



MEMO

TO: Jessica Valic, P.Eng. City of Ottawa
FROM: David Feghali, P.Eng. PMP
SUBJECT: 415 Legget Drive Site Redevelopment – Site Grading Plan Review
DATE: June 23, 2022

We are pleased to submit this review memorandum as requested by the City during the City's first review of the site grading plan, dated October 25, 2021 and our draft geotechnical report dated October 2021. Since these submissions, the site grading plan and our geotechnical report has been updated. Upon additional geotechnical analysis, the permissible grade raise has been increased to 1.0 m in areas 2 m beyond the existing building and the two proposed buildings. Within 2 m of this existing building and the two proposed buildings, the allowable grade raise using traditional fill materials is 0.3 m. Light weight fill materials, such as Lightweight Cellular Concrete (LCC) or Extruded Polystyrene Foam (EPS) foam blocks are needed to raise the grade beyond this 0.3 m grading restriction.

We have reviewed the revised site grading, dated March 18, 2022. The majority of the proposed areas of grade raise are below the permissible limit, however there are some areas where the grade raise restriction of 1 metre is exceeded, such as the north side of Building A along Solandt Road. These areas will need to be composed of light weight fill material. Future revisions of this grade plan will need to show this lightweight fill material requirement. Additional geotechnical review is suggested to ensure such filling requirements are included on future grading and structural plans.

We trust that the information contained in this report is satisfactory. Should you have any questions, please do not hesitate to contact this office.

WSP Canada Inc.

David Feghali, P.Eng. PMP
Sr. Geotechnical Engineer