VENNERI CONSULTING ENGINEERS LTD.
1–1170 SHEPPARD AVE. W., TORONTO, ONTARIO M3K 2A3
T: 416–635–7838
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mechanical electrical commissioning
www.vennerieng.com

May 17th, 2025

Burlington Hydro Electric System Ltd.
1340 Brant St., Burlington, ON, L7R 3Z7
Customer Connections & Key Accounts

Attention: Mrs. Rosso Parra

Re: 35 PLAINS,
35 Plains, Road East.
Burlington, Ontario.
Our Project No.: 21-35

Dear Mrs. Rosso,
The estimated electrical demand load analysis for the above noted project is as follows:

Total Number of Units per Building	161	
100% of calculated load of largest unit	12.0	kW
65% of calculated load of next 2 units	15.6	kW
40% of calculated load of next 2 units	9.6	kW
25% of calculated load of next 15 units	45	kW
10% of calculated load of remaining units	170	kW
Total Demand Load in suites per Bldg	252	kW
(Excluding htg/cooling load) (as per ESA 8-202)		
Elec. htg/cooling Demand Load in suites per Bldg.: (Per ESA 62)	239	kW
Retail unit Demand Load:	303	kW
Car charging Demand Load for 12 parking lots (10% of 116): (with load sharing 1:4 and demand factor 0.9 per ESA table 38)	17.5	kW
Additional Demand Load not in residential suites (common area) (Mech. equip. operating all years with demand factor 0.75)	154	kW
Additional Demand Load not in residential suites (common area) (Includes lighting & power with demand factor 0.75)	76	kW
Additional Demand Load not in residential suites (common area) (Elec. Cooling Load per ESA 62)	201	kW
Elevators loads (2 elevators) (Per ESA Table # 62 with demand factor 0.95)	44	kW
Total Demand Load per Building:	129	kW

Main service size: 1200A, 347/600V, 3 Phase, 4W

Yours truly,
VENNERI CONSULTING ENGINEERS LTD.

Digitally signed by Maher Girgis
Date: 2025.05.16 16:30:17-04'00'

Maher Girgis, P.Eng.

LICENSED PROFESSIONAL ENGINEER
May.16,2025
M. W. T. GIRGIS
100538982
PROVINCE OF ONTARIO