DA Form 1 – Development application details

- Approved form (version 1.0 effective 3 July 2017) made under section 282 of the Planning Act 2016.
- This form must be used to make a development application involving code assessment or impact assessment, except when applying for development involving building work.
- For a development application involving building work only, use DA Form 2 Building work details.
- For a development application involving **building work associated with any other type of assessable development**, use this form (*DA Form 1*) and parts 4 to 6 of *DA Form 2 Building work details.*
- Unless stated otherwise, all parts of this form must be completed in full and all required supporting information must accompany the development application.

One or more additional pages may be attached as a schedule to this development application if there is insufficient space on the form to include all the necessary information.

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Note: All terms used in this form have the meaning given under the Planning Act 2016, the Planning Regulation 2017, or the Development Assessment Rules (DA Rules).

PART 1 - APPLICANT DETAILS

1) Applicant details	
Applicant name(s) (individual or company full name)	Greg Skyring Design and Drafting Pty Ltd
Contact name (only applicable for compenies)	Greg Skyring
Postal address (P.O. Box or street address)	11 Noli Close,
Suburb	Mossman
State	Qld
Postcode of the same of the sa	4873
Country	Australia
Contact number	07 40982061
Email address (non-mandatory)	greg@skyringdesign.com.au
Mobile number (non-mandatory)	
Fax number (non-mandatory)	
Applicant's reference number(s) (if applicable)	

2) Owner's consent		
2.1) Is written consent of the o	owner required for this development application?	
Yes - the written consent of	of the owner(s) is attached to this development application	
☐ No – proceed to 3)		

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PART 2 - LOCATION DETAILS

					3) as applicable)	wokaninent	t continuing. For further information, one DA Forms
Note: Provide details below and attach a site plan for any or all premises part of the development application. For further information, see <u>DA Forms</u> Guido: Relevant plans.							
3.1) St	reet addres:	s and lot o	n plan				
				ots must be liste		N. Learn	(No. 1919) (1919) (1919) (1919)
Street address AND lot on plan for an adjoining or adjacent property of the premises (appropriate for development in water but adjoining or adjacent to land e.g. jetty, pontoon; all lots must be listed).							
· ÷ **	Unit No.	Street No	o. Stree	Street Name and Type			Suburb
a)		14	Hibis	cus Court			Rocky Point
α)	Postcode	Lot No.	Plan	Plan Type and Number (e.g. RP, SP)		Local Government Area(s)	
	4873	26	RP74	49732			Douglas
	Unit No.	Street No	o. Stree	et Name and	Туре		Suburb
 h3							
b)	Postcode	Lot No.	Plan	Type and Nu	ımber (e.g. RP, SP	y	Local Government Area(s)
			S (appropriat	e for developme	nt in remote areas, ov	er part of a	n lot or in water not adjoining or adjacent to land e.g.
	dredging in Mo lace each set c		s in a separa	le row. Only one	set of coordinates is i	required for	r this part.
Сос	ordinates of	premises	by longitue	de and latitud	l e		
Longite	ude(s)		Latitude(s)		Datum		Local Government Area(s) (if applicable)
					☐ WGS84		
					☐ GDA94		
					Other:		
		`		and northing		• •	
Easting	g(s)	Northir	ng(s)	Zone Ref.	Datum	· · · · · · · · · · · · · · · · · · ·	Local Government Area(s) (If applicable)
				54	☐ WGS84		
					☐ GDA94	÷	
3 31 A	dditional pre	mises			_ Other.		
	,		elevant to	this develop	ment application a	and their	details have been attached in a schedule
	application	noco arc i	Cicvant to		nent application e		dotallo llavo boch altaonea ili a soriodallo
⊠ Not	t required		··· .			nes i	
	415						
					nises and provide		· · · · · · · · · · · · · · · · · · ·
İ			: ".		in or above an ac	quiter	
	of water boo	 					
i '			10 St. 15		structure Act 1994		and grant to be a second to the
i	plan descrip			t land:	e ja ostabli kusti od konstrukti. Na ostabli s		
	of port auth	ority for th	e lot:	· · ·	· · · · · · · · · · · · · · · · · · ·		
ŀ	a tidal area				er egy er e		
1	. –		-, -	area (if applica	eble):		
⊨	of port auth						
i ·	•	under the	Airport A	ssets (Restru	cturing and Dispo	sal) Act 2	2008
⊢	of airport:	<u></u>			34.54 St. 15.54		
ł			ntal Manag	ement Regis	iter (EMR) under t	he <i>Envir</i>	onmental Protection Act 1994
EMR s	ite identifica	ation:	:				

Department of minastructure, Local Government and Fi
Listed on the Contaminated Land Register (CLR) under the Environmental Protection Act 1994
CLR site identification:
5) Are there any existing easements over the premises?
Note: Easement uses vary throughout Queensland and are to be identified correctly and accurately. For further information on easements and how they may affect the proposed development, see <u>DA Forms</u> Gu <u>ide.</u>
Yes - All easement locations, types and dimensions are included in plans submitted with this development
application
PART 3 – DEVELOPMENT DETAILS
Continue de Annante of development
Section 1 – Aspects of development 6.1) Provide details about the first development aspect
a) What is the type of development? (tick only one box)
b) What is the approval type? (tick only one box)
☐ Preliminary approval ☐ Preliminary approval that includes
a variation approval
c) What is the level of assessment?
☐ Code assessment ☐ Impact assessment (requires public notification)
d) Provide a brief description of the proposal (e.g. 6 unit apartment building defined as multi-unit dwelling, reconfiguration of 1 tot Into 3 tots):
New house on vacant land
I AGM HOUSE OIL ASCRIB ISSUE
e) Relevant plans
Note: Relevant plans are required to be submitted for all espects of this development application. For further information, see <u>DA Forms guide:</u>
Relevant plans.
⊠ Relevant plans of the proposed development are attached to the development application
6.2) Provide details about the second development aspect
a) What is the type of development? (tick only one box)
☐ Material change of use ☐ Reconfiguring a lot ☐ Operational work ☐ Building work
b) What is the approval type? (tick only one box)
☐ Development permit ☐ Preliminary approval ☐ Preliminary approval that includes a variation
approval de la companya del companya de la companya del companya de la companya del companya de la companya de la companya de la companya del companya de la companya del companya de la companya del companya de la com
c) What is the level of assessment?
Code assessment Impact assessment (requires public notification)
d) Provide a brief description of the proposal (e.g. 6 unit apartment building defined as multi-unit dwelling, reconfiguration of 1 lot into 3 lots)
e) Relevant plans
Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see <u>DA Forms Guide:</u> Relevant plans.
Relevant plans of the proposed development are attached to the development application
6.3) Additional aspects of development
Additional aspects of development are relevant to this development application and the details for these aspects
that would be required under Part 3 Section 1 of this form have been attached to this development application
Not required

	ment details				
7) Does the proposed developm		<u> </u>			
·			sable against a loc	al planning instru	ıment
Reconfiguring a lot	☐ Yes – complete		·		
Operational work	Yes – complete				
Building work	☐ Yes – complete	DA Form 2 – Build	ling work details		
Division 1 – Material change of lote: This division is only required to be of lanning instrument.	completed if any part of	the development applic	ation involves a materia	al change of use asso	essable against a lo
8.1) Describe the proposed mate	<u>-</u>		and a Martina and a second		0 "
Provide a general description of proposed use		he planning schen ch definition in a new ro		iber of dwelling (if applicable)	Gross floor area (m²) (If applicable)
New house on vacant land	house				296
					···
8.2) Does the proposed use invo	olve the use of exist	ing buildings on th	e nremises?——		
☐ Yes	STO LITO GOD OF OXIO	···	o promiseo:		
<u> </u>	<u>Totalis in destruit in des</u>	The second second			
<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>	<u> </u>	
9.2) What is the nature of the lot Subdivision (complete 10))	reconfiguration? (ti		into parts by agree		and the state of t
Boundary realignment (comple	ofo 4911	 	nanging an easem		`
	AG (2/)		nanging an easem n road (complete 13))		s to a sot nom
		<u>-</u>			
10) Subdivision					
MORE DESCRIPTION CONTRACTOR AND MICHAEL SECURIOR	many lots are bein	g created and wha	t is the intended us	se of those lots:	
•••			1		specify
	Residential	Commercial	Industrial	se of those lots: Other, please	specify;
Intended use of lots created			Industrial		specify;
Intended use of lots created Number of lots created	Residential	Commercial	Industrial		specify;
Intended use of lots created Number of lots created 10.2) Will the subdivision be state	Residential ged?	Commercial	Industrial		specify;
Intended use of lots created Number of lots created 10.2) Will the subdivision be state	Residential ged?	Commercial	Industrial		specify;
Intended use of lots created Number of lots created 10.2) Will the subdivision be stated Yes – provide additional deta No	Residential ged? ills below	Commercial	Industrial		specify;
Intended use of lots created Number of lots created 10.2) Will the subdivision be stated Yes – provide additional deta No How many stages will the works	Residential ged? ills below include?	Commercial	Industrial		specify;
Intended use of lots created Number of lots created 10.2) Will the subdivision be stat ☐ Yes – provide additional deta ☐ No How many stages will the works What stage(s) will this developm	Residential ged? ills below include?	Commercial	Industrial		specify;
Intended use of lots created Number of lots created 10.2) Will the subdivision be started Yes – provide additional deta No How many stages will the works What stage(s) will this developmapply to?	Residential ged? ails below include? nent application	Commercial	Industrial	Other, please	
Intended use of lots created Number of lots created 10.2) Will the subdivision be star Yes – provide additional deta No How many stages will the works What stage(s) will this developm apply to?	Residential ged? ails below include? nent application	Commercial	Industrial	Other, please	
Intended use of lots created Number of lots created 10.2) Will the subdivision be star Yes – provide additional deta No How many stages will the works What stage(s) will this developm apply to? 11) Dividing land into parts by accounts? Intended use of parts created	Residential ged? ails below include? nent application greement – how ma	Commercial Iny parts are being Commercial	Industrial	Other, please	se of the
Number of lots created 10.2) Will the subdivision be stated Yes – provide additional deta	Residential ged? hils below include? hent application greement – how ma	Commercial	Industrial	Other, please	se of the

12) Boundary realig	nment						
12.1) What are the	<u>`</u>	<u>-</u>		orising the premises?			
		nt lot			Proposed		. :
Lot on plan descript	tion (1964)	Area (m²)		Lot on plan description	on	Area (m²)	
40.0030# 411.44		Lancard Lancard					
12.2) What is the re	eason for the	ooundary reall	gnment?				
13) What are the di	mensions and	nature of any	existing easeme	nts being changed and	l/or any pr	oposed easement?	
(attach schedule if there				10	1-1		
Existing or proposed?	Width (m)	Length (m)	Purpose of the e pedestrian access)	easement? (e.g.		he land/lot(s) d by the easement	. :
		· · · _ · · .	<u> </u>	<u> </u>			
							\neg
	l		L				
Division 3 – Operation is only		ompleted if any n	art of the development	application involves operation	nnal work		
14.1) What is the na				арриодног итчегое ороган	Ones Proprii		
☐ Road work] Stormwater	☐ Water in	frastructu	re	:·
Drainage work			Earthworks		infrastruc	· · · · · · · · · · · · · · · · · · ·	***
Landscaping			Signage	Clearing	vegetatio	n sassas laki	
Other – please	specify:					eg avalente og akkno	
14.2) to the energic	and work not	sononu to facil	itata the erection	of now late? (a.g. outstill	ati ngi sari.		
Yes – specify nu			itate the creation t	of new lots? (e.g. subdivi	SiO(1)		
□ No	ATTICE OF THE W	1018.			**************************************	A STATE OF STATE	
<u> </u>	onetary value	e of the propos	sed operational wo	ork? (include GST, material)	
\$			1	· · · · · · · · · · · · · · · · · · ·	,		
PART 4 ASS	ESSMEN	IT MANAC	SER DETAIL	S			
(E) Identify the east			ill be papeaging th	is development applica	ation		
Douglas Shire Cou		ager(s) who w	nii be assessing ii	ns development applica	allon		
		reed to annly	a superseded plat	nning scheme for this d	levelopme	nt application?	
				oment application			. 1 4
				planning scheme requ			-21 C
attached					And the second		·: : [
⊠ No		<u>an againe fair</u>					·
PART 5 – REF	EPPAI F	TAILS					
IANIO-NEI		LIAILO					
				l for any referral requir	ements?		
Note: A development ap					المستعلقة والمستعدد المستعدد	avjala mua a aktor	
⊠ No, there are no application – proce	referral requ ed to Part 6	irements relev	ant to any develo	pment aspects identifie	o in this d	evelopment	
				Regulation 2017:		oko esperimento. A 1 miliori e Margo	e gri
☐ Clearing native			1000 A. 1000 基础电路		18 5 74 14		
Contaminated la		i ordnance)	.	i de la production de la companya d La companya de la co	. Marine San		2.

