

55-F-60

Hwy # 401 &

LYN ROAD



ONTARIO
DEPARTMENT OF HIGHWAYS

Highways Laboratory,
c/o Room 1482,
Parliament Buildings,
Toronto, Ontario.

January 22, 1956.

Mr. A. Rye,
Bridge Engineer.

Dear Sir: Re: Foundation Conditions, Hwy. 1401, Sta. 282/24 at Lys Road.
Plan 2 2829-1, Profile 2 2817-15.

We are forwarding herewith the report of power-sugar borings performed at the above site to establish the profile of the bedrock surface. No problem of foundation for the approach embankment is anticipated.

Yours truly,

F. C. Brownridge,
Materials & Research Engineer.

Yours

(M. H. Davis)

RM/fh

Copies to:

Mr. A. Rye, Bridge Engineer (2)
Mr. H. Langdon, Asst. Engineer (1)
Mr. F. Walter, Asst. Engineer (1)
Mr. L. H. Walker, Asst. Engineer, Kingston, (1)
File (2)

Report on
Investigation of
Foundations at
Proposed Structures
at the
Intersection of the Lyn Road
and
Rwy. 401 sta. 292+34
near
Brockville

cc: For:

A. Toye, Bridge Engineer (2)
J. Walters, Design Engineer (1)
H. Tregaskes, Const. Engr. (1)
L.E. Walker, District Eng. (1)
File (2)

Bridge Plan: E2999-1
Profile: F-3417-15

Introduction:

Previous preliminary borings and visual inspection of the proposed bridge site indicated the proximity of bedrock to the surface. Consequently, a detailed survey by power auger was carried out to determine the elevation of the bedrock.

In this area there have been several revisions of the centre line of Hwy. #401, and in this report and investigation it has been assumed that line "C" is the approved location.

A drawing showing the plan of the hole locations and soil profiles under the abutments is attached.

Soil Profile:

Generally the site is located on an area of shallow clay till overburden, which never exceed 4.8", over thick bedded granite rock. The rock is seen to outcrop within the abutment areas.

The rock level falls in a westerly direction, but the average level of the rock is 312.0 with a maximum fall of 10'0" across any footing.

Recommendations:

The foundations should be carried down to bedrock for a rigid framed structure with permissible bearing pressures as outlined in the National Building Code of Canada.

F.C. Brownridge
Materials & Research Engineer

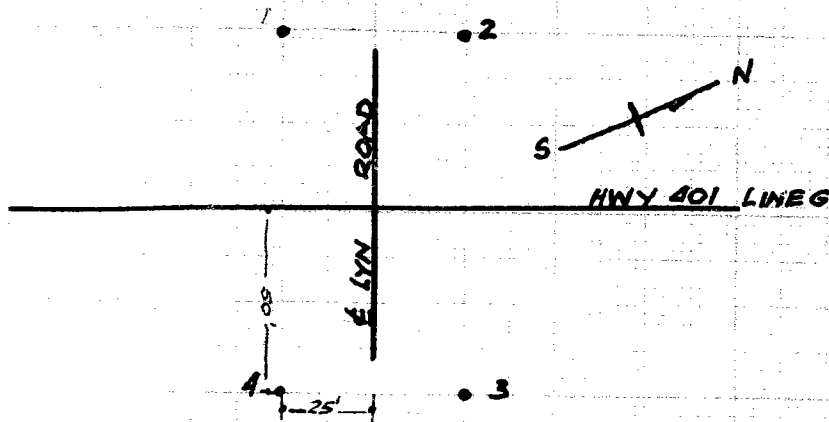
Per:

AT:JH

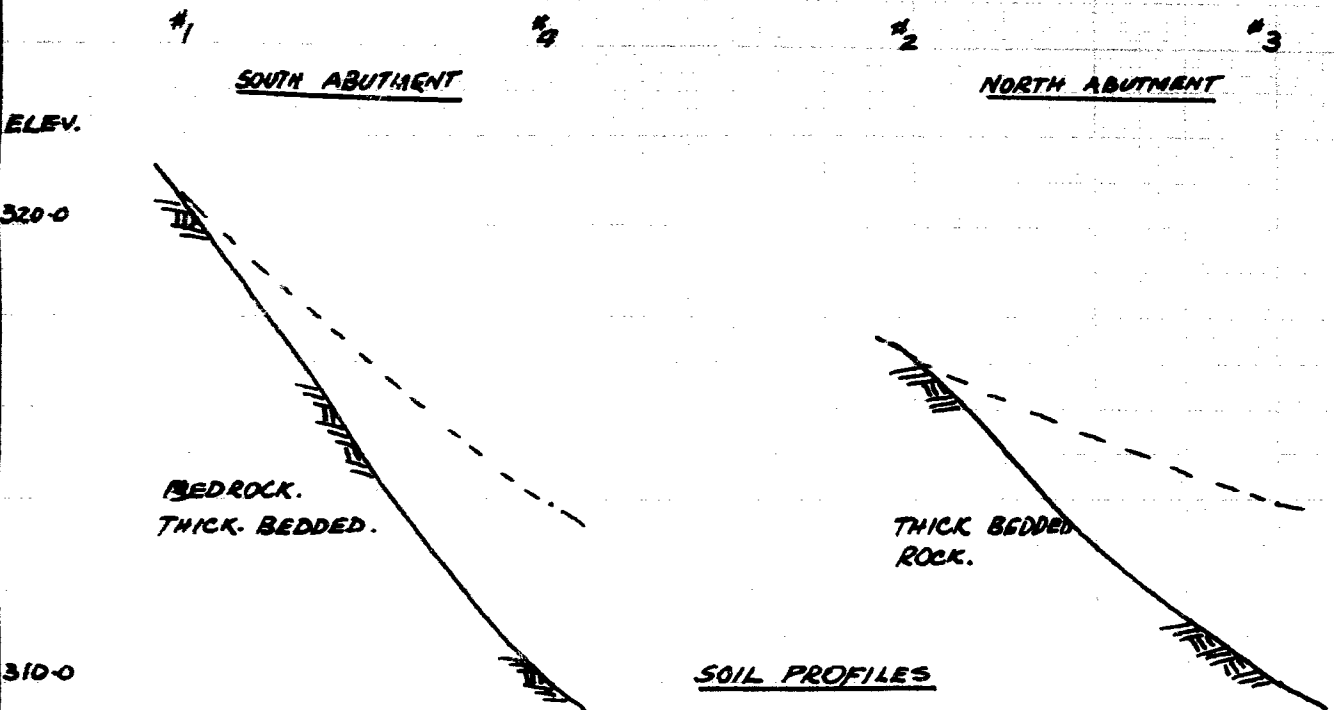
(A. Thorley)

PROPOSED STRUCTURE AT INTERSECTION HWY 401 LINE 'G'
AND LYN ROAD NR. BROCKVILLE. (LOT 21, CONI ELIZABETHTOWN)

PROJ 3417-15
PLAN E2999-1



PLAN OF BOREHOLES



NOTE :- SEVERAL LINES HAVE BEEN PROPOSED AT THIS INTERSECTION. LINE 'G' IS THE LAST APPROVED.