

G.I.-30 SEPT. 1976

GEOCRES No. _____

DIST. CR REGION _____

W.P. No. _____

CONT. No. _____

W. O. No. 95-11 004

STR. SITE No. _____

HWY. No. 403LOCATION Sewer line Construction
under King St. - 403 U/PNo of PAGES -

=====

OVERSIZE DRAWINGS TO BE INCLUDED WITH THIS REPORT. _____

REMARKS: _____



memorandum

To: P.B. Kuyntjes
Corridor Management Officer
Ministry of Transportation
1182 North Shore Blvd. E.
P.O. Box 5020
Burlington, Ontario L7R 3Z9
1995 09 21
Fax: (905) 637-1539

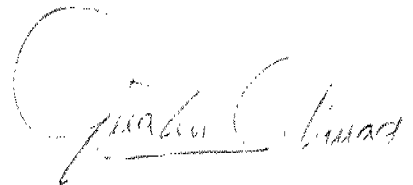
From: Pavements and Foundation Section
Room 315, Central Building
Downsview, Ontario

Re: Proposed Soil Stockpile North of King St. Bridge
Hwy 403 and King Street underpass structure
Regional Municipality of Hamilton Wentworth
W.O. 95-11004
Highway 403, Hamilton, Central Region

This is in response to your fax dated September 20, 1995. We received a copy of Kenaidan Contracting Ltd letter to R.V. Anderson Associates Ltd dated September 15, 1995 along with recommendations by B.P Walker Consultants Ltd to Kenaidan Contracting Ltd with slope analyses and calculations.

It is understood that now it is proposed to move the toe of the proposed stockpile at least 15m north from the existing bridge foundations. We have only reviewed the geotechnical parameters used in the slope analyses. The method of analyses and calculations remain the responsibility of the Consultant. The Consultant has reported a factor of safety of 1.8 to 2.3 against slope failure due to the stockpile.

Although, it is still preferable that no construction activities should take place in the close vicinity of the bridge, the Contractor may proceed with stockpiling the soil as proposed at their responsibility based on B.P. Walker Consultants recommendations.



K.S.Q. Ahmad, P. Eng.
Foundation Engineer

For

D.H. Dundas, P. Eng.
Senior Foundation Engineer

c.c. Bill Kennedy ✓
John Lam



R.V. Anderson Associates Limited

consulting engineers and architect

Suite 400, 2001 Sheppard Ave. E.
Willowdale, Ontario M2J 4Z8

TEL (416) 497-8600 FAX (416) 497-0342

Ken



FACSIMILE TRANSMISSION

Date **SEPT. 15/95**

Total Number of Pages
(including this page) **3**

Our Reference
Number **3900.50**

To **PETER KUYNJTJES.**

Company **KATO**

Telefax **637-1539**

From **T. RICHARDSON**

Re

**RHW MAIN/KING CSO
STOCKPILE REQUEST**

Message

FURTHER TO DISCUSSIONS WHICH HAVE
TAKEN PLACE BETWEEN KENAHADAN AND
YOUR FOUNDATION GROUP WE ARE REVISING
OUR REQUEST OF JULY 20, 1995 TO SUT.
WE ARE PROPOSING A 15M SETBACK TO
THE TOE OF THE STOCKPILE RATHER THAN THE
3m SETBACK ORIGINALLY ASKED FOR.

PLEASE ADVISE IF YOU SEE ANY PROBLEMS WITH
THIS PROPOSAL.

PLEASE NOTE THAT THE REGRADING IN THE AREA
OF CHAMBERS 3 & 4 WILL ^{BE} PROCEEDING IN
THE NEAR FUTURE.

TR

C.C. W. STARR RVA.

G. FORTUNA RCL

D. WALKER RVA

KEN AHMAD MTO

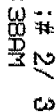
(235-5240)

PLEASE NOTE B. WALKER (KCL'S GEOTECHNICAL ENGINEER)
WILL BE SUBMITTING SUPPORTING CALCULATIONS
UNDER SEPARATE COVER.

