

G.I.-30 SEPT. 1976

GEOCRES No. 31B-78DIST. 8 REGION W.P. No. CONT. No. W. O. No. 87-11004STR. SITE No. HWY. No. 2LOCATION Settlement ProblemHwy 2 at CardinalNo of PAGES -

OVERSIZE DRAWINGS TO BE INCLUDED WITH THIS REPORT. REMARKS:

memorandum



To: T. Murphy
Head, Geotechnical Section
Eastern Region

Date: 1987 07 20

Attention: D. McLay

From: Foundation Design Section
Rm 315, Central Building

RE: Settlement Problem at Cardinal
Hwy. 2, District 8, Kingston
WO 87-11004

Further to our site visit of 87 06 22, this memo will confirm our assessment of the above-noted problem area.

In our opinion the settlement problem is caused by consolidation and, possibly, very minor lateral movements within the material below the roadbed. These mechanisms have resulted in minor (less than 0.5 cm per year) settlements of a 50⁺ m portion of Hwy. 2 bordering the old canal in Cardinal.

During our site visit we inspected the limestone block lined slope extending from Hwy. 2 to the canal and concluded that there was no evidence of slope instability. However, we recommend that periodic inspections should be carried out, and that if any slope movements or larger settlements are noted, the situation should be reevaluated.

If you require more detailed information, we are available to conduct a subsurface investigation at this site, at your request.

If there are any questions, please contact this office.

DHD/pb

D. H. Dundas

D.H. Dundas, P. Eng.
Sr. Foundations Engineer