

SUMMARY OF FLOODPLAIN IMPACTS

Date: September 5, 2024

Project ID: ALL-CR 176-4.92 (PID 119006)

Floodplain Affected: Little Riley Creek - Zone AE

Description of Project:

The Allen County Engineer, in cooperation with ODOT, is proposing to replace the existing bridge carrying Columbus Grove-Bluffton Road (County Road 176) over Little Riley Creek in the Village of Bluffton, Allen County, Ohio. The existing single-span steel bridge (SFN: 0247537) was built in 1957 and will be replaced with a single span concrete box beam bridge. Additional work includes adding a new sidewalk along the north side of the roadway beginning at the College Road/Kibler Street intersection and extending approximately 130' west of the western bridge abutment. Construction is estimated to begin in June 2026 and be completed by November 2026

Why must this project be located in the Floodplain?

The project involves the replacement of the existing bridge located in the Little Riley 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 same roadway 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 0.09' and lowers the 100-year high water by 0.05'. The proposed bridge will clear the 10-year design high water by approximately 3.56' and the 100-year high water by approximately 1.23'. 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: Doug Karhoff
Signature: Doug Karhoff
Title: Bridge Engineer