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.

This form and any other form relevant to the development application must be used to make a development application relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994*, and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008.* For the purpose of assessing a development application relating to strategic port land and Brisbane core port land, any reference to a planning scheme is taken to mean a land use plan for the strategic port land, Brisbane port land use plan for Brisbane core port land, or a land use plan for airport land.

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)	Mackay Resort Developments Pty Ltd
Contact name (only applicable for companies)	C/- Elizabeth Taylor – Town Planner
Postal address (P.O. Box or street address)	23 Vallely Street
Suburb	Freshwater
State	QLD
Postcode	4870
Country	Australia
Contact number	Liz - 40552548
Email address (non-mandatory)	liz@elizabethtaylor.net.au
Mobile number (non-mandatory)	Liz - 0407584966
Fax number (non-mandatory)	N/A
Applicant's reference number(s) (if applicable)	ET18-005

2) Owner's consent

2.1) Is written consent of the owner required for this development application?

Yes – the written consent of the owner(s) is attached to this development application

 \square No – proceed to 3)



PART 2 – LOCATION DETAILS

3) Location of the premises (complete 3.1) or 3.2), and 3.3) as applicable)						
Note : P <u>Guide: F</u>	rovide details b Relevant plans.	elow and attac	h a site pla	n for any or all p	remises part of the development	application. For further information, see <u>DA Forms</u>
3.1) St	reet addres	s and lot on	plan			
Stre	eet address	AND lot on	plan (all l	ots must be liste	d), or	
but adjo	eet address ining or adjace	AND lot on nt to land e.g. ,	plan for etty, ponto	an adjoining (on; all lots must i	or adjacent property of the be listed).	premises (appropriate for development in water
	Unit No.	Street No.	Stree	et Name and	Гуре	Suburb
<i>a)</i>		6	Wha	rf Street		Port Douglas
a)	Postcode	Lot No.	Plan	Type and Nu	mber (e.g. RP, SP)	Local Government Area(s)
	4877	21	PTD	20925		Douglas Shire Council
	Unit No.	Street No.	Stree	et Name and	Гуре	Suburb
b)						
	Postcode	Lot No.	Plan	Type and Nu	mber (e.g. RP, SP)	Local Government Area(s)
3.2) Co	oordinates o	f premises	appropriat	e for developmei	nt in remote areas, over part of a	lot or in water not adjoining or adjacent to land e.g.
Note: P	lace each set o	f coordinates i	a separa	e row. Only one	set of coordinates is required for	r this part.
	ordinates of	premises by	longitu	de and latitud	e	
Longit	ude(s)	La	titude(s)		Datum	Local Government Area(s) (if applicable)
					WGS84	
					GDA94	
				and a south in a	Utner:	
Eactin		Northing		Zono Rof	Datum	Local Covernment Area(c) (if environtia)
Lasun	y(s)	Northing	(5)			Local Government Area(S) (<i>ii applicable</i>)
				55	GDA94	
	□ 56 □ Other:					
3.3) Ao	dditional pre	mises				
Ado	ditional prem	nises are rel	evant to	this developn	nent application and their	details have been attached in a schedule
to this	application					
	required					
4) Ider	ntify any of th	ne following	that app	ly to the prem	nises and provide any rele	vant details
🗌 In c	or adjacent t	o a water bo	dy or wa	atercourse or	in or above an aquifer	
Name	of water boo	dy, watercou	rse or a	quifer:		
On strategic port land under the Transport Infrastructure Act 1994						
Lot on plan description of strategic port land:						
Name of port authority for the lot:						
In a tidal area						
Name of local government for the tidal area (if applicable):						
Name	of port auth	ority for tida	area (if a	applicable):		
🗌 On	airport land	under the A	irport As	sets (Restruc	cturing and Disposal) Act 2	2008
Name	of airport:					
List	ed on the E	nvironmenta	l Manag	ement Regist	ter (EMR) under the Envir	onmental Protection Act 1994
EMR s	ite identifica	ition:				

Listed on the Contaminated Land Register (CLR) under the <i>Environmenta</i>	Protection Act 1994		
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 Guide.</u>			
Yes – All easement locations, types and dimensions are included in plans submitted with this development application			
No			

PART 3 – DEVELOPMENT DETAILS

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)
☑ 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
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 lot into 3 lots):
Dwelling house
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 quide</u> : <u>Relevant plans</u> .
\boxtimes 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
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> : <u>Relevant plans</u> .
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

Section 2 – Further development details

7) Does the proposed development application involve any of the following?			
Material change of use	\boxtimes Yes – complete division 1 if assessable against a local planning instrument		
Reconfiguring a lot	Yes – complete division 2		
Operational work	Yes – complete division 3		
Building work	Yes – complete DA Form 2 – Building work details		

Division 1 - Material change of use

Note: This division is only required to be completed if any part of the development application involves a material change of use assessable against a local planning instrument.

