DavidsonPartners Ltd

Structural Engineering
Civil Engineering
Building Design
Project Management

Practising in association with Ayson and Partners, Registered Surveyors

Our Ref: 6128

24 June 1998

Marlborough District Council
P O Box 443
BLENHEIM

ATTENTION: Mr M Taylor

re: D'URVILLE ISLAND WILDERNESS RESORT - CAFETERIA AND BAR
NEW RESOURCE CONSENT

We understand that Darryl French of the D'Urville Island Wilderness Resort has recently submitted a Resource Consent for the construction of a new cafeteria and bar.,

He has requested that we change the orientation of the effluent disposal field in order to create extra distance from the watercourse on the neighbouring property to the east from the disposal field. Although we had no concerns from an engineering point of view, this will mitigate the concerns raised by the owner of this neighbouring property.

Please find enclosed three copies of plan number 6128 sheet C2 issue 'B' for your records.

DAVIDSON PARTNERS LTD

W L McGlynn

LM:BMM

Encl

COPY TO: D'Urville Island Wilderness Resort
Catherine Cove
D'Urville Island
Rural Bag 1211
RAI VALLEY

ATTENTION: Mr D French

ACENZ

Davidson Ayson House
4 Nelson Street, P.O. Box 256
Blenheim, New Zealand
Telephone 03 578 7029 Fax 03 578 7028

Principals
Ron Melton, BE, M.IPENZ, REGD
Stephen Sheat, BE, M.IPENZ, REGD
Leigh McGlynn, BE, M.IPENZ, REGD

north

POND

CREEK

MOTEL

MOTEL

PT LOT 2
DP 11246

LOT 1
DP 11246

(SWAMPY)

EXISTING TREES

4 x 20m SHALLOW DISPOSAL TRENCHES 32mm DISTRIBUTION LINE WITH 6.0mm HOLES @ 1.0m CENTRES. IN SIDE OF 100ϕ 'CORFLO'

32mm DISTRIBUTION LINE WITH VALVES.

PUMP CHAMBER + EFFLUENT PUMP TO SUPPLY A 330 l DOSE AT 1.5 l/s & HEAD OF 10m PLUS THE DEPTH OF THE CHAMBER.

5000 l SEPTIC TANK.

TOILET WASTE ONLY

PROPOSED CAFE & BAR

WATER COURSE

RIPARIAN RIGHTS

M . H . W . S

SHED
(TO BE REMOVED)

FORESHORE RESERVE

JETTY

CATHERINE COVE

plan
1:500

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D'URVILLE Is. WILDERNESS RESORT
PT LOT 2 DP 11246
D'URVILLE ISLAND

effluent disposal plan

DATE	SCALES	DRAWING No.	SHEET	ISSUE
6/98	1:500	6128	C2	B

DES LM | DRN BG | CK MW | CAD

north

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LOT 1
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(SWAMPY)

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MOTEL

LOT 1
DP 11246

(SWAMPY)

Pt LOT 2
DP 11246

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Our Ref: 6128

10 June 1998

D'URVILLE ISLAND WILDERNESS RESORT
EFFLUENT TREATMENT DISPOSAL
PT LOT 2 D.P. 11246
CATHERINE COVE, D'URVILLE ISLAND

1. GENERAL:

Our brief was to investigate and recommend a suitable effluent treatment and disposal system for the proposed cafe and bar development on the above property.

There is also proposed to be a shower available for use by boaties, kayakers, etc.

A site investigation was undertaken by this office in accordance with the Draft AS/NZS 1547 "On Site Domestic Wastewater Management" and the Auckland Regional Council's Technical Publication No. 58.

2. FIELD ASSESSMENT:

Date of visit.		25 May 1998
Site exposure	- to sun.	Medium
	- to wind.	High
Depth of topsoil.		300 mm
Soil description.		Silty Gravels
Pedal content.		n/a
Performance of existing trench systems nearby.		Good
Estimated soil category.		1

/...

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REF: 6128

Nearest water bodies -	Creek	- 10 metres
	Pond	- 30 metres
	Sea	- 45 metres
Runoff to be controlled.	No	
Groundwater to be controlled.	No	
Any stability considerations.	No	
Depth to water table.	Not found	
Vegetation cover - existing.	Trees/grass	
- proposed.	Trees/grass	
Recent weather conditions.	Dry	

3. DISPOSAL:

3.1 Location of Disposal Field

The disposal field has been located away from existing buildings in an area which has good exposure to the sun and prevailing wind. We consider that the area shown on plan number 6128 sheet C2 is suitable for the disposal of pretreated effluent to the ground, even though the disposal field is within 30 metres of the creek and pond. The discharge will not impact upon either of these waterbodies because the effluent would be expected to drain quickly away into the ground due to the good soakage and that flatness of the land means that no significant sideways movement of effluent would be anticipated. Also, recent research carried out by the University of Auckland indicates that bacteria is removed over relatively short distances from the discharge points (trenches), being less than one metre soil depth.

3.2 Method of Disposal

The excellent soakage of the soil at this site allows the use of shallow trench disposal. The trenches are to be flood loaded using a pump to ensure an even distribution of effluent, which should also aid long term reliability of the system. The pressure pipe will be embedded within the disposal pipe to further ensure even distribution.

The trenches should be dosed in pairs with each dose being approximately 330 litres in volume, and the loaded trenches changed regularly (perhaps every month) with shorter cycles when an influx of people is expected.

3.3 Trench Design

Estimated long term acceptance rate (LTAR).	30 mm per day
Number of diners.	30
Wastewater allowance.	30 litres per diner

/...

REF: 6128

Estimated total wastewater flow (including shower).	1000 litres per day
Total trench length.	80 metres

4. TREATMENT:

Septic tank treated effluent is suitable for trench disposal, and the quality of this effluent is significantly improved by the use of an effluent filter on its outlet. Hence, we recommend the installation of a 5,000 litre standard septic tank and Zabel A300 effluent filter (or equivalent) as the treatment system.

