



TAYLOR
ARCHITECTURE & DESIGN

Trash Generation Calculations for:

1112-1118 NORTH AVENUE
PLAINFIELD, NEW JERSEY

NEW APARTMENT BUILDING

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Project Name: 1112-1118 North Avenue
Location: Plainfield, New Jersey
Subject: Trash Generation Calculation

Project No. 2207
20-Apr-22

Residential Trash Generation Calculations

1 Bedroom/Studio Units	49 Units			
49	Units	x	1.1 Average Occupancy	= 53.9 Occupants
2 Bedroom Units	6 Units			
6	Units	x	2.3 Average Occupancy	= 13.8 Occupants
3 Bedroom Units	0 Units			
0	Units	x	3.4 Average Occupancy	= 0 Occupants
Total Occupancy				= 67.7 Occupants

Assume 21 lbs. / Person / Week

$$21 \text{ Lbs.} \times 67.7 \text{ Occupants} = \mathbf{1422 \text{ Lbs. / Week}}$$

Commercial Trash Generation Calculations

Square feet of Commercial:	=	0 Sqft.
Employees per Sqft. of Commercial:	=	500 Employees / Sqft.
Number of Employees	=	0 Employees
Lbs. per Employee / Day	=	10.53 Lbs.
Trash Per Day	=	0 Lbs. / Day
Trash Per Week	=	0 Lbs. / Week
Total Trash Per Week:	=	1422 Lbs. / Week

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Trash Pick Up Calculations

Residential Trash	=	1422 Lbs. / Week
Commercial Trash	=	0 Lbs. / Week
Total Trash	=	1422 Lbs. / Week
Assumed Trash Volume	=	175 Lbs. / Cubic Yards (CY.)
1421.7 Lbs. / 175 Lbs. / CY.	=	8.124 CY.
Trash Compaction Ratio	=	20%
Compacted Trash Volume	=	1.625 CY.
Container Size	=	2 CY.
Number of Containers	=	1 Container
Trash Per Pick Up	=	2 CY.
Trash Pick Ups Per Week	=	1 Pick Up

A total of three (3) two-yard containers are proposed for this development. Of the three, one will be dedicated for trash, one for recycling, and one for paper and cardboard.

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Residents will bring their trash to the trash rooms on each floor of the building. They will deposit trash in the chute which collects the trash at the first floor trash room. The trash is reduced by the compactor and pushed into two yard containers.

A 96 gallon container will be provided at the trash room on each level for recycleables. These containers will be removed by building management the contents put into a two yard container in the first floor trash room. Cardboard will also be stored in the trash room on each level and be moved by management to the two yard container at the first floor trash room.

All trash & recycling containers are picked up (1) time per week by PMU or alternate trash pick up service. Additional pick ups to be made as needed.