



October 4, 2022

City of Missoula
Flood Plain Coordinator
435 Ryman
Missoula, MT 59802-4297

Subject: Qualitative Encroachment Analysis for Lindner Residence

Project Summary: Work related to the construction of a new private residence located at 2990 Woodland Avenue Missoula MT 59802. This analysis focuses on work related to the removal of an existing garage located within the base flood.

After field review and observations of the proposed plans, it is our opinion that removal of the existing garage and reestablishment of the existing surrounding grade will not increase the base flood elevation. The removal would decrease the base flood elevation. The existing garage creates an impedance to flow and a decrease in floodway volume due to the frame of the building and associated blockage of flow. The removal will eliminate this impedance and allow for natural flow through this area. The floodway would return to its original condition prior to the construction of the garage.

From these observations, it is our opinion that there would be no encroachment to the Base Flood Elevation.

Paul Druyvestein, PE 9835
Senior Project Engineer

