

Stormwater Report

for

Zaxby's Restaurant

2560 E Main Street
Plainfield, IN 46168

Prepared for:
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Hydrology Statement

A hydrologic analysis was performed for the proposed development located in the Town of Plainfield, Indiana, using the NRCS TR-55 method in accordance with the Town of Plainfield Stormwater Technical Standards Manual and the Indiana Stormwater Quality Manual.

The site is currently characterized as previously developed with approximately 68% impervious cover and the remainder as grassed open space. The total drainage area is approximately 0.83 acres, and the pre-developed Curve Number was calculated to be 90. The proposed development will result in a minor increase in the impervious surface area due to new building, parking, and double drive through, to about 81% impervious. The post-developed Curve Number was calculated to be 93.

Pre- and post-development peak runoff rates were calculated for the 2-, 10-, and 25-year, 24-hour storm events using TR-55 methodology and NOAA precipitation data. The results are summarized below:

Storm Event	Pre-Development (cfs)	Flow Post-Development (cfs)	Flow Difference (cfs)
2-Year	2.687	2.972	+0.285
10-Year	4.125	4.397	+0.272
25-Year	4.984	5.244	+0.260

As shown, the increase in peak runoff is negligible and the existing stormwater infrastructure should be able to manage it with minimal impact. The post-development flows remain within a range considered negligible in terms of hydraulic impact to the downstream system.

Therefore, detention is not proposed, and the post-development runoff will continue to discharge to the existing drainage conveyance system in a manner consistent with pre-development conditions, with no adverse impact anticipated downstream.