

DEPARTMENT OF HIGHWAYS ONTARIO

MEMORANDUM

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

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

DATE: January 17, 1964

OUR FILE REF.

IN REPLY TO

SUBJECT:

FOUNDATION INVESTIGATION REPORT

For

Bancroft District Office and
Garages - New Heated Storage
Hwy. #28, County of Hastings, Twp.
of Farady, Lot 2 & 3, Conc. 'B'.
W.J. 63-F-127 -- W.P. (Nil)

It is proposed to erect a new heated storage at the Bancroft District Office Yard on Hwy. #28, approx. 1½ miles South of the Town of Bancroft. A request for a foundation investigation was received from Mr. D. R. Carr, dated September 16, 1963.

In order to determine the properties of the soil and decide on the type of foundations, an investigation was carried out by this Section. The field investigation was confined to two sampled boreholes, supplemented by three dynamic cone penetration tests.

The elevations, as well as the locations of the boreholes, are shown on Dwg. No. 63-F-127A, attached to this report.

The stratigraphy of the soil, throughout the site, was found to be quite uniform. The upper 8 to 9 ft. consist of dense sand and gravel fill, placed on compact to dense silty sand (former swamp).

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January 17, 1964

The safe bearing pressure for spread footings, 2 feet wide, at a depth 6 feet below ground level, is estimated to be 3000 lbs./sq.ft.

At the time of the investigation, the water level was approx. 12 ft. below existing ground level.

The recommendations given by the Regional Material Engineer, Mr. J. E. Gruspier, are as follows:

The Project should be called as a 5/8" Crushed Type 'A' and Sand Cushion Contract. Grading will have to be carried out to accommodate up to 36" granular material. Pavement should consist of 2" HL-4 Binder and 1½" HL-4 Surface Course.

The field work performed during October 30, 1963, together with the preparation of this report, was undertaken by Mr. W. W. Kulmattickas, Project Foundation Engineer. The investigation was carried out under the general supervision of Mr. K. G. Selby, Senior Foundation Engineer, who reviewed this report.

We believe the information contained in this report will suffice for your design work. However, should further information be required, please do not hesitate to contact our Office.

WWK/MdeF
Attach.

cc: Messrs. C. S. Moase (4)

E. J. Orr
H. D. McMillan
J. E. Callaghan
J. E. Gruspier
A. Watt

Foundations Office
Gen. Files

A. G. Stermac
A. G. Stermac,
PRINCIPAL FOUNDATION ENGINEER

APPENDIX I.

1963 NOV 29 PM 4:24

DOWN KINR 15 NOV 29/63 3:55P

T STERMAC MATERIALS AND RESEARCH

RE BANCROFT PATROL YARD

PROJECT SHOULD BE CALLED AS A "5/8" CRUSHED TYPE "A" AND SAND CUSHION CONTRACT".

GRADING WILL HAVE TO BE CARRIED OUT TO ACCOMODATE UP TO 36" GRANULAR MATERIAL. PAVEMENT SHOULD CONSIST OF 2" HL 4 BINDER AND 1 1/2" HL 4 SURFACE COARSE

J E GRUSPIER M & R

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#63-F-127

HWY #28

BANCROFT

DISTRICT

OFFICE & GARAGES

