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The Contractor shall verify all dimensions on site before commencing work.

Written dimensions are to take priority over scaled dimensions.

Written dimensions are to take priority over scaled dimensions All plans are too be read in conjunction with the specifications and Engineer's details.

Client :

Proposed New
Residence for:
S & K
COLLETT
Lot 39, Old Mill Rd.
Marlborough.

Drawn: Jennian

Design: Jennian

e May 2005

scales: as shown

Job No

Drawing Title:

SITE PLAN

General Notes	/ Comment	5		
	J.CV	10	NOV	2005
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Client Approva		~ v	-	
Cad File Refer	ence	•		
Revision No				
Sheet No	1	Set of :	6	



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tasman consulting engineers

PO Box 3631 Richmond Nelson ph (03) 544-6404 fax (03) 544-6694 Dave 0274 446-403 Ron 0274 446-404

LKODO	ICER STA	EMENT - DESIGN		PSD	051	78D
	Issued by:	David King for Tasman Consulting E	ingineers Limited	112		
	Issued to:	S & K Collett				
li	n respect of:	Proposed new Shed & Wastewater S	System (for shed &	future house)		
	At:	Lot 39 Old Mill Rd, Okiwi Bay, Marlbo	orough Sounds			
	Lot	39 DP	311754	SO		
Tasman C	Consulting Eng	ineers Ltd have been engaged by: S	& K Collett			
to provide.	;	Design and detailing				
•		requirements of Clauses	B1 & B2 of the Bu	ilding Regulati	ons 1992 for	
Part	•	ng work as listed below.		5 0		
		this Producer Statement				
1		disposal system (Secondary treated	with sub-surface	irrigation)		
3					- Hajo	
J						
5	n has been p	epared in accordance with Clauses / Pa	rts B1 & B2 (respe	ctively) of the a	approved doc	uments
4 5 The design issued by specification Drawing/S	the Building I ion and other Sketch Title	epared in accordance with Clauses / Pa dustry Authority and the work is descrit locuments according to which the buildi	oed on the following	plans, drawing constructed. Ref No	• •	nd the Date
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4 5 The design issued by specification Drawing/S 05178 Sho Prepared of Tasman C	the Building I fon and other Sketch Title eet 1 & 2 by Consulting E	dustry Authority and the work is descrit ocuments according to which the buildi	ned on the following ing is proposed to be	plans, drawing e constructed. Ref No 05178	No of Shts	nd the Date 08-11-0
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No guarantee is expressed or implied in respect of damp proofing to retaining walls - See Insp Schedule also.

David King ME(Civil) MIPENZ (Structural) CPEng IntPE

This Producer Statement does not cover stability of the site.

3 / 237 Queen St P O Box 3631

P O Box 3631 Richmond, NELSON Date:

08-11-05

tasman consulting engineers

S3 / 237 Queen St Richmond Nelson ph (03) 544-6404 fax (03) 544-6694 Dave Mob (025) 446-403 Ron Mob (025) 446-404

SPECTION SCI	HEDULE			PSD	05178D
Issued by:	David King for Tasma	an Consulting En	gineers Limited		
Issued to:	S & K Collett				
In respect of:	Proposed new Shed	& Wastewater Sy	stem (for shed & fu	ture house)	
At:	Lot 39 Old Mill Rd, O	kiwi Bay, Marlbor	ough Sounds		
Lot	39	DP	311754	so [

The following structural elements of this project require inspection by a representative of Tasman Consulting Engineers during construction in order to ensure compliance with the New Zealand Standard Code of Practice under which they were designed. Such inspection is considered an integral part of the structural design process, and is carried out to ensure that the structure will perform adequately. Failure to carry out the required inspections listed below may in some circumstances limit the designers liability for subsequent problems. This applies particularly to foundation inspection / soil tests, and to inspection of steel placement in reinforced concrete/masonry components where verification of compliance with the structural design may not be possible after construction is complete.