A Skellerup Rotomould septic tank could be chosen due to its portability, but any approved tank will be suitable.

Due to the large proportion of kitchen type waste that would be expected to arise from a cafe and bar establishment, we recommend that the wastewater from the kitchen pass through a grease trap before entering the septic tank. It should be constructed in accordance with G13/AS2 of the Building Code.

5. SUMMARY:

We propose that the effluent treatment and disposal system consist of the following:

(a) A 5,000 litre septic tank (Skellerup Rotomould or other approved septic tank).

(b) A Zabel A300 effluent filter (or equivalent) on the outlet of the septic tank.

(c) A 150 litre capacity grease trap in accordance with G13/AS2 of the Building Code.

(d) A pump chamber with submersible effluent pump to provide a dose of 330 litres at a rate of 1.5 litres per second and pressure head of 1.0 metres plus the depth of the chamber.

(e) A 32 mm diameter distribution line with valves to isolate each pair of trenches, and 6.0 mm holes at 1.0 metre spacings where within the 100 mm diameter Corflo of each trench.

(f) Four 20 metre long shallow disposal trenches with a reserve area for further trenches.

The above is described on plan number 6015 sheets C1 to C3 attached.

DAVIDSON PARTNERS LTD

W L McGlynn

RWD:BMM

4.0 GREASE TRAPS

4.1 Grease trap requirements

4.1.1 *Grease traps* shall be provided for any *waste pipe* serving a sink(s) where the *foul water* discharges to a soak pit.

4.1.2 In *buildings* other than *Housing*, *grease traps* shall be provided where waste water is likely to convey grease.

4.2 Capacity

4.2.1 The capacity of a grease trap shall be at least twice the capacity of all *sanitary fixtures* and *sanitary appliances* discharging to it, and in no case less than 100 litres.

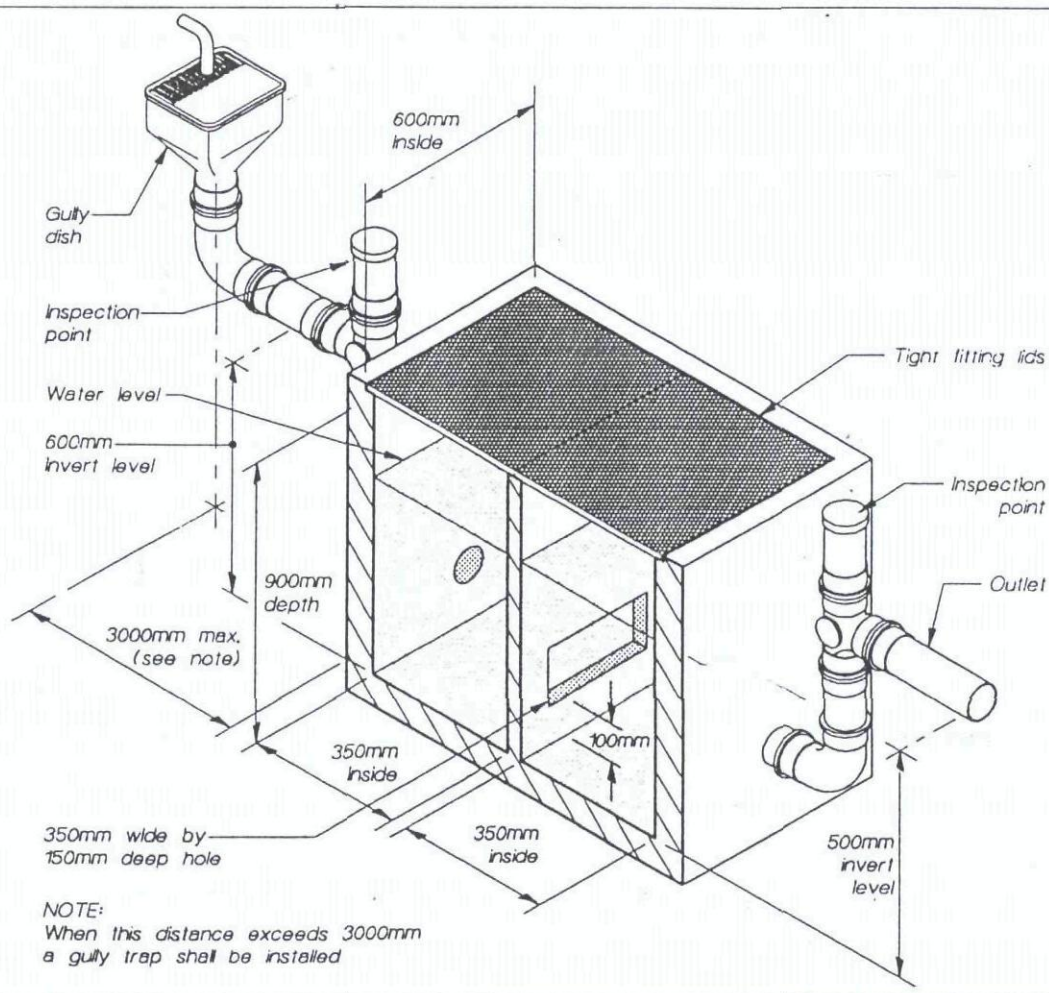
4.2.2 For restaurants, the capacity shall be at least 5 litres for each person for whom seating is provided, and in no case less than that required by Paragraph 4.2.1.

4.3 Construction

4.3.1 *Grease traps* located outside a *building*, shall be constructed as shown in Figure 3.