Environmentally relevant activities (ERA) (only if the ERA have not been devolved to a local government)
Fisheries – aquaculture
☐ Fisheries – declared fish habitat area
Fisheries – marine plants
☐ Fisheries – waterway barrier works
☐ Hazardous chemical facilities
☐ Queensland heritage place (on or near a Queensland heritage place)
☐ Infrastructure – designated premises
☐ Infrastructure – state transport infrastructure
☐ Infrastructure – state transport corridors and future state transport corridors
☐ Infrastructure – state-controlled transport tunnels and future state-controlled transport tunnels
☐ Infrastructure — state-controlled roads
□ Land within Port of Brisbane's port limits
□ SEQ development area
SEQ regional landscape and rural production area or SEQ Rural living area – community activity
SEQ regional landscape and rural production area or SEQ Rural living area – indoor recreation
SEQ regional landscape and rural production area or SEQ Rural living area – residential development
SEQ regional landscape and rural production area or SEQ Rural living area — urban activity
☐ Tidal works or works in a coastal management district
☐ Urban design
☐ Water-related development – taking or interfering with water
☐ Water-related development – removing quarry material (from a watercourse or lake)
☐ Water-related development – referable dams
☐ Water-related development – construction of new levees or modification of existing levees (category 2 or 3 levees only)
☐ Wetland protection area
Matters requiring referral to the local government:
☐ Airport land
Environmentally relevant activities (ERA) (only if the ERA have been devolved to local government)
Local heritage places
Matters requiring referral to the chief executive of the distribution entity or transmission entity:
☐ Electricity infrastructure
Matters requiring referral to:
The chief executive of the holder of the licence, if not an individual
The holder of the licence, if the holder of the licence is an individual
Oil and gas infrastructure
Matters requiring referral to the Brisbane City Council:
☐ Brisbane core port land
Matters requiring referral to the Minister under the Transport Infrastructure Act 1994:
☐ Brisbane core port land
☐ Strategic port land
Matters requiring referral to the relevant port operator:
☐ Brisbane core port land (below high-water mark and within port limits)
Matters requiring referral to the chief executive of the relevant port authority:
Land within limits of another port
Matters requiring referral to the Gold Coast Waterways Authority:
☐ Tidal works, or development in a coastal management district in Gold Coast waters
India works, or development in a coasta management district in Gold Coast waters
Matters requiring referral to the Queensland Fire and Emergency Service:
Matters requiring referral to the Queensland Fire and Emergency Service:

ntify and describe any chang	ges made to the proposed develor application the subject of this form	pment application that was the	e subject of the referral
ponse and the development	application the subject of this for	m, or include details in a sche	e subject of the referral dule to this development
RT 6 – INFORMATION	ON REQUEST		
I do not agree to accept an integration in the By not agreeing to accept an information will be assessment manager and any readditional information provided by the Part 3 of the DA Rules will still apply	Part 3 of the DA Rules ation request if determined neces information request for this development on request I, the applicant, acknowled be assessed and decided based on the information for the development application is an application listed until the contained in the DA Forms Guide.	opment application edge: information provided when making the ent application are not obligeted unde on unless agreed to by the relevant po- under section 11.3 of the DA Rules.	is development application and or the DA Rules to accept any
RT 7 – FURTHER D	<u> </u>		
	evelopment applications or currer or include details in a schedule to		
t of approval/development plication references	Reference number	Date	Assessment manager
Approval Development application			
Approval Development application			
Has the portable long service learning	eave levy been paid? (only applicable	e to development applications inv	rolving building work or
Yes – the yellow local gover velopment application No – I, the applicant will pro sessment manager decides velopment approval only if I	rnment/private certifier's copy of the vide evidence that the portable lot the development application. I ac provide evidence that the portable	ong service leave levy has bee knowledge that the assessme	en paid before the ent manager may give a
Not applicable	and the first of the second of		
Not applicable nount paid	Date paid (dd/mm/yy)	QLeave levy number	(A, B or E)

23) Further legislative requirements	
Environmentally relevant activities	
23.1) Is this development application also taken to be an application Environmentally Relevant Activity (ERA) under section 115 or	tion for an environmental authority for an f the <i>Environmental Protection Act 1994?</i>
Yes – the required attachment (form EM941) for an application	
development application, and details are provided in the table be	wole
No.	
Note: Application for an environmental authority can be found by searching "EM to operate. See www.business.gld.gov.au for further information.	941" at <u>www.qrd.gov.eu</u> . An ERA requires an environmental authority
Proposed ERA number:	Proposed ERA threshold:
Proposed ERA name:	
Multiple ERAs are applicable to this development applic to this development application.	ation and the details have been attached in a schedule
Hazardous chemical facilities	
23.2) Is this development application for a hazardous chemical	facility?
Yes - Form 69: Notification of a facility exceeding 10% of sol	
application	
No N	
Note: See <u>www.iustice.gld.gov.au</u> for further information.	
Clearing native vegetation	
23.3) Does this development application involve clearing native	vegetation that requires written confirmation the chief
executive of the Vegetation Management Act 1999 is satisfied the of the Vegetation Management Act 1999?	e clearing is for a relevant purpose under section 22A
☐ Yes – this development application is accompanied by written	n confirmation from the chief executive of the
Vegetation Management Act 1999 (s22A determination) □ No	
Note: See <u>www.qld.gov.au</u> for further information.	
Environmental offsets	
23.4) Is this development application taken to be a prescribed ac prescribed environmental matter under the <i>Environmental Off</i>	ctivity that may have a significant residual impact on a sets Act 2014?
☐ Yes - I acknowledge that an environmental offset must be pro-	
significant residual impact on a prescribed environmental matter	
No.	
Note: The environmental offset section of the Queensland Government's website environmental offsets.	ocan be accessed at <u>www.qid.gov.au</u> for further information on
Koala conservation	
23.5) Does this development application involve a material changan assessable development area under Schedule 10, Part 10 of	ge of use, reconfiguring a lot or operational work within in the Planning Regulation 20172
☐ Yes a seed of Line seed on the desired and	the state of the s
No.	
Note: See guidance materials at www.ehp.qld.gov.au for further information.	
Water resources	
23.6) Does this development application involve taking or interfinterfering with water in a watercourse, lake or spring, taking	ering with artesian or sub artesian water, taking or g overland flow water or waterway barrier works?
☐ Yes – the relevant template is completed and attached to this	115-11
No.	
Note: DA templates are available from www.dilgp.gld.gov.au .	
23.7) Does this application involve taking or interfering with ar with water in a watercourse, lake or spring, or taking overlar	tesian or sub artesian water, taking or interfering and flow water under the Water Act 2000?
Yes - I acknowledge that a relevant water authorisation unde	r the Water Act 2000 may be required prior to

· · · · · · · · · · · · · · · · · · ·
commencing development No No Note: Contact the Department of Natural Resources and Mines at www.dnrm.gld.gov.au for further information.
Marine activities
23.8) Does this development application involve aquaculture, works within a declared fish habitat area or removal, disturbance or destruction of marine plants?
 Yes – an associated resource allocation authority is attached to this development application, if required under the Fisheries Act 1994 No No Note: See guidance materials at www.daf.gld.gov.au for further information.
Quarry materials from a watercourse or lake
23.9) Does this development application involve the removal of quarry materials from a watercourse or lake under the <i>Water Act 2000?</i>
 Yes − I acknowledge that a quarry material allocation notice must be obtained prior to commencing development No Note: Contact the Department of Natural Resources and Mines at www.dnrm.gld.gov.au for further information.
Quarry materials from land under tidal waters
23.10) Does this development application involve the removal of quarry materials from land under tidal water under the Coastal Protection and Management Act 1995?
☐ Yes – I acknowledge that a quarry material allocation notice must be obtained prior to commencing development ☐ No Note: Contact the Department of Environment and Heritage Protection at www.ehp.gld.gov.au for further information.
Referable dams
23.11) Does this development application involve a referable dam required to be failure impact assessed under section 343 of the <i>Water Supply (Safety and Reliability) Act 2008</i> (the Water Supply Act)?
Yes – the 'Notice Accepting a Failure Impact Assessment' from the chief executive administering the Water Supply Act is attached to this development application No Note: See guidance materials at www.dews.qld.gov.au for further information.
Tidal work or development within a coastal management district
23.12) Does this development application involve tidal work or development in a coastal management district?
 Yes – the following is included with this development application; ☐ Evidence the proposal meets the code for assessable development that is prescribed tidal work (only required if application involves prescribed tidal work) ☐ A certificate of title ☑ No Note: See guidance materials at www.ehp.qld.gov.eu for further information.
Queensland and local heritage places
23.13) Does this development application propose development on or adjoining a place entered in the Queensland heritage register or on a place entered in a local government's Local Heritage Register?
Yes – details of the heritage place are provided in the table below No Note: See guidance materials at www.ehp.qld.gov.au for information requirements regarding development of Queensland heritage places.
Name of the heritage place: Place ID:
Brothels
23.14) Does this development application involve a material change of use for a brothel?
 Yes – this development application demonstrates how the proposal meets the code for a development application for a brothel under Schedule 3 of the <i>Prostitution Regulation 2014</i> No

Decision under section 62 of the Transport Infrastructure	Act 1994
23.15) Does this development application involve new or chang	ged access to a state-controlled road?
☐ Yes - this application will be taken to be an application for a Infrastructure Act 1994 (subject to the conditions in section 75 ☐ No	of the <i>Transport Infrastructure Act 1994</i> being satisfied)
PART 8 – CHECKLIST AND APPLICANT DE	CLARATION

24) Development application checklist	
I have identified the assessment manager in question 15 and all relevant referral requirement(s) in question 17 Note: See the Planning Regulation 2017 for referral requirements	✓ Yes
If building work is associated with the proposed development, Parts 4 to 6 of Form 2 – Building work details have been completed and attached to this development application	☐ Yes ☑ Not applicable
Supporting information addressing any applicable assessment benchmarks is with development application Note: This is a mandatory requirement and includes any relevant templates under question 23, a planning report and any technical reports required by the relevant categorising instruments (e.g. local government planning schemes, State Planning Policy, State Development Assessment Provisions). For further information, see <u>DA Forms Guide: Planning Report Template</u> .	⊠ Yes
Relevant plans of the development are attached to this development application Note: Relevant plans are required to be submitted for all aspects of this development application. For further information, see <u>DA Forms Guide</u> : <u>Relevant plans</u> .	Yes of the second of the secon
The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 21))	☐ Yes ☑ Not applicable
25) Applicant declaration	

schemes, State Planning Policy, State Development Assessment Provisions). For further information, see <u>DA</u> <u>Forms Guide: Planning Report Template</u> .
Relevant plans of the development are attached to this development application Note: Relevant plans are required to be submitted for all aspects of this development application. For further Submitted for all aspects of this development application. For further Information, see DA Forms Guide: Relevant plans.
The portable long service leave levy for QLeave has been paid, or will be paid before a development permit is issued (see 21))
25) Applicant declaration
 ☑ By making this development application, I declare that all information in this development application is true and correct ☑ Where an email address is provided in Part 1 of this form, I consent to receive future electronic communications from the assessment manager and any referral agency for the development application where written information is required or permitted pursuant to sections 11 and 12 of the Electronic Transactions Act 2001 Note: It is unlawful to intentionally provide felse or misleading information.
Privacy – Personal information collected in this form will be used by the assessment manager and/or chosen assessment manager, any relevant referral agency and/or building certifier (including any professional advisers which may be engaged by those entities) while processing, assessing and deciding the development application. All information relating to this development application may be available for inspection and purchase, and/or published on the assessment manager's and/or referral agency's website. Personal information will not be disclosed for a purpose unrelated to the <i>Planning Act 2016</i> , Planning Regulation 2017 and the DA Rules except where:
 such disclosure is in accordance with the provisions about public access to documents contained in the <i>Planning Act 2016</i> and the Planning Regulation 2017, and the access rules made under the <i>Planning Act 2016</i> and Planning Regulation 2017; or required by other legislation (including the <i>Right to Information Act 2009</i>); or
otherwise required by law.
This information may be stored in relevant databases. The information collected will be retained as required by the <i>Public Records Act 2002.</i>

PART 9 - FOR OFFICE	USE ONLY	
Date received:	Reference number(s):	
Notification of engagement of a	lternative assessment manager	
Prescribed assessment manage	er 1900 by 1	
Name of chosen assessment m	anager	
Date chosen assessment mana		
Contact number of chosen asse	essment manager	
Relevant licence number(s) of comanager	hosen assessment	
QLeave notification and payme Note: For completion by assessment m	nt	
Description of the work		
QLeave project number	The second secon	
Amount paid (\$)		
Date paid		
Date receipted form sighted by	assessment manager	
Name of officer who sighted the	form	

The *Planning Act 2016*, the Planning Regulation 2017 and the DA Rules are administered by the Department of Infrastructure, Local Government and Planning. This form and all other required development application materials should be sent to the assessment manager.

and DRAFTING PTY. LTD.

