SUMMARY OF FLOODPLAIN IMPACTS

Date: December 7, 2023

Project ID: ALL-CR 173 Thayer Road (PID 116196)

Floodplain Affected: Lost Creek – FEMA Floodway Zone AE

Description of Project:

The Allen County Engineer's Office and Ohio Department of Transportation (ODOT) District 1 propose to remove and replace the existing bridge (SFN 0236888) that carries County Road (CR) 173 (Thayer Road) over Lost Creek located approximately 0.15 miles south of Reservoir Road in Bath Township, Allen County, Ohio. The existing 43.5 foot long steel beam bridge was built in 1970 and has a sufficiency rating of 52.7. The proposed bridge will be a 56.0 foot long prestressed composite box beam bridge. The bridge replacement is part of the Thayer Road reconstruction project between S.R. 309 and Reservoir Road.

Why must this project be located in the Floodplain?

The project involves the replacement of the existing bridge located in the Lost Creek floodplain. Work within the floodplain is unavoidable.

What alternative sites were considered, if any?

No alternative sites were considered since the existing bridge will be reconstructed on the slightly modified Thayer Road alignment.

Were any mitigation measures utilized on this project? If so, please describe.

Hydrologic and Hydraulic calculations were completed comparing the existing and proposed bridges. Compared to the existing structure, the proposed structure lowers the 10-year high water by 0.03'; lowers the 25-year design high water by 0.16'; and lowers the 100-year high water by 0.30'. The proposed bridge will clear the 25-year design high water by approximately 0.8' and the 100-year high water by approximately 0.2'. Therefore, the bridge replacement will not elevate the current flood elevation, or have a negative impact on the floodplain or floodway.

To the best of my knowledge, this project has complied with all applicable Local, State, and Federal Floodplain protection standards.

Print Name: _Mark A. Droll_

Signature: _Mal A. Dell_

Title: _Operations Engineer_