Figure **3: Details of grease traps - up to 150 litres capacity**
Paragraph 4.3.1

Amd 1 Sept '93



Amd 1 Sept '93

Amd 1 Sept '93

north

POND

CREEK

MOTEL

MOTEL

PT LOT 2
DP 11246

LOT 1
DP 11246

(SWAMPY)

EXISTING TREES

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PROPOSED CAFE & BAR

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PT LOT 2 DP 11246
D'URVILLE ISLAND

effluent disposal plan

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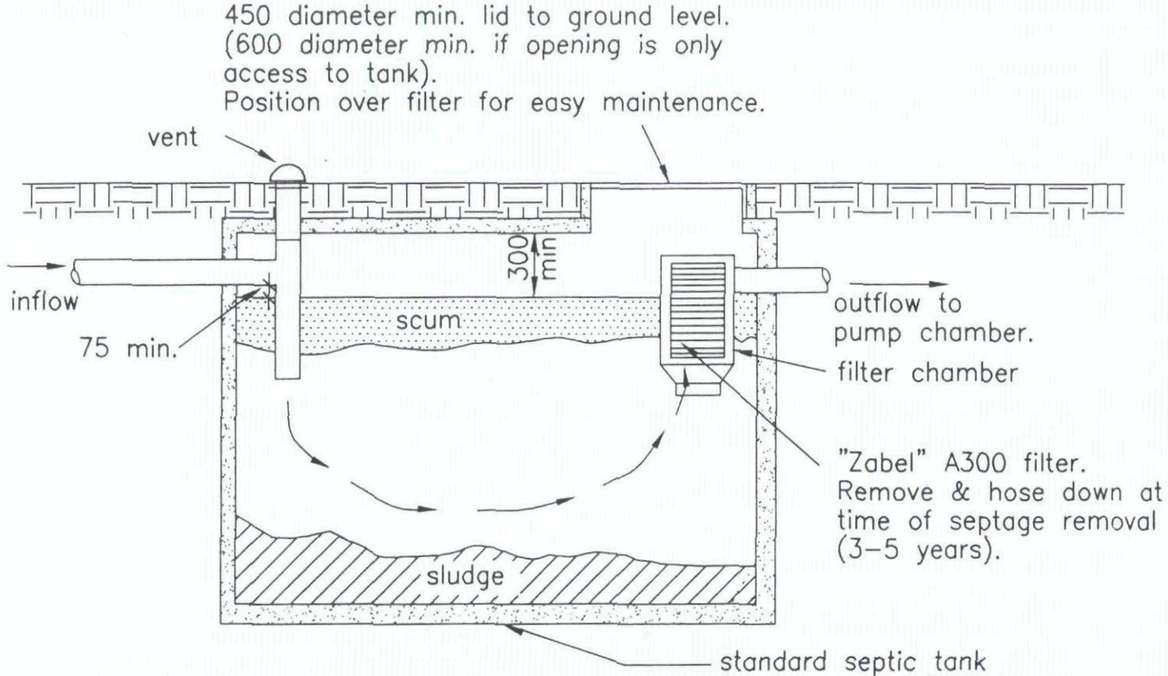

typical cross section

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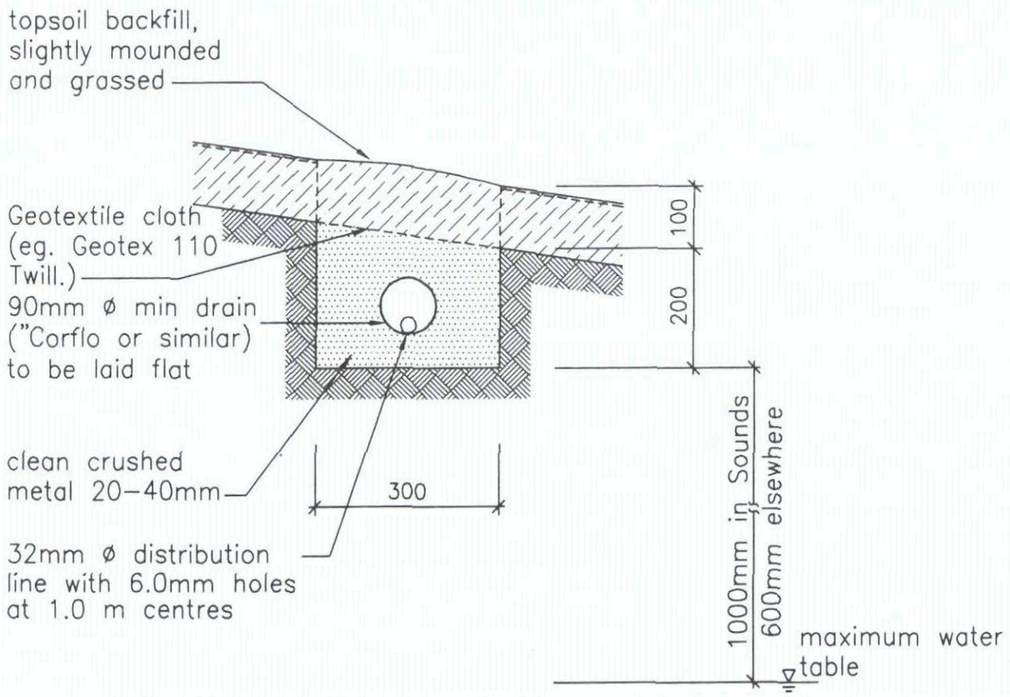

shallow disposal trench

1:10

Suggested Operation and Maintenance Septic Tank

1. The inflowing household sewage should not contain anything other than human waste and toilet paper, and food material such as may go down a kitchen sink drain. Garbage grinders are not recommended, although they need not be forbidden. More frequent de-sludging of the septic tank may be needed if a garbage grinder is used.

   Normal use in the house of soaps, detergents, bleaches, plumbing fixture cleaners, drain cleaners and disinfectants will not harm the functioning of the septic tank or the soil absorbtion system.

2. Prohibited discharges to the septic tank include:-
   Oil/grease from e.g. a deep fryer.
   Stormwater and any drainage other than sewage generated in the house.
   Petrol, oil and other flammable/explosive substances.
   Household, garden, garage, and workshop chemicals (e.g. pesticides paint cleaners, photographic chemicals, motor oil and trade waste).
   Disposable nappies and sanitary napkins.

