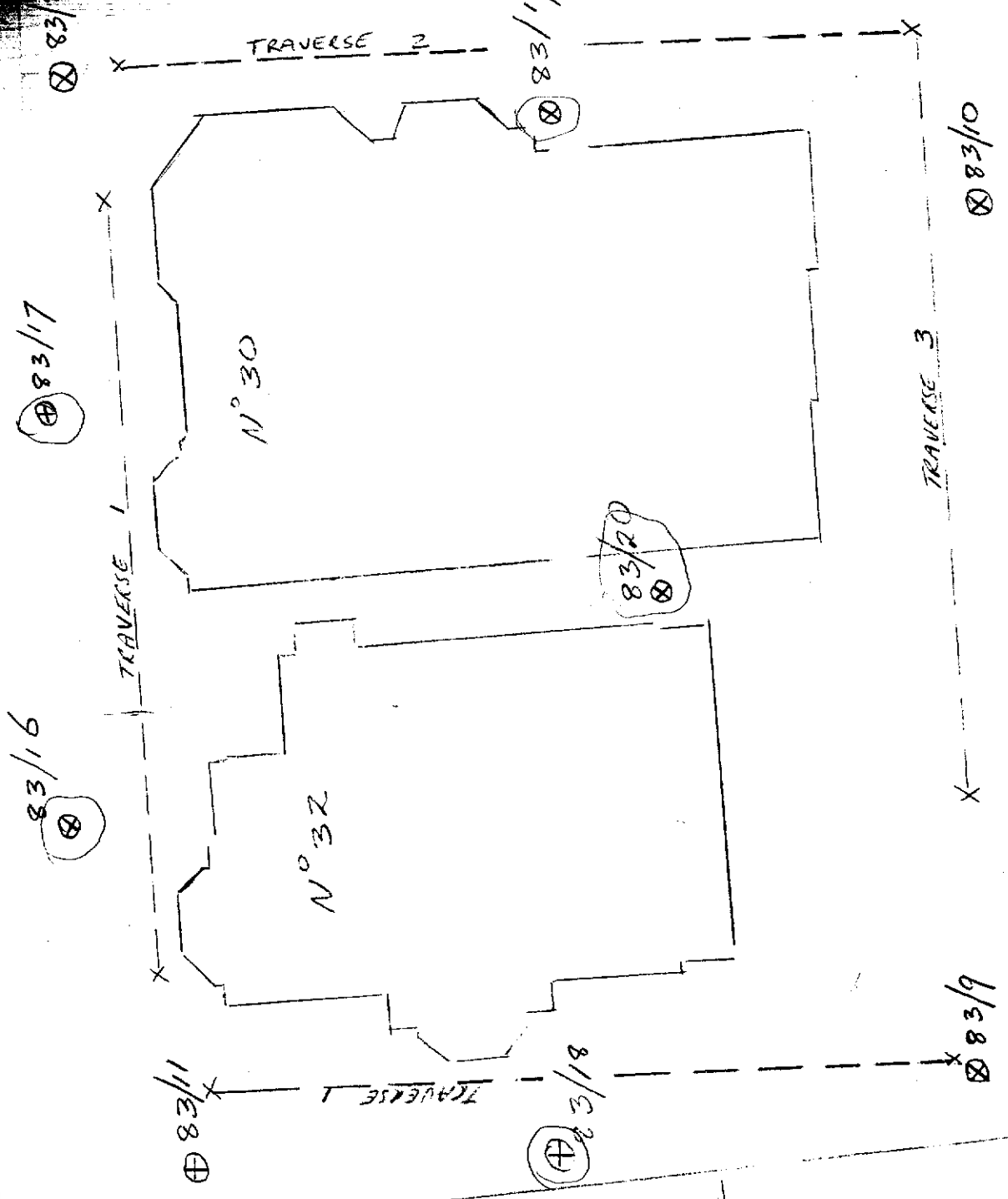


HOB.
TE
COL

21 206

Bathurst St



BRICK BUILDING

HOBART CLUB.

ARCHIE ST
x 26M R.

