



July 5, 2023

Mr. Tyler Machia, Zoning Administrator
Richmond Planning and Zoning
Town of Richmond
Richmond, Vermont 05477

Re: 22 Depot Street

Mr. Machia

Per your post hearing memorandum, I am providing the following notes on solid waste generation at 22 Depot Street. The rates of trash generation are quoted from the Environmental Protection Agency "National Overview: Facts and Figures on Materials, Wastes and Recycling" last edited 2018.

Apartment Trash Generation:

Four Two-bedroom Apartments are occupied at the rate of 1.5 persons per bedroom. This would result in an estimated 12 total occupants.

Garbage

3.44 pounds per person per day total household waste

$$12 \times 3.44 \times 30 = 1238.40 \text{ lbs. / month}$$

$$1238.40 \text{ pounds} / 350 \text{ pounds per yard}$$

$$3.53 \text{ yards or four One-Yard roll away containers per month}$$

Recycled material

1.16 pounds per person per day

$$12 \times 1.16 \times 30 = 417.60 \text{ lbs. / month}$$

$$417.60 \text{ pounds} / 350 \text{ pounds per yard}$$

$$1.19 \text{ yards or one One-Yard roll away containers per month.}$$

Compost

0.30 pounds per person per day

$$12 \times 0.30 \times 30 = 108 \text{ lbs. / month}$$

108 pounds / 25 pounds per bucket

4.32 Five Gallon Buckets of Compost

Office User Trash Generation:

Estimated 6 employees @1.24 pounds per employee per day = 7.44 pounds

7.44 pounds per day x 30 Days = 223.20 pounds per month.

223.30 pounds / 350 pounds per yard = .63 yards or one One-yard Roll Away Container per month

Summary:

The project will likely generate a single one-yard container per apartment per month plus one additional container for recycled materials. The office space will require one roll away container for trash. So, once a month, the private hauler would have to retrieve 6 one-yard roll aways for trash and recycling and four 5-gallon pails for compost.

The roll way containers and buckets would be kept in the proposed garden shed. The private hauler would retrieve the containers from the shed to the rubbish truck. That requires them to cross the parking lot to the shared driveway where the rubbish truck would likely park. Bi-weekly pickups could greatly reduce the container handling on pick-up days. That said, the volume of total household waste will not result in an undue or unsanitary condition. Monthly pick ups suggest that the process of picking up household waste would not constitute an undue or adverse impact on abutters or the community.

Please let me know if you need any additional information about this, or any other issue under consideration.

Sincerely,

Gregory Rabideau AIA
Rabideau Architects Inc.