

November 8<sup>th</sup> 2024

Eric Schlange  
**Demarco Construction**  
195 Menten Place, Unit 103  
Ottawa, ON, K2H 9C1

**Project :** 375 Codd  
**Object :** Interference between building foundation and infiltration chamber  
**Opus :** 24-0019

Sir,

Elema Experts-Conseils inc. (Elema) has been hired to prepare the specs and drawings of the structure of the future building located at 375 Codd, Ottawa.

The project consists of a new cast-in-place concrete residential building of 6 floors above ground and one level of underground parking.

As foreseen by the geotechnical study performed by Yuri Mendez Engineering, summarized in report 54-BOI-R2, dated August 29<sup>th</sup> 2023, the building foundations will rest on sound bedrock.

The elevation of the underside of the strip footings next to the infiltration chamber will be at elevation 86.59m (geodesic).

The foreseen bottom of excavation for the infiltration chamber is 86.46m.

The infiltration chamber will be located 1.3m away from the foundations wall of the building.

The vertical delta between bot bottom of excavation is 130mm, for an horizontal delta of 1300mm, resulting in a 1V:10H ratio, well within the usual 1V:1H limit.

We therefore do not considerer the projected levels of excavation being structurally end geotechnically problematic.

Considering the 1V:1H limit, a comfortable margin will still be available for future maintenance work requiring additional excavation.

Annex A illustrate the section between the future foundation wall and bottom of excavation of the infiltration chamber.

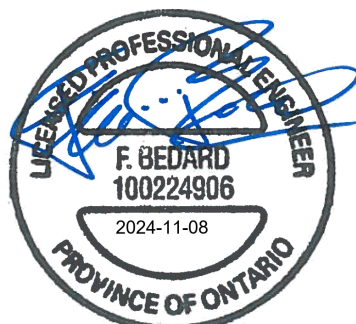
Please do not hesitate to contact the undersigned should you require additional information.

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H4C 1H2



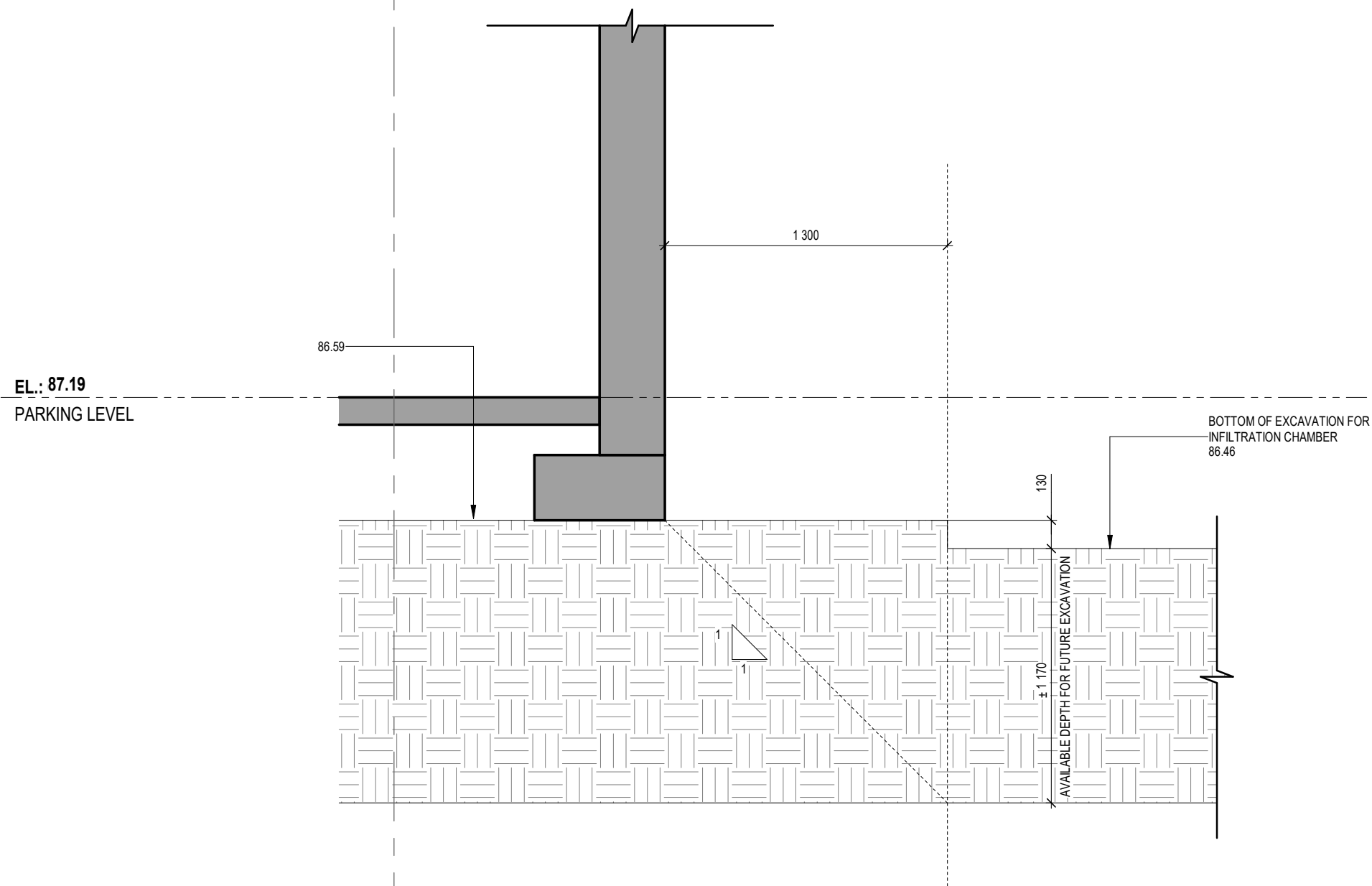
Félix Bédard, P.Eng., M.Eng.  
PEO 100224906  
Elema Experts-Conseils inc.

**Project :** 375 Codd

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## **ANNEXE A | FOUNDATION WALL SECTION**

09



**1** **COUPE**  
S-090 Scale: 1 : 25

No	DESCRIPTION	DATE
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3500 saint-jacques | suite 101  
montréal | québec | h4c 1h2  
MONTRÉAL | TORONTO | QUÉBEC CITY | CALGARY

**NOT FOR CONSTRUCTION**

stamp



project

**Waterridge Apartment Building**  
375 Codd's Road, Ottawa, On

title

**SECTION**

designer:

Félix Bédard, ing.

checked by:

Félix Bédard, ing.

technician:

MG

contract:

24-0019

sheet:

**S-201**

STRUCTURAL PLAN