3. Septic tanks need to be pumped (septage removed when the scum layer comes to within 75mm of the bottom of the outlet tee or when sludge and scum have accumulated to the extent that the clear space (between scum and sludge) has a volume less than 1000 litres). Septage removal may need to be done as often as every three years but at no longer than five year intervals.

"Zabel" A300 filter

1. The septic tank should be pumped prior to removal of the filter to prevent any solids from escaping to the trenches when the cartridge is removed.
2. The Zabel filter shall be cleaned at the same time as normal septic tank servicing (3–5 years).
3. Remove the disc cartridge and rinse off with a garden hose, being careful to rinse all septage material back into the tank.
   It is not neccessary that the discs be cleaned "spotless".
   The biomass growing on the filter aids in the pre-treatment process and should be left in the discs.

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PT LOT 2 DP 11246
D'URVILLE ISLAND

effluent disposal field
typical septic tank details

DATE	SCALES	DRAWING No.	SHEET	ISSUE
6/98	As shown	6128	C3	A

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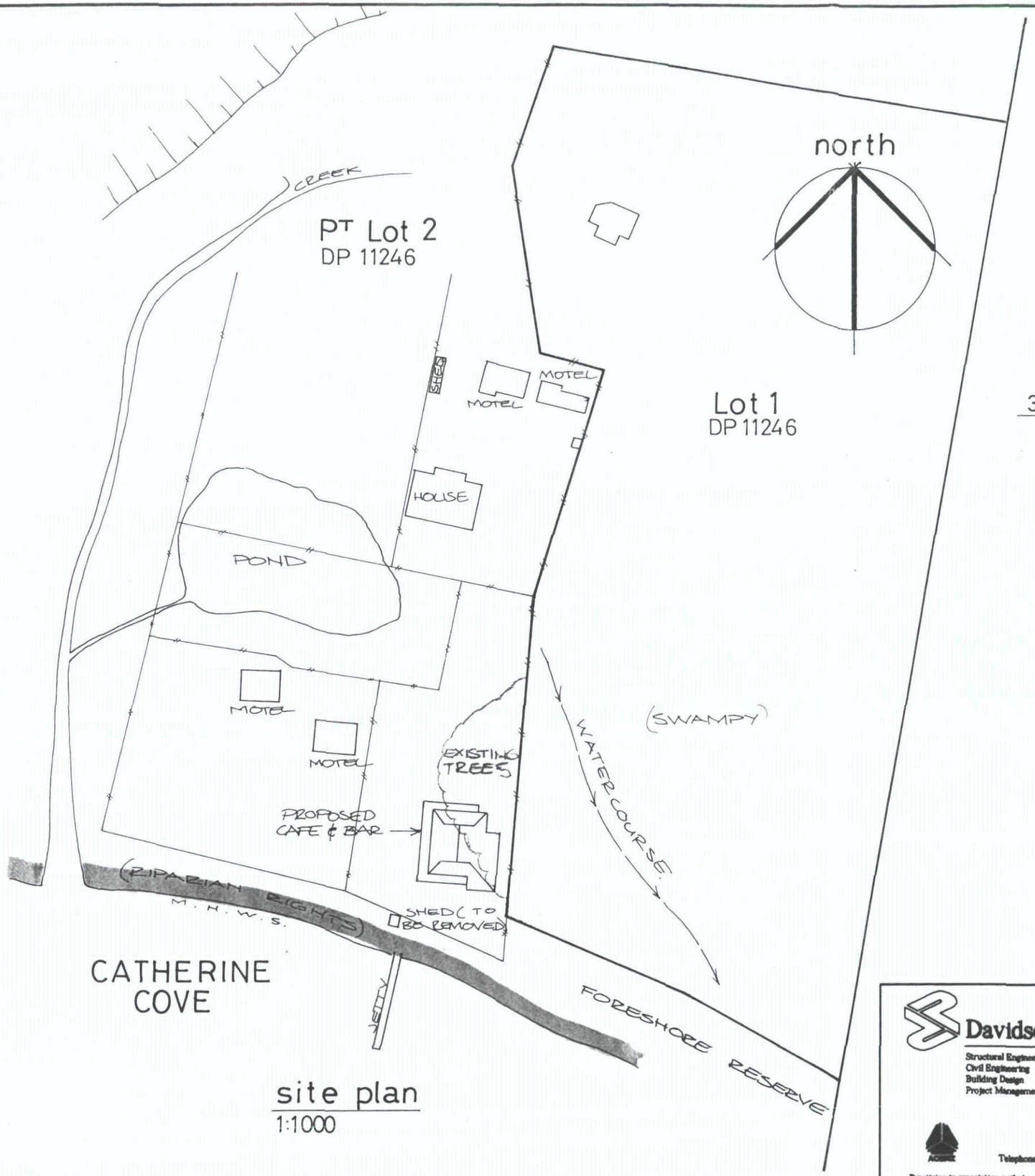