ATF THE SKYRING FAMILY TRUST ABN 78 409 217 980

The Manager, Planning Services, Douglas Shire Council P.0. Box 723 Mossman Q 4873

23rd Sep 2017

Dear Sir/Madam,

RE: APPLICATION FOR MATERIAL CHANGE OF USE OF PREMISES – DWELLING HOUSE ON LOT 26, RP 749732, 14 HIBISCUS COURT, ROCKY POINT; for C. ANDREASSEN.

This site has previously received a development approval dated 22 August 2006, and an extension of currency period dated 22 July 2010. However, the DA was allowed to expire, with the Owner now deciding to seek another approval.

Attached is DA Form 1 duly completed, together with sketches of the proposed house, and planning, geotechnical and waste water reports.

The following report provides supporting information to show compliance or otherwise with the planning scheme and codes within.

1.0 General Details

Applicant and Contact

Greg Skyring,

Greg Skyring Design and Drafting Pty Ltd

11 Noli Close,

Mossman QLD 4873

Ph 07 40982061

Fax 07 40982061

Email greg@skyringdesign.com.au

Registered Owner of Land

C. Andreassen

Real Property Description

Lot 26 RP749732

Location

14 Hibiscus Court, Rocky Point

1.0 - General Details continued

Tenure Freehold

Land Area 4,537m²

Present Use Vacant

Contaminated Lands or Environmental

Management Registers

Nil

Easements and Encumbrances None

Local Government Authority Douglas Shire Council

Planning Scheme 2008 Douglas Shire Planning Scheme

Planning Area Rural Settlement

Assessment Level Code Assessable

Tabled Applicable Codes Rural Settlement Locality Code

Rural Settlement Planning Area Code

Land Use Code

Filling and Excavation Code

Landscaping Code

Natural Areas and Scenic Amenity Code Vehicle Parking and Access Code

Tabled Applicable Overlays Acid Sulphate Soils

Cultural Heritage and Valuable Sites Natural Hazards - Medium Risk Bushfire

Fully Complying or Not Applicable Codes/Overlays

Land use Code, House Code - complies fully

Filling and Excavation Code - no change to the existing land form is required

Vehicle Parking and Access Code – vehicle parking on site is in excess of that required under P1 of this code, and contained within proposed buildings.

Acid Sulphate Soils Overlay - this site is approximately 90m in elevation. As this code refers to elevations less than 5m AHD, this code is not applicable.

Cultural Heritage and Valuable Sites – not a site identified on overlay mapping.

Natural Hazards – site is mapped as having no fire hazard risk.

RURAL SETTLEMENT LOCALITY CODE

General Requirements

PERFORMANCE CRITERIA	ACCEPTABLE SOLUTIONS	COMMENTS
Buildings and structures	A1.1 In all Planning Areas in	the proposed house is single
complement the Height of	this Locality the maximum	storey
surrounding development and/or	Height of Buildings/structures is	
are subservient to the	6.5 metres and 2 Storeys. In	
surrounding environment and are	addition, the roof or any	
in keeping with the character of	ancillary roof features do not	
the Locality.	exceed a maximum Height of 3.5	
	metres.	
Development is connected to	A2.1 Development is connected	The property is connected to a
all urban services or to	to available urban services by	reticulated local water supply.
sustainable on Site infrastructure	underground connections,	
services.	wherever possible.	A waste water disposal report is
	AND/OR	attached The installation of an
	Contributions are paid when	advanced secondary treatment
	applicable in accordance with the	plant and sub-surface disposal
	requirements of Planning	being the preferred method of
	Scheme Policy No 11 – Water	effluent treatment.
	Supply and Sewerage	
	Headworks and Works	
	External Contributions.	
	OR	
	Water storage tank/s with a	
	minimum capacity of not less	
i	than 30 000 litres	
	to service the proposed use,	
	including fire fighting capacity	
	and Access to the tank/s for fire	
	trucks. Tank/s to be fitted with a	
	50 mm ball valve with a	
	camlock fitting and installed and	
	connected prior to occupation	
	and screened with Dense	
	Planting.	
	AND	
	An environmentally acceptable	
	and energy efficient power	
	supply is constructed and	
	connected prior to occupation	
	and sited so as to be visually	
	unobtrusive.	
	AND	
<u> </u>	On-site sewerage facilities are	<u> </u>

	provided in accordance with the On-site Sewerage Code	
Landscaping of development Sites complements the existing rural character of the Locality.	A3.1 Landscaping utilises predominantly native species and complies with the requirements of Planning Scheme Policy No 7 – Landscaping with particular emphasis on appropriate species for this Locality. AND A minimum of 60% of the total proposed species are endemic or native species.	No clearing of vegetation is proposed
• Development Sites are provided with efficient and safe vehicle Access and maneuvering areas on Site and to the Site, to an acceptable standard for the Locality.	A4.1 All Roads, driveways and maneuvering areas on Site and adjacent to the Site are designed and maintained to comply with the specifications set out in the Planning Scheme Policy No 6 – FNQROC Development Manual.	The driveway will be concrete construction approx 3m in width.

RURAL SETTLEMENT PLANNING AREA CODE

General

PERFORMANCE CRITERIA	ACCEPTABLE SOLUTIONS	COMMENTS
P1 The establishment of uses is consistent with the outcomes sought for the Rural Settlement Planning Area.	inconsistent uses in the	The proposal of a house is a consistent use according to the assessment table.

Site Coverage

	PERFORMANCE CRITERIA							COMMENTS		
P2	subserv	ient to ment o	the nati r the n	ural	Covera (includ	The ge for lingOutbullotment	r all uildings)	Bui con	ldings	Site coverage is 398sqm for the proposed. Total site cover is 8.8%

	A2.2	An	Out	tbuil	ding	used	for
ļ	purpo	ses a	ncil	lary	to a	House	has
- 1	a ma			-			
	greate					_	
	Cove						

No ancillary building is part of this application

Building Setbacks

	PERFORMANCE CRITERIA	ACCEPTABLE SOLUTIONS	COMMENTS
P3	Buildings/structures are Setback to:	A3.1 Buildings/structures are Setback not less than:	The proposed setbacks are illustrated on the attached site plan, and generally comply with
	 maintain the natural or rural character of the area; and 	• 40 metres from the property boundary adjoining a State- Controlled Road; or	the Acceptable. However, it is necessary to reduce the eastern boundary setback to 2.5m, due to the
:	 achieve separation from neighbouring Buildings and from Road Frontages. 	• 25 metres from the property boundary adjoining the Cape Tribulation Road; or	physical restraints of the building pad. The adjacent house is a lesser distance from this same boundary (refer to Site
		• 20 metres from the property boundary fronting any other Road; and	Plan).
		• 6 metres from the side and rear property boundaries of the Site.	
P4	Buildings/structures are screened from any adjacent Road to maintain the natural or rural character of the area.	A4.1 At the time that a Site is developed for any purpose, the Road Frontage Setback areas are landscaped so that 10 metres of the Setback area immediately adjacent to any Road Frontage, where the minimum total Setback required is 20 metres or greater, is landscaped with Dense Planting.	A vegetation depth of approximately 10m is to be provided along the full frontage of Hibiscus Court, excluding the property access.

Scenic Amenity

	PERFORMANCE CRITERIA	ACCEPTABLE SOLUTIONS	COMMENTS
P5	designed to maintain the	}	External colours will be similar shades to the following approved colours: Roof – Colorbond green Walls – clay brick veneer

impacts on the environment and Scenic Amenity values of the area.		
native trees and protect	1	All existing vegetation will remain.
existing Watercourses, riparian vegetation and wildlife corridors.	with the Performance Criteria is outlined in Planning Scheme Policy No 10 – Reports and Information the Council May Request, for code and impact assessable development).	, ن

Sloping Sites

	PERFORMANCE CRITERIA	ACCEPTABLE SOLUTIONS	COMMENTS
P7	Building/structures are designed and sited to be responsive to the constraints of sloping Sites.	A7.1 Building/structures are Erected on land with a maximum slope not exceeding 15%. OR Development proposed to be Erected on land with a maximum slope between 15% and 33% is accompanied by a Geotechnical Report prepared by a qualified engineer at development application stage. OR Development proposed to be Erected on land with a maximum slope above 33% is accompanied by a Specialist Geotechnical Report prepared by a qualified engineer at development application stage which includes signoff that the Site can be stabilised.	The slope of the land area of the house pad is generally level. However, a geotechnical report has been provided as part of the original DA to ensure no potential slip impact on properties below
		AND	

		Any Building/structures proposed to be Erected on land with a maximum slope above 15% are accompanied by an additional Geotechnical Report prepared by a qualified engineer at building application stage.	
		(Information that the Council may request as part of the Geotechnical Report are outlined in Planning Scheme Policy No 10 – Reports and Information the Council May Request, for code and impact assessable development.)	
P8	The building style and construction methods used for development on sloping Sites are responsive to the Site constraints.	A8.1 A split level building form is utilised. A8.2 A single plane concrete slab is not utilised. A8.3 Any voids between the floor of the Building and Ground Level, or between outdoor decks and Ground Level, are screened from view by using lattice/batten screening and/or Landscaping.	N/A
P9	Development on sloping land minimises any impact on the landscape character of the surrounding area.	A9.1 Buildings/structures are sited below any ridgelines and are sited to avoid protruding above the surrounding tree level.	N/A
P1	O Development on sloping land ensures that the quality and quantity of stormwater traversing the Site does not cause any detrimental impact to the natural environment or to any other	A10.1 All stormwater drainage discharges to a lawful point of discharge and does not adversely affect downstream, upstream, underground stream or adjacent properties.	N/A

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NATURAL AREAS AND SCENIC AMENITY CODE

Development in Areas of Natural and Scenic Amenity Value

PERFORMANCE CRITERIA	ACCEPTABLE SOLUTIONS	COMMENTS
Where a development within a	A1.1 Buildings/structures Access	The attached site plan shows the
DDA triggers this Code, the	Roads/car parking, infrastructure	location of proposed buildings
natural and environmental	and landscape/recreation	and internal roads in relation to
values of the areas of Remnant	facilities are constructed within	the existing vegetation.
Vegetation and/or	the DDA identified	
Watercourse/s are protected	on a Site Plan drawn to scale.	
from inappropriate	A1.2 Where internal Roads are	<u> </u>
development.	required to service the	
	development, the Roads are	
	located within a DDA identified	
	on a Site Plan drawn to scale.	
	(Information that the Council	
	may request to demonstrate	
	compliance with the	
	Performance Criteria is outlined	
	in Planning Scheme Policy No 8	
	- Natural Areas and Scenic	
	Amenity and Planning Scheme	
	Policy No 10 – Reports and	
	Information the Council	
	May Request, for code and	
Development does not	impact assessable development).	
dversely impact on the natural	A2.1 Where development	The building is located to in an
and environmental values and	occurs, it is located on that part	existing cleared area
Scenic Amenity of areas	of the Site which poses the least	
dentified as Remnant	threat to the natural and	
egetation and/or	environmental values and Scenic	
Vatercourse/s.	Amenity, for example:	
ratereourse, s.	adjacent to existing	
	development;	
	within an existing cleared area; within a dictard of area with	
	• within a disturbed area with	
	little potential for rehabilitation; • within an area close to an	
	Access Road;	
	removed from an identified	
	area of important habitat.	
		D-Ct
	A2.2 Development within the DDA is sited to minimise visual	Refer above
	intrusion on the Site and the	
	surrounding landscape.	
		NI- 1 1 C
	A2.3 No continuous boundary fence lines or	No boundary fences are proposed

	approved development Site within a DDA identified on a Site Plan drawn to scale.	
	A2.4 Infrastructure, such as water mains, sewers, electricity and telecommunication services, is sited underground, wherever reasonable, to protect Scenic Amenity, and is located within a	Power to the site will be provided from a new pole located at the property boundary, continuing from the pole to the house underground. All other services are will be underground
	DDA on a Site Plan drawn to scale.	from the front boundary.
	A2.5 Internal Roads associated with the development are designed and constructed to achieve a low speed	The access road is shown on the site plan, and is relatively flat
	environment. A2.6 Roads and infrastructure services do not cross the Setback area/riparian corridor; or if this is	Only one access is proposed.
	not possible, the number of crossings is minimised. A2.7 Setback areas/riparian corridors are provided in	
	accordance with A4.1, A4.2, A4.3 and A4.4 below; AND The lowest intensity of	No change to existing vegetation will be made.
	development occurs adjacent to any Setback area/riparian corridor, and in the case of reconfiguration, larger lots are	
	located adjacent to any Setback area/riparian corridor. A2.8 There is no fragmentation	
	or alienation of any Remnant Vegetation. A2.9 Any natural, environmental	
	or Scenic Amenity value of any balance area outside the DDA is protected.	
- Any development involving filling and excavation minimises detrimental impacts	No Acceptable Solution. (Information that the Council may request to demonstrate	Refer to A2.1
on any aquatic environment.	compliance with the Performance Criteria is outlined in Planning Scheme Policy No 8 – Natural Areas and Scenic	
	Amenity and Planning Scheme Policy No 10 – Reports and Information the Council May	

	<u> </u>
Request, for code and impact	
 assessable development).	

