21 206

HOB.
TE
COL

TRAVERSE 2

83/19

83/10

83/17

83/16

83/20

83/9

83/11

83/18

TRAVERSE 1

TRAVERSE 3

N°30

N°32

BATHURST ST

BRICK BUILDING

ARGYLE ST
× 26M R.

SYNAGOGUE

HOBART CLUB.

N

Scale 1:200

POLICE H

30-32 BATHU

HOBART

SITE PLA

scale 1:2

FIG

M 1386

M 1386

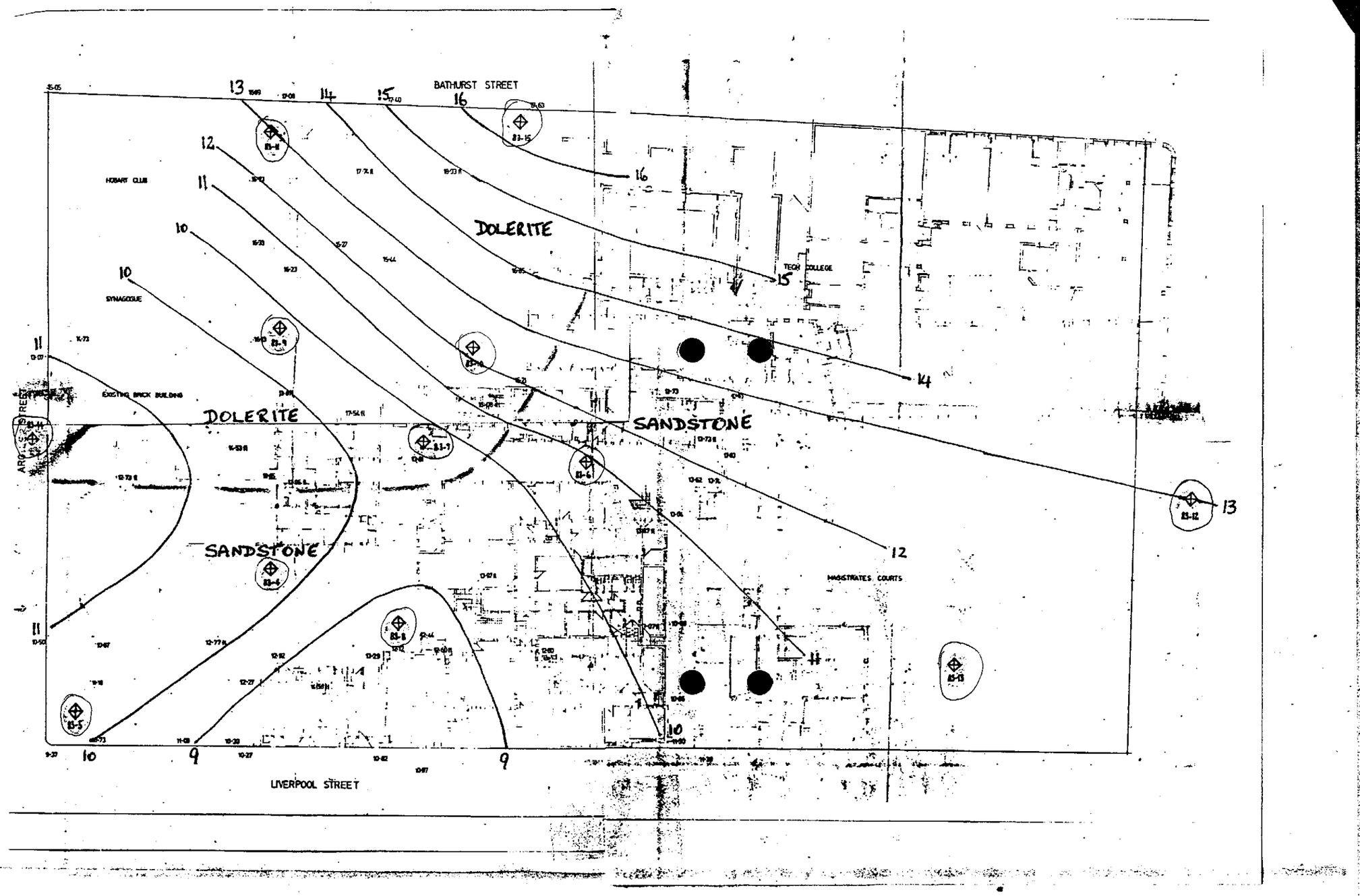

FIG 1: Location of boreholes New Police Headquarters, HOBART ⊕B3-4
Possible structural contours for top of in situ rock materials shown ——13
along with possible position of boundary between dolerite and sandstone — — —

