SEEA ENGINEERING
Safe-Efficient-Environmental-Affordable

SEEA Engineering Group
800 King Edward Street
Ottawa, ON, K1K 1T1

Ottawa, March 5th, 2019

Wojciech Remisz, M.Sc., P.Eng, FCSCE
Designated Consulting Engineer
President of Remisz Consulting Engineers Ltd
57 Auriga Dr., Suite 102, Ottawa, ON K2E 8B2

Re: Community Train Station Building Project

Dear Mr. Remisz,

We are a group of fourth year engineering students specialized in structure, geotechnical and project management. As part of our final project, we have selected the Community Train Station Building Project which objective is to design a sustainable, flexible and modular train station building and provide a frame guideline for the implementation of the first wave of Moose Consortium Inc train stations. Our interest in the project resides in the different aspects of design covered. We have the opportunity to use sustainable construction materials to apply a modular design strategy, provide accommodations for people with disabilities, cyclists and families and practice geotechnical design according to the relevant codes and standards. Besides, our group is eager to contribute to the improvement of public transportation.

The transit system being developed by Moose Consortium has a major impact on our community on the economic, social and environmental aspects. Ottawa is subjected to a rapid economic growth due to the large supply of employments and receives employees from all around the National Capital Region. However, there is lack of options regarding public transit mean to move from the rural and suburban areas to the urban core. This results in increasing the daily level of congestion in Ottawa which causes delays, pollution, economic loss and affects safety. Last year, the Traffic Index released by TomTom Nv ranked Ottawa the fourth most congested city in Canada. It evaluated the time spent in the traffic by residents to eighty-five hours a year. Although traffic management improvement, car and bike sharing have been implemented, the future commercial services such as Amazon or the new Ottawa Central Library will worsen the traffic conditions. The consequence is the intensification of carbon monoxide release, the deficit of real estate prices in the subjected areas and the delays of emergency responses. The new transit system will constitute a stronger alternative to reduce congestion and facilitate transportation from the outskirt areas of Ottawa.

As part of the project, a feasibility study which explores the ability to design a medium modular train station based on a set of criteria (sustainability, flexibility, reduced implementation time and cost minimization) has been completed. It summarized the deep research carried out and the successful meetings attended with Moose Consortium Inc collaborators in order to define the challenges we were facing. The alternative selected from this study was the design of the train station building with wood and steel framing as main components. The project is currently on its design stage. Detail drawings are being implemented along with a project management scheme.

We look forward to presenting you the design drawings and specifications in the next step of our project. Please accept Mr. Remisz, our most sincere salutations.

Yours truly,

On behalf of the train station group
Mathieu Lemaire-Paul