Setback Areas/Riparian Corridors - N/A

Use of Setback Areas/Riparian Corridors - N/A

Retaining and Protecting Highly Visible Areas - N/A

LANDSCAPING CODE

Landscaping is to be provided to a 10m wide buffer to the full frontage of the site, excluding the property access, and to the 6m side boundary setbacks, to comply with the DSC planning scheme policy No 7 - Landscaping.

CONLUSION

The development application seeks a Development Permit for Material Change of Use for the purpose of a single dwelling house on land described as Lot 26 RP749732, 14 Hibiscus Court, Rocky Point.

The proposed development is considered generally consistent with the relevant Planning Scheme Codes and the surrounding locality. The report includes supporting information intended to address any concerns Council may have as the assessing authority

1, Colin Aaron Andreassen [Insert full mame.] as owner of the premises identified as follows: 14 Hibiscus Court, Rocky Point L26 RP749732 consent to the making of a development application under the Planning Act 2016 by: Greg Skyring for Greg Skyring Design and Drafting Pty Ltd on the premises described above for: Material change of use for single storey house (signature of owner and le a andreassen 27-9-17 date signed]

Individual owner's consent for making a development application under

the Planning Act 2016

i Inspiraming Age 2016ng administere (Royalbear Speriment of Local Soverament), infrastructure, and Planning, Queensland Government

Construction Soiltest Pty Ltd A.B.N. 90 054 339 883

Materials Testing and Geotechnical Services

7 Barry Street, Westcourt, PO Box 2234 Cairns Ph 07 4041 4577 Fax 07 4041 4399 e-mail: consoil@bigpond.com

30 May 2006

Job No: G5478

C. Andreassen c/ Greg Skyring 11 Noli Close MOSSMAN QLD 48\$\$

Dear Sir,

Re:

Geotechnical Review at Lot 26 Hibiscus Court Rocky Point.

1. Introduction.

Mr G Skyring (G. Skyring Design & Drafting) requested a review of geotechnical conditions and property risk assessment of original geotechnical report G5478/R11942 on behalf of client (C. Andreassen). Further comments were requested by Douglas Shire Council (DSC) in lieu of design variations and stabilisation works proposed for the site. Updated site plans were provided by G. Skyring.

2. Proposed Development & Site Conditions.

The proposed residential development includes a masonry block building located approximately 6 - 3m from the rear southern embankment. A waste disposal bed is to be located at the front (northern) side of the proposed house.

Site conditions were generally consistent with previous report findings. Further regrowth has occurred on the southern embankment surface and two minor slip areas remain below the crest. One slip is located near the proposed patio area and another at the eastern end of the embankment.

Refer Figure R1 for proposed residence plan and site conditions.

Site Property Risk Assessment.

Risk assessment is limited to the existing rear embankment slope and the likelihood and consequences of potential debris slide(s) (i.e. event) has to the proposed house. The risk assessment is limited to property and the proposed building, or part thereof, located <6m from the embankment crest.

Table 1. (Refer Attachment 'Appendix A & G AGS Sub-committee March 2000' for terminology)

Event	Potential Slide - un-retained	Potential slide - Retained Slope
Volume (estimate) m³	1-20	1-20
Indicative Annual Probability	10 ⁻²	10-4
Qualitative Likelihood	LIKELY	UNLIKELY
Qualitative Consequences	MEDIUM	MED!UM-MINOR
Level of Risk to property	HIGH	MODERATE-LOW
Risk level implications	Risk considered greater than tolerable levels – reduce risk.	Acceptable if treatment maintains or reduces risk.
Recommendations	Treatment of slip area of slope to reduce risk.	Monitor implemented stabilisation system.
Treatment options	Provide stabilisation to slip zone below crest (ie gabion units or retaining wall).	Gabion units, or structural retaining wall.

Notes to Table 1:

i)Qualitative measure of Likelihood:

- LIKELY = the event will probably occur under adverse conditions
- UNLIKELY = the event might occur under very adverse circumstances

ii)Qualitative measure of Consequence to property:

- -MINOR consequences to property = limited damage to house from minor slip, or part of site requiring some debris clearing.
- MEDIUM consequences to property = moderate damage to part of rear of house from major slip, rear part of site requiring major debris clearing.

4. Comments.

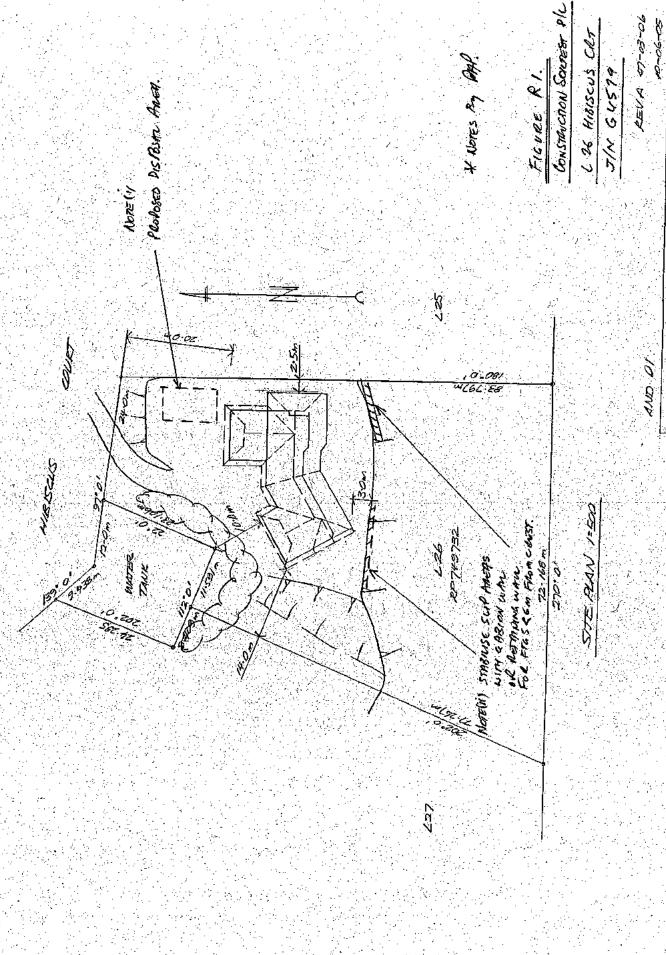
- 1) Risk of site instability from proposed waste disposal bed is considered low provided that the waste disposal bed functions without overflowing.
- 2) Footings shall be no closer than 6m from the southern embankment to satisfy estimated low risk to property from potential slips. Proposed footings closer than 6m from the rear embankment crest increase the risk of property damage and will require structural stabilisation measures below the embankment crest. Proposed patio footings (approximately 3m from crest) are located near an existing slip below the crest. Slip areas near footings (ie <6m from crest) will need to be structurally stabilised. Gabion units or free draining structural retaining walls are recommended. Patio footings shall be founded into rock. Stabilisation measures shall be designed by a professional engineer.
- 3) All other site recommendations as per 8.2 of original report shall also be implemented.
- 4) This report shall be read in conjunction with original report G5478/R11942.

Yours faithfully

Construction Soiltest Pty Ltd

P.A. Podav Paul Posar

CPEng. M.I.E. Aust. R.P.E.Q.



Design and DRAFTING POLLE SKYRING Lc. Under QBSA Act 1991 - No 65284 GREG 11 Noli Close PROPOSED RESIDENCE

TO CEG MODESTEN NA MIBSOUS OURT

Phone/Fax: (07) 46932051

APPENDIX G

LANDSLIDE RISK ASSESSMENT – EXAMPLE OF QUALITATIVE TERMINOLOGY FOR USE IN ASSESSING RISK TO PROPERTY

Qualitative Measures of Likelihood

Level	Descriptor	Description	Indicative Annual Probability
A	ALMOST CERTAIN	The event is expected to occur	>≈10 ^{-l} p.)
В	LIKELY	The event will probably occur under adverse conditions	≈10 ⁻² 0.01
C	POSSIBLE	The event could occur under adverse conditions	≈10°3 o-co1
D	UNLIKELY	The event might occur under very adverse circumstances	≈10 ⁻⁴ o.oo
E	RARE	The event is conceivable but only under exceptional circumstances.	l 1
F	NOT CREDIBLE	The event is inconceivable or fanciful	≈10 ⁻⁵ 0.⊅0001 <10 ⁻⁶ 0.0000

Note: " ω " means that the indicative value may vary by say $\pm \frac{1}{2}$ of an order of magnitude, or more.

Qualitative Measures of Consequences to Property

Level	Descriptor	Description
1	CATASTROPHIC	Structure completely destroyed or large scale damage requiring major engineering works
2	MAJOR	for stabilisation. Extensive damage to most of structure, or extending beyond site boundaries requiring
3	MEDIUM	significant stabilisation works. Moderate damage to some of structure, or significant part of site requiring large
4	MINOR	stabilisation works. Limited damage to part of structure, or part of site requiring some
5	INSIGNIFICANT	reinstatement/stabilisation works. Little damage.

Note: The "Description" may be edited to suit a particular case.

Qualitative Risk Analysis Matrix - Level of Risk to Property

LIKELIHOOD	CONSEQUENCES to PROPERTY				
	1: CATASTROPHIC	2: MAJOR	3: MEDIUM	4: MINOR	5: INSIGNIFICANT
A – ALMOST CERTAIN	VH	VH	Н	Н	M
B – LIKELY	VH	Н	H	M	L-M
C - POSSIBLE	H	Н	M	L-M	VL-L
D – UNLIKELY	М-Н	M	L-M	VL-L	VL
E – RARE	M-L	L-M	VL-L	VL	VI.
F – NOT CREDIBLE	VL	VL	VL	VL	VL

Risk Level Implications

211077	Level implications			
Risk Level		Example Implications(1)		
VH	VERY HIGH RISK	Extensive detailed investigation and research, planning and implementation of treatment options essential to reduce risk to acceptable levels; may be too expensive and not practical		
H	HIGH RISK	Detailed investigation, planning and implementation of treatment options required to reduce risk to acceptable levels		
M	MODERATE RISK	Tolerable provided treatment plan is implemented to maintain or reduce risks. May be accepted. May require investigation and planning of treatment options.		
L	LOW RISK	Usually accepted. Treatment requirements and responsibility to be defined to maintain or reduce risk.		
VL	VERY LOW RISK	Acceptable. Manage by normal slope maintenance procedures.		

Note: (1) The implications for a particular situation are to be determined by all parties to the risk assessment; these are only given as a general guide.

(2) Judicious use of dual descriptors for Likelihood, Consequence and Risk to reflect the uncertainty of the estimate may be appropriate in some cases.

Construction Soiltest Pty Ltd A.B.N. 90 054 339 883

Materials Testing and Geotechnical Services

7 Barry Street, Westcourt, PO Box 2234 Cairns Ph 07 4041 4577 Fax 07 4041 4399 e-mail: consoil@bigpond.com

5 October 2005

Job No: G5478

C & G Andreassen C/- Greg Skyring Design and Drafting 11 Noli Close MOSSMAN QLD 4873

Dear Sir/Madam,

Re: Geotechnical Report for Lot 26 (No. 14) Hibiscus Court Rocky Point.

1. Introduction/Authorisation.

A geotechnical investigation and report was authorised by Mr G Skyring (Greg Skyring Design and Drafting) on behalf of clients/owners C & G Andreassen for proposed residential development at Lot 26 Hibiscus Court Rocky Point. The scope of the report and site plans of the proposed development were provided by Mr Skyring. No site contour levels were available at the time of the investigation.

Scope/Method of Investigation.

The scope of the geotechnical report requested, included the following:

- To provide a report which addresses driveway stability and the site suitability for the proposed development and also the implications of landslide to the allotments below the proposed development.
- Site classification in accordance with AS 2870 `Residential Slabs and Footings' for footing design purposes.