SYNAGOGUE

Scale 1:200

H E 3100

30-32 BATHURST

HOBART

SITE PLAN
scale 1:2

FIG

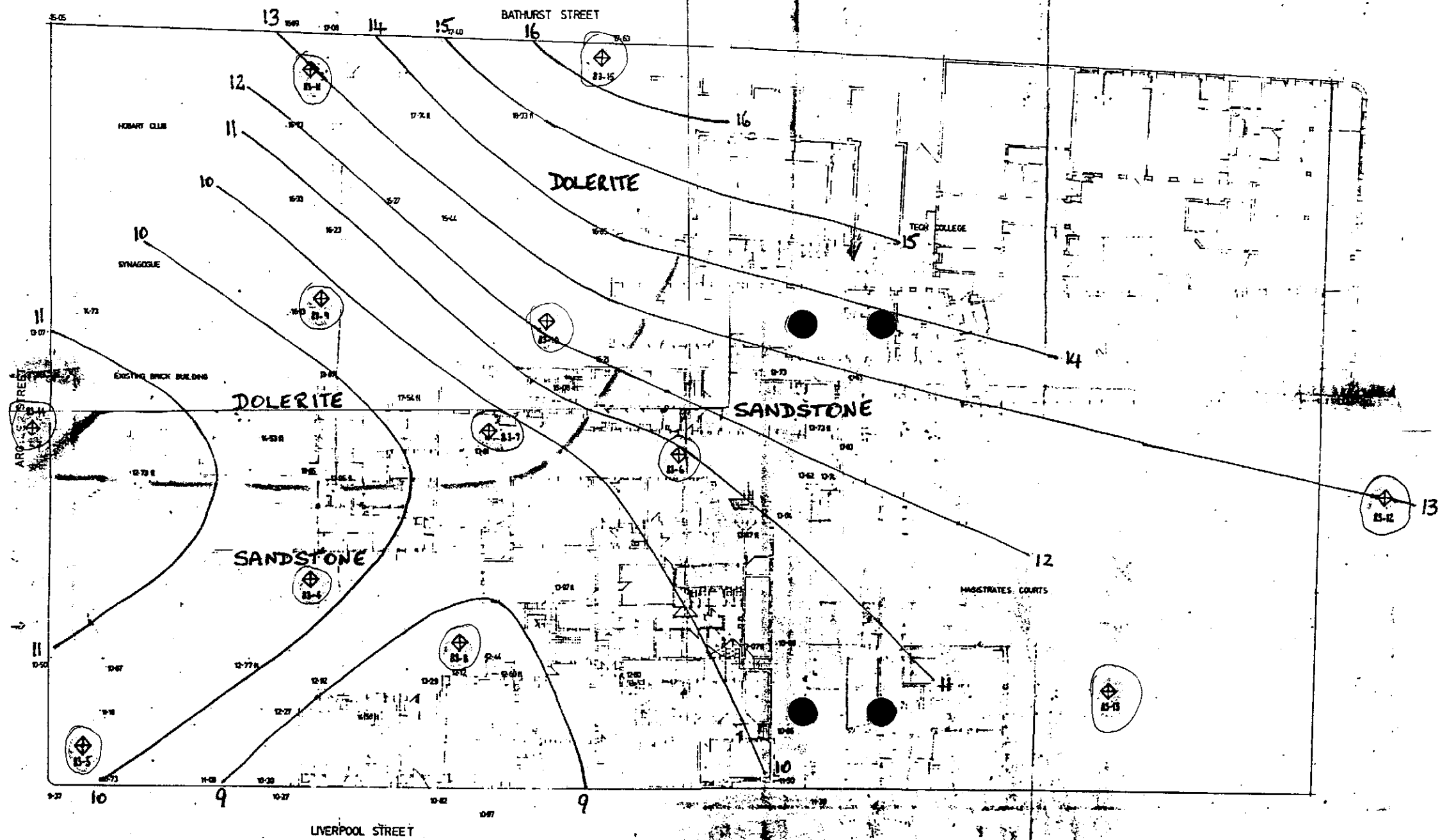



FIG 1: Location of boreholes New Police Headquarters, Hobart  B3-4
 Possible structural contours for top of in situ rock materials shown — 13
 along with possible position of boundary between dolerite and sandstone - - - -

