



# OTTAWA LRT CONFEDERATION LINE TUNNEL

OTTAWA, ON

## QUICK FACTS

- + Major Transportation Initiative
- + 2.5 km Tunnel
- + Smith + Andersen Electrical for tunnelling portion of the project



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# OTTAWA LRT CONFEDERATION LINE TUNNEL

## ABOUT THIS PROJECT

- + Provided electrical engineering services for the tunnelling portion of the Confederation Line.
- + Overall tunnel is 2.5 kilometers in length underneath the downtown core.
- + Used tunnel boring machines to create the tunnel.
- + Provided the utility coordination for three separate electrical services at three different locations along the tunnel:
- + Designed the 15kV and 600V distribution for each tunnelling site.
- + Assisted in the design and specifications of the portable underground substations
- + Provided 15kV and 600V distribution for the tunnelling and mining equipment including ground fault and ground check systems for the underground equipment.
- + Provided 600V distribution for all the surface equipment related to the project
- + Design of the emergency power distribution at each site
- + Provided surface and underground illumination
- + Coordinated with the design of the stations

**LOCATION**  
Ottawa, ON

**SMITH + ANDERSEN  
SERVICES PROVIDED**  
Electrical

**SIZE**  
2.5 km Tunnel

**BUDGET**  
Confidential

**COMPLETION YEAR**  
2018

## HOT BUTTONS

BUS / TRAIN

ELECTRICAL DESIGN



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