site plan
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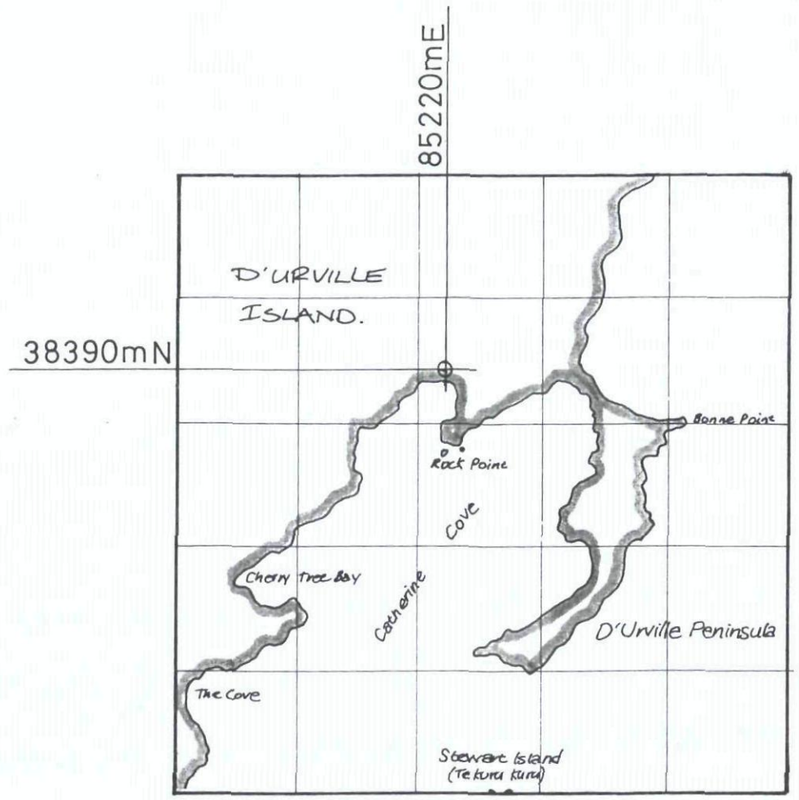

locality plan NZMS 260/P26
1:50000

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DURVILLE ISLAND

site and locality plans

DATE	SCALES	DRAWING No.	SHEET	ISSUE
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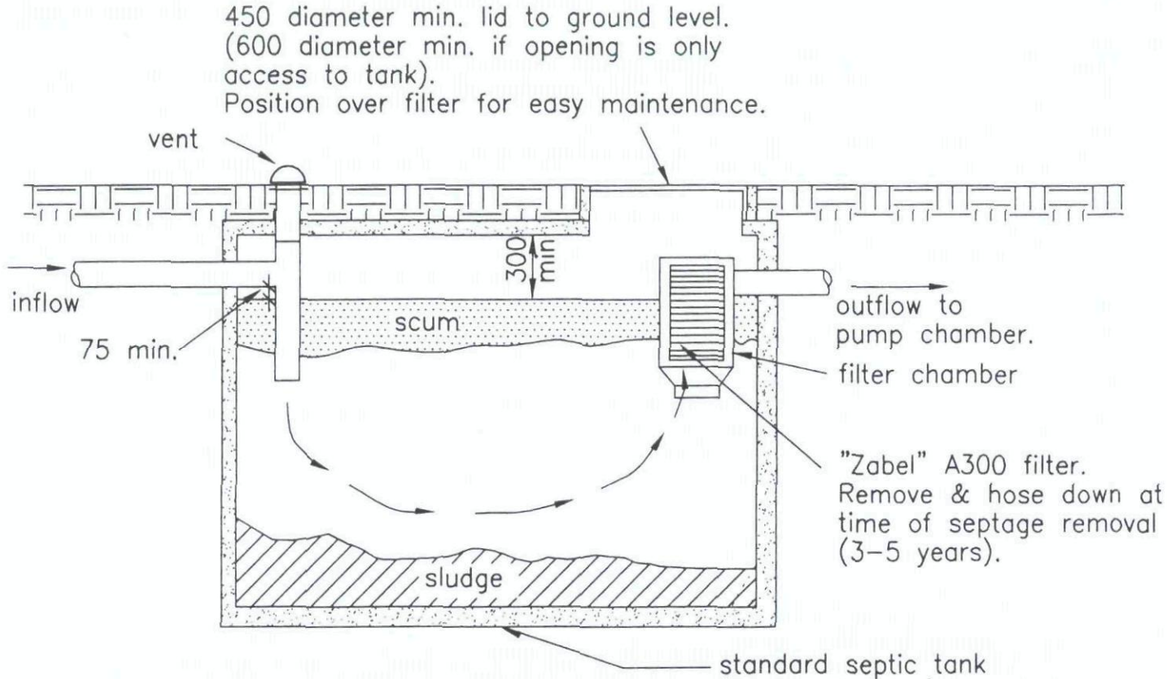
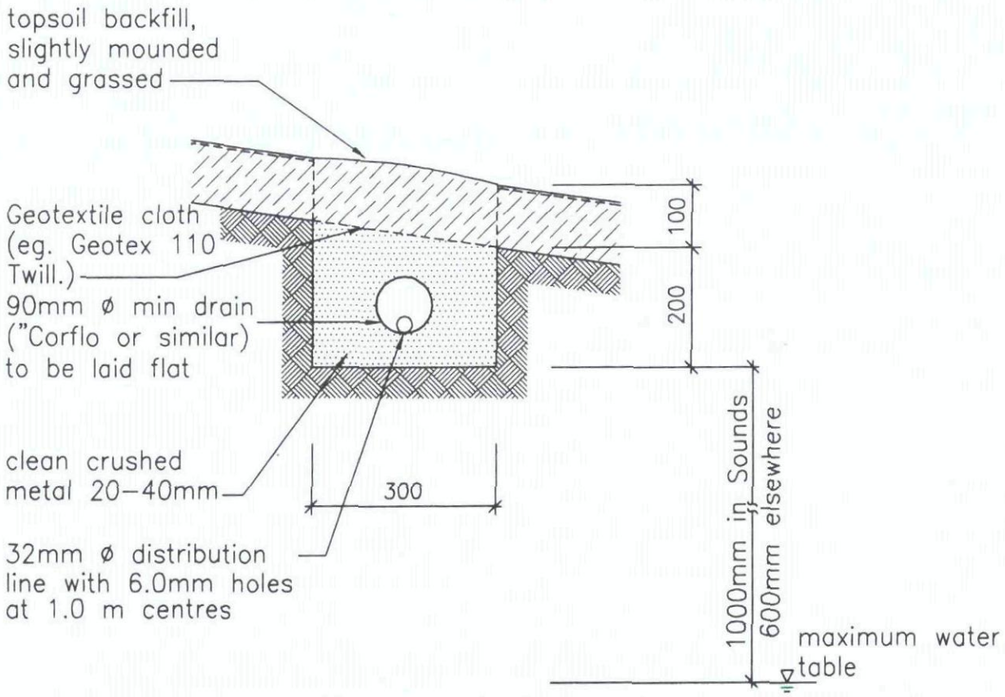


