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January 5, 2025

Town of Sterling
Planning and Zoning Commission
PO Box 157
Oneco, CT 06373-0157

RE: Job # 25041
Encroachment Permit for Quarry
0 Plainfield Pike, Sterling CT

Dear Commissioners:

As required by Section 6.03.E.2 of the zoning regulations, we are submitting the following information to discuss the proposed blasting associated with this application. The applicant is proposing to operate a small quarry on the subject property. The overall intent is to create fairly large, rectangular sections of stone. Those rocks will then be transported to their final location and cut to the size requested by the buyer. Some blasting will be necessary to create the initial fractures in the bedrock.

After the trees have been cleared, and soil removed and stockpiled, the next step will be to blast the ledge or bedrock. The applicant has stated that blasting will occur very infrequently, twice a year at the very most. Since the intent is to create larger sections of stone, less explosive material will be used, and each "shot" or hole will be widely spaced. All blasting will be roughly 500 feet from any nearby structures; blasting regularly occurs in much closer proximity. All blasting will be performed by licensed contractors after receiving the necessary permits from the Fire Marshal.

The proposed blasting, when correctly done by a licensed contractor, should not damage any nearby structures or affect surface or ground water flows. Surficial drainage patterns will not be substantially altered by the proposed work. The depth and size of the charges will be designed for this specific project, taking in account the distance to nearby structures, to minimize any adverse impacts. Potentially a pre-blast survey will be performed, that inspects nearby foundations for existing damage. And seismographs may be installed, to confirm that the appropriate limits for ground vibration are being met. We do not anticipate any adverse impacts from the proposed blasting.

Sincerely,

Daniel Blanchette, PE LS
J&D Site Designs LLC