Please advise inspecting engineer at least 24 hrs before inspections required.

Items Requiring Inspection

Element	Item(s) requiring inspection	Time of Inspection		
Wastewater system	Wastewater package system	After installation After installing / before backfilling		
	Sewage pipelines to tank			
	Pump line & irrigator lines	After installing / before backfilling		
	Flushing system	After installing / before backfilling		
	·			

David King ME(Civil) MIPENZ (Structural) CPEng IntPE

3 / 237 Queen St Richmond, NELSON Date:

08-11-05

^{*} Since damp proofing is very dependent upon workmanship in application, the inspection is to verify that correct materials are used - No guarantee is expressed or implied in respect of poor workmanship or inadequate application.

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1.1	Client Name	S & K Collett	Project	05178 - New shed (New house later)		
	Contractor (If Known)	NA	Lot Num/DP			
	Site Address	Lot 39, Old Mill Rd, Oki	wi Bay, Marlb	orough Sounds		
	Phone Number (If Known)	NA				
	Site/SurveyPlan details	Tasman Consulting Engineers Limited - Sheet 1 Job				
	Grid Ref: E / N	2565455E - 6009986N				
	Aerial Photo details	NA				
•	Topo Map Details	Infomap 260 Sheet O2	6 Croisilles 1	:50,000		
	Local Authority	Marlborough District Co	ouncil			
	Site Plan Details	Tasman Consulting Eng	jineers Limite	d - Sheet 1 Job 05178		
	Site Evaluator Name	Ron O'Hara				
	Date of Site Inspection	7 October 2005	Signature:			

1.2 Soil Type & Major soil considerations from Soil Maps

1.3 Geology of Site from Geological Maps

Yca - Ward Formation - Bedded indurated sandstone & minor conglomerates (Close to the mapped boundary with Q2a - clay bound gravel forming colluvial fans) - See attached plotted site position on geological map

1.4 Climate

Annual Rainfall	1820mm	Annual Evaporation	NA
General Comment	Rainfall data taken fr Ltd Dated May 2005	om Engineering report by Ca	meron Gibson & Wells
Data Sourse Used			

1.5 Water Supply to Site

Supply type	Reticulated	(Reticulated , Rainwater Collection, Well)
Volume / Person / Day	180	(180 l/p/day for Well / reticulated 140 l/p/day for Rainwater)
House Bedrooms	4	Num
Design Number of Persons	8	Num
Design Wastewater Daily Flow	1440	(Litres per Day)

2.0 On Site Evaluation

2.1 Work Undertaken

Details of site work (brief)

0.0

Weather

Visual inspection on site - inspected soil profile in bank cutting at rear of garage & dug small hole within the irrigation area.

Light rain

2.2 Topography

Average slope across site

Ground Cover

Geology (Confirm with P1)

Soil Type (Confirm with P1)

Drainage Pattern Description

25 degrees (From Cameron Gibsion & Wells Report)

Dense scrub - bracken & gorse

Geology confirmed

NA

The proposed irrigation field is located on relatively uniform sloping ground facing South-East - The overall field has a very slight convex shape, but may reasonably be considered Linear - Planar

Boundary Clearance - Min (m)	2m	Clearance Available (m)	7m+
Stream/Water Clearance - Min (m)	20m	Clearance Available (m)	NA
Well/Bore Clearance (Min)	50m	Clearance Available (m)	NA

Waterways (Describe)

The lot is located on the south-east side of a north-east sloping ridge - no significant waterways cross the lot.

Stands of Trees / Shrubs / Shelterbelts (Describe)

Scattered pine and other small trees among regenerating bush

Buildings Adjacent (Describe)

No other buildings on site at present - One existing house is located at least 50m to the north east of the proposed building sitet.