typical cross section

1:25



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PT LOT 2 DP 11246
D'URVILLE ISLAND

effluent disposal field
typical septic tank details

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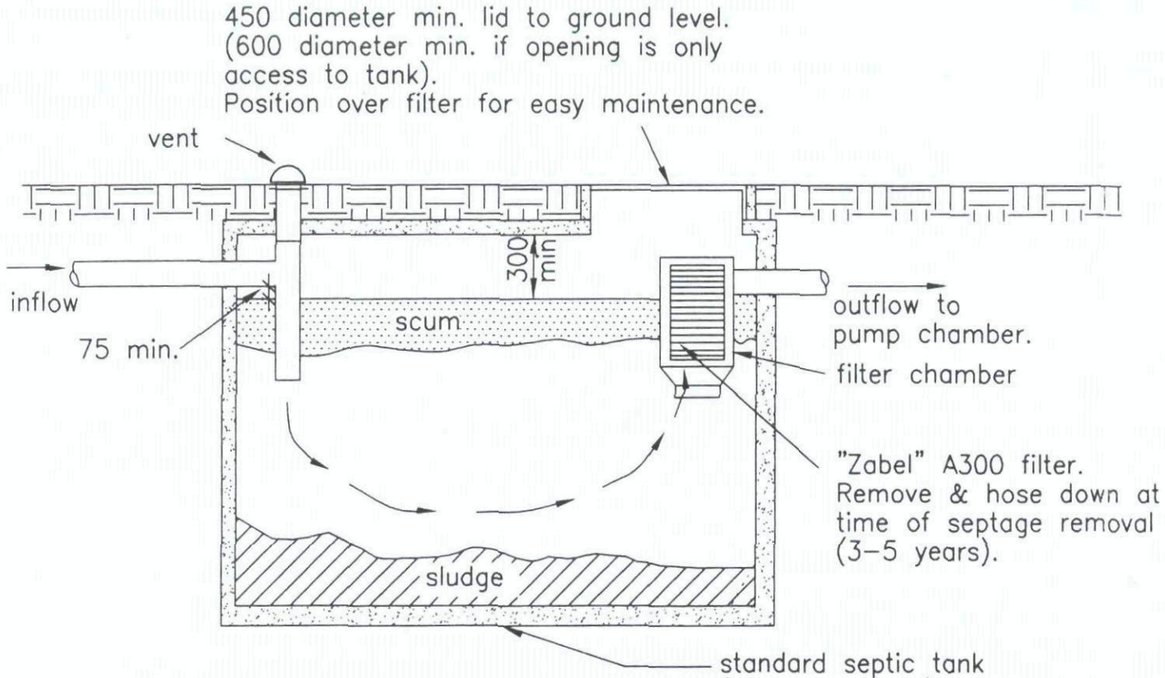

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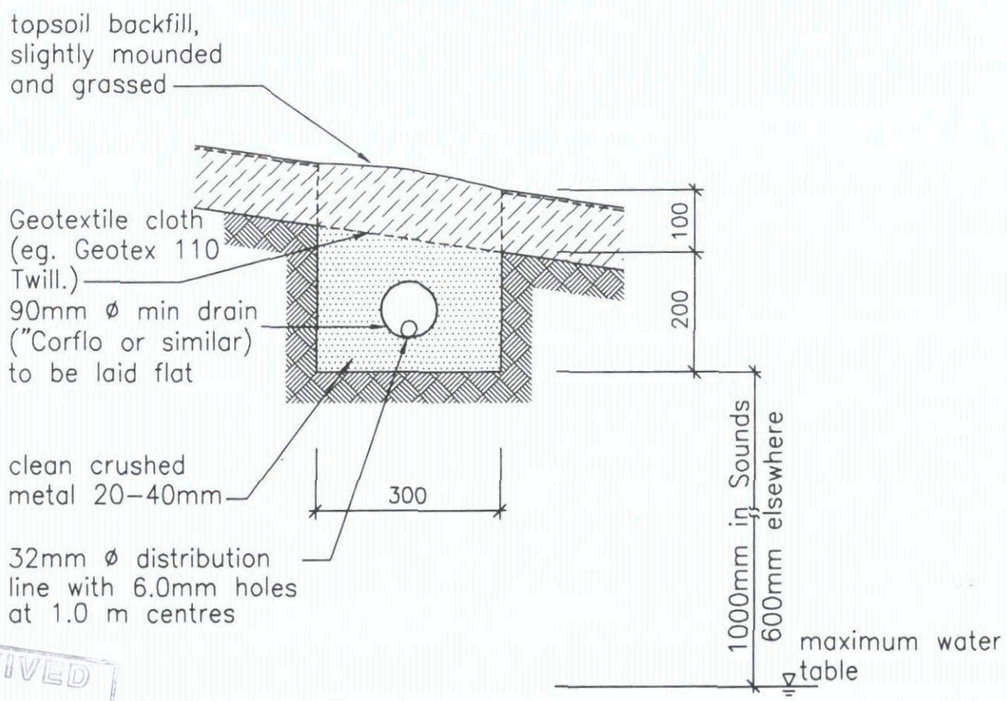

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D'URVILLE ISLAND

effluent disposal field
typical septic tank details

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WATER COURSE

RIPARIAN RIGHTS

M.H.W.S.

