



Grading and Site Servicing Plan

New Campus Development for
The Ottawa Hospital
Phase 4: Main Hospital Project
Ottawa, Ontario

March 27, 2026
(Issued for SPC Resubmission)

Prepared by Paterson Group Inc.



re: Grading and Site Servicing Plan Review
The Ottawa Hospital - Civic Campus Redevelopment Project
951 Prince of Wales Road - Ottawa

to: DEVCO

date: March 27, 2026

file: PG6982-MEMO.06

Further to your request and authorization, Paterson Group (Paterson) prepared the current memorandum to complete an excavation, grading and site servicing plan review for the proposed residential development at the aforementioned site. The following memorandum should be read in conjunction with the following reports:

- PG6982-1 A2_3.0 Geotechnical / Hydrogeological Report (SPC), dated March 27, 2026
- Project No. CA0027758.0-51, Drawing Nos. C5-200 to C5-203 Revision 10 – Site Grading Plan, dated March 27, 2026, prepared by WSP Canada Inc.
- Project No. CA0027758.0-51, Drawing Nos. C1-200 to C1-203 Revision 10 – Site Servicing Plan, dated March 27, 2026, prepared by WSP Canada Inc.

1.0 Grading Plan Review

1.1 Permissible Grade Raise

The proposed building is expected to be constructed over pile foundations extending to the bedrock bearing surface or on conventional shallow foundations placed over a bedrock bearing surface or an undisturbed glacial till bearing surface.

Therefore, a permissible grade raise restriction is not applicable to the building foundations.

Based on our review of the above-mentioned site grading plans, the majority of the proposed grades were noted to be at or below the existing ground surface elevation. Paterson reviewed all the slopes, grading and retaining walls across the site. Based on our review, the grading across the site is considered acceptable.

Therefore, based on our review of the above noted drawing in consideration of the subsurface profile encountered at the time of our investigation, the grading is considered acceptable from a geotechnical perspective. No additional measures such as lightweight fill or settlement monitoring programs will be required to accommodate the proposed finished grades as noted on the aforementioned grading plan.





1.2 Site Drainage

Paterson also completed a review of the drainage and LID systems across the site, and the slopes and invert elevations of the LID systems were considered acceptable from a geotechnical perspective.

1.3 Tree Planting Restrictions

Since the structure will be founded on non-cohesive soils, trees and landscaping planned throughout the subject site will not be subject to planting restrictions as based on the City of Ottawa Tree Planting in Sensitive Marine Clay Soils (2017 Guidelines) from a geotechnical perspective. Tree planted behind (on top) of segmental retaining wall should be setback a minimum of 2 m and planted with root control measures such as root barriers or bags.

2.0 Site Servicing Plan Review

2.1 Frost Protection

As per the City of Ottawa standards, all the storm and sanitary service pipes should be provided with a minimum of 2.0 m of soil cover for frost protection. Based on our review of the above-reference site servicing plans, some of the stormwater service pipes along the east side of the building - between MHST 213 to MHST 214 and between MHST 211 to the building, were observed to have less than 2.0 m of soil cover for frost protection.

Where insufficient soil cover (i.e.- less than 2.0 m) is available for the stormwater pipes, the following frost protection criteria outlined in Table 1 is applicable.

Soil Cover Provided D (mm)	Insulation Dimensions (mm)	
	Thickness (mm)	Length (mm)
800 to 1,100	100	Extend 1,200 mm horizontally beyond the edge face of the pipe
1,100 to 1,400	75	Extend 900 mm horizontally beyond the edge face of the pipe
1,400 to 1,700	50	Extend 600 mm horizontally beyond the edge face of the pipe
1,700 to 2,000	50	Extend 300 mm horizontally beyond the edge face of the pipe



The rigid insulation should be placed 150 mm above the pipe on top of a compacted Granular A backfill and should have a minimum of 150 mm of Granular A or Granular B Type II backfill above the rigid insulation. Rigid insulation placed underneath roadways should consist of minimum HI-40 or equivalent.

As per the City of Ottawa standards, all watermain pipes are recommended to be provided with minimum 2.4 m of soil cover.

2.2 Retaining Walls

Based on our review, of the above-mentioned Grading and Site Servicing Plans, the section of the stormwater pipe between MHST 214 to the SWM Tank Chamber 201 and the SWM Tank Chamber 201 will be located within the lateral support zone of the **Retaining Wall #3**. Furthermore, the proposed watermain service pipe to be located along the southeast of **Retaining Wall #4** was also noted to be within the lateral support zone of the proposed retaining wall. It should be noted that these retaining wall designs should ensure future maintenance of the services within these sections.

Furthermore, some of the proposed retaining walls along the north side of the building are to be located in close proximity to the proposed and existing underground services. Given the depth of these services, the retaining walls are not expected to impose any significant additional loading. However, any future excavation required for repair or maintenance of these services following construction of the retaining walls should be appropriately shored to maintain the integrity of the retaining walls and protect their lateral support zones.

3.0 Conforming

Provided the above items are taken into consideration, the above-mentioned Site Grading and Site Servicing plans are considered acceptable from a geotechnical perspective.

We trust that the current submission meets your immediate requirements.

Best Regards,

Paterson Group Inc.

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