IF MESSAGE NOT WELL RECEIVED CALL (416) 497-8600

SENT BY:2001 SHEPPARD EAST#400; 9-15-95 ;12:34PM ;R.V.ANDERSON-TORONTO-416 235 5240 ;# 2/ 3
SEP 15 '95 11:38AM

SEPT 15, 1995 TR
DRAWING 4 REV. 1





R.V. Anderson Associates Limited

consulting engineers and architect

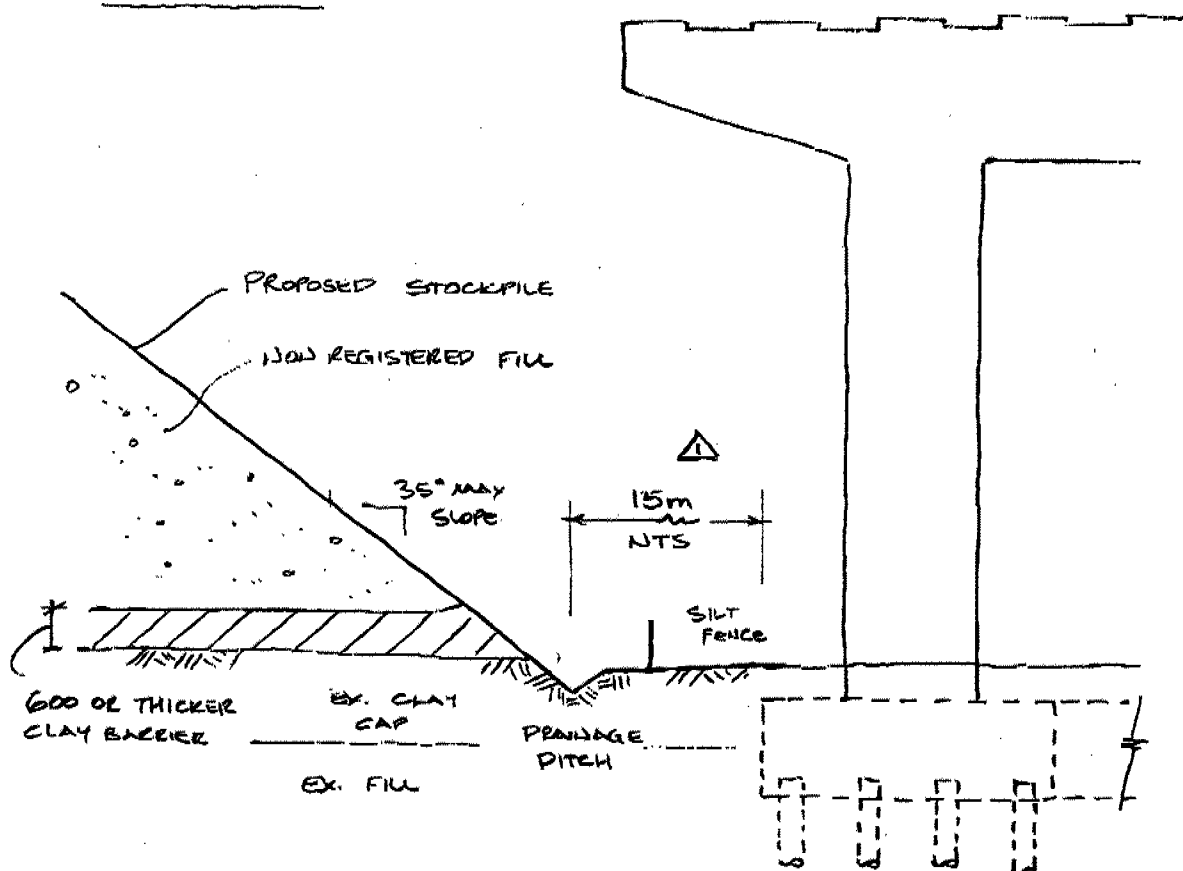
Project No: 3900 Sheet No: REV. 1

Project: MAIN/KING CSO

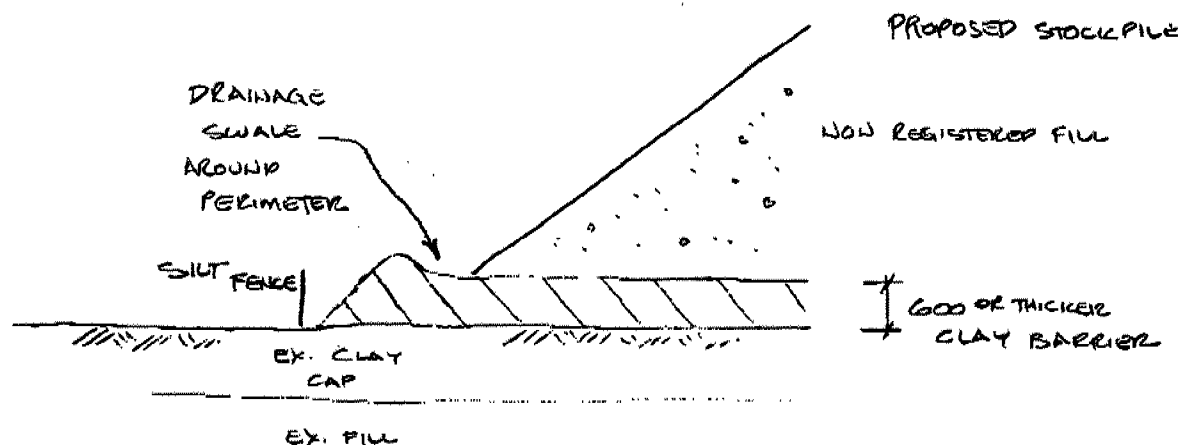
Date: JULY 20/95 By: TYL

REVISED SEPT 15/95

STOCKPILE DETAILS DRAWING 5



SECTION A



SECTION B
NTS



memorandum

To: Rebecca Palys
Corridor Management Engineer
Central Region Operations
Corridor Management Office
1st Floor, Atrium Tower

1995 08 25

Fax: (416) 235-5276

From: Pavements and Foundation Section
Room 315, Central Building
Downsview, Ontario

Re: Soil Stockpile Near King St. Bridge
Hwy 403 and King Street underpass structure
Regional Municipality of Hamilton Wentworth
W.O. 95-11004
Highway 403, Hamilton, Central Region

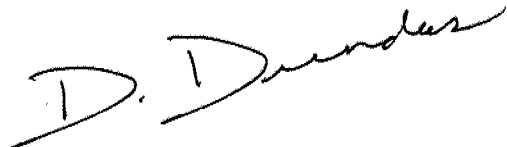
This is in response to your letter of August 22, 1995. We have reviewed the proposal of B.P. Walker Consultants Ltd dated August 17, 1995. Our comments are as follows:

In consultant's opinion a soil stockpile about 14m (46 ft) high on the north site of the MTO bridge will have no effect on the MTO bridge foundation. The consultant's recommendation is not supported by any calculation or analyses.

As the Consultant has suggested, we are not sure that in case of pile groups, lateral stresses from opposite directions, applied in different times will have no effect of the bridge foundation.

It is understood that a stockpile of soil has been in place for several months on the south side of the bridge which is of the same size as the proposed stockpile on the north side of the bridge. In consultant's opinion the existing stockpile has not caused any apparent problems to the bridge foundation. However, in our opinion, only a proper instrumentation could have determined whether or not the stockpile has caused any problem.

