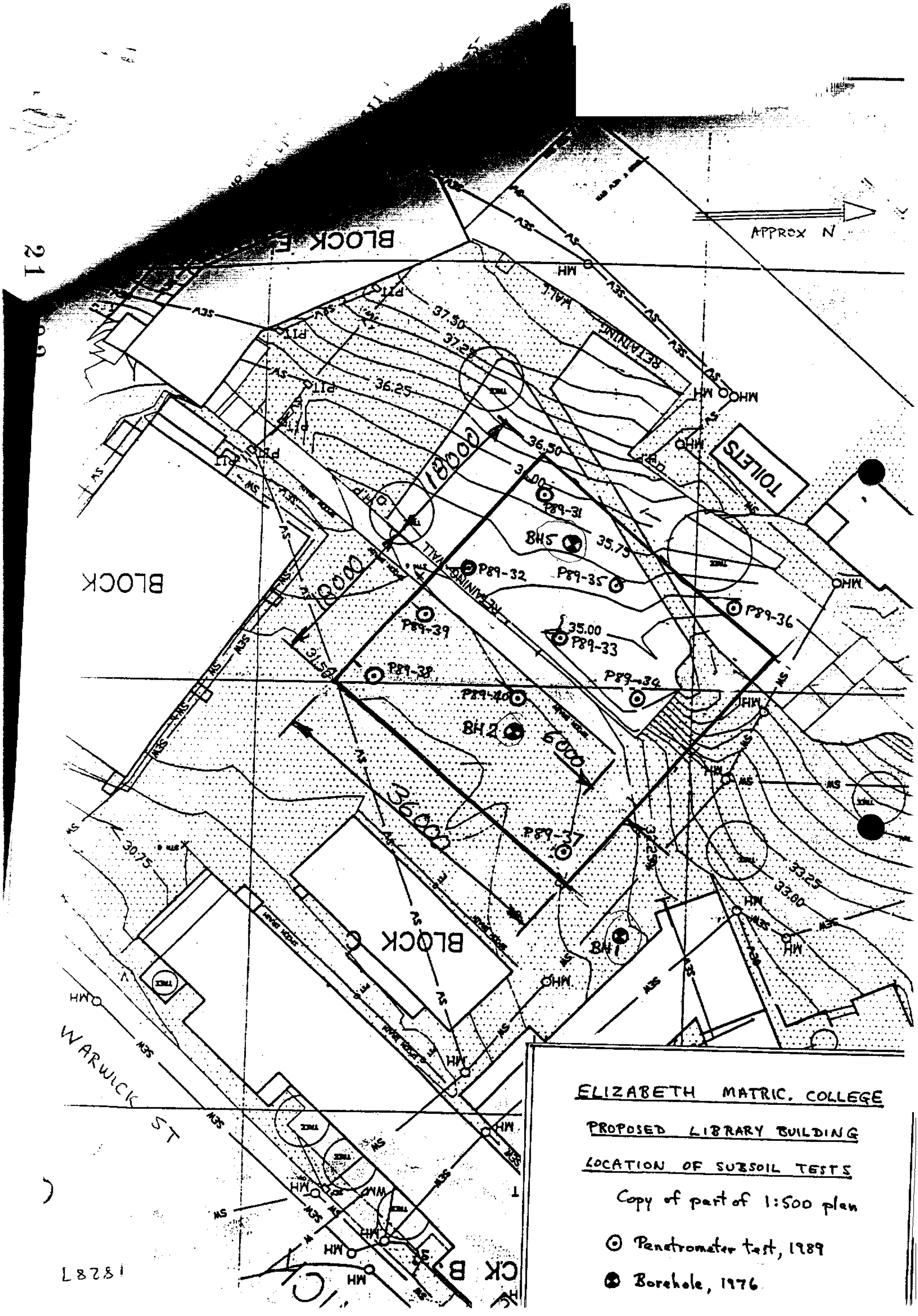

ELIZABETH MATRIC. COLLEGE

PROPOSED LIBRARY BUILDING

LOCATION OF SUBSOIL TESTS

Copy of part of 1:500 plan

⊙ Penetrometer test, 1989

⊗ Borehole, 1976

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L8281

RFF No 18287

ACC 1

PUR 0

E = 525895

N = 5252500

QUAD 82 MAPSHEET 8312 2

borehole no: 1

sheet 1 of 2

file:

hole commenced: 23/6/76

hole completed:

supervised by: JR - MCW - TS.