Land Use History (Describe)

Unknown

Other Comments

NA

2.2 Site Exposure

Site Aspect

The lot is located on the south-east side of a north-east sloping ridge

Predominant Wind Direction

The site is exposed primarily to northerly and to a lesser extent to southerly winds

Topographical Features

No significant topographical features other than those listed above.

2.4	Envi	ronmental	Assessment

Describe any environmental concerns eg high water table, native plants intolerant of Phosphorus, swamp etc

Relatively limited soil horizon - Cameron Gibson Wells report identifies 600mm of topsoil / silty clay soil overlying weathered rock.

2.5	Site	~-	⊾։	1:4
<i>,</i> 7	SITE	212	nı	IITW

Geotech Assessment Reqd (Y/N)

Geotech Engineers

Author of Report

Date of report

N (see Cameron Gibson Wells report)						

2.6 Drainage Controls

Depth of Water Table (m)

Are Cutoff Drains Required (Y/N)

Summer	vvinter	Episodic					
Nil	Nil	Nil					
Yes - Cutoff drain across the top of the irrigation field to divert overland							
stormwater flows away from the disposal field.							

2.7 Reserve Area

Reserve area Required (%)

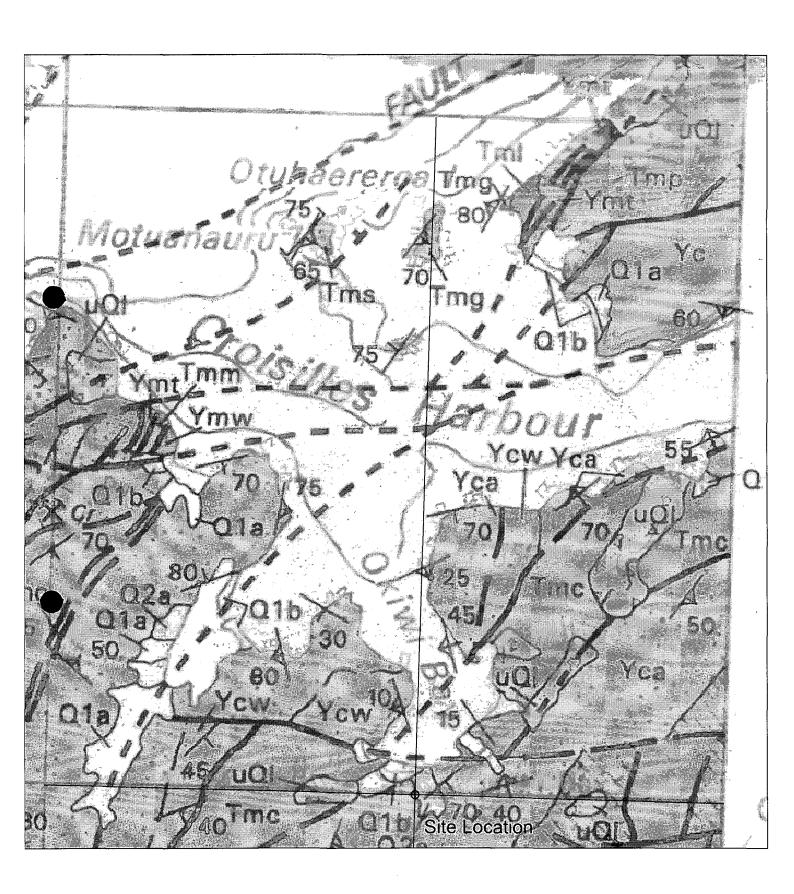
Setback Distance from House

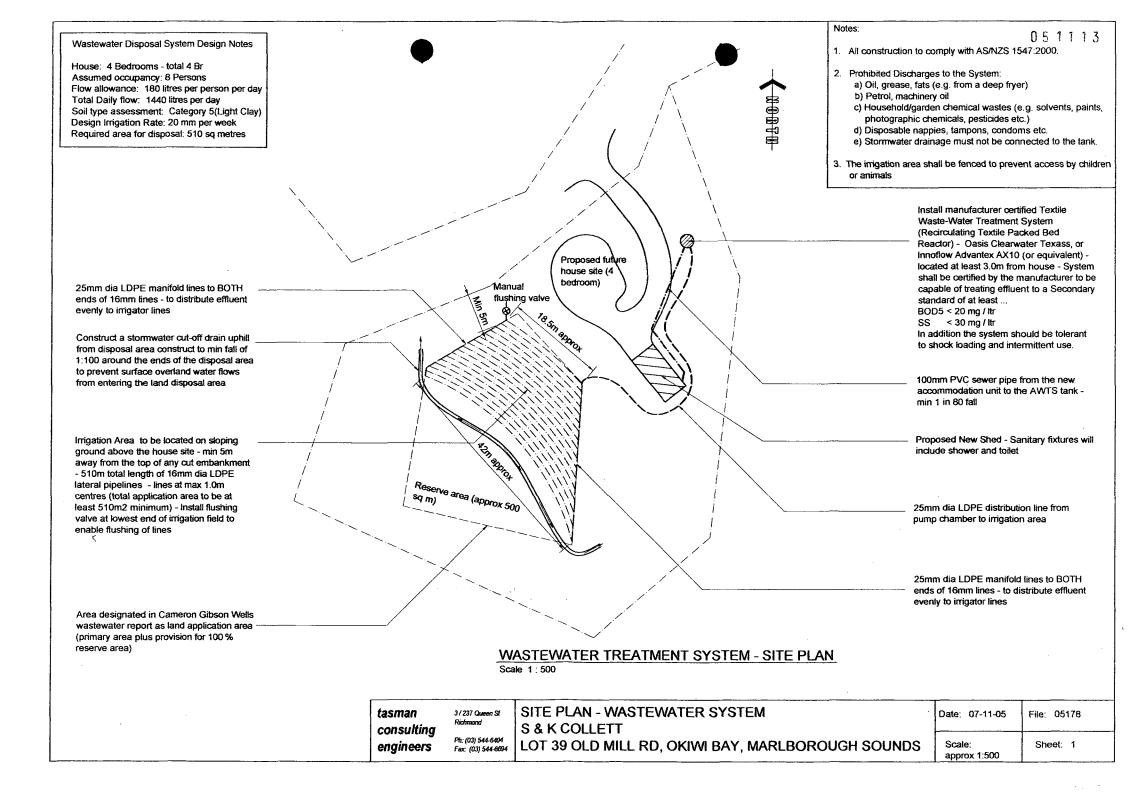
100%	(%)
Min 5m	(m)

