



## THE ONE, 1 BLOOR WEST

Toronto, Ontario, Canada

**Project Scope:** Engineering Professional Services for Physical Security

**Size:**

**Project Start:** 2016

**Project Completion:** 2017

**Client Reference:**

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**Project:** “The One” will be Canada’s tallest building at over 300 metres (1,000 feet) tall. It will be taller than the current record holder (First Canadian Place at 978 feet and 72 storeys), which has been Canada’s tallest building since 1976, as well as the proposed Mirvish + Gehry West Tower. In fact, when completed, it will be the tallest skyscraper in Toronto and the tallest skyscraper in Canada. The One is across the street from the newly completed 257 metre (844 feet) tall One Bloor East tower.

The podium will feature eight floors of retail, restaurant, and café spaces designed around a diagrid system. An atrium to the East will feature an indoor-outdoor wall which will face onto Bloor Street. Below ground a connection to the PATH and TTC has been designed along with parking for 600 valet spaces. Directly above the retail podium an amenity area will be accessible by a bridge on the twelfth floor for the residents of the 560 residential suites.

**Assignment:** Develop a threat analysis study for the building given its iconic status, its location in close proximity to the One Bloor building, and at a major intersection in Toronto (Bloor and Yonge). A wide variety of possible threats are to be considered, including some that may occur outside the building due to a vehicle-borne improvised explosive device (VBIED), or inside the building due to a person-borne improvised explosive device (PBIED). In addition, other threats such as arson, ballistic attack, CBR attack, etc., are to be considered.

**Responsibilities:** Gathered required background information from major stakeholders (Owner, Developer, Architect, other consultant teams) and law enforcement agencies (Toronto Police, etc.). Analyzed various threat scenarios to determine their risk of occurrence. Estimated potential Design Basis Threats (DBTs). Participate in team potential active and passive protection measures. Developed a comprehensive threat assessment study.