8.1) Describe the proposed material change of use					
Provide a general description of the proposed use	Provide the planning scheme definition (include each definition in a new row)	Number of dwelling units (if applicable)	Gross floor area (m ²) (<i>if applicable</i>)		
Dwelling house	Dwelling house	1	525m ²		
8.2) Does the proposed use involve the use of existing buildings on the premises?					
☐ Yes					
🖂 No					

Division 2 – Reconfiguring a lot

Note: This division is only required to be completed if any part of the development application involves reconfiguring a lot.

9.1)	What is the	total number of	existing lots	making up the	premises?
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9.2) What is the nature of the lot reconfiguration? (tick all applicable boxes)

Subdivision (complete 10))

Boundary realignment (complete 12))

Dividing land into parts by agreement (complete 11))

Creating or changing an easement giving access to a lot from a construction road (*complete 13*))

10) Subdivision 10.1) For this development, how many lots are being created and what is the intended use of those lots:				
Intended use of lots created	Residential	Commercial	Industrial	Other, please specify:
Number of lots created				
10.2) Will the subdivision be stag	ged?			
 Yes – provide additional details below No 				
How many stages will the works include?				
What stage(s) will this development application apply to?				

11) Dividing land into parts by agreement – how many parts are being created and what is the intended use of the parts?				
Intended use of parts created	Residential	Commercial	Industrial	Other, please specify:
Number of parts created				

12) Boundary realignment					
12.1) What are the current and pr	oposed areas for each lot comp	prising the premises?			
Curren	Current lot Proposed lot				
Lot on plan description	Area (m ²)	Lot on plan description	Area (m ²)		
12.2) What is the reason for the boundary realignment?					

To what are the amendions and hatare of any existing easements being changed and/or any	ny proposed easement?
(attach schedule if there are more than two easements)	

Existing or proposed?	Width (m)	Length (m)	Purpose of the easement? (e.g. pedestrian access)	Identify the land/lot(s) benefitted by the easement

Division 3 – Operational work

Note: This division is only required to be completed if any part of the development application involves operational work.

14.1) What is the nature of the operational work?					
Road work	Stormwater	Water infrastructure			
Drainage work	Earthworks	Sewage infrastructure			
Landscaping	Signage	Clearing vegetation			
Other – please specify:					
14.2) Is the operational work necessary to facilitate the creation of new lots? (e.g. subdivision)					
Yes – specify number of new	lots:				
No					
14.3) What is the monetary value of the proposed operational work? (include GST, materials and labour)					
\$					

PART 4 – ASSESSMENT MANAGER DETAILS

15) Identify the assessment manager(s) who will be assessing this development application
Douglas Shire Council
16) Has the local government agreed to apply a superseded planning scheme for this development application?
Yes – a copy of the decision notice is attached to this development application
Local government is taken to have agreed to the superseded planning scheme request – relevant documents attached
No

PART 5 – REFERRAL DETAILS

17) Do any aspects of the proposed development require referral for any referral requirements? **Note**: A development application will require referral if prescribed by the Planning Regulation 2017.

No, there are no referral requirements relevant to any development aspects identified in this development application – proceed to Part 6

Matters requiring referral to the chief executive of the Planning Regulation 2017:

Clearing native vegetation

Contaminated land (unexploded ordnance)

