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

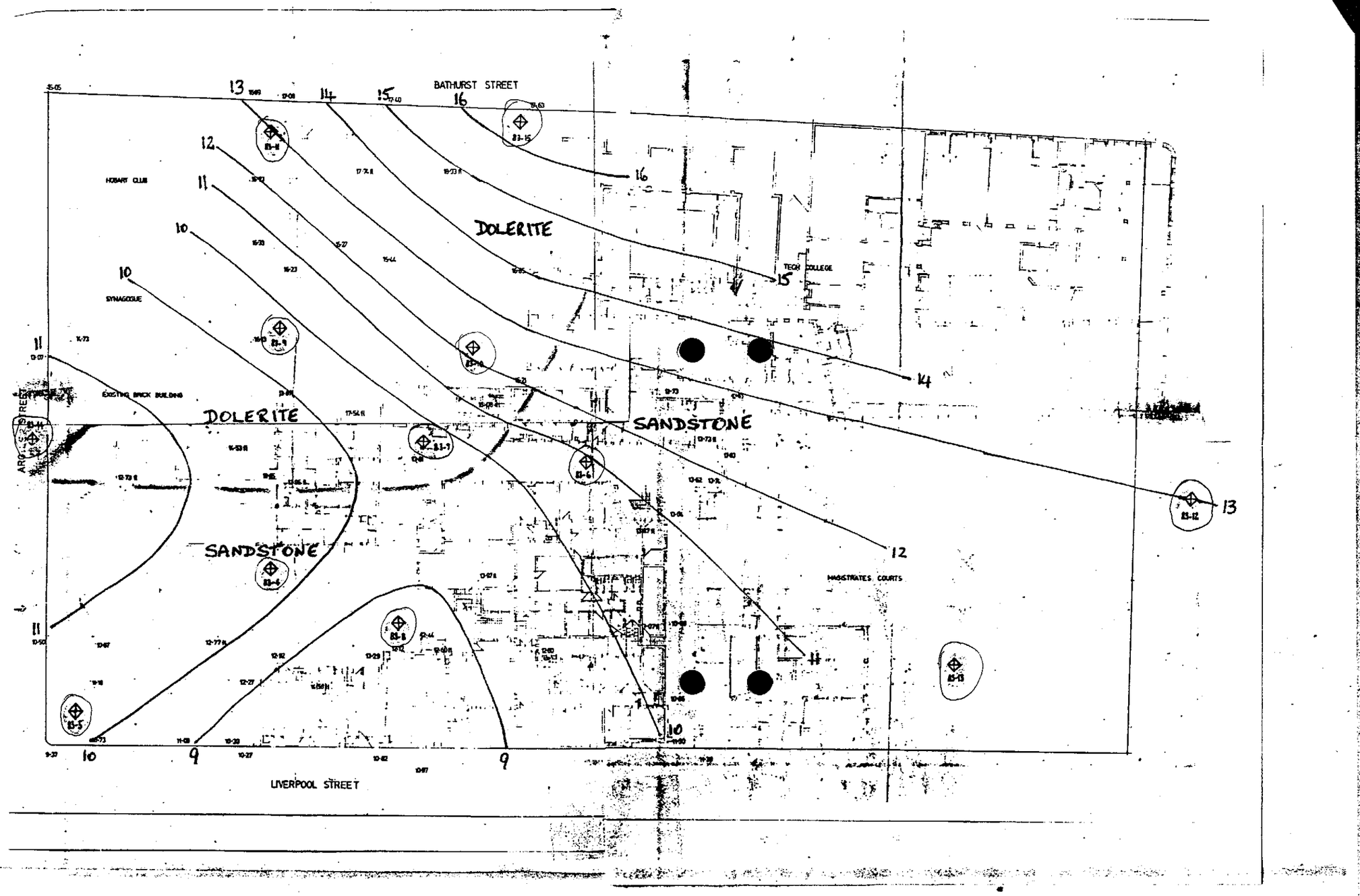

FIG 1: Location of boreholes New Police Headquarters, HOBART ⊕B3-4
Possible structural contours for top of in situ rock materials shown ——13
along with possible position of boundary between dolerite and sandstone — — —

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

(Tas)
Division

REF NO 18296 ACC 1
QUAD 82 PUR 0
MAP SHEET 83122 E: 526702
N: 5252315

borehole no: 83-7
sheet 1 of 2

engineering log – borehole

file:

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

hole commenced: 2-6-83
hole completed: 3-6-83
supervised by: T. SWANTON
log checked by: B. WELDON

drill model and mounting: GEMCO (trailer)
hole diameter: 90 mm
slope: Vert deg.
bearing: — deg.
R.L. surface: ~12.8 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 kPa 100 200 300 400	structure and additional observations
					0			CONCRETE				Water Levels date depth 6-6 2.9m 7-6 2.95 8-6 2.9 9-6 fallen in at 2.6m
W					1							
					1.65							
				N* = 30 (7,19,11)	2.10 2			GRAVEL: decomposed subangular dolerite, indurated sandstone, concrete etc with clay binder (FILL)	W	MD		
			4/6		2.95							
				N* > 50	3.17 3			SANDY CLAY GRAVEL: decomposed sandstone	M	D		SPT 15, 15 blows for 70mm penetration
WET					4.13 4			GRAVEL: decomposed dolerite, concrete and brick indurated sandstone etc in clayey matrix (FILL)	M	D		SPT 2,9,29 blows for 100mm penetration
				N* > 50	4.53							
					5							

21 21

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

ROADS (TAS.)
RESEARCH DIVISION

M & R.F8

borehole no: 83-7
sheet 2 of 2

engineering log — cored borehole

File No.

project: NEW POLICE HEADQUARTERS
borehole location: HOBART

hole commenced: 2-6-83
hole completed: 3-6-83
supervised by: T. SWANTON
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: ~138 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
				1						
				2						
				3						
				4		Continued from engineering log — borehole sheet				
				4.53						
NQTT				4.71		DOLERITE: blue-grey fine grained	MW			
				5			SW			
				5.41						
				5.82						
				6						
				6.50						
				6.63			Fr			crystalline material in joint
				6.78			SW			Most joints are 40-60°, close and often intersecting; occasional blue-green clay on joint surfaces; usually more intensely weathered with Fe + Mn staining
				6.90						
				7		Borehole 83-7 terminated at 6.90 m depth				

21 215

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