

DALHOUSIE UNIVERSITY

FACULTY OF ENGINEERING

## **Project Scope**



- Building

Given:

- Geotechnical Profile

## **Iterative Design Process** • Dead • Live



# **Conclusions and Recommendations**

- Total Project Price (Class D Estimate) - \$21.5 Million
- **Total Construction Duration** - 16 Months

# Acknowledgments

- Dr. Pedram Sadeghian
- Dr. Yi Liu
- Dr. Craig Lake
- Dr. Jane Thorburn
- Mr. Reza Rahimi

- LEED Recommendations:
- i. Rainwater Collection System
- ii. Fly Ash in Concrete Mix
- iii. Energy/Water Saving Appliances
- iv. Indoor/Outdoor Bike Storage

## References

- Google Maps, 2019. 72 Primrose St.,

### Dr. Pedram Sadeghian 6-Storey Mixed Use Concrete Building Department of Civil Engineering

#### • 6-Storey Mixed-Use Concrete

• Located in Highfield Park, Dartmouth near Albro Lake

• Architectural Schematics Client seeking LEED Certification • Commercial space on Main Floor



Autodesk. AutoCAD & Revit [Computer Software]. Autodesk, Inc. San Rafael, CA, USA. Computers & Structures, Inc. ETABS [Computer Software]. Walnut Creek, CA, USA.

Dartmouth NS. Retrieved March 26, 2019. National Research Council of Canada, 2015. National Building Code of Canada. NRC





# **Details of Design**



## Omar El-Ajou Zibin He **Mohamed Hassan** Alex Place