The methods used for the investigation included geotechnical assessment of existing surface features and exposed soil/rock profiles and subsurface soil/rock conditions of the site using augered boreholes and dynamic cone penetrometer (DCP) tests. Subsurface testing was not performed on the southern hill-slope due to steepness and inaccessibility.

3. Proposed Development.

The proposed development is for a residential dwelling founded at existing surface levels. Residential construction is to be limited to the existing benched area. The proposed access driveway is to be the existing driveway configuration off Hibiscus Court. Minimal earthworks are proposed to provide a level building platform and driveway access.

4. Site Description.

The site is identified as Lot 26 RP749732 No.14 Hibiscus Court Rocky Point, which is located south of Hibiscus Court.

The subject site is partly a cut flat ridgeline area south of Hibiscus Court to a steeply sloping natural hill-slope at the rear of the allotment. The hill-slope crest is approximately 45m south of the front boundary and the hill-slope surface is sloping concavely from approximately 45° to 30° north to south to the rear boundary. Access to the site is via a cut unsealed driveway which has cut batters of up to 1m in height. A council easement (Lot 36) with a concrete water tank is located on the north-west (front right hand) corner of the site. An existing house on Lot 25 is located east of the site and a vacant allotment (Lot 27) is located west and is separated by a 15° cut batter. A vacant allotment (Lot 22) is located south of the site at the lower end of the hill-slope. Vegetation on the site varies from nil (exposed rock/soil) on the flat platform area to partly cleared, to thick rainforest, on the rear hill-slope.

Refer Figure 1A and 1B for site location and proposed development.

Regional Geology

According to the Queensland Department of Mines and Energy 1:250000 geological map for Mossman region (Sheet SE 55-1, 1996) the site is underlain by 'Hodgkinson Formation' which may comprise 'interbedded fine to medium grained arenite and mudstone (locally phyllitic); minor chert, and metabasalt'.

Generally on hill slope sites a layer of colluvium overlies residual soils and weathered rock. Landslips have been recorded on steep hill-slopes and earthworks batters in this area.

Assessment/Findings.

6.1. Surface Conditions.

The site surface is mainly exposed weathered rock at the flat platform area (proposed building site) containing little to no vegetation. Exposed weathered rock was evident in the driveway and Hibiscus Court cut batters. The hill slope south of the platform area was steeply sloping below the crest and reducing somewhat concavely to the rear boundary. Vegetation on the slope was partly cleared below the crest and contained fallen trees, thick groundcover shrubs/grass and regrowth saplings and small trees. No major mature trees exist

from the crest to approximately 20-30m down-slope. Dense rainforest including mature trees exist below the 'cleared' slope to the rear boundary and into Lot 22.

No major gullies were observed on the site though evidence down-slope was not established due to thick vegetation and general inaccessibility. Instability zones were observed at and below the hill slope crest where erosion from runoff has caused progressive minor debris slides. Very steep slopes (>45°) were evident below the crest at approximately 2-3 m in height. Small erosion gullies and colluvial deposits containing soil, cobbles and small boulders were observed on Lot 22 (south and down slope of the site).

Existing cut batters on the Hibiscus Court and driveway cutting are mainly exposed weathered rock with some regrowth vegetation. No major instability was observed at the exposed driveway cut batter slopes at the time of the assessment, though occasional small rock piece dislodgements and minor debris has been accumulating at the toe. Exposed weathered rock exists at the front of Lot 22 (base of southern slope/road formation).

6.2. Subsurface Conditions.

Boreholes and DCP tests were performed at the proposed house location. Generally the proposed foundation area encountered approximately 0.3 to 0.6m of residual soil to extremely weathered rock (clayey silt) freshening to distinctly weathered rock. Exposed weathered rock predominates at the front (north end) of the on flat platform. Soil types are considered low to medium plastic clay silts of estimated low reactivity (ie Class S type foundation reactivity).

Exposed cut batters were inspected and logged for rock type, weathering, and orientation of bedding planes and discontinuities. Exposed rock was mainly distinctly weathered arenite/argillite? Orientation of bedding planes are generally steeply dipping in a westerly to south westerly direction (ie approximately 60-80°/220°). Rock strength was estimated to be very low to low. No water seepage was observed at the exposed batter face(s) though conditions may vary during wet seasons.

DCP test results indicate firm to dense conditions, and tests met with refusal when encountering denser weathered rock at depth.

Refer report CS7524/05 for borehole logs and DCP test details, and Figure 2 for test locations.

6.3. Slope Stability/Risk Assessment.

Slope stability of the site was assessed from existing site performance and potential impacts of the proposed development. Stability of the flat platform area

is considered likely stable at the north to the centre of the platform but less stable near the south crest and down-slope of the crest. North (front) cut batters at the existing driveway are considered stable.

The orientation of bedding planes to the southern hill-slope is considered partially unfavourable for stability due to steeply dipping bedding planes inclined sub-parallel and oriented down-slope. Poor vegetation cover below the crest of the hill-slope is considered unfavourable for slope stability.

Some instability was observed at the hill-slope crest and down-slope of the crest from a debris slide. Regression of the batter crest is to be expected over time due to the combination of the slope steepness, runoff scour and erosion.

All hill-slope sites carry risks to the owner and/or resident in regard to site stability and consequences to property. This site has been assessed to pose the following potential instability risks to property:

Potential debris slides at the crest and down-slope below crest; Considered 'Likely' to occur under adverse conditions* and Considered 'Minor' consequences to down-slope allotment; Risk - 'Moderate'. Considered 'Medium' consequences to proposed house on Lot 26 if founded near crest; Risk - 'High'.

Refer attached 'Appendix G' AGS Sub-committee March 2000; for details of likelihood and risk descriptors.

* adverse conditions for this site would most likely be sustained heavy rain.

The client/owner will need to accept these risks when developing this site or reduce risks by implementing engineering solutions, site management during construction, site maintenance and/or protective measures (refer section 8 of this report). It shall be noted that risk to the down-slope allotment (Lot 22) may change if/or when development occurs on this allotment. Risk to the Lot 26 proposed house can be reduced by siting the house further away from the crest.

7. Site Suitability.

The building site (platform area) can be considered suitable for residential development but will require engineering solutions to minimise potential hill-slope instability, siting house away from the hill-slope crest, and good hill-slope engineering and construction practices for long term suitability. Site suitability shall be constrained to the flat platform area and no closer than 6m from the existing hill-slope crest. Existing access driveway can be considered suitable for residential use.

8. Engineering Comments.

8.1. Site Foundation Classification.

The proposed residential building site located on the flat platform is classified Class S in accordance with AS2870 'Residential Slabs and Footings' for footing design purposes. Allowable bearing pressures shall be limited top 100kPa for strip/pad footings and 50 kPa for slabs. This site classification does not apply for any footing located on any hill-slope or within 6m north of the slope crest. For proposed house length >25m, footings shall be designed by a professional engineer using engineering principles. Partial rock foundation should be allowed for in footing design due to potential rock weathering variation.

8.2. Site Recommendations.

The proposed building site (platform area) shall implement the following to improve long-term suitability:

Provide runoff drainage of the building platform and divert via concrete lined spoon drains to a legal discharge point to the north (not to the south hill-slope).

Provide crest and immediate down-slope surface with protection to minimise erosion and instability of crest edges (eg. sprayed concrete or vegetation and matting).

Preserve all hill-slope vegetation and revegetate below crest using suitable species and methods that aid surface stability.

The proposed access driveway shall implement the following to improve long-term suitability:

Provide concrete lines spoon drains at cut batter toes (including any intermediate berms) and above cut batter crests discharging to a suitable point where scour damage is avoided.

Provide pavement and seal to driveway (ie concrete or asphalt on road

base).

Other site issues which should be addressed include:

- Options for stabilisation methods and/or engineering solutions to reduce any potential instability zones monitored during and after construction.
- Long term site maintenance of the site by clearing drains of any debris.

Monitoring site and slope condition by a professional engineer following wet season rains.

Provision for drainage of slope stabilisation methods (eg weep holes for sprayed concrete and free draining matting).

9. Foundation Maintenance/Remarks.

Ongoing foundation maintenance is always essential for the durability and stability of the footings and foundation and the appropriate required maintenance is described in AS 2870 'Residential Slabs and Footings'. Briefly, however, it is advised to keep away from the footings/foundation all water taps, gardens and trees, and provide adequate compaction of loose ground around the outside of the footing perimeter. Rainwater/water should not be allowed to pond against the perimeter of the footings/foundations. Foundation maintenance should follow with the guidelines as set out in CSIRO 10-91 'A Guide to Home Owners on Foundation Maintenance and Footing Performance'.

10. Limitations of Report.

This report is based on the scope and purpose of the assessment undertaken. Interpolation was used to give soil parameters for areas not specifically tested. If during any phase of the building development ground profile conditions revealed differ or vary from those described in this report, our office or suitably qualified personnel should be contacted.

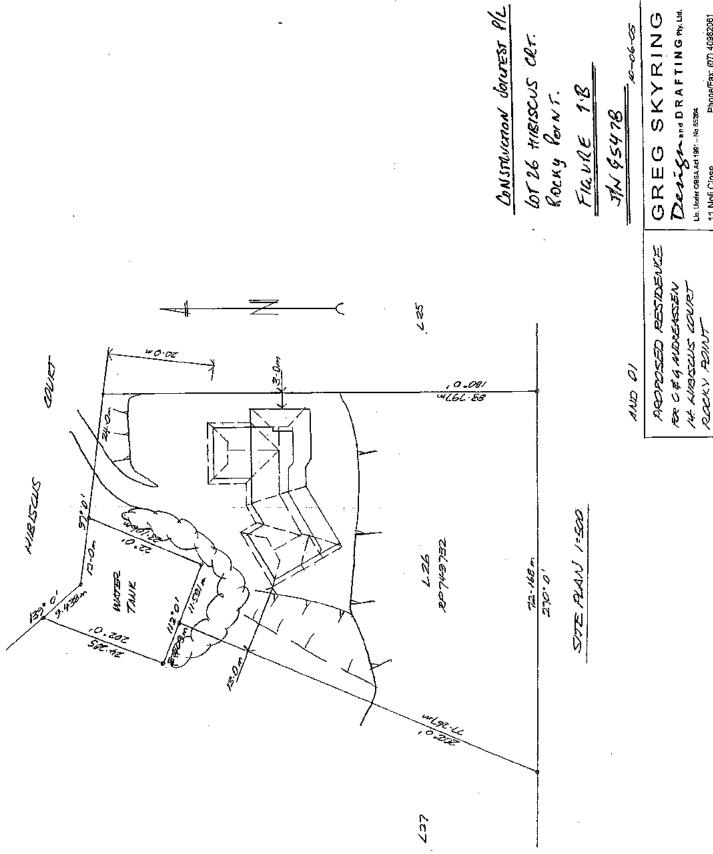
Stability comments are based on a qualitative assessment of site conditions including stability performance of nearby properties. Site stability does not account for leaking or broken pipes and uncontrolled and/or concentrated runoff. Likelihood and risk cannot predict consequences to property structures that currently are not proposed or do not exist (ie Lot 22).

The client and residents of the site shall need to accept and tolerate a level of risk when developing and dwelling on hill slope sites. The comments made in this report aim to present the existing risk, and also offers actions to minimise this risk to a level acceptable or tolerable to the client. The acceptance or toleration of risk is the owners' responsibility to make.

This report is provided for the client and relevant consultants. The information provided shall not be used by others as findings may not be relevant.

Yours faithfully Construction Soiltest Pty Ltd

Paul Posar CPEng. M.I.E. Aust. R.P.E.Q.



LOTZE THEISCUS CRT.

11 Nofi Close MOSSMAN Q. 4873

Phone/Fax; (07) 40982061 Mobile: 0419 212652 Emel: dystepsedm@sybeworks.mt.eu

Construction Soiltest Pty Ltd A.B.N. 90 054 339 883

Materials Testing and Geotechnical Services 7 Barry Street, Westcourt, PO Box 2234 Cairns Ph 07 4041 4577 Fax 07 4041 4399 e-mail: consoil@bigpond.com

13 October 2005

Job No: G5478

Lot 26 (No 14) Hibiscus Court Rocky Point

For

C & G Andreassen

Field Borehole Log

Date: 16/9/05

Logged by: PPWM

Plant: 100mm auger

Pit No:

AH-1

Location: Building platform see sketch.

Description of subsoil Depth (m)

GL Stripped surface at GL.

CL/CH. Extremely weathered rock. Mauve brown clayey silt/silty clay. Slightly moist. Medium plasticity.

- 0.6 CL/CH. Distinctly weathered rock. Mauve brown clayey silt/silty clay.
- 0.7 Auger refusal. No groundwater encountered.

