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GEOCRES No. 31 F - 79

G.I.-30 SEPT. 1976

W.P. No. _____

CONT. No. _____

W. O. No. _____

STR. SITE No. 3 - 11

HWY. No. _____

LOCATION CARP RIV. & DEVEL. RD. 648, LOT 15, CON'S 9 & 10, FITZROY TWP.

OVERSIZE DRAWINGS TO BE INCLUDED WITH THIS REPORT. NONE

REMARKS: _____

JOHN D. PATERSON & ASSOCIATES
CONSULTING ENGINEERS & GEOLOGISTS
OTTAWA 3, CANADA
OFFICES AND LABORATORY:
1479 LAPERRIERE AVE.

INSPECTION SERVICES
LABORATORY TESTING
APPRAISALS, RESEARCH
SOIL INVESTIGATIONS

TEL. PA 8-3505

STRUCTURE SITE No. 3-11

31 F-79
GEOCRES No.

REPORT OF SOIL INVESTIGATION

PROPOSED NEW BRIDGE

CARP RIVER

DEVELOPMENT ROAD NO. 648

CONCESSIONS 9 & 10
Lot 15

FITZROY TOWNSHIP

ALEX. J. GRAHAM, P. ENG.

CONSULTING ENGINEER

REPORT NO. S 312-63

OTTAWA, FEBRUARY 12,1963

REGISTERED PROFESSIONAL ENGINEER
J. D. PATERSON
PROVINCE OF ONTARIO

Introduction:

At the request of Mr. Alex. J. Graham, Consulting Engineer on behalf of the Township of Fitzroy a soil investigation was conducted at the site of a proposed bridge over the Carp River which is to replace an existing bridge.

The site is on Development Road No. 648 being the road allowance between Concessions 9 and 10, Township of Fitzroy at Lot No. 15.

There is a possibility that the proposed bridge will be moved southerly from its present location.

Fieldwork Procedure:

Four test holes were put down at the locations shown on the Test Boring Plan and as directed by Mr. Graham. At Holes 1 and 2 samples of the soils and core samples of bedrock were recovered.

Holes 3 and 4 consisted of probes driven to refusal.

The soil samples were recovered by driving the BX casing from 0 to 2' and from 2' to refusal, withdrawing it, and knocking out the sample.

Core samples of bedrock recovered by diamond drilling were classified and retained in core boxes.

Observations:

(a) Soils Types.

A thin layer of soft clayey silt with some gravel overlies the bedrock at this site. Details of the test holes are shown on the Soil Profile and Laboratory Test sheet.

(b) Ground Water.

The loose consistency of the overburden suggests the ground water level will fluctuate with the water level of the river.