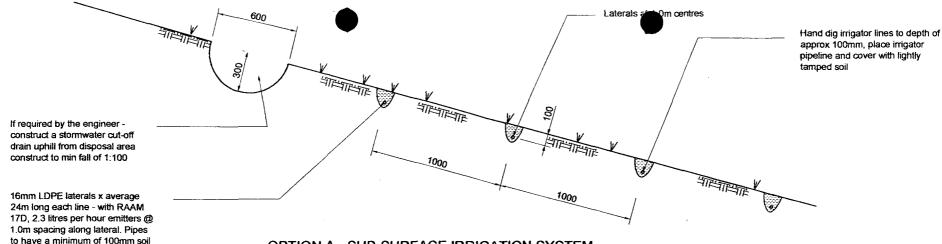
3.0 Soil Investigation

	Investigation Method	Shallow test hole	(Borehole, Shallow pit, Excavated deep pit)
	Report on Investigation	The test hole confirmed t Gibson & Wells Ltd report	g at the lower end of the proposed disposal area the reported soil type as given in the Cameron t. (Yellowish brown silty clay - moderate plasticity, r, not gritty, ribbon length 45mm to 50mm - field m)
	Recommended Category	5	(1 to 6)
	DLR or DIR	DIR = 2.83mm / m2/day	(mm per sq.m per day)
	Reasons for recommended DIR/DLR	Soil is between silty loam thin (600mm) and overlie	n (topsoil) and light clay - The soil layer is relatively es weathered rock.
4.0 4.1	General Comments Ground Water Quality Issues (if Any)	Moderately slow draining soils - only risk is of over	light clay soils will prevent rapid draining through land flow.
4.1	Type of Land Application System Considered Best Suited		ation OR covered surface drip line irrigation - the ed at least 100mm below the soil surface or mulch/leaf litter.
4.1	Overall evaluation of minimum land application area including primary area, reserve, setback, separation distances etc		quired for proposed bedroom house is 510 sq.m for ler around disposal area plus allowance for 100% total area = 1200 sqm.
4.1	Other Comments	NA .	

180	(Litres/Per	son/Day)		
4	Num			
8	Num			
1440	(Litres per l	Day)		
5	(1 to 6)			
Aerated Wastewater	Treatment S	ystem + subsurf	ace Dripline	irrigation
2.83	(mm per sq	m per day)		
510	(sq.m)			
	(Litres)		Primary	Secondary
	(Num)	Volume (ltr)		
		Filter Type		
	(m)			
	(mm)			
	(Num)			
	(sq.m)			
30m	(m)			
17	(m)			
510 sqm	(sq.m)			
16	(mm)			
1000	(mm)			
1000				
1000	(mm)			
	4 8 1440 5 Aerated Wastewater 2.83 510	Num	A	A





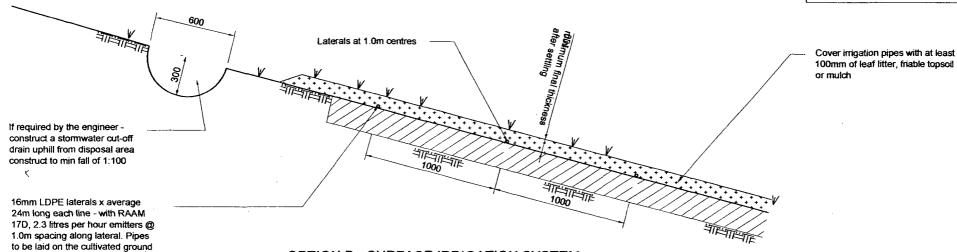


OPTION A - SUB-SURFACE IRRIGATION SYSTEM

N.T.S.

NOTE:

It is recommended that prior to placing the irrigator lines over the disposal area all gorse and small scrub be cleared, leaving larger native bushes and trees where practical.



surface then covered with at least 125mm of coarse bark or mulch mulch / bark shall be able to resist

wind or water erosion

cover.

