cinilittle.

WASTE MANAGEMENT PLAN

490, 496 and 508 Walkers Line Redevelopment

Burlington, Ontario

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EXECUTIVE SUMMARY

Cini-Little International, Inc. has been retained by 2381792 Ontario Ltd. to investigate the waste handling alternatives for 490, 496 and 508 Walkers Line Redevelopment, a new residential redevelopment located at 490, 496 and 508 Walkers Line, Burlington, Ontario.

The development consists of 16 newly built townhouses and a single detached house in a heritage building. Based on the residential units, it is estimated that the development will:

- Generate 6.84 cubic meters of waste per week of which 3.9 cubic meters can be easily removed for recycling.
- Therefore, a total of 2.94 cubic meters of landfill waste will be collected weekly by bulk-lift vehicles belonging to the Region and taken to the landfill site.

Residents will store one Garbage Receptacle, two Recycling Containers and one Organic Receptacle in the Garage. Residents will place the waste receptacles at the 'Set Out' area of 2.5 meters at the Private curb in front of the residential unit no further than 2 meters from the Private Road on waste collection day.

The Garbage Receptacles will be either a rigid container of capacity **less than 125 liters** or a polythene/other plastic bag durable to support weight of **no more than 22.7 kilograms** which meets the requirement specified by the Region of Halton.

The Recycling Receptacles will be rigid, open **100-liter** plastic containers (known as Blue Box) provided by the Region of Halton which meets requirements specified by the Region.

The Organic Receptacles will be rigid plastic bins with or without wheels of a capacity ranging **between 35 to 50 liters** provided by the Region of Halton which meets requirements specified by the Region.

The storage of **1 square meter** for one Organic Waste Receptacle, one Recycling Container and one Garbage Receptacle will be provided for each residential unit in the **Garage** and will have a method of appropriate ventilation to minimize and/or control odors.

A Set Out area for collection at the Private Curb in front of the residential units of no less than **2.5 square meters** per each unit and no further than two meters from the Private Road is indicated in the design.

INTRODUCTION

The volumes and types of waste presented in this report are estimates based on our own experience and empirical data as it pertains to multi-residential developments.

The goals of the preferred waste-handling program are to follow waste handling regulations and to minimize the cost of handling the materials while addressing the problems of storing both recyclable and non-recyclable waste material on site for pick-up. This report will act as a general guideline with the understanding that a specific detailed program may be refined by the Property Management Company of this complex.

We welcome comments on the findings herein and will work closely with 2381792 Ontario Ltd., retained professionals, and the Region of Halton to ensure that appropriate waste handling facilities are incorporated. Our goal is to develop a functional project that meets the needs of its owners, tenants, users, and surrounding community, while following practical waste handling regulations.

PROJECT COMPONENTS

The 490, 496 and 508 Walkers Line Redevelopment Project will incorporate:

- 16 newly built townhouses and a single detached house in a heritage building.
- Residents will place the Garbage, Recycling and Organics Receptacles at the 'set out' area beside the Private Road.

NOTE: Site will be designed to satisfy most of the Region of Halton's requirements for waste pick up of garbage and recycling materials for the residential townhouses. The development is pursuing Private Waste Hauling services.

RESIDENTIAL WASTE MANAGEMENT

GENERATION ESTIMATES

Table 1 below illustrates the waste and recyclable material generation estimates for 17 residential units in the development. The estimates are calculated in volumes shown as cubic meters per week. All calculations are shown uncompacted. These volumes, in conjunction with the architectural plans, are used to determine the equipment, spaces and frequency of collection required to service the townhouses.

TABLE 1

WASTE GENERATION ESTIMATE

DESCRIPTION	TOTAL UNITS	CUBIC METERS [m3] PER WEEK						
		WASTE GENERATION ESTIMATE	ORGANIC WASTE	CORRUGATED CARDBOARD	GLASS CANS PLASTICS	NEWSPRINT PAPER	REMOVABLE RECYCLABLE MATERIALS	TOTAL WASTE TO LANDFILL
		A	B	C	D	E	F = B+C+D+E	G = A-F
Townhouse Units	16	6.08	0.73	1.22	1.22	0.30	3.47	2.61
Detached Unit	1	0.38	0.05	0.08	0.08	0.02	0.22	0.16
Total Residential	**17**	**6.46**	**0.78**	**1.29**	**1.29**	**0.32**	**3.68**	**2.78**

Based on the calculations above, it is estimated that 18 residential units will generate 6.46 cubic meters of waste per week of which 3.68 cubic meters can be easily removed for recycling. Therefore, a total of 2.78 cubic meters of uncompacted waste will be collected weekly by bulk-lift vehicles belonging to the region and taken to the landfill site.

Other Waste Materials

Universal and Recyclable Hazardous Waste:

- E-Waste includes items such as print cartridges, computers, electronic cords, phones, etc. Recyclable hazardous waste includes such items as batteries, light bulbs, etc.
- Residential will adhere to the Region of Halton's Waste Guidelines for the disposal of Universal and Recyclable Hazardous Waste.

Non-Recyclable Hazardous Waste:

- Non-recyclable hazardous waste includes materials such as paints, aerosol cans, chemicals, hazardous oils, medical waste, sharps (needles), etc.
- Residential will adhere to the Region of Halton's Waste Guidelines for the disposal of Non-Recyclable Hazardous Waste.

Landscape Waste

- There is no landscape waste associated with this development project as it is expected the Landscape Contractor will be responsible for removing their own materials from the site.

REGION OF HALTON WASTE COLLECTION REQUIREMENTS

Following are the requirements to be fulfilled to avail municipal pickup for Residential Units/Townhouses fronting a Private Road by Region of Halton which will be met.

- All Private Road layouts shall be designed and constructed in accordance with applicable legislation and by-laws and will be guided by the following:
- Private Roads layouts shall allow for direct, consistent and safe access from a Municipal Road to the Waste Collection Point and back to the Municipal Road without delays or reversing onto the Municipal Road.
- Private Road layouts shall allow for the continuous forward collection of Waste without the need for Waste collection vehicles to reverse.
- All Private Roads shall be constructed with a hard surface, such as asphalt, concrete, or another suitable material acceptable to the Region, and have a minimum width of 6 metres.
- All turns shall have a minimum turning radius from the centre line of 13 metres to the satisfaction of the Region.
- Overhead clearance throughout the Private Road must be a minimum of 7.5 metres and be free from obstructions such as overhangs, awnings, utility wires, balconies, and must be kept clear of tree branches, etc.
- All Private Roads and supported structures along the Waste collection route must be designed and constructed to support a minimum of 35 tonnes (the weight of a fully loaded Waste truck). If Waste collection vehicles are required to drive onto or over a Supported Structure the Region must receive a letter, certified by an Ontario Professional Engineer, in advance of any initial Waste collection, indicating that the supported structure can support a fully loaded Waste truck.

490, 496 and 508 Walkers Line Redevelopment Project shall request Region of Halton to review the proposed design and allow Region's Waste Collection. In case, if property management/residents opt to avail services of a Private waste hauler for residential waste then no rebate or refund in municipal taxes shall be provided to the development.

APPENDIX I – SITE PLAN



APPENDIX II – WASTE 'SET OUT' AREA FOR EACH TOWNHOUSE

