



ONTARIO
DEPARTMENT OF HIGHWAYS

Dist. 28-10

Memo to Mr. F. E. Cavell, Date July 9, 1962.
Superintendent,
Special Services Section. Subject D.H.O. FOUNDATION INVESTIGATION
REPORT
 From Materials & Research Division, W.J. 62-F-64 -- W.P. (Nil).
(Foundation Section)

RE: PROPOSED D.H.O. PATROL YARD AT HWY. No. 62, LOT 8, CON. 7,
TWP. OF RADCLIFFE, COUNTY OF RENFREW, DISTRICT No. 10.

It is proposed to erect a D.H.O. patrol garage on Hwy. No. 62, approx. 3 miles North of the Village of Combermere. A request for a foundation investigation was received from Mr. F. E. Cavell, dated May 29th, 1962.

In order to determine the properties of the soil and decide on the type of foundation, an investigation was carried out by this Section. The field investigations were confined to three sampled boreholes, supplemented by three penetration tests. Bag samples of soil at the site were also taken. Boreholes No. 2 and 3 were taken down 21'-6", while Borehole No. 1 was taken down 31'-6" below existing ground elevation.

The elevations, as well as the locations of the boreholes, are shown on Drawing No. 62-F-64A attached to this report.

The stratigraphy of the soil, throughout the site, was found to be quite uniform. The upper 3" to 5" consist of loose organic topsoil, followed by 15'-0" to 20'-0" of loose to med. dense fine to med. coarse sand, which in turn, is underlain by med. dense to dense sandy silt.

cont'd. /2 ...

The safe bearing pressure for spread footings 2 feet wide, at a depth 6 feet below ground elevation, is estimated to be 2500 lbs./sq.ft.

At the time of the investigation, the water level was found approx. 16'-0" below the existing ground elevations.

The sand pile at the indicated location, may be built without danger of base failure.

Access roads may be built on the sand layer. Topsoil stripping should be carried out according to D.H.O. standards. For roadways and parking areas, a total minimum thickness of 18" of acceptable granular material, is recommended. The upper 6" of this should consist of Class "A" G.B.C. material.

The sand at the site was found to be suitable for use as a Granular Borrow or Sand Cushion material.

Surfacing material should consist of 3½" base and top of H.L.4. The top 1½" may be modified to allow the use of a sandier mix.

The field work, performed June 19, 1962 to June 20, 1962, together with the preparation of this report, was undertaken by Mr. W. W. Kulmattickas. The investigation was carried out under the general supervision of Mr. K. G. Selby, who reviewed this report.

cont'd. /3 ...

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

WWK/MdeF
Attach.