SHED (TO BE REMOVED)

FORESHORE RESERVE

JETTY

CATHERINE COVE

plan
1:500

RECEIVED
18 JUN 1998
MARLBOROUGH DISTRICT

DavidsonPartnersLtd
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(SWAMPY)

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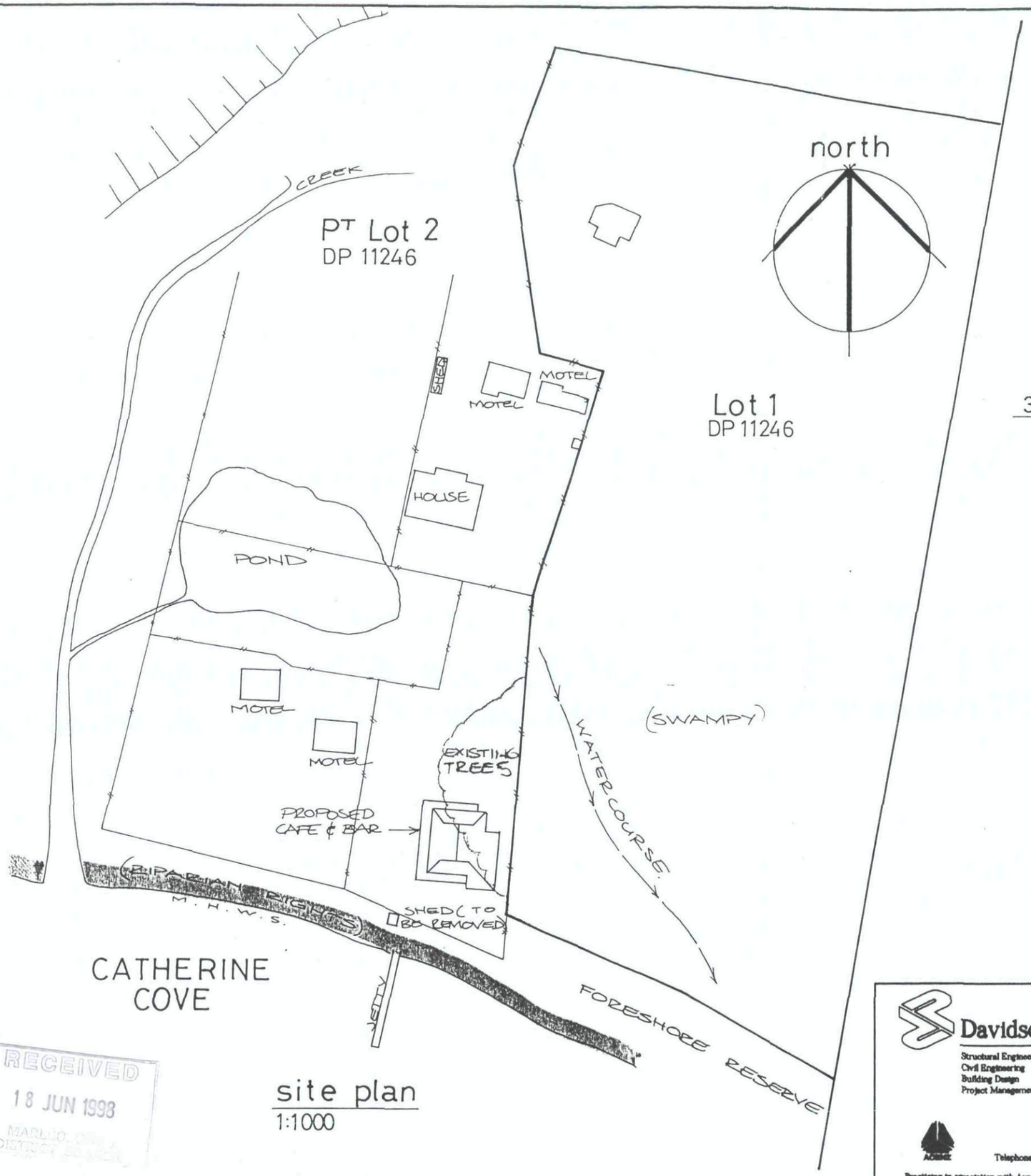

site plan
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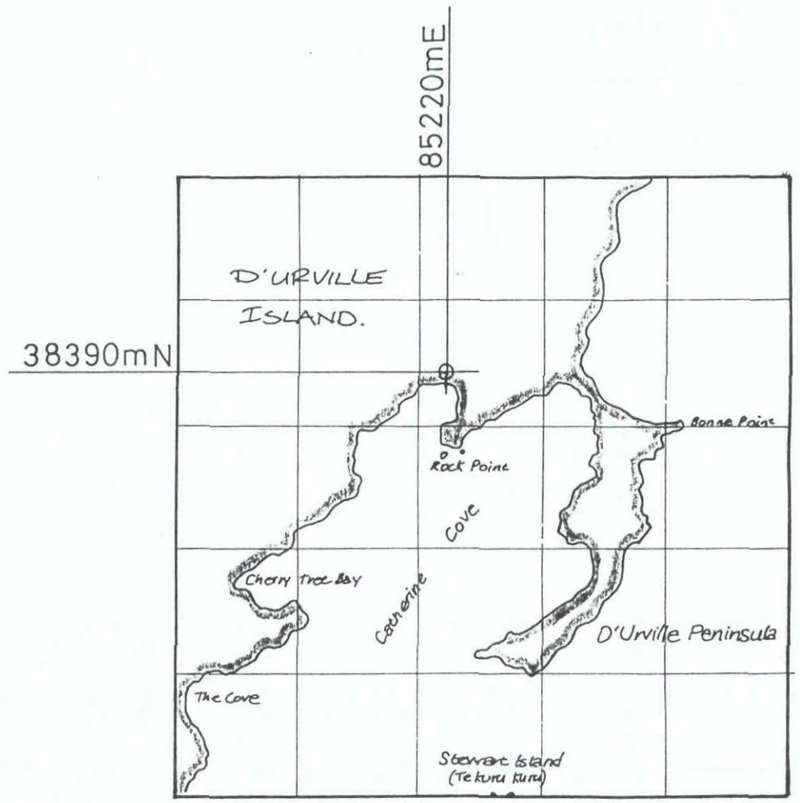

