

November 2, 2023

Drainage Summary
Proposed Restaurant
60 Old Tower Hill Road
South Kingstown, RI 02879

The proposed project involves the modification of the existing building at 60 Old Tower Hill Road to a newly proposed restaurant, along with parking and landscape improvements. As part of the site improvements, a small stormwater depression is also being proposed within the westerly landscaped area, as requested by the Town, to improve stormwater conditions onsite.

The modifications listed above will result in a decrease in total impervious coverage within the site. Existing conditions of the site yield 87.6% (18,437 sq. ft.) impervious coverage, whereas the proposed conditions will decrease to 81.7% (17,195 sq. ft) impervious coverage. As exists today, the site sheet flows all stormwater towards Old Tower Hill Road where it is captured by catch basins within the right of way. Bohler is proposing to maintain sheet flow towards Old Tower Hill Road, but while doing so will be improving grades onsite to better channel stormwater towards the right of way and avoid any potential pooling of stormwater. As previously mentioned, a stormwater depression is being proposed on the westerly side of the site with a curb break between the landscaping and paved parking area that will collect a portion of the parking area, further decreasing the amount of runoff directed to Old Tower Hill Road.

CONCLUSION:

The proposed design decreases impervious surfaces within the parcel, improves grades to better channel stormwater towards Old Tower Hill Road, and proposes a stormwater depression to capture a portion of the proposed parking areas runoff. Additionally, the proposed improvements will improve stormwater recharge and water quality through the decrease in impervious surfaces.