Environmentally relevant activities (ERA) (only if the ERA have not been devolved to a local government)
Fisheries – aquaculture
Fisheries – declared fish habitat area
Fisheries – manne plants
Fishenes – waterway barrier works
Infrastructure – designated premises
Infrastructure – designated premises
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:
Matters requiring referral to the local government: Airport land
Matters requiring referral to the local government: Airport land Environmentally relevant activities (ERA) (only if the ERA have been devolved to local government)
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
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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
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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:
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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 chief executive of 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 Matters requiring referral to the Minister under the Transport Infrastructure Act 1994: Matters requiring referral to the Minister under the Transport Infrastructure Act 1994: Matters requiring referral to the relevant port operator:
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 Matters requiring referral to the Rimister under the Transport Infrastructure Act 1994: Brisbane core port land Matters requiring referral to the Rimister under the Transport Infrastructure Act 1994: Brisbane core port land Matters requiring referral to the Rimister under the Transport Infrastructure Act 1994: Brisbane core port land
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Matters requiring referral to the local government: Airport land Cenvironmentally relevant activities (ERA) (only if the ERA have been devolved to local government) Cocal 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 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 Matters requiring referral to the relevant port operator: Brisbane core port land Matters requiring referral to the chief executive of the relevant port authority: Atters requiring referral to the chief executive of the relevant port authority: Cand within limits of another port Matters requiring referral to the Chief executive of the relevant port authority: Cand within limits of another port Matters requiring referral to the Chief executive of the relevant port authority: Cand within limits of another port Matters requiring referral to the Chief executive of the relevant port authority: Cand within limits of another port Matters requiring referral to the chief executive of the relevant port authority: Cand within limits of another port Matters requiring referral to the Chief executive of the relevant port authority: Cand within limits of another port Matters requiring referral to the Chief executive of the relevant port authority: Cand within limits of another port
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18) Has any referral agency provided a referral response for this development application?				
 Yes – referral response(s) received and listed below are attached to this development application ☑ No 				
Referral requirement Referral agency Date of referral response				
Identify and describe any changes made to the proposed development application that was the subject of the referral response and the development application the subject of this form, or include details in a schedule to this development application (<i>if applicable</i>).				

PART 6 – INFORMATION REQUEST

19) Information request under Part 3 of the DA Rules

I agree to receive an information request if determined necessary for this development application

I do not agree to accept an information request for this development application

Note: By not agreeing to accept an information request I, the applicant, acknowledge:

- that this development application will be assessed and decided based on the information provided when making this development application and the assessment manager and any referral agencies relevant to the development application are not obligated under the DA Rules to accept any additional information provided by the applicant for the development application unless agreed to by the relevant parties
- Part 3 of the DA Rules will still apply if the application is an application listed under section 11.3 of the DA Rules.
- Further advice about information requests is contained in the <u>DA Forms Guide</u>.

PART 7 – FURTHER DETAILS

20) Are there any associated development applications or current approvals? (e.g. a preliminary approval)			
\Box Yes – provide details below or include details in a schedule to this development application \boxtimes No			
List of approval/development application references	Reference number	Date	Assessment manager
Approval Development application			
Approval Development application			

21) Has the portable long service leave levy been paid? (only applicable to development applications involving building work or operational work)

Yes – the yellow local government/private certifier's copy of the receipted QLeave form is attached to this development application

No – I, the applicant will provide evidence that the portable long service leave levy has been paid before the assessment manager decides the development application. I acknowledge that the assessment manager may give a development approval only if I provide evidence that the portable long service leave levy has been paid
 ☑ Not applicable

Amount paid	Date paid (dd/mm/yy)	QLeave levy number (A, B or E)
\$		

22) Is this development application in response to a show cause notice or required as a result of an enforcement notice?

