

G.I.-30 SEPT. 1976

GEOCRES No. _____

DIST. CR REGION _____

W.P. No. _____

CONT. No. _____

W. O. No. 94-11014STR. SITE No. 37-520HWY. No. Gaglianone Ave.LOCATION TTC Twin TunnelsBlack Creek BridgeNo of PAGES - =====

OVERSIZE DRAWINGS TO BE INCLUDED WITH THIS REPORT. _____

REMARKS: _____



To: Chris Sadler
Municipal Review
Structural Office

Date: August 24, 1994

Attention: David Lai

From: Pavements and Foundations Section
Room 315, Central Bldg.

Tel: (416) 235-3731
Fax: (416) 235-5240

Re: TTC Twin Tunnels at Black Creek Bridge

Further to your memo of August 18/94, we have reviewed the Klohn-Crippen proposal as detailed in their correspondence to RTEP's Mr. Clapham dated July 27 & 28/94.

Our comments are as follows:

Although the correspondence provided to us did not include the subsurface information that would be necessary to assess the details of the foundation design, we do not doubt that the proposal may be technically feasible. However, several technical details would have to be addressed before we could fully consider this proposal. We have concerns about:

- the confidence level of the settlement prediction in the Klohn-Crippen report
- the impact of unanticipated loss of ground during the tunnelling operation on the axial and lateral capacities of the existing piles
- the procedure for tunnelling through the piles and the impact of vibrations on the existing friction piles

This more detailed technical review may be unnecessary as it would appear that the Ministry's decision may hinge on an assessment of the risk involved and whether it is prudent for MTO to participate in that risk. From our perspective, we have reservations about the level of risk involved in partially underpinning a bridge.

If there are any questions, please call.

A handwritten signature in dark ink, appearing to read "D. Dundas".

D. Dundas, P.Eng.
Senior Foundation Engineer