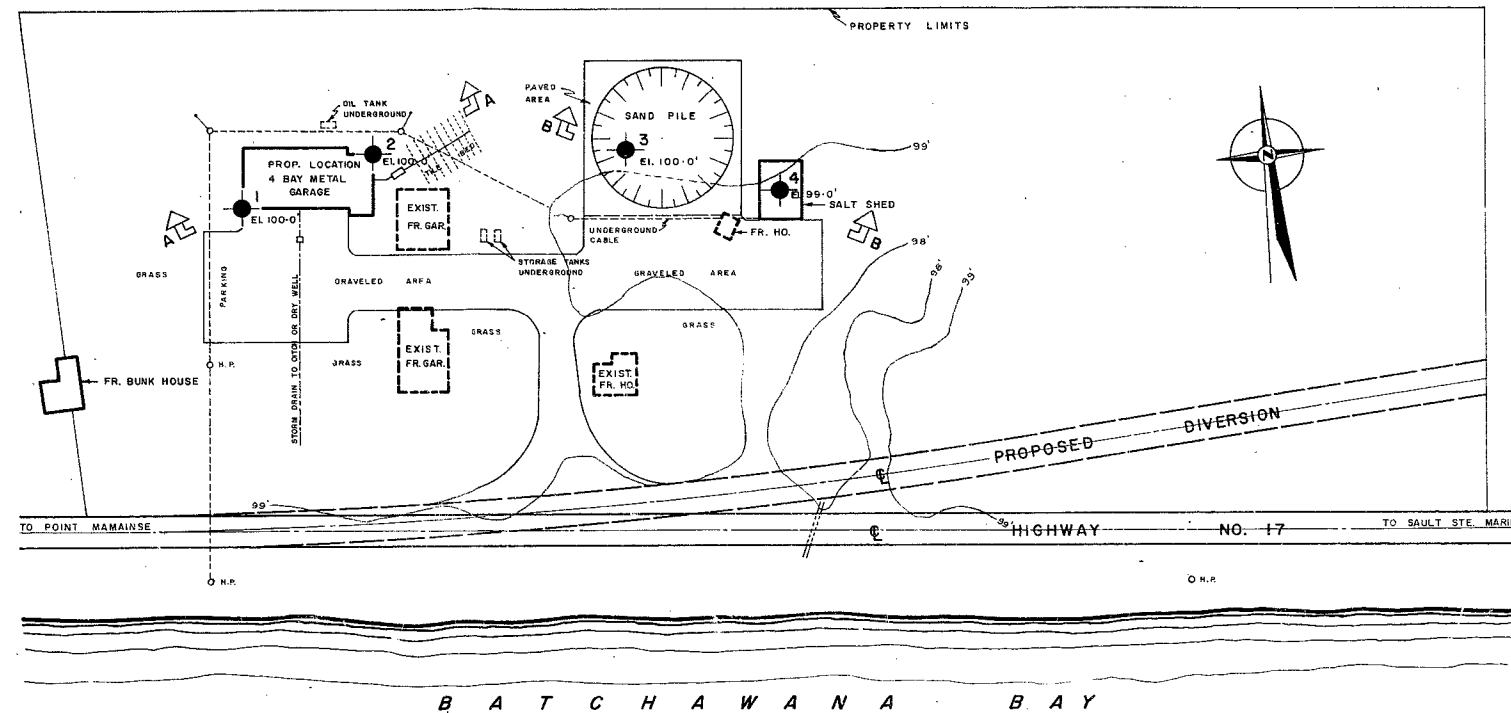


#62-F-25

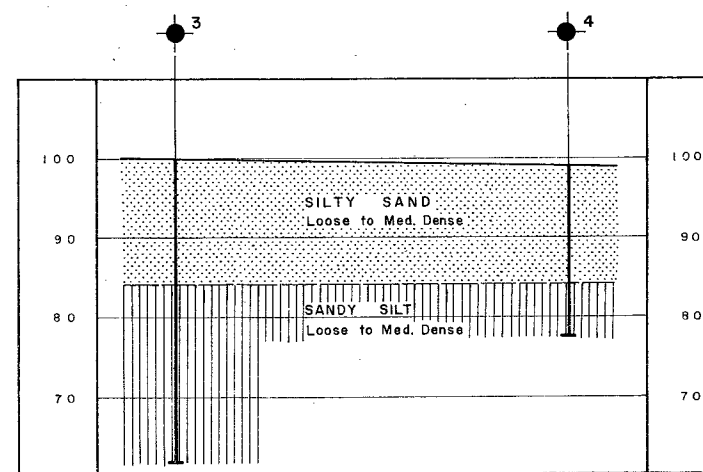
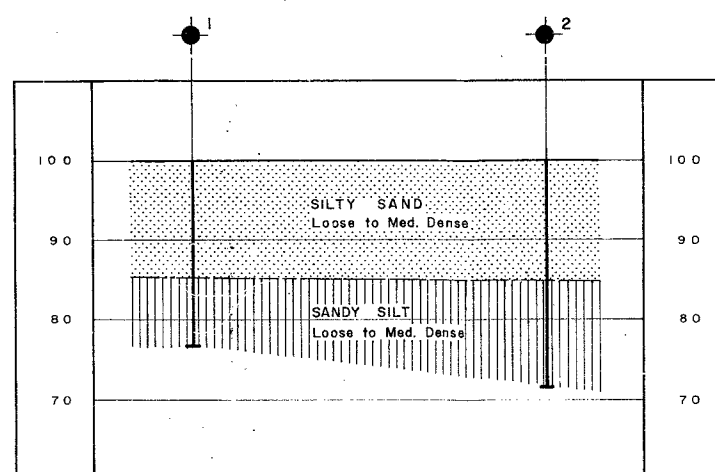
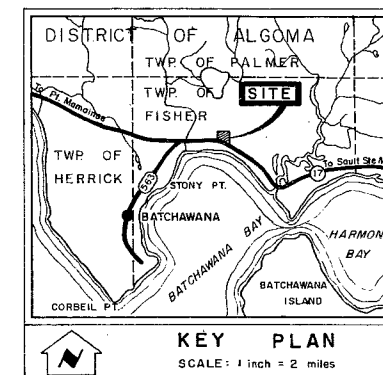
Hwy. #17

PROP. PATROL YD.

BATCHAWANA



PLAN
SCALE: 1 in. = 50 ft.



DEPARTMENT OF HIGHWAYS - ONTARIO		
MATERIALS & RESEARCH SECTION		
BATCHAWANA GARAGE SITE		
ORIGINATED W. KULMATICAS	DISTRICT NO. 18	DATE 13 APRIL 1962
DRAWN D. MUMFORD	W.P. NO.	JOB NO. 62 - F - 25
CHECKED <i>[Signature]</i>	SCALE	DRAWING NO.
APPROVED <i>[Signature]</i>	AS SHOWN	62-F-25 A



ONTARIO
DEPARTMENT OF HIGHWAYS

FOUNDATIONS (RM 115)

list # 28-18

Memo to Mr. F. E. Cavell, Date April 18, 1962.
Superintendent,
Special Services Section. Subject D.H.O. FOUNDATION INVESTIGATION
REPORT.
From Materials & Research Division, W.J. 62-F-25 -- W.P. (Nil)
(Foundation Section)
Attention: Mr. K. Hobby.

Re: PROPOSED D.H.O. PATROL YARD AT HWY. No. 17 AT BATCHAWANA,
TWP. OF FISHER, DISTRICT OF ALGOMA, DISTRICT No. 18.

It is proposed to erect a D.H.O. Patrol Garage on Hwy. No. 17 at Batchawana.

In order to determine the soil properties and decide on the type of foundation, an investigation was carried out by this Section. The field investigations were confined to four sampled boreholes. Boreholes No. 1, 2 & 4 were taken down 23'-6" below existing ground elevations; borehole #3 was taken down 38'-6" below existing ground elevation.

The elevations, as well as the locations of the boreholes, are shown on Drawing No. 62-F-25A, attached to this report.