☐ Yes – show cause or enforcement notice is attached ⊠ No

23) Further legislative requirements			
Environmentally relevant activities			
23.1) Is this development application also taken to be an application for an environmental authority for an Environmentally Relevant Activity (ERA) under section 115 of the <i>Environmental Protection Act</i> 1994?			
 Yes – the required attachment development application, and de ☑ No Note: Application for an environmental at to operate. See www.business.gld.gov.at 	 Yes – the required attachment (form EM941) for an application for an environmental authority accompanies this development application, and details are provided in the table below No Note: Application for an environmental authority can be found by searching "EM941" at <u>www.gld.gov.au</u>. An ERA requires an environmental authority to the found by searching "EM941" at <u>www.gld.gov.au</u>. An ERA requires an environmental authority to the found by searching "EM941" at <u>www.gld.gov.au</u>. An ERA requires an environmental authority to the found by searching "EM941" at <u>www.gld.gov.au</u>. An ERA requires an environmental authority to the found by searching "EM941" at <u>www.gld.gov.au</u>. An ERA requires an environmental authority to the found by searching "EM941" at <u>www.gld.gov.au</u>. An ERA requires an environmental authority to the found by searching "EM941" at <u>www.gld.gov.au</u>. An ERA requires an environmental authority to the found by searching "EM941" at <u>www.gld.gov.au</u>. An ERA requires an environmental authority to the found by searching "EM941" at <u>www.gld.gov.au</u>. An ERA requires an environmental authority to the provided in the table below. 		
Proposed ERA number:	Proposed ERA threshold:		
Proposed ERA name:			
Multiple ERAs are applic to this development appl	able to this development application and the details have been attached in a schedule ication.		
Hazardous chemical facilities			
23.2) Is this development application	ation for a hazardous chemical facility?		
 ☐ Yes - Form 69: Notification of application ☑ No Note: See <u>www.justice.gld.gov.au</u> for fur 	f a facility exceeding 10% of schedule 15 threshold is attached to this development ther information.		
Clearing native vegetation			
23.3) Does this development app executive of the Vegetation Mana of the Vegetation Management A	plication involve clearing native vegetation that requires written confirmation the chief agement Act 1999 is satisfied the clearing is for a relevant purpose under section 22A Act 1999?		
 Yes – this development application is accompanied by written confirmation from the chief executive of the Vegetation Management Act 1999 (s22A determination) No 			
Environmental offsets			
23.4) Is this development application taken to be a prescribed activity that may have a significant residual impact on a prescribed environmental matter under the Environmental Offsets Act 2014?			
 Yes – I acknowledge that an environmental offset must be provided for any prescribed activity assessed as having a significant residual impact on a prescribed environmental matter No Note: The environmental offset section of the Queensland Government's website can be accessed at www.gld.gov.au for further information on environmental offsets. 			
Koala conservation			
23.5) Does this development application involve a material change of use, reconfiguring a lot or operational work within an assessable development area under Schedule 10. Part 10 of the Planning Regulation 2017?			
☐ Yes ⊠ No			
Note: See guidance materials at <u>www.enp.qid.gov.au</u> for further information.			
23.6) Does this development application involve taking or interfering with artesian or sub artesian water, taking or interfering with water in a watercourse, lake or spring, taking overland flow water or waterway barrier works?			
\boxtimes No			
Note: DA templates are available from <u>www.dilgp.qld.gov.au</u> .			
23.7) Does this application involve taking or interfering with artesian or sub artesian water, taking or interfering with water in a watercourse, lake or spring, or taking overland flow water under the <i>Water Act 2000</i> ?			
Yes – I acknowledge that a relevant water authorisation under the Water Act 2000 may be required prior to			

commencing development ☑ No			
Note: Contact the Department of Natural	Resources and Mines at <u>www.dnrm.qlo</u>	l.gov.au for further information.	
<u>Marine activities</u>			
23.8) Does this development app disturbance or destruction of m	ication involve aquaculture, w narine plants?	orks within a declared fish ha	bitat area or removal,
☐ Yes – an associated resource Fisheries Act 1994	allocation authority is attached	to this development application	, if required under the
Note: See guidance materials at <u>www.dat</u>	.gld.gov.au for further information.		
Quarry materials from a waterc	ourse or lake		
23.9) Does this development app the Water Act 2000?	ication involve the removal of	quarry materials from a water	course or lake under
☐ Yes – I acknowledge that a que No	arry material allocation notice n	nust be obtained prior to comme	encing development
Note: Contact the Department of Natural	Resources and Mines at <u>www.dnrm.qlo</u>	l.gov.au for further information.	
Quarry materials from land und	er tidal waters		
23.10) Does this development ap the Coastal Protection and Manag	plication involve the removal o gement Act 1995?	f quarry materials from land u	nder tidal water under
☐ Yes – I acknowledge that a que X No	arry material allocation notice n	nust be obtained prior to comme	encing development
Note: Contact the Department of Environ	nent and Heritage Protection at <u>www.e</u>	hp.qld.gov.au for further information.	
<u>Referable dams</u>			
23.11) Does this development ap section 343 of the Water Supply (plication involve a referable da Safety and Reliability) Act 2008	m required to be failure impact as (the Water Supply Act)?	assessed under
☐ Yes – the 'Notice Accepting a Act is attached to this developme ⊠ No	Failure Impact Assessment' fro nt