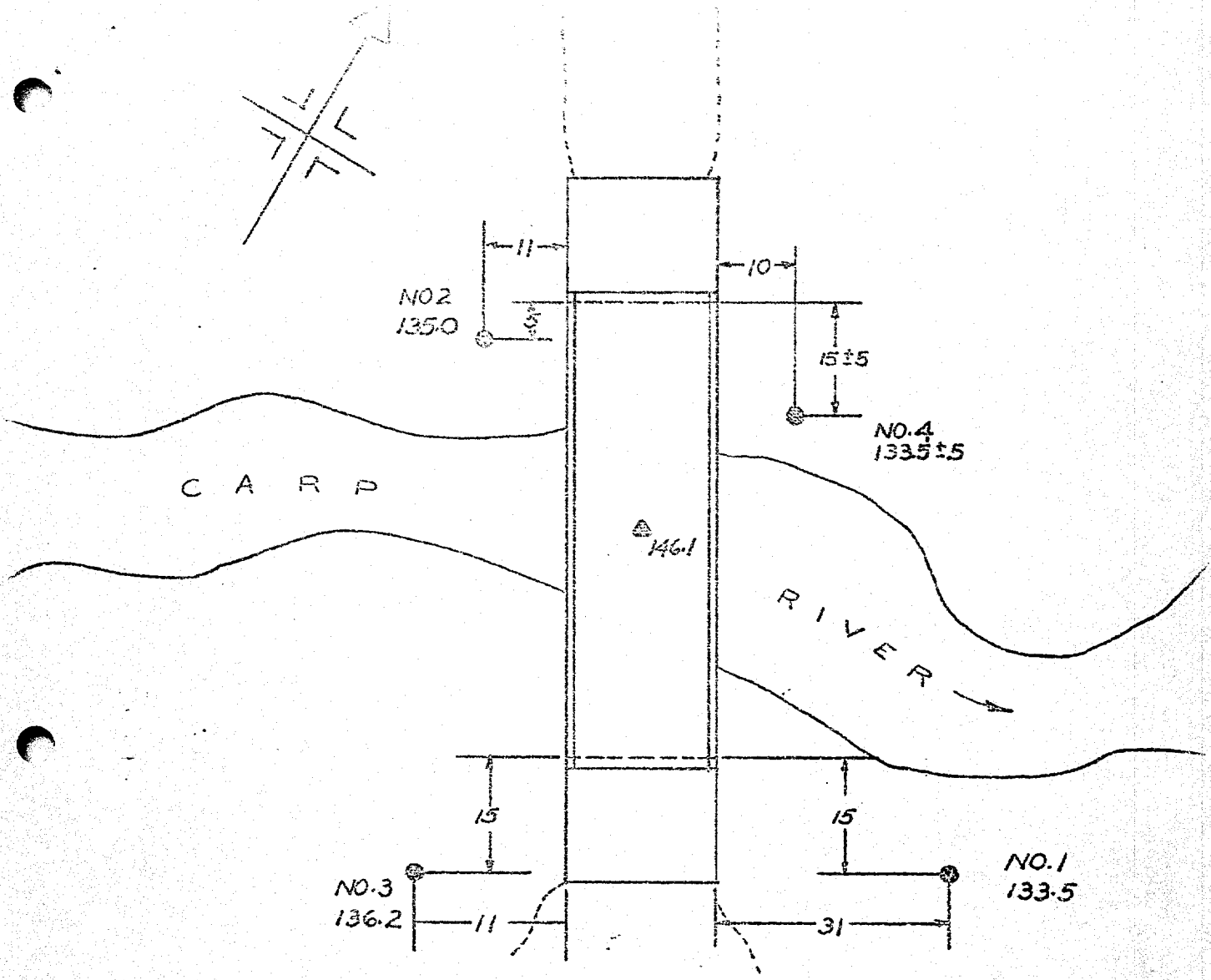
(c) Test Results.

Because of the shallow depth to bedrock no tests were conducted on the loose overburden.

Conclusions and Recommendations:

The bedrock encountered in the investigation is an igneous rock type — a common granite.

The bedrock elevations .....



TEST BORING PLAN
PROPOSED BRIDGE
OVER THE CARP RIVER
LOT 15 CON 9 and 10
TOWNSHIP OF FITZROY

SCALE 1"=20' FEB 1963

JOHN D. ... & ASSOCIATES
CONSULTING ENGINEERS
OTTAWA CANADA

SOIL PROFILE AND LABORATORY TESTS

Location: Lot 15, Con. 9 and 10, Township of Fitzroy.

Elevation (Zero Depth): No.1, 133.5; No.2, 135.0; No.3, 136.2; No. 4, 133.5 ± 0.5.

Remarks: Holes 1 and 2 - Test Boring Holes. Holes 3 & 4 - Probes only.

Borings by: F.E.Johnston Drilling Co., Ltd. Date: Feb. 1, 2 & 4, 1963.

Sheet No: 1 of 1

Hole No: 1, 2, 3 and 4.

Blows per Foot	Soil Description	Samples	U'c	N	Depth in Feet	Elev.	Moisture Content Per Cent. 30 40 50 60 70
	Hole No. 1						
	Ground Surface.				0	133.5	
	Sandy Topsoil. 0.5						
	Clayey Silt with pebbles and organic inclusions. 2				3	130.5	
	Bedrock						
	Granite with some mineralization.	Core 91% Recovery			6	129.5	
	7.5						
	Hole No. 2						
	Ground Surface.				0	135.0	
	Topsoil. 0.5						
	Oxidized soft clayey silt with boulders. 3.5				3	132.0	
	Bedrock -				6	129.0	
	Granite with some mineralization.	Core 94% Recovery			9	126.0	
	13.5				12	123.0	
	Hole No. 3						
	Ground Surface.				0	136.2	
	Topsoil and Clayey Silt. 1.						
	Bedrock.	No Core			3	133.2	
	Hole No. 4						
	Ground Surface.				0	133.5	
	Topsoil. 0.5						
	Soft Clayey Silt. 2.5				3	130.5	
	Bedrock.	No Core					