In view of the seriousness of the consequences that may be caused by the distress to the MTO bridge, we suggest that the proposal for the stockpile near the bridge foundation should be carefully reviewed and any recommendations should be supported by calculations and analyses. Preferably, if possible the stockpiles should be kept away from the bridge.

for 
K.S.Q. Ahmad, P. Eng.
Foundation Engineer

For

D.H. Dundas, P. Eng.
Senior Foundation Engineer

c.c. Bill Kennedy
John Lam



memorandum

To: V.F. Boehnke, P. Eng.
Head, Structural Section
Central Region

1995 07 27

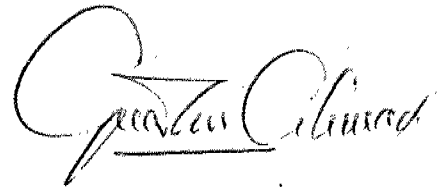
Attn.: John K. Lam, P. Eng.

From: Pavements and Foundation Section
Room 315, Central Building
Downsview, Ontario

Re: Sewer line Construction and soil stockpiling under
Hwy 403 and King Street underpass structure
Regional Municipality of Hamilton Wentworth
W.O. 95-11004
Highway 403, Hamilton, Central Region

This is in response to your memo of July 26, 1995 and our site visit with you on July 27, 1995. It is understood that Kenaidan Contracting Ltd (the general contractor) retained B.P. Walker Consultants Ltd who provided geotechnical recommendations on June 8, 1995 to install a sewer line between Pier 2 and Pier 3 of King Street underpass bridge. The sewer line between Pier 2 and Pier 3 was installed during June 9 and June 10, 1995. It is understood that the excavation was about 9m deep and 18m wide. The excavation between Pier 2 and Pier 3 exposed pile caps of pier 2 and Pier 3. The Contactor is now proposing to stockpile soil near the bridge structure.

We are concerned of any possible effect the construction activities at the site and the proposed stockpiling of the soil near the bridge may have on the bridge structure. Since, the Contractor has already retained a geotechnical consultant, please advise the Contractor to ask their consultant for comments and recommendations on their proposal to stockpile the material and the method of construction. Our office will review the recommendations.

A handwritten signature in cursive script, appearing to read 'K.S.Q. Ahmad', written in dark ink.

K.S.Q. Ahmad, P. Eng.
Foundation Engineer

For

D.H. Dundas, P. Eng.
Senior Foundation Engineer

c.c. Bill Kennedy