue NE 0.9 Miles North of Robinson Street (Replace)
- NBI 05634 – 36th Avenue NE 0.2 Miles South of Robinson Street (Replace)
- NBI 07545 – 36th Avenue NE 0.5 Miles North of Franklin Road (Replace)
- NBI 26914 – East Post Oak Road 0.2 Miles East of 96th Avenue SE (Replace)
- NBI 07923 – Lindsey Street 0.1 Miles East of 48th Avenue SE (Replace)
- NBI 19451 – West Robinson Street 0.2 Miles East of 36th Avenue NW (Rehabilitate)
- NBI 19418 – Indian Hills Road 0.4 Miles East of Porter Avenue (Rehabilitate)
- NBI 12549 – Lindsey Street 100' West of Classen Boulevard (Rehabilitate)
- NBI 12330 – Boyd Street 500' East of Oklahoma Avenue (Rehabilitate)
- NBI 08335 – 24th Avenue SW 0.4 Miles south of Main Street (Rehabilitate)
- NBI 09865 – Robinson Street 0.5 Miles East of I-35 (Rehabilitate)
- NBI 10801 – Iowa Street 150' East of Merkle Drive (Rehabilitate)
- NBI 19348 – Franklin Road 0.2 Miles West of 72nd Avenue NE (Rehabilitate)
- NBI 18911 – Main Street 0.3 Miles East of 24th Avenue SW (Rehabilitate)

A map of the locations listed above is attached. The work performed by H.W. Lochner, Inc. will be necessary to ensure an additional measure of accuracy for future large-scale bridge improvement activities.

On Wednesday January 12, 2022 City Staff received a quote from H.W. Lochner, Inc. with a total project fee of \$61,400.

Funds are available in the Bridge Maintenance Program Design Account (TC0254; 50596687-46201). A transfer of \$61,400 is needed to the Bridge Maintenance Program Site Discovery Design Account (TC0282; Org 50596687; Object 46201).

RECOMMENDATION:

Staff recommends the approval of Contract K-2122-91 with H.W. Lochner, Inc. in the amount of \$61,400. Also, Staff recommends a transfer of \$61,400 from TC0254, Design to TC0282, Design as noted above.