log checked by:

ELIZABETH MATRIC. COLLEGE

As per aerial photo

drilling and mounting: Mindrill F20 C. slope: Vert deg. R.L. surface: m

hole diameter: NX NQ mm bearing: — deg. datum:

operator: S. Vanker

method	penetration 1 2 3	support	water	notes samples, tests, etc.	R.L. depth metres	graphic log	classification symbol	material: soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	hand penetrometer kPa 100 200 300 400	structure and additional observations
AS					0.5		SC.	SAND brown				soil
AD/R							C.H.	CLAY high plasticity yellow brown gravelly	M	St.		?E.W. Siltstone
Casing				water added	1.66							
				core softened	2.0				W	S.		
					2.8			gravelly				
Drilling NX					3		CL	CLAY medium - low plasticity. Sandy yellow/brown	M	VSt.		?E.W. Sandstone
					4							Contains basalt pebbles (rounded)
					5			Clay medium plasticity orange	M	VSt		?E.W. siltstone
				core less	5.5							
					6.2			Continued on page 2				

key

method: AS auger screwing*; AD auger drilling*; R rotary core; W washbore; CT cable tool

* bit shown by suffix: B — blank bit; V — "V" bit; T — TC bit; e.g. ADT

support: C casing; M mud

penetration: 1 2 3 — no resistance ranging to refusal

water: 10 Oct, 73 water level on date shown; water inflow; water outflow

notes: U50 — undisturbed sample 50 mm diameter; D — disturbed sample; N — standard penetration test: figure = result; N* — SPT + sample; Nc — cone penetrometer; barrel withdrawn

classification symbols and soil description: based on unified classification system

moisture: D — dry; M — moist; W — wet

consistency/relative density: VS — very soft; S — soft; F — firm; St — stiff; VSt — very stiff; H — hard; Fb — friable; VL — very loose; L — loose; MD — moderately dense; D — dense; VD — very dense

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TC40R

borehole no 1

sheet 2 of 2

...og –
...ehole

File No.

Elizabeth Matric College

hole commenced: 23/6/76
hole completed:
supervised by: JR – MCW – TS
log checked by:

...hole location: As per Air Photo

drill model and mounting: Mindrill F20 c slope: Vert deg.
barrel type and length: NX – NQ fluid water bearing: — deg.

R. L. surface: m
datum:
Driller S. Vanker

method	case-lift	water	drilling information	R.L.	depth metres	graphic log / core loss	substance description (rock type: grain characteristics, colour, structure, minor components)	weathering	strength Is (50)	defect spacing mm	defect description (thickness, type, inclination, planarity, roughness, coating, particular / general)
					6.0 / 6.2						
					7 / 7.3		Siltstone fine grained red/brown	H.W			
NQ			100% Rec.		8 / 9 / 10 / 10.3		Sandstone medium grained light brown	M.W			Bedding Plane ≃ 25°; " " ≃ 30°; " " ≃ 20°; " 25-30°
							yellow	M.W			
			100% Loss				Clay red CL				? H.W Siltstone
			End of Hole		10.97		Total Depth = 10.97 m.				

Note: Water flowing from hole > 5 ℓ/hr. Hole plugged 12/8/76

key

method
AS auger screwing
AD auger drilling
R roller/tricone
W washbore
NMLC NMLC core drilling

case-lift
casing used
barrel withdrawn

water
10 Oct, 73 water level date shown
water inflow
partial drilling water loss
complete drilling water loss

graphic log/core loss
core recovered (hatching indicates material)
no core recovered

weathering
Fr – fresh
SW – slightly weathered
MW – moderately weathered
HW – highly weathered
EW – extremely weathered

strength (indirect tensile strength)
EL – extremely low
VL – very low
L – low
M – medium
H – high
VH – very high
EH – extremely high

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