

**re: Foundation Drainage Details**  
**Proposed Building Addition**  
**314 Bell Street South - Ottawa**

**to: HD & P - Mr. Lucas Tardioli - [egarfinkel@regionalgroup.com](mailto:egarfinkel@regionalgroup.com)**

**date: October 13, 2021**

**file: PG5905-MEMO.01**

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Further to your request, Paterson Group (Paterson) prepared the current memorandum to provide our recommended foundation drainage details for the proposed building addition to be located along the southern side of the existing structure at 314 Bell Street South in the City of Ottawa. The following memorandum should be read in conjunction with the Geotechnical Investigation Report (Paterson Group Report PG5905-1, dated August 23, 2021).

## **Foundation Drainage**

It is recommended that a perimeter foundation drainage system be provided for the proposed building addition, and should consist of a 150 mm diameter, perforated and corrugated plastic pipe, which is surrounded on all sides by 150 mm of 19 mm clear crushed stone.

An underslab drain is also recommended on the north end of the proposed building to control water infiltration below the basement floor slab. The underslab drainage pipe should also consist of a 150 mm diameter, perforated and corrugated plastic pipe.

The perimeter drainage should be connected to the perimeter drainage system of the existing building, if present, otherwise it should have a gravity connection to the storm sewer, or the sump pit within the basement level. The underslab drainage should also have a gravity connection to the storm sewer, or to the sump pit within the basement level.

The invert elevations of the underslab and perimeter drainage pipes should be 300 mm below the underside of the basement slab.

The approximate layout of the underslab and perimeter drains are provided on the attached sketch. However, the spacing of the underslab drainage system should be confirmed at the time of completing the excavation when water infiltration can be better assessed.

We trust that this information satisfies your immediate requirements.



-Kevin A. Pickard, EIT



Scott S. Dennis, P.Eng

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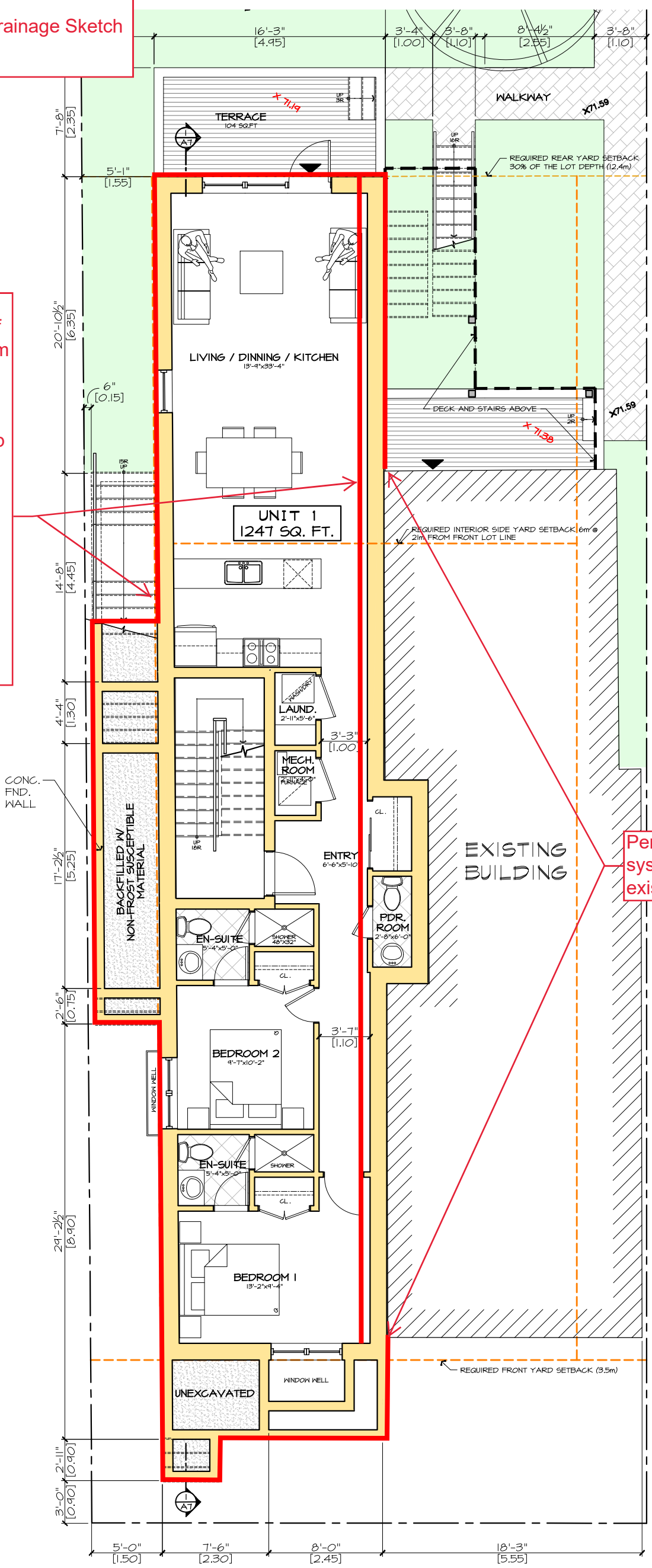
PG5905-MEMO.01  
Perimeter and Underslab Drainage Sketch  
October 13, 2021

Underslab and perimeter drainage pipes to consist of geotextile-wrapped, 150 mm diameter corrugated and perforated PVC pipe.

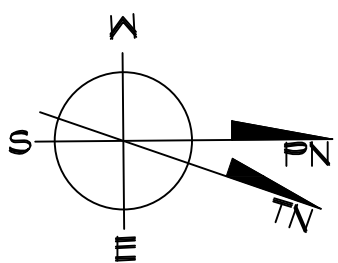
The inverts of the underslab and perimeter drainage pipes should be a minimum of 300 mm below the underside of slab.

Provide clean-outs to the drains at every 2nd joint.

Discharge drains to the sump pit(s).



Perimeter Drainage system to tie into existing system.



**BASEMENT FLOOR PLAN-OPT.A**  
SCALE: 1/8" = 1'-0"  
1375 GSF

**A2**  
DWG. No.:

DATE: 2018-09-28  
CHECKED: JPH  
DWG BY: AS

PROJECT No.:  
**2018-22**

1	CLIENT REVIEW	28-09-2018
2	CLIENT REVIEW	05-03-2020
3a	PLANNING REVIEW	11-06-2020
4	CLIENT REVIEW	24-08-2020
5	CLIENT REVIEW	01-09-2020
6	CLIENT REVIEW	13-05-2021
7	REVIEW	09-06-2021
8	SPC SUB.	16-06-2021

314 BELL ST. S.

PROJECT TITLE