Signatory: _______P.A. Posar Date: 2/10/05

Construction Soiltest Pty Ltd A.B.N. 90 054 339 883

Materials Testing and Geotechnical Services

7 Barry Street, Westcourt, PO Box 2234 Cairns Ph 07 4041 4577 Fax 07 4041 4399 e-mail: consoil@bigpond.com

13 October 2005

Job No: G5478

Lot 26 (No 14) Hibiscus Court Rocky Point

For C & G Andreassen

Field Borehole Log

Date: 16/9/05

Logged by: PP/WM

Plant: 100mm auger

Pit No:

AH-2

Location: Building platform see sketch

Depth (m) Description of subsoil

GL Stripped surface at GL.

> CL/CH. Distinctly weathered rock. Mauve brown clayey silt/silty clay.

0.4 Auger refusal.

No groundwater encountered.

Signatory: P.A. Posar Date: 21/10/05

Construction Soiltest Pty Ltd A.B.N. 90 054 339 883

Materials Testing and Geotechnical Services
7 Barry Street, Westcourt, PO Box 2234 Cairns Ph 07 4041 4577 Fax 07 4041 4399 e-mail: consoil@bigpond.com

13 October 2005

Job No: G5478

Lot 26 (No 14) Hibiscus Court Rocky Point

C & G Andreassen

Field Exposure Log

Date: 29/9/05

Logged by: PP

Plant: Visual

Pit No:

EX-1 & EX2

Location: See sketch

Depth (m)

Description of subsoil

EX-1.

Driveway cut batter, east side. Exposed distinctly weathered rock. Bedding planes dip 70°/220°.

EX-2.

Lot 22 front boundary exposure.

Approximately 0.5m colluvium overlying residual to distinctly weathered rock. Distinctly weathered rock at west end; to residual silty clay to extremely weathered rock at east end.

Signatory: PA Posav P.A. Posar Date: 21/10/05

Page 1 of 2 Reg.No. CS 7524/05

CONSTRUCTION SOILTEST PTY LTD

Client: Job Location:

Rocky Point C & G Andreassen

Lot 26 (No 14) Hibiscus Court

Job Name:

REPORT ON PENETRATION RESISTANCE OF SOIL ABN 90 054-339-883 PO Box 2234 Cairns Ph. 4041 4577

Job Number: G5478	Test Location: P3 See Sketch (Borehole by 100mm hand auger) Description of Subsoil	GL. Stripped surface. CL/CH. Distinctly weathered rock. Mauve brown clayey sitt/sitty clay. 0.4m Auger refusal. No groundwater encountered.
٦	Blows per 0.1m	α α ω ω ν α ω ω σ τ τ ω ω α ω ω ν α ω ω σ τ τ ω ω
13/10/05	Depth Below GL (m)	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05
Date of Report: 13	Test Location: P2 See Sketch Description of Subsoil	
16/9/05		
16	Blows per 0.1m	Seat 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
eď:	Depth Below GL (m)	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05
y: WM/PP Date Tested:	Test Location: P1/AH1 See Sketch (Borehole by 100mm hand auger) Description of Subsoil	GL. Stripped surface. CL/CH. Extremely weathered rock. Mauve brown clayey silt/silty clay. Slightly moist. Medium plasticity. 0.6m CL/CH. Distinctly weathered rock. Mauve brown clayey silt/silty clay. 0.7m Auger refusal. No groundwater encountered.
Tested By:	Blows per 0.1m	8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Tes	Depth Below GL (m)	0.000000000000000000000000000000000000

Approved Signatory: P. P. Paul

Report AR111A July 2002

P. Posar Date of Issue: Zulialos

Dynamic cone penetrometer tested in accordance with AS 1289, 6.3.2



Reg. No. CS 7524/05 Page 2 of 2

CONSTRUCTION SOILTEST PTY LTD

ABN 90 054-339-883 PO Box 2234 Caims Ph: 4041 4577

Job Name:

Job Location:

Client:

Lot 26 (No 14) Hibiscus Court Rocky Point C & G Andreassen

REPORT ON PENETRATION RESISTANCE OF SOIL

Job Number: G5478	Test Location: Description of Subsoil	
	Blows per 0.1m	-
13/10/05	Depth Below GL (m)	0.05 0.15 0.25 0.35 0.35 0.05 0.05 0.75 1.15 1.15 1.15 1.15 1.15 1.15 1.15 1
Date of Report: 13	Test Location: Description of Subsoil	
16/9/05		
16/	Blows per 0.1m	
) 	Depth Below GL (m)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
WM/PP Date Tested:	Test Location: P4 See Sketch Description of Subsoil	
Tested By:	Blows per 0.1m	Seat THE STATE OF
Tes	Depth Below GL (m)	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05

Approved Signatory: P.A. Peter

Report AR111A July 2002

P. A Posar Date of Issue: 21/10/05

Dynamic cone penetrometer tested in accordance with AS 1289, 6.3.2



ZAMMATARO PLUMBING PTY LTG "B THEREGENG PTY LTG MOSSNAN-4873 MOSSNAN-4873 MOSSNAN-4873 FAX: 982 TO 42



ON SITE SEWERAGE FACILITY SITE AND SOIL EVALUATION REPORT

A: SITE EVALUATOR											
Name: Anthony Zammataro											
Signature	Date: 8 st September 05										
B: SITE INFORMATION (desk-top evaluation)											
Location Details,											
Locality 14 Hibiscus Court Rocky point											
Owner: C + G Andreassen											
Phone 40988285											
Survey Plan Details:RP 749732	Lot No: 26										
Local Government: Parish: Whyan	beel County: Solander										
Site Plan Details Attached, Ref. No. O	r Description: Removal Residence, Site plan attached										
Soil Type from Soil Maps etc:	N/A										
Climate											
Annual Rainfall: 2013 mm	Annual Potential Evapotranspiration: 2239 mm										
Intended Water Supply Source:											
Town Water Supply *****	Rainwater (Roof Collection)										
Dam	Bore/Well (Irrigation Only)										

Other

SITE AND SOIL EVALUATION REPORT

 \mathbf{C} :

SITE ASSESSMENT Topography. Slope: Level Building Platform, Big sloping site after that Ground Cover: No Geology: N/A Drainage Patterns: (Site Plan details attached) N\A Available Clearances: (Site Plan details attached Boundaries: Within reguired distances Wells, Bores: N/A Embankments: Not in disposal areas Stands of Trees, Not in disposal areas Buildings: 2 Meters Other: Site History (Land Use): Unknown Environmental Concerns: Steep slope 4 metres away for disposal areas Site Stability: Is expert Evaluation Necessary? Yes / No If yes, attach stability report and give details here of: Author: Designation: Company: Drainage Controls Depth of Seasonal water table: Records not avails. (Taken it is over 1.8m) WINTER: Records not avail. SUMMER: Records not avail. Need for groundwater cut-off drains? Yes / No Need for surface water collection / cut-off drains? Yes / No Availability of Reserve / Setback Areas Reserve Area available for disposal: 100 % of design area: Setback area: 100 % (between site development and on-site disposal design reserve areas % of total area) Evaluator's Photographs attached Yes / No

SITE AND SOIL EVALUATION REPORT

D:	SUBSOIL INVESTIGATION Soil Profile Determination								
	Method:	Falling Water	*						
		Test Pit							
		Other	*	Soil Texture Test \ Soil Classif	ication Test				
Repo	ort:			<u> </u>					
Estin	nated Soil Category:	·							
,	Soil Category	Description		Tick One					
	1.	Gravels and Sa	and						
	2	Sandy Loams							
	3	Loams							
	4.	Clay Loams		****					
	5	Light Clays							
	6.	Medium to He	avy Cl	ays					
	Reasons for placing in Stated Soil Category: On Site Test								
	Reasons for Design Loading Rate (DLR) recommendation: Based on Test and have assumed LTAR of 30								
	from AS 1547:2000								
Gener	al Comments								
	Need for Groundwa	nter Quality Protecti	on:	Yes/No					
	Type of Land Application Facility considered best suited to site. Secondary treatment plant to								
	conventional bed as	per A.S 1547 Fig.	4.5A5						
	Evaluator's prelimi	nary assessment of a	ninim	um Land Application Area for the si	te:				
	36m ²								
	Estimated Daily Flo	ow: Based on a 4 b	ed ho	me = 6 people x 180 litres per day	= 1080 litres				
	Design Consideration	ons: Town water si	apply						
Const	ultation with other par	ties:							
	Neighbours			Local Environment Groups					
	Environme	nt Agencies		Not Applicable	*				
	Report Atta	ched		Yes / No					

DISPOSAL SYSTEMS for EFFLUENT from DOMESTIC PREMISES A.S 1547-2000 SIZING OF DISPOSAL AREA CALCULATIONS (Primary effluent)

1. ABSORPTION AREA OR TRENCH

Aw = Q / DLR

Aw = wetted area in square meters

Q = daily flow in litres

DLR = long term acceptance rate in litres per day

 $Aw = (4 \text{ bedroom} = 6 \text{ persons } \times 180 \text{ lit per person per day}) / 10$

Aw = 1080 / 10

 $Aw = 108m^2$ of wetted area required

2. LEGTH OF TRENCH

L = Aw/B

L = trench length in meters

Aw = wetted area in square meters

B = trench width in meters

L = 108 / 0.6

L = 180 meters of 600mm wide x 600mm deep absorption trench.

3. CONCLUSION

Area is unavailable on-site for this amount of absorption trench. Or bed

DISPOSAL SYSTEMS for EFFLUENT from DOMESTIC PREMISES A.S 1547-2000 SIZING OF DISPOSAL AREA CALCULATIONS

1. IRRIGATION AREA

Ai = Qw / DIR

Ai = irrigation area required

Qw = quantity of effluent generated per week in litres DIR = design irrigation rate in millimetres per week

 $Ai = 7 \times 1080 / 25$

Ai = 7560/25

Ai = 300m² of landscaped irrigation area.

2. CONCLUSION

Area is not unavailable on-site for this amount of irrigation

DISPOSAL SYSTEMS for EFFLUENT from DOMESTIC PREMISES A.S 1547-2000

SIZING OF DISPOSAL AREA CALCULATIONS (Secondary treatment)

1. ABSORPTION AREA OR TRENCH

Aw = Q / DLR

Aw = wetted area in square meters

Q = daily flow in litres

DLR = long term acceptance rate in litres per day

Aw = (4 bedroom = 6 persons x 180 lit per person per day) / 30

Aw = 1080/30

 $Aw = 36m^2$ of wetted area required

3. LEGTH OF TRENCH

L = Aw/B

L = trench length in meters

Aw = wetted area in square meters

B = trench width in meters

L = 36 / 0.6

L = 60 meters of 600mm wide x 500mm deep absorption trench.

3. CONCLUSION

Area is unavailable on-site for this amount of absorption trench. But have available area for bed This is the recommended on site sewerage facilility

This Calculation is based on Table 4.2A1 on page 116 of AS 1547.2002, using Secondary Treated Effluent with a DLR of 30

SUITABLE VEGETATION FOR WET SOILS

(Informative)

TYPES OF VEGETATION

(a) CLIMBERS

Bougain villea

Hardenbergia Hibbertia Scandens Kennedia

Lonicera Japonica Pandorea Jasminoides

(b) GRASSES

Buffalo

Kikuyu

(c) GROUND COVER

Acanthus Mollis Coprosma X Kirki Grevillea Poorinda

Liriope Muscari Ophiopogon Royal Mantle

(d) PERENNIALS

Agapanthus Preaecox Astor Novi-Belgii Canna X Generalis Chrysanthemum Maximum Gazania X Hybrida Salvia X Superba Stokesia Laevis Viola Hederacea

(e) SHRUBS

Abelia X Grandiflora Acacia Longifolia Callistemon Citrinus Cassia Bicapsularis Ceratostigma

Chaenomeles Lagenaria

Correa Alba

Cotoneaster Glaucophyllus

Cotoneaster Lacteus Cotoneaster Pannosus

Caphea Ignea

Euonymus Japonicus Euphorbia Millii Euphorbia Pulcherrima

Hebe Speciosa
Jasminum Mesnyi
Jasminum Officinale
Jasminum Polyanthum
Lantana Camara
Lantana Montevidensis
Leptospermum Flavescens

Narium Oleander Plumbago Auriculate Pyracantha Fortuneana Thunbergia Alata Westringia Fruticosa

(f) TREES

Angophora Costata
Banksia Integrifolia
Callistemon Salignus
Callistemon Viminalis
Casuarina Glauca
Casuarina Stricta
Eucalyptus Botryoides
Eucalyptus Robusta
Hakea Salicifolia
Hakea Saligna

Leptospermum Laevigatum Leptospermum Petersonii

Melaleuca Armillaris – Sandy Soil Melaleuca Linariifolia – Clay Soil Melaleuca Quinquenervia – Sandy Soil Melaleuca Styphelioides – Clay Soil

Nyssa Sylvatica

Photinea X Frasieri 'Robusta'

Tristaniopsis Laurina

All vegetation should be checked with Local Authorities and Nurseries prior to installation for suitability to each region.

