

April 1st, 2021

Kevin M. Duguay Community Planning and Consulting Inc.
560 Romaine Street
Peterborough, ON K9J 2E3

Attention: Mr. Kevin Duguay, MCIP, RPP

Dear Mr. Duguay:

**Re: Wildfire Golf Course
ZBLA Submission
Proposed Cart Storage Building Addition
Township of Douro-Dummer
Engage Engineering Project No. 21013**

Engage Engineering Ltd. (Engage) has been retained by Wildfire Golf Course to provide civil engineering services to support the site plan and rezoning application for the proposed cart storage building addition, located at 2215 Wildfire Drive, in the Township of Douro-Dummer. This letter has been prepared to present the preliminary stormwater management and fire protection design.

As part of the site plan development process, Engage will be preparing a detailed stormwater management (SWM) report, servicing brief and support servicing and grading drawings to support the SWM design and SPA application process.

The proposed cart storage building will increase the impervious area on the site by approximately 470m² and therefore will cause an increase in peak flows when compared to pre-development levels. In order to manage this minor increase in peak flows, the preliminary stormwater strategy is to collect rooftop runoff from the building via swales and direct it to an enhanced grassed swale facility southeast of the proposed building. Peak flows will be attenuated in this facility and released at the corresponding pre-development levels to the existing conveyance swale. The existing conveyance swale takes flows from the existing parking lot and conveys them south, through a small pond and eventually into the roadside ditch on County Road 6. This stormwater approach along with supporting calculations and design drawings will be provided in the forthcoming Site Plan application.

In order to provide fire flow protection for the proposed building an existing stand pipe will be utilized. The existing standpipe connects to the pond to the north of the existing clubhouse building and the pond has sufficient volume to provide fire flow protection

for both buildings. Supporting fire flow calculations based on the Fire Underwriters Survey will be provided in a servicing memo in forthcoming Site Plan application.

We trust this information meets with your concurrence. Please do not hesitate to contact our office if you have any questions or concerns.

Sincerely,



Brad Parsons, P. Eng.
Water Resources Engineer