K. Y. Lo
K. Y. Lo,
SUPERVISING FOUNDATION ENGR.
For:

A. G. Stermac,
PRINCIPAL FOUNDATION ENGR.

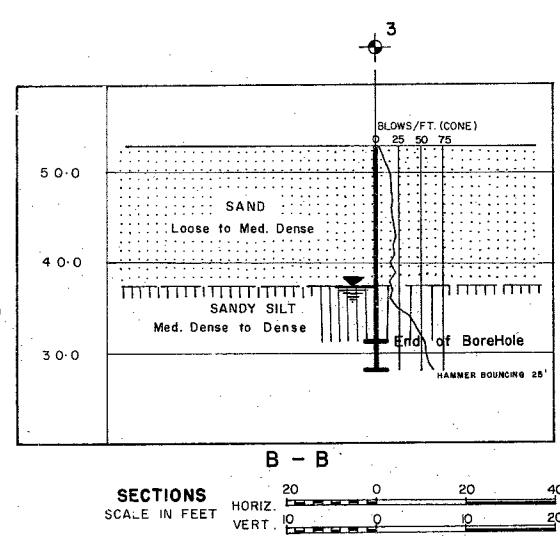
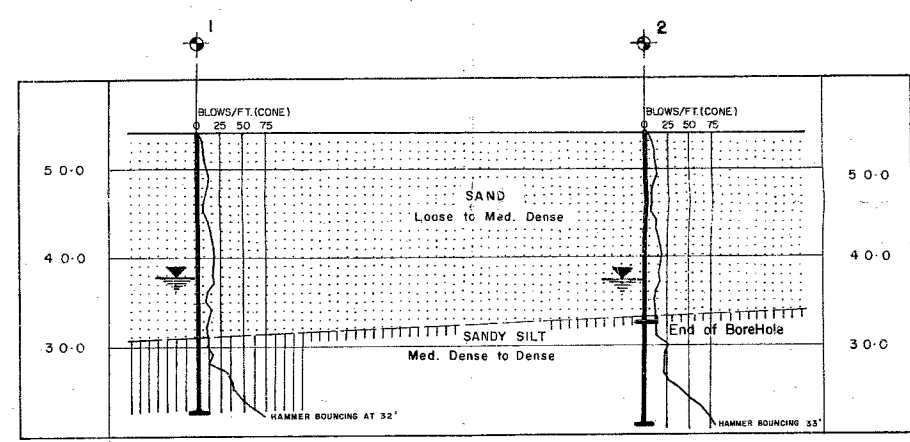
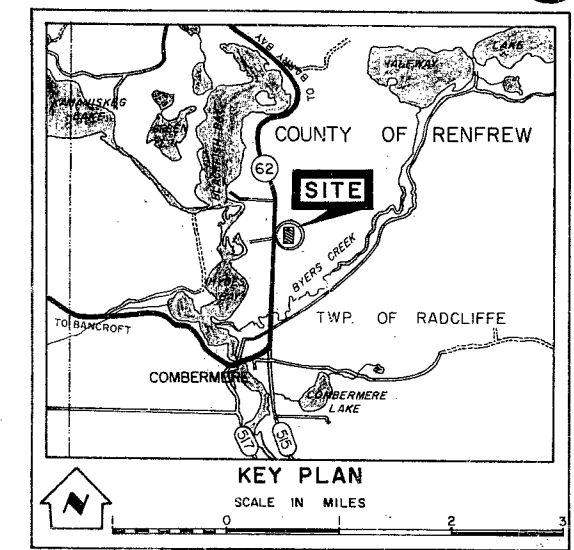
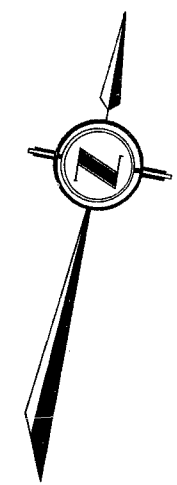
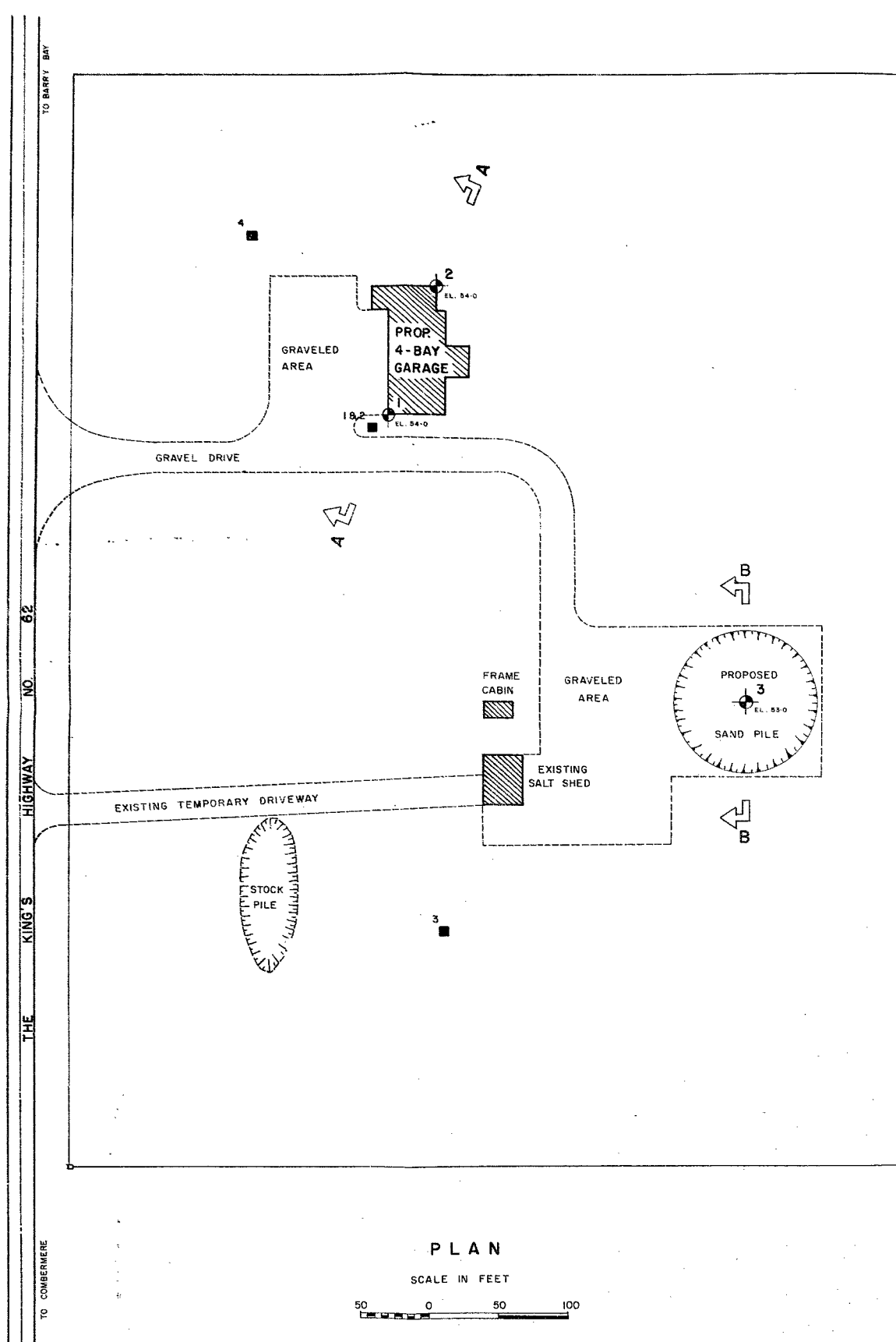
cc: Messrs. F. E. Cavell (4)
H. A. Tregaskes
H. D. McMillan
W. G. Wigle
T. J. Kovich
J. Roy
J. E. Gruspier
E. R. Saint
F. Norman

Foundations Office ✓
Gen. Files.

APPENDIX I.

62-F-64
HWY. #62

COMBERMERE
PATROL
YARD



LEGEND	
	Bore & Cone Penetration Hole
	Water Levels established at time of field investigation
	Bag Sample

- NOTE -
The boundaries between soil strata have been established only at Bore Hole locations. Between Bore Holes the boundaries are assumed from geological evidence and may be subject to considerable error.

DEPARTMENT OF HIGHWAYS - ONTARIO MATERIALS & RESEARCH SECTION		
COMBERMERE PATROL YARD		
ORIGINATED W. KULMATICAS	DISTRICT NO. 10	DATE 3 JULY 1962
DRAWN A. SHOPOFF	W.P. NO. _____	JOB NO. 62-F-64
CHECKED <i>[Signature]</i>	CONT. NO.	DRAWING NO.
APPROVED <i>[Signature]</i>		62-F-64A