

Public Information Material

Project Background:

- The Keele facility is a combined bus transfer and subway station located at the north east corner of Bloor and Keele Street and was constructed around 1964.
- Concerns expressed by neighbouring residents about noise emanating from the bus transfer area from idling buses.
- Responding to the concern, TTC retained acoustic consultants in November 2006 to conduct an acoustical study in the bus transfer area.
- In 2008, TTC retained consultants to develop concepts for a noise barrier wall along the north and south side of the Keele subway station.

Current Status:

- Detailed design has now been completed.
- Renderings of the proposed wall have been created.

Next Steps:

- Construct four (4) meter high acoustic barrier wall consisting of *Durisol* acoustic panels supported by steel posts. The noise barrier wall would provide sound separation for residences both north and south of the subway station.
 - Construction Start : Late Summer/Early Fall 2009



Noise Impact Study Results:

- At this time, the Keele Station property is bounded by an approximate 1.7m high chain-link fence, providing no acoustical and visual shielding of the bus operations.
- The main noise sources are due to bus operations and idling. Background noises are further magnified if there are more than one bus idling near each other.
- Due to noise sources being so close to property line (within 4m), the most effective noise mitigation option is to install an acoustical barrier wall.
- The acoustical barrier wall that would best provide noise attenuation would consist of a 4m high acoustic wall (with a 15m section 5m high) along both north and south property lines where residential units share boundaries with the station.



Proposed Wall Renderings:



AECOM

Keele Subway Station Acoustical Barrier Walls birdseye view from the east



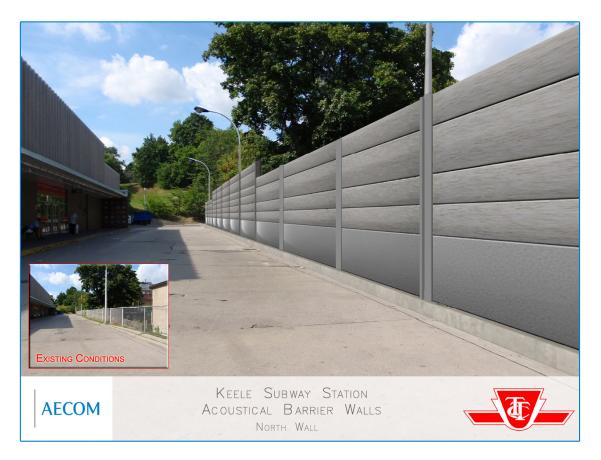




Keele Subway Station Acoustical Barrier Walls birdseye view from the north



Proposed Wall Renderings:



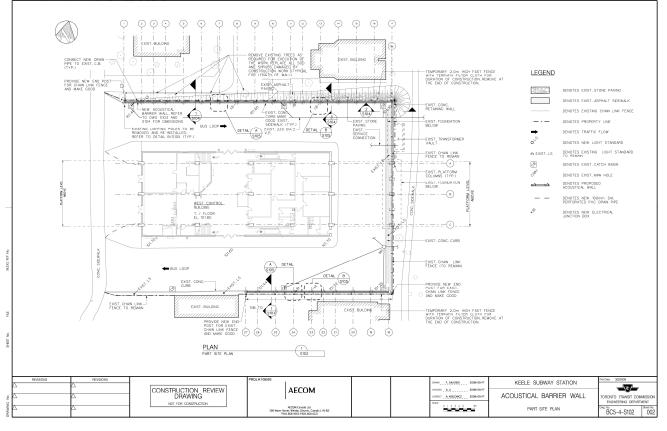


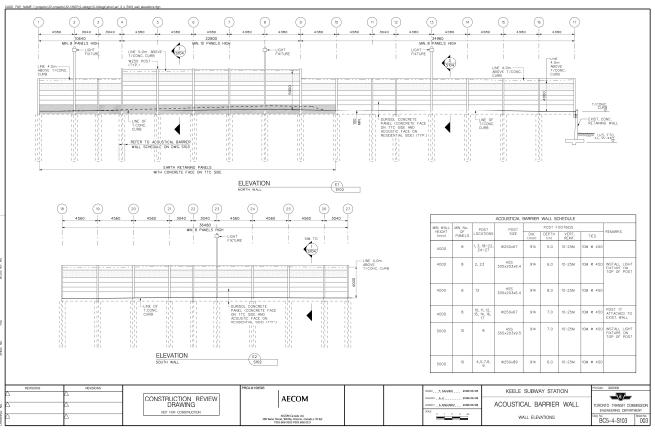
Proposed Wall Renderings:



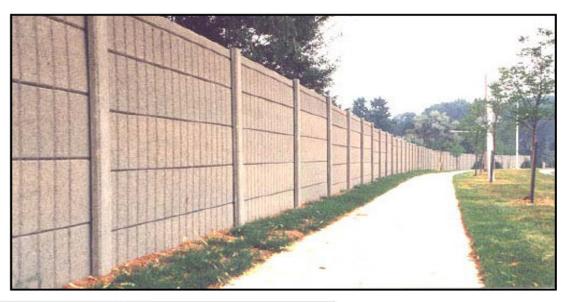


Construction Review Drawings:

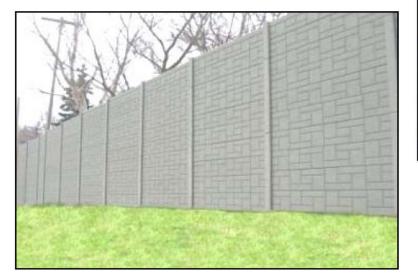


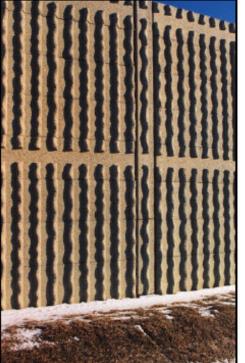


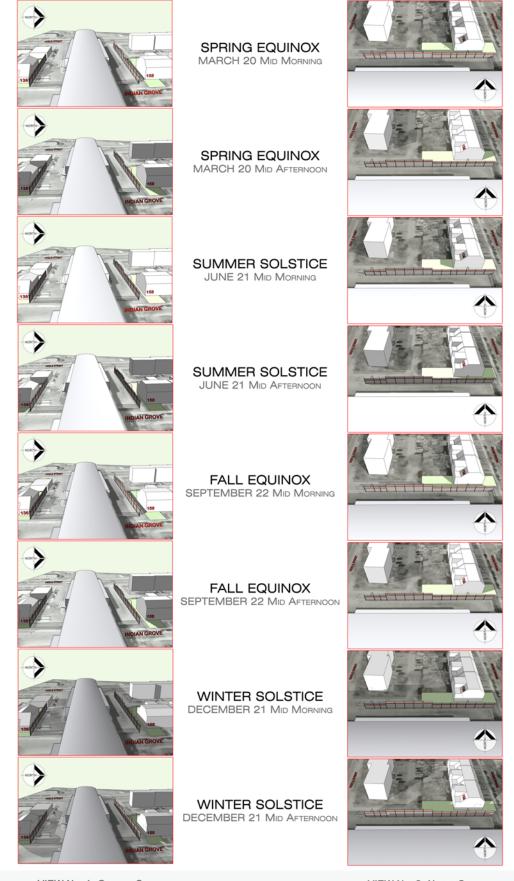
Photos of the Durisol Panels:











VIEW No. 1- OVERALL SITE

VIEW No. 2- NORTH SIDE



TORONTO TRANSIT COMMISION KEELE SUBWAY STATION ACOUSTICAL BARRIER WALL SHADOW STUDY