method
AS auger screwing*
AD auger drilling*
R roller/tricone
W washbore
CT cable tool
* bit shown by suffix:
C casing
M mud

penetration
1 2 3 no resistance ranging to refusal

U50 – undisturbed sample 50 mm diameter
D – disturbed sample
N – standard penetration test:figure = result
N* – SPT + sample

based on unified classification system

moisture
D – dry
M – moist
W – wet

S – soft
F – firm
St – stiff
VSt – very stiff
H – hard
Fb – friable
VL – very loose
L – loose
MD – moderately dense

...(ras) ...n Division

REF No 18299
QUAD 82
MAP SHEET 83122

ACC 1
PUR 0
E = 526715
N = 5252 330
file:

borehole no: 83-10
sheet 1 of 2

engineering log – borehole

project: NEW POLICE HEADQUARTERS
borehole location: HOBART AS PER PLAN

hole commenced: 7-6-83
hole completed: 8-6-83
supervised by: T.SWANTON / C.DAVIES
log checked by: B. WELDON

drill model and mounting: GEMCO (trailer)
hole diameter: 110 mm
slope: Vert deg.
bearing: deg.
R.L. surface: N16.2 m
datum:
operator: G. BAKER

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 100 200 300 400 kPa	structure and additional observations
					0			PRIME + SEAL				Water levels date depth 9-6 fallen in at 3.5m
								RUBBLE, FILL + SANDY CLAY				
					1							
					1.50							
AS				N* = 15 (3,6,9)	1.95 2		SC	SANDY CLAY: brown + grey medium plasticity M.C. > P.L.	M	St-H		
					3.00 3		CH-CL	CLAY: brown, med. plasticity	M	St D		26 blows for first 150mm of penetration only.
				N* > 50	3.15			DOLERITE: grey-blue, gravelly				
				N* = 46 (5,14,32)	3.21			GRAVEL: med. grained dolerite gravel	D	VD		
					3.66							
					4			continued on engineering log – cored borehole sheet				

21 220

key

method
AS auger screwing*
AD auger drilling*
R roller/tricone
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 – samples and tests
U50 – undisturbed sample 50 mm diameter
D – disturbed sample
N – standard penetration test: figure = result
N* – SPT + sample
Nc – cone penetrometer

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

M 1598

M & R.F8

MAIN ROADS (TAS.)
RESEARCH DIVISION

engineering log — cored borehole

borehole no: 83-10
sheet 2 **of** 2

File No.

project:	NEW POLICE HEADQUARTERS HOBART	hole commenced:	7-6-83
borehole location:	AS PER PLAN	hole completed:	8-6-83
		supervised by:	T. SWANTON / C. DAVIES
		log checked by:	B. WELDON

drill model and mounting:	GEMCO (trailer)	slope:	Vert deg.
barrel type and length:	NQTT 1.5m	fluid:	H_2O
bearing:	— deg.	R. L. surface:	≈ 16.2 m
datum:		Driller:	G. BAKER

drilling information | **rock substance** | **rock mass defects**

method	case-lift	water	R.L. depth metres	graphic log / core loss	substance description (rock type: grain characteristics, colour, structure, minor components)	weathering	strength Is (50) (EL VL L M H VH EH)	defect spacing mm (30 100 300 1000 >3000)	defect description (thickness, type, inclination, planarity, roughness, coating) — particular	general
			0 – 3.66		continued from engineering log — borehole sheet					
			3.66 – 3.78		DOLERITE : gravelly				CORE LOSS	
NQTT	H		3.78 – 6.30 (4.08, 4.82, 5.20)		DOLERITE : blue-grey-brown fine grained with medium grained spots of dark crystalline material (? pyroxene).					Most defects are joints at 30° + 60° with subhorizontal + All subvertical joints as well with joint surfaces are coated with dark Mn or Fe material; Usually planar, some smooth with clay
			6.30		End of borehole 83-10 at 6.30 m depth.					

21 221

key

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

case-lift
- casing used
- H 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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