OPTION B - SURFACE IRRIGATION SYSTEM

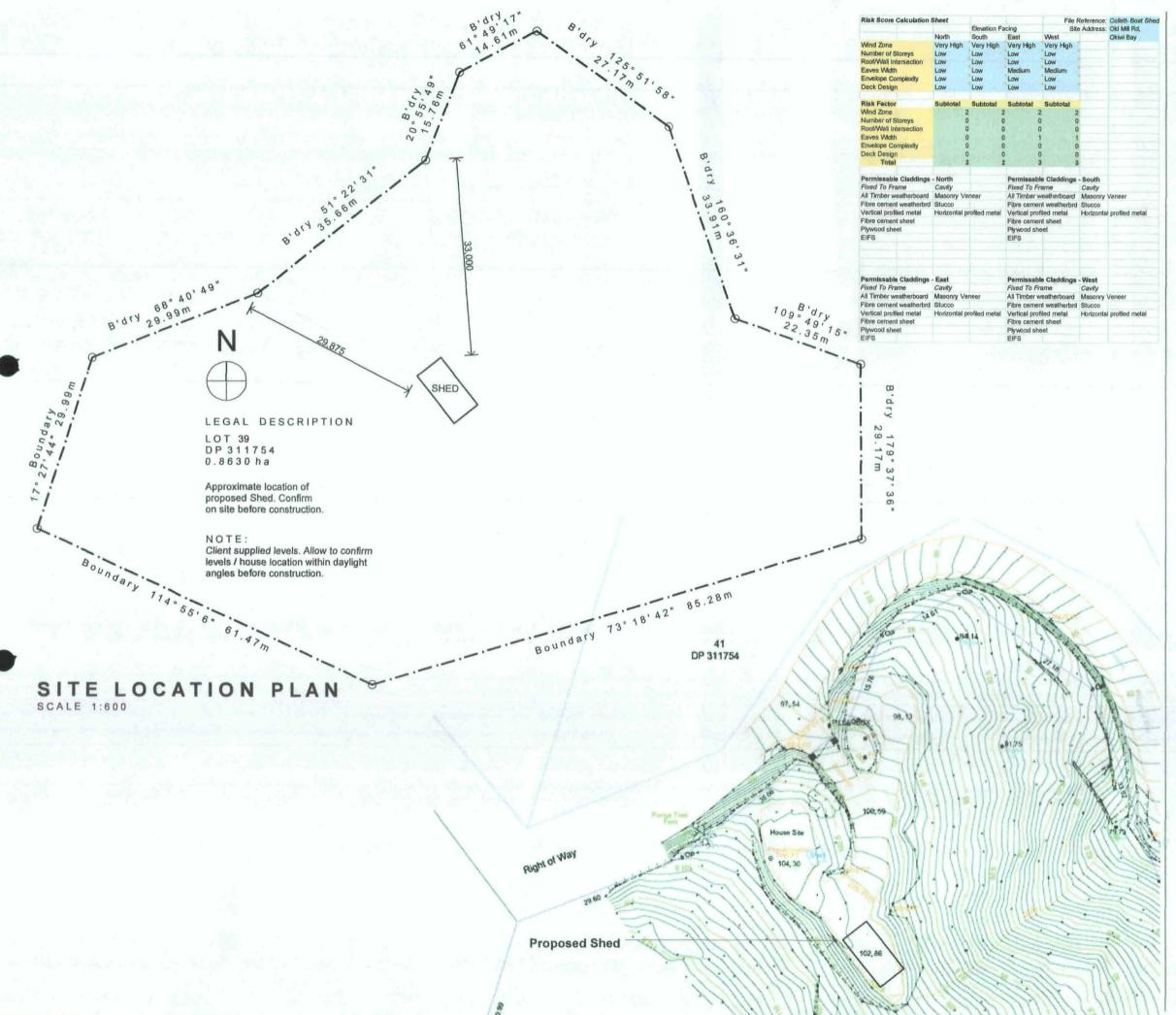
(PREFERRED OPTION)

NOTE:

All construction shall comply with Appendix 4.5 C & 4.5D of NZS

The drainlayer shall have a copy of this standard on site during construction of the irrigation field

taoina	3 / 237 Queen St Richmond	WASTEWATER SYSTEM - IRRIGATION FIELD	Date: 07-11-05	File: 05178	
consulting engineers	Ph: (03) 544-6404 Fax: (03) 544-6694	S & K COLLETT LOT 39 OLD MILL RD, OKIWI BAY, MARLBOROUGH SOUND	Scale: nts	Sheet: 2	



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Proposed New
Residence for:
S & K
COLLETT
Lot 39, Old Mill Rd.
Marlborough.