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

C casing mud
 M mud
 penetration
 123 no resistance ranging to refusal

U50 - undisturbed sample 50 mm diameter
 D - disturbed sample
 N - standard penetration test: figure = result
 N° - SPT + sample
 AI cone penetrometer

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

engineering log - borehole

E 526695
file: N5252320

NEW POLICE HEADQUARTERS HOBART
 project: **HOBART**
 borehole location: **AS PER PLAN**
 hole commenced: **31-5-83**
 hole completed: **31-5-83**
 supervised by: **T. SWANTON**
 log checked by: **B. WELDON**
 drill model and mounting: **GEMCO (trailer)** slope: **Vert** deg.
 hole diameter: **110** mm bearing: **-** deg. R.L. surface: **N 13.3** m
 datum: operator: **G. BAKER**

method	penetration	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	structure and additional observations																
AS	123	M		N [*] = 17 (3, 7, 10)	1.50 1.95		RUBBLE: sandy clay; brown land-fill. SC SANDY CLAY: grey-brown; medium plasticity; moisture content & plasticity limit; sand fine grained	M	H		Water levels <table border="1"> <tr><th>date</th><th>depth</th></tr> <tr><td>3-6</td><td>2.8m</td></tr> <tr><td>6-6</td><td>2.9</td></tr> <tr><td>7-6</td><td>2.9</td></tr> <tr><td>8-6</td><td>2.9</td></tr> <tr><td>9-6</td><td>2.75</td></tr> <tr><td>14-6</td><td>2.85</td></tr> <tr><td>17-6</td><td>3.00</td></tr> </table>	date	depth	3-6	2.8m	6-6	2.9	7-6	2.9	8-6	2.9	9-6	2.75	14-6	2.85	17-6	3.00
date	depth																										
3-6	2.8m																										
6-6	2.9																										
7-6	2.9																										
8-6	2.9																										
9-6	2.75																										
14-6	2.85																										
17-6	3.00																										
			2/6	N [*] > 50 8.31/150	3.00 3.30		CLAYEY SAND: light yellow; med. plasticity grey clay; fine sand	M	D		lost 31 blows for 150 mm of penetration																
							continued on engineering log - cored borehole sheet																				

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 123 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
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engineering log — cored borehole

File No.

project: **NEW POLICE HEADQUARTERS HOBART**
borehole location: **AS PER PLAN**
hole commenced: **31-5-83**
hole completed: **31-5-83**
supervised by: **T. SWANTON**
log checked by: **B. WELDON**

drill model and mounting: **GEMCO (fraser)** slope: **Vert. deg.**
barrel type and length: **NRTT 1.5m** fluid **H₂O** bearing: **- deg.**
R. L. surface: **N13.3** m
datum: **Driller G. BAKER**

drilling information			rock substance				rock mass defects		
method	case-lift	water	L. depth R. 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
			3-33		from engineering log sheet borehole				
					CORE LOSS				
			4-11		SANDSTONE: brown; fine grained	HW			
			4-24		CORE LOSS				
					SANDSTONE: light yellow stained with brown iron	HW			
					CLAY: silty white; med. plasticity	EW			
			5		SANDSTONE: orange; bedded; medium grained; micaceous.	MW			
			5-68		MUDSTONE: orange	MW			Subvertical planar, rough clay + mica lined jt
			6-13		CORE LOSS				
					MUDSTONE: brown-orange	HW			
					SANDSTONE: orange; fine grained; micaceous	MW			
					medium grained	HW			
			7-11		medium grained	MW			
			7-46		CORE LOSS				
					SANDSTONE: light brown medium grained	HW			
			8		fine grained	MW			
			8-61		medium grained				
			9		CORE LOSS				
			9-36		SANDSTONE: light brown, medium grained; current bedded; micaceous	MW			bedding up to 35°
			10-11		END OF BOREHOLE 83-4 at -10.11 m depth				

Most defects are sub-horizontal bedding plane partings often with mica on surface. Much iron staining and some colour mottling

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 [hatched] core recovered (hatching indicates material) [solid] 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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21 208