locality plan NZMS 260/P26
1:50000

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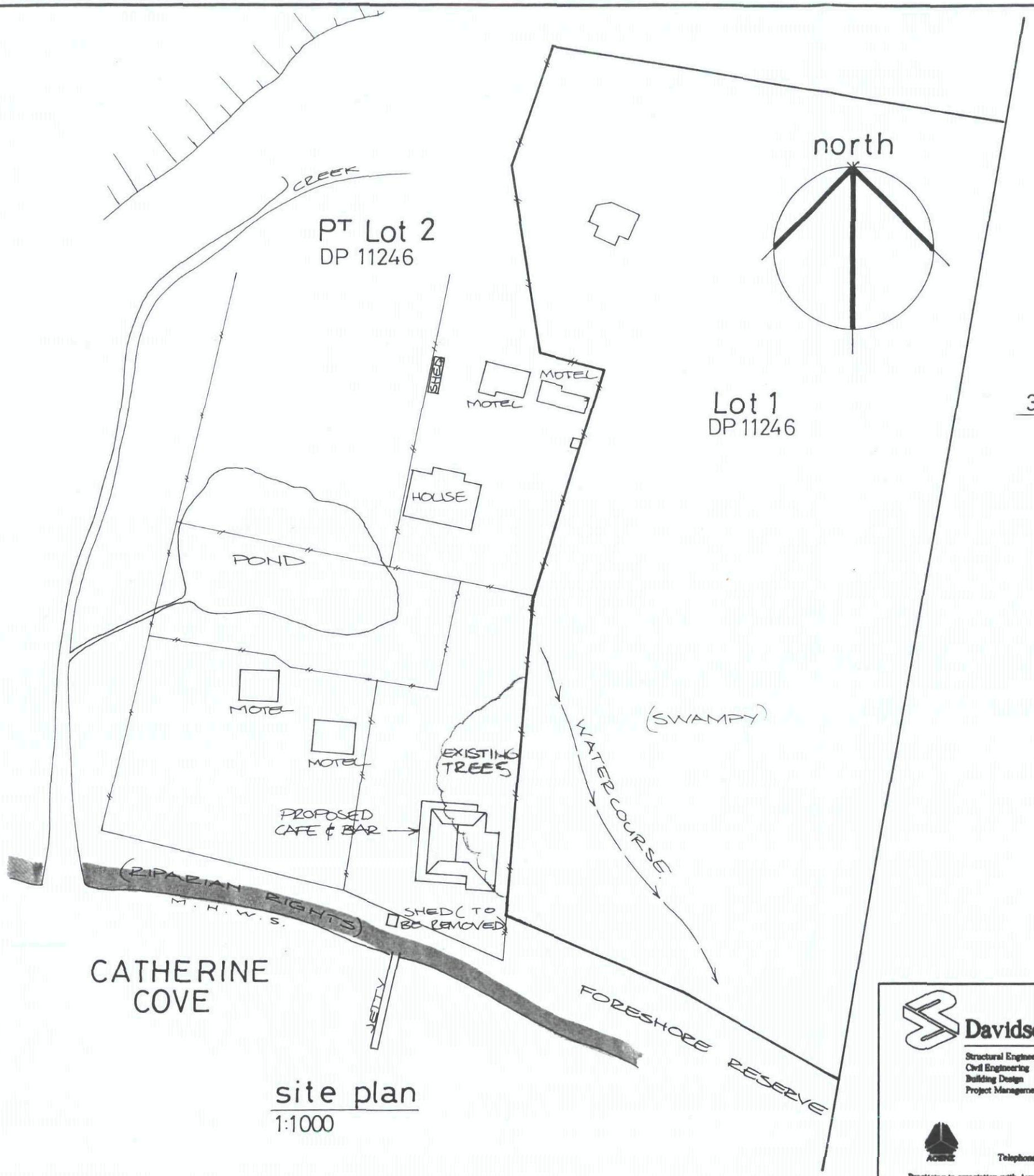
site and locality plans

DATE	SCALES	DRAWING No.	SHEET	ISSUE
6/98	As shown	6128	C1	A

DES LM | DRN BG | CK MW | CAD



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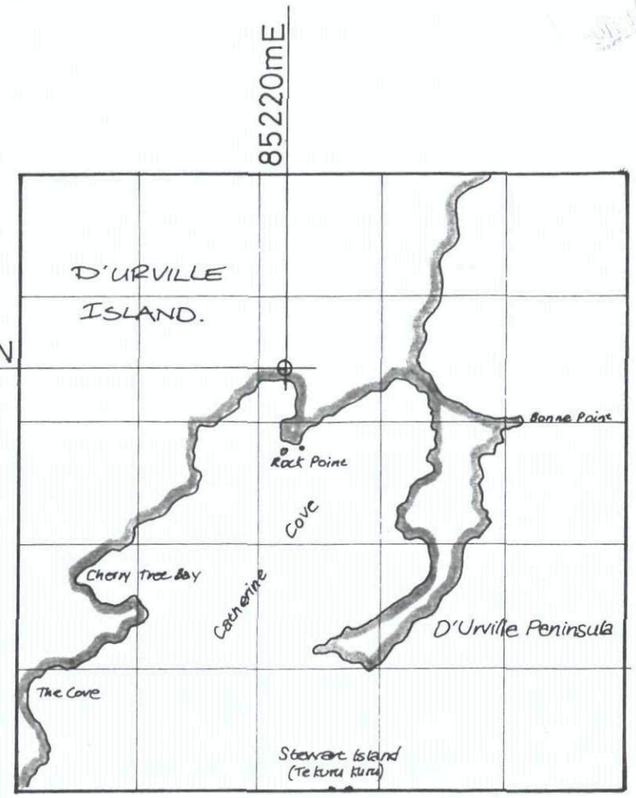

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