NOTICE TO LAND OWNER

Your sanitary drainage installation consists of a septic tank and land application system. To ensure the operational effectiveness of this installation the following advise should be adhered to.

OPERATION AND MAINTENANCE: GENERALLY

On-site sewerage treatment plants and the associated land application facilities are complex systems that are prone to failure if operated and maintained incorrectly. All on-site sewerage facilities require a high degree of user dedication in terms of operation and maintenance to ensure that the design performance of the facility is achieved for the expected life of the facility.

All on-site sewerage facilities or components of the facility have a finite life. For instance, septic tanks may have an expected life of 25 years, whilst the associated land application facility may have an expected life of 5 to 15 years depending on the nature of the specific site.

OPERATION & MAINTENANCE PROCEDURES

Operation and maintenance procedures are undertaken to a regular schedule appropriate to the nature and type of treatment and land application facility and in accordance with any manufacturers instructions; and Continuity of operation and maintenance is achieved throughout changes of ownership and/or changes in use or development of the site.

OPERATION

Practice water conservation, and avoid exceeding the hydraulic capacity of the facility.

Minimise the input of cleaning agents, detergents, disinfectants, bleaches, alkalis, oil, petrol, acids, degreasers, photography chemicals, cosmetics, lotions, pesticides and herbicides into the facility.

Not place materials such as disposal nappies, female napkins, paper towels, cigarette butts, bones and coffee grounds into the facility.

Be observant regarding signs of unsatisfactory performance, including unusual odours, leaks from the facility or choking.

Contact the service agent following observation of unsatisfactory performance or breakdown.

Protect facility components from structural damage, such as from vehicles.

Be familiar with safety procedures.

Establish a time pattern of desludging.

Keep the area in the vicinity of the on-site sewerage facility tidy to facilitate ease of operation and maintenance.

Where appropriate, or required by a condition of approval, enter into an annual service contract with a service agent, and

Retain copies of all service reports.

SEPTIC TANKS

It is recommended that septic tanks be inspected at two yearly intervals. The inspection should include an assessment of the sludge and seum levels and checking of the outlet and inlet square junctions for blockages. Septic Tanks should be desludged when:

- The scum layer is within 100mm of the bottom of the inlet square junction or the sludge layer is within 200mm from the bottom of the inlet.
- The sludge occupies the basic allowance of the septic tank; or
- The sludge scum occupy two-thirds the volume of the tank (or first stage of a two stage system).

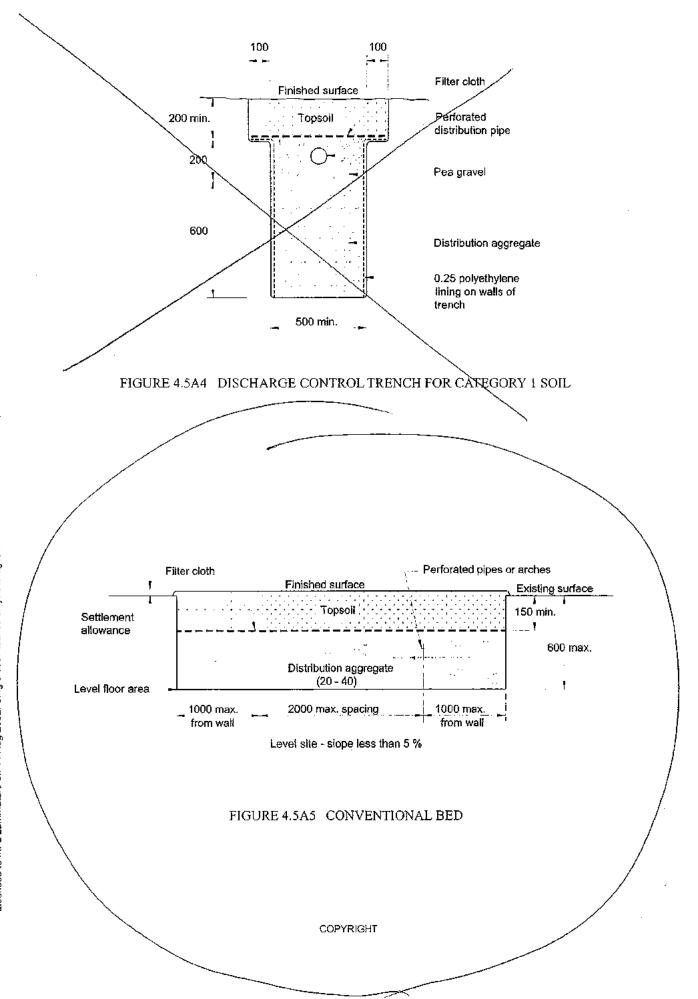
The desludging procedure should ensure that 400-500mm of liquid is retained in the tank, and that the tank is immediately refilled with water to the outlet level.

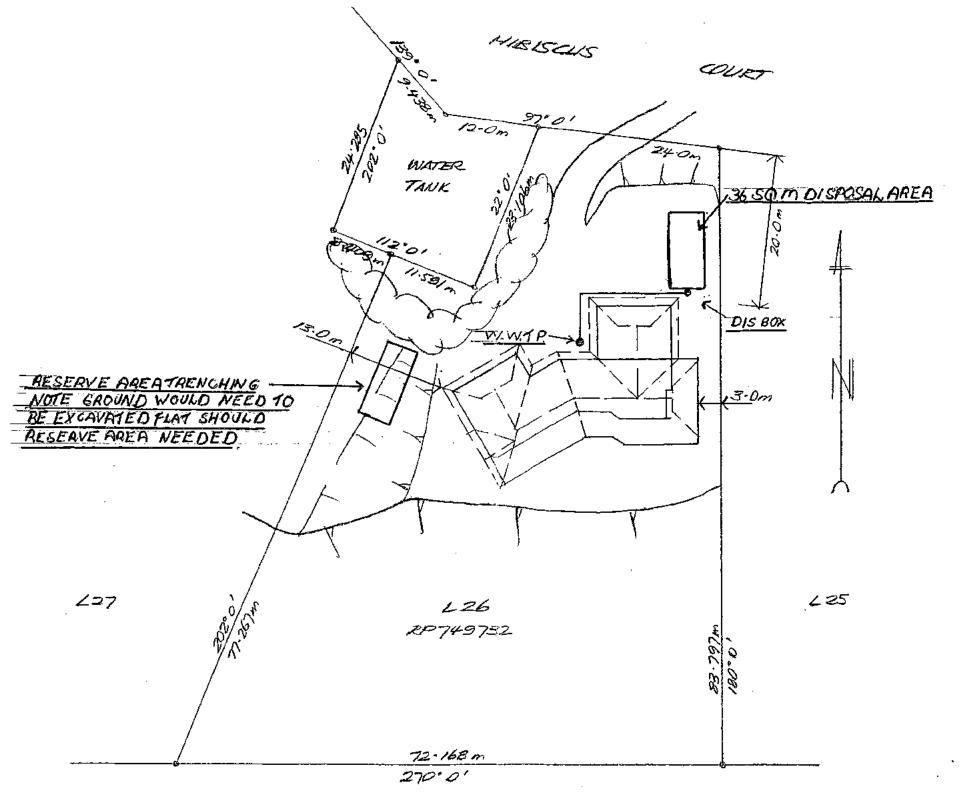
LAND APPLICATION SYSTEMS

Regular visual checking of correct system operation by households, and an annual inspection by service contractors should be undertaken. Signs of system failure include:

- Surface ponding and run-off of treated effluent;
- Degrading of soil structure (Sheet or Rill erosion, surface crusts, hard surface);
- Poor vegetation growth; and
- Unusual odours.







SITE PLAN 1:500

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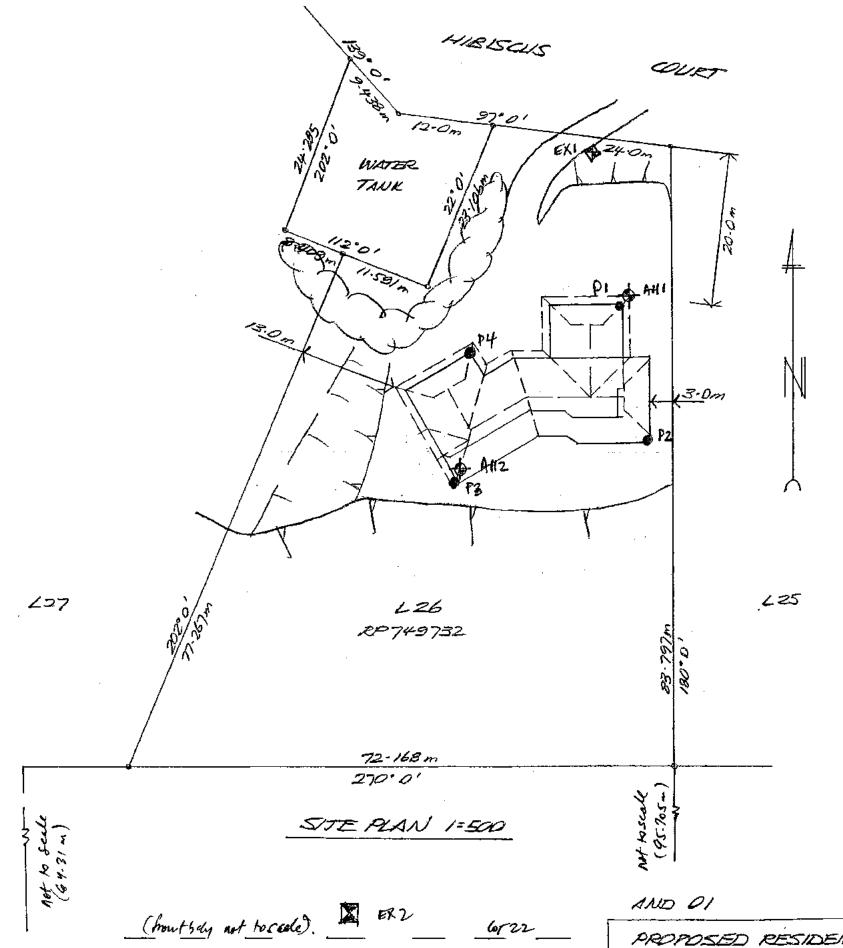
10-06-05

PROPOSED RESIDENCE FOR C & G ANDREASSEN 14 HIBISCUS COURT ROCKY POILT

GREG SKYRING Design and DRAFTING Pty. Ltd.

Lic. Under QBSA Act 1991 - No 65264

11 Noli Close MOSSMAN Q. 4873 Phone/Fax; (07) 40982061 Mobile; 0419 212652 Email: skyringdesign@cyberworld.net.au



HIBISCUS CRET

CONSTRUCTION COLOREST PA COD

LOT 26 HIBISCUS CRT ROCKY POWT.

FILURE 2: 5/NG5478

LOCATION OF NESTS

DEMOTES BOREROUE.

DENOTES EXPOSURE.

· AGNOTES DCP TEST.

10-06-05

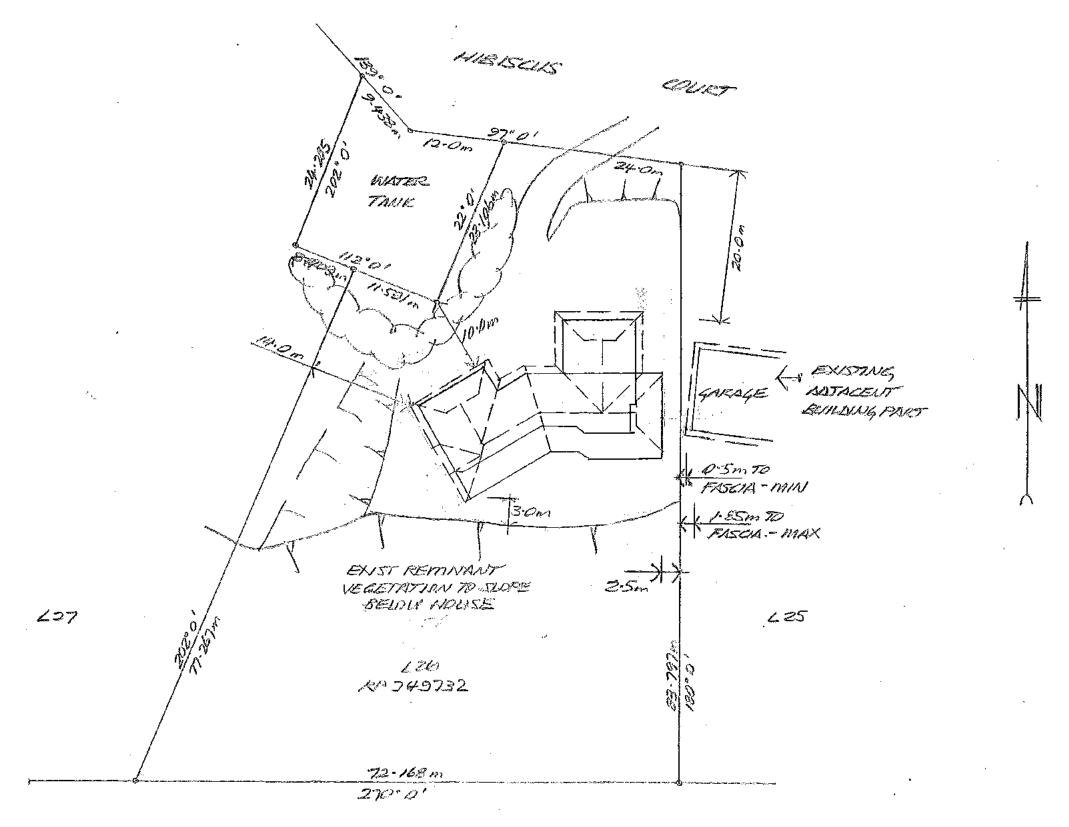
PROPOSED RESIDENCE FOR C & G ANDREASEN 14 HIBISCUS LOURT ROCKY POINT

GREG SKYRING

Design and DRAFTING Pty. Ltd.

