

DEPARTMENT OF HIGHWAYS ONTARIO

MEMORANDUM

Dist 28-4

TO: Mr. C. S. Moase,
Manager,
Special Services Section.

FROM: Mr. A. G. Stermac,
Principal Foundation Engr.,
Foundation Section,
Materials & Research Division.

DATE: October 18, 1963

OUR FILE REF.

IN REPLY TO

SUBJECT:

FOUNDATION INVESTIGATION

For

D.H.O. Patrol Yard at Wainfleet,
Lot 7, Con. II, Twp. of Wainfleet,
Hwy. 3, District 4.
W.J. 63-F-105 -- W.P. (Nil).

It is proposed to construct a D.H.O. Patrol Yard at the above-mentioned site. In a memo dated September 12, 1963, from the Inspector of Special Services, a foundation investigation was requested.

The field investigation consisted of three sampled boreholes and two dynamic cone penetration tests. The locations and elevations of these boreholes are shown on the attached Dwg. No. 63-F-105A.

The site is generally covered with a thin layer of topsoil followed by 2 to 5.5 ft. thick silty clay till followed by limestone bedrock.

No water was observed in any of the boreholes during the time of the investigation.

The proposed garage and other buildings can be supported on spread footings founded on limestone bedrock. No stability problems are anticipated for the proposed sand pile.

cont'd. /2 ...

October 18, 1963

For all service, parking and other areas to be paved or gravelled, the topsoil should be stripped and replaced with 6 inches of sand cushion or crushed rock screenings and topped with 15 inches of G.B.C. Class 'A'. The hot-mix pavement for paved areas should consist of 1½ inches of HL-3 over 2 inches of HL-6.

Recommendations pertaining to grading and surfacing were given to us by Mr. T. J. Kovich, Regional Materials Engineer.

Attention is drawn to the existence of some shallow wells to the west of the proposed garage area. The nearest well is about 250 ft. west of the proposed garage site. The limestone bedrock is extensively fissured and in view of this, it is anticipated that water contamination from the salt piles may be a serious problem at the above-mentioned site.

The field work was carried out during September 19 and 20, 1963, under the supervision of Mr. V. Korlu, Project Foundation Engineer, who also wrote this report. The report was reviewed by Mr. M. Devata, Senior Foundation Engineer.

We trust that the factual data and recommendations contained in this report will be adequate for your future design work. However, should additional information be required, please feel free to call on our Office.

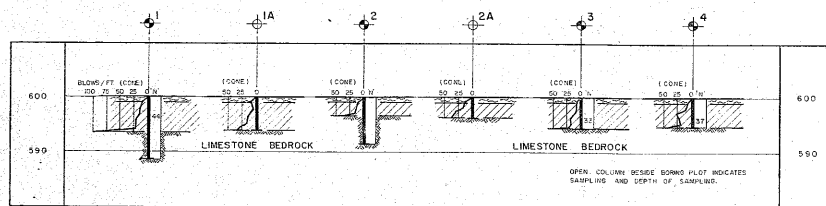
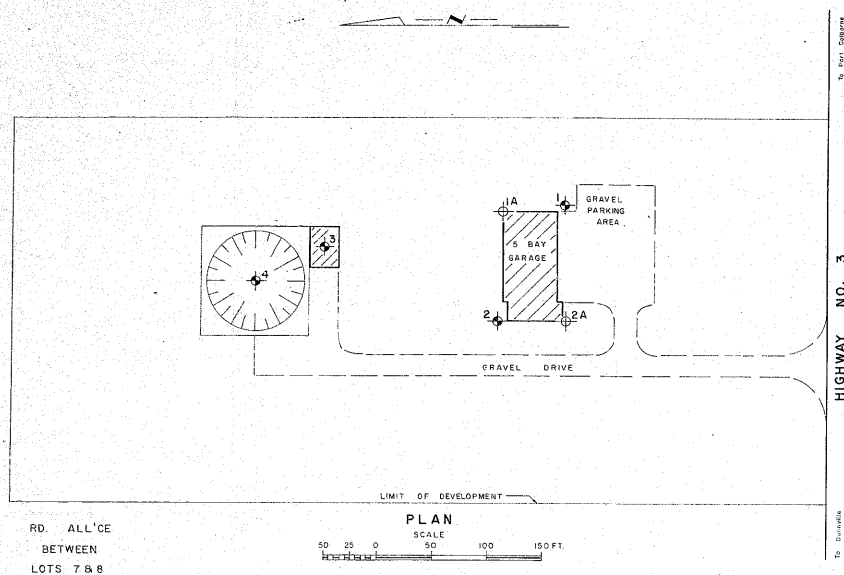
VK/MdeF
Attach.

cc: Messrs. C. S. Moase (4)
E. J. Orr
H. D. McMillan
H. Greenland
T. J. Kovich
A. Watt

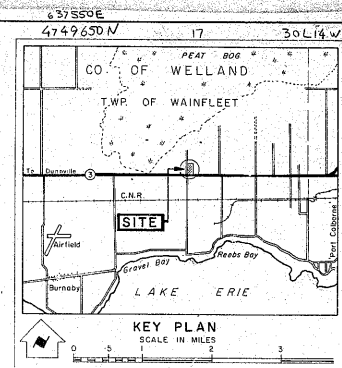
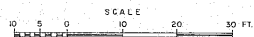
Foundations Office
Gen. Files ✓

K. Y. Lo
K. Y. Lo,
SUPERVISING FOUNDATION ENGR.
For:
A. G. Stermac,
PRINCIPAL FOUNDATION ENGR.

APPENDIX I.



BORE HOLE STRATIGRAPHY



LEGEND

- Bore Hole
- ⊕ Cone Penetration Hole
- ⊕ Bore & Cone Penetration Hole
- Water Levels established at time of field investigation Sept. 20, 1963

- Topsoil
- Clayey Silt With Gravel (TILL)

DEPARTMENT OF HIGHWAYS - ONTARIO
MATERIALS & RESEARCH SECTION

WAINFLEET PATROL YARD

ORIGINATED V. KORLU 7/74	DISTRICT NO. 4	DATE OCT 4, 1963
DRAWN F. CLARK	W.P. NO.	JOB NO. 63-F-105
CHECKED J. J. J.	SCALE	DRAWING NO.
APPROVED P. J. J.	AS SHOWN	63-F-105 A