Drawn: Jennian

Design: Jennian

May 2005

Scales: as shown

Job No

Date

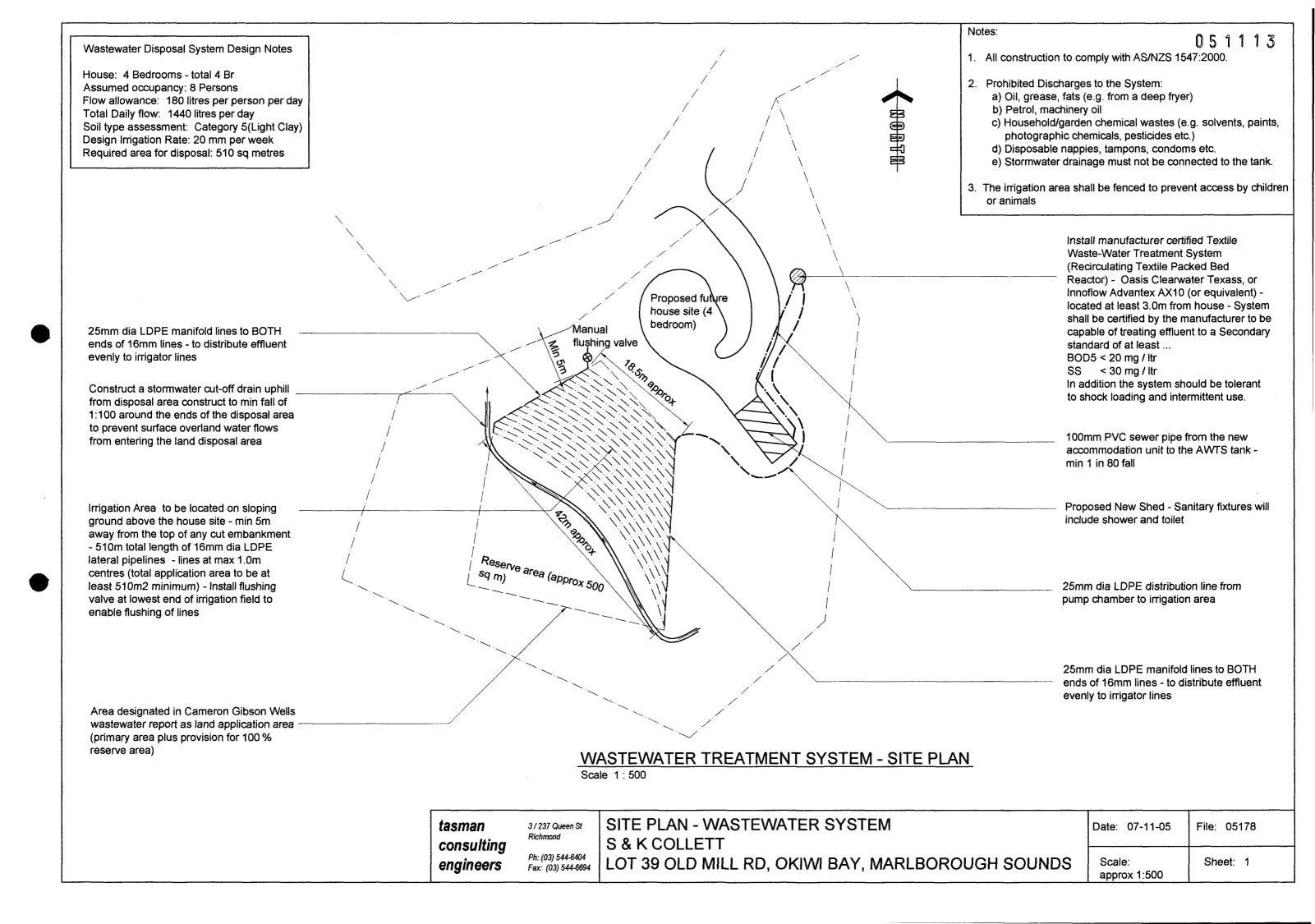
Drawing Title:

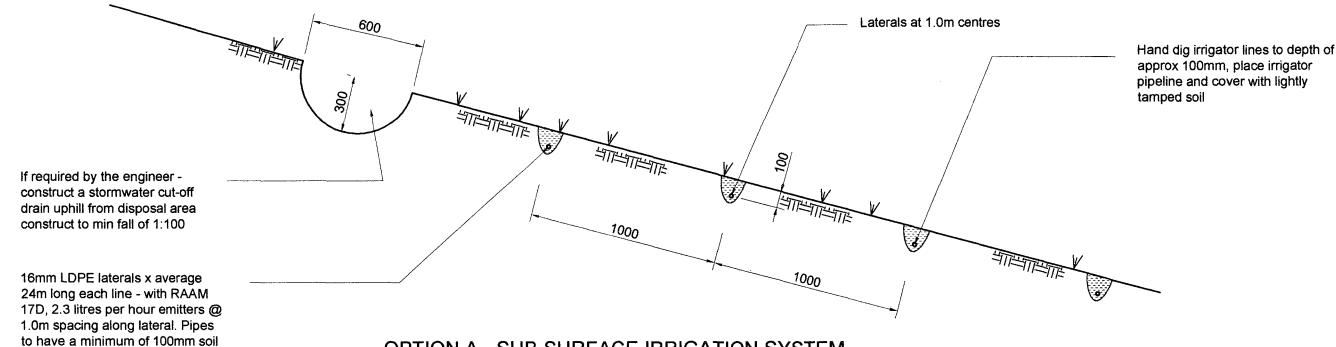
SITE PLAN

General Notes /	Comments	10 NOV	2005
Client Approval	The state of the s	MARLBORI DISTRICT CO	
Cad File Referen	ce		
Revision No			
Sheet No		Set of :	



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OPTION A - SUB-SURFACE IRRIGATION SYSTEM

cover.

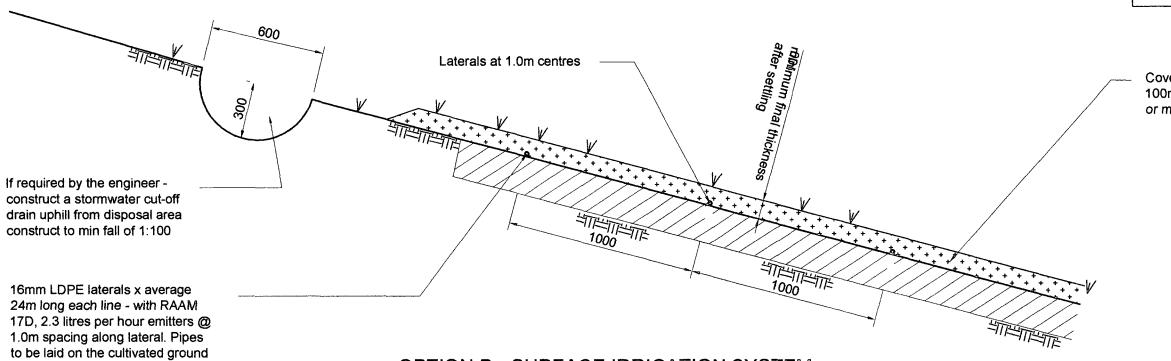
surface then covered with at least 125mm of coarse bark or mulch -

mulch / bark shall be able to resist

wind or water erosion

NOTE:

It is recommended that prior to placing the irrigator lines over the disposal area all gorse and small scrub be cleared, leaving larger native bushes and trees where practical.



Cover irrigation pipes with at least 100mm of leaf litter, friable topsoil or mulch

OPTION B - SURFACE IRRIGATION SYSTEM (PREFERRED OPTION)

NOTE:

All construction shall comply with Appendix 4.5 C & 4.5D of NZS 1547:2000

The drainlayer shall have a copy of this standard on site during construction of the irrigation field

tasman
consulting
engineers

3 / 237 Queen St Richmond

Ph: (03) 544-6404 Fax: (03) 544-6694 WASTEWATER SYSTEM - IRRIGATION FIELD S & K COLLETT

LOT 39 OLD MILL RD, OKIWI BAY, MARLBOROUGH SOUND

Date: 07-11-05	File: 05178
Scale: nts	Sheet: 2