SUMMARY OF FLOODPLAIN IMPACTS

Date: December 28, 2016

Project ID: FRA-71-9.71 Part 2, PID 104799

Floodplain Affected: Brown Run - FIRM Panel 39049C0318K - Zone A

Description of Project:
The FRA-71-9.71 Part 2 project is part of the improvements to reduce congestion and increase safety as recommended in ODOT’s South Outerbelt Study. This project will construct Collector-Distributor (C-D) lanes along IR 71 to separate traffic traveling to and from Stringtown Road/IR 270, from through-traffic on IR 71 and improve the weave operations between the two closely-spaced interchanges. The addition of C-D roads will necessitate partial/complete reconstruction of ramps at Stringtown Road and IR 270. The reconstruction of the ramps and additional lanes impacts to Brown Run which is conveyed under IR-71 in a 108” diameter culvert. The culvert is large enough that ODOT that it is included in ODOT’s bridge inventory as FRA-71-1038 SFN 2507226.

Why must this project be located in the Floodplain?
The proposed FRA-71-9.71 Part 2 project will add a new Ramp B2 to eliminate an existing traffic weave between traffic entering IR-71 from IR-270 and traffic exiting IR-71 for Stringtown Road. The embankment for Ramp B2 will cover the inlet of the Brown Run IR-71 culvert and the outlet of the existing culvert under Marlan Drive. To convey Brown Run under the new ramp the 40’ of exiting open channel will be enclosed in a new culvert and junction structure.

What alternative sites were considered, if any?
No other alternative sites have been investigated for this culvert extension.

Were any mitigation measures utilized on this project? If so, please describe.
The extension of the Brown Run culvert will not have an adverse effect on the floodplain.

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

Print Name: Patrick Plews, PE

Signature:

Title: Project Hydraulic Engineer