Lic. Under QBSA Act 1991 - No 65264

11 Noli Close MOSSMAN Q. 4873 Phone/Fax: (07) 40982061 Mobile: 0419 212652



SITE PLAN 1:500

REV B 30-05-06 REVA 47-03-06

AND PI

PROPOSED RESIDENCE FR C & G MUNEASSEN 14 HBISCUS COURT ROCKY POINT

GREG SKYRING

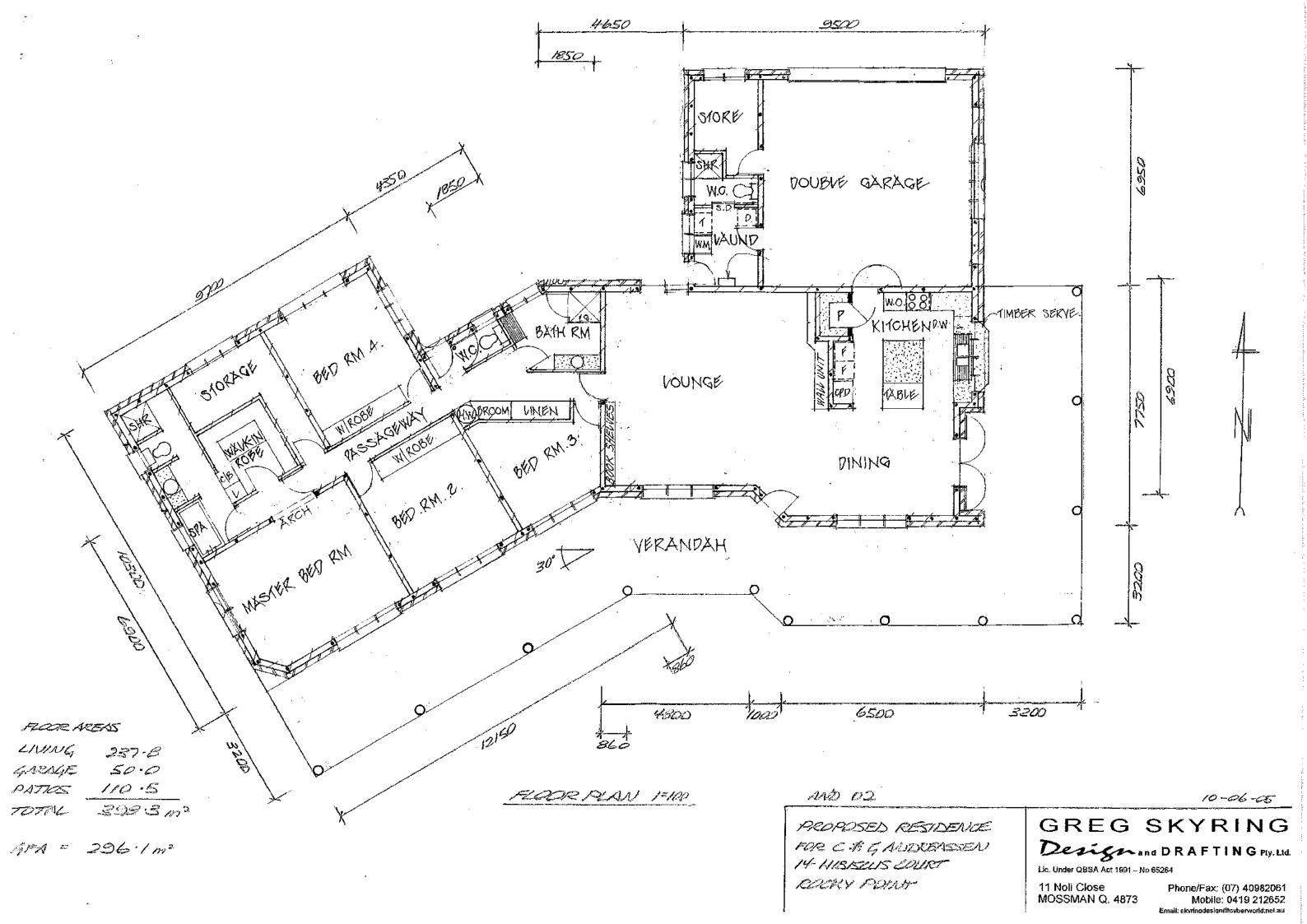
Designand DRAFTING Pty. Ltd.

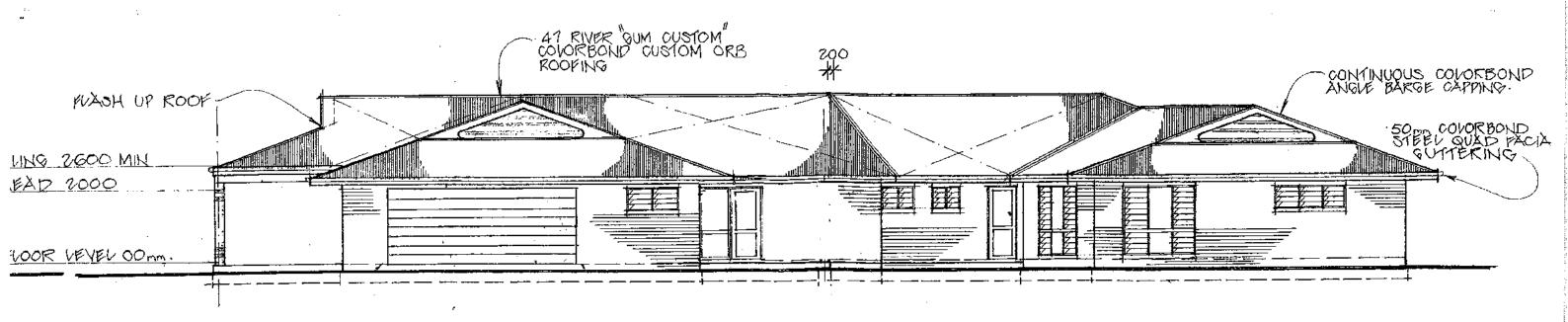
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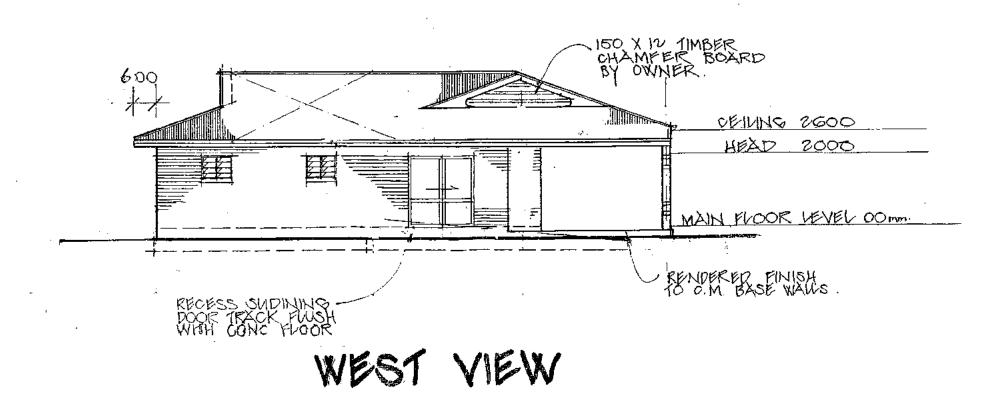
Phone/Fax: (07) 40982061 Mobile: 0419 212652 Email: skyringdesign@cyberworld.net.au

10-06-05





NORTH VIEW



AND OB

10-05-05

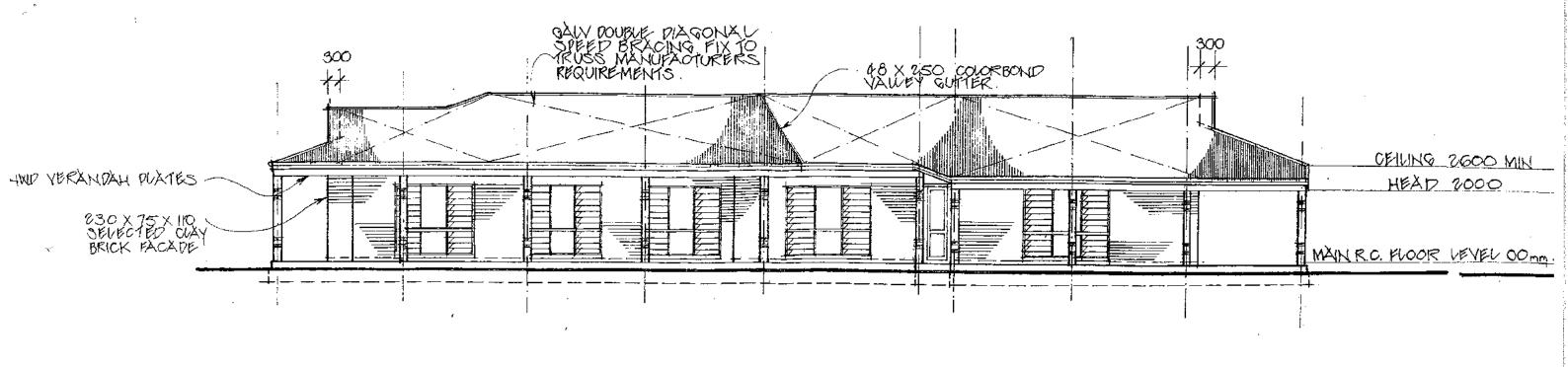
PROPOSED RESIDENCE FOR C J.G ANDREASSEN! 14 HIBISCUS COURT ROCKY POINT

GREG SKYRING Designand DRAFTING Pty. Ltd

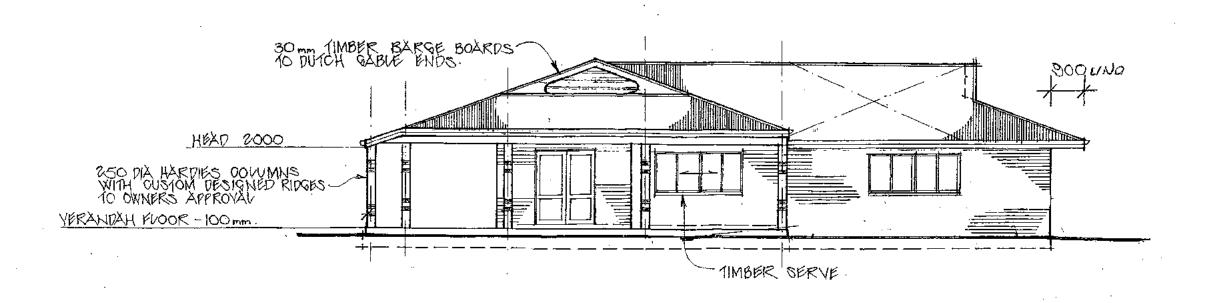
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11 Noli Close MOSSMAN Q. 4873

Phone/Fax: (07) 40982061 Mobile: 0419 212652



SOUTH YIEW



east view

SOXUE 1:100

AND OY

PROPOSED RESIDENCE
FOR C & G ANDREASSEN

14 NIBISCUS COURT

ROCKY POINT

10-06-05

GREG SKYRING Design and DRAFTING Pty. Ltd.

Lic. Under QBSA Act 1991 - No 65264

11 Noli Close MOSSMAN Q. 4873 Phone/Fax: (07) 40982061 Mobile: 0419 212652