The stratigraphy of the soil throughout the site, was found to be quite uniform. The top 14'-0" to 15'-0" consists of loose to med. dense silty fine to coarse sand, underlain by loose to med. dense sandy silt.

The density of the silty fine to coarse sand is nearly constant throughout the site. Standard Penetration tests carried out, gave an average 'N' value of 16 blows/foot.

cont'd. /2 ...

The safe bearing pressure for spread footings 2 feet wide, at a depth of 6 feet below ground elevation, is estimated to be 2,000 lbs./sq.ft.

At the time of the investigation, due to melting snow and frozen ground, the water level was found at the surface. It may be assumed that during the summer months, the water level will be 3'-0" to 4'-0" below existing ground elevations.

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

Access roads may be built on the layer of silty fine to coarse sand. 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.

Surfacing material should consist of 3-1/2" base and top of H.L.4. The top 1-1/2" may be modified to allow the use of a sandier mix.

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

REPORT PREPARED BY: *W. W. Kulmatickas*
W. W. Kulmatickas,
PROJECT FOUNDATION ENGINEER.

REPORT APPROVED BY: *K. G. Selby*
K. G. Selby,
SR. PROJECT FOUNDATION ENGINEER.

cc: Messrs. F.F. Cavell (2)
K. Hobby
H. A. Tregaskes
H. D. McMillan
H. C. Tackaberry
D. P. Collins
T. J. Kovich
J. Roy
J. E. Gauspier

E. R. Saint
F. Norman
Foundations Office /
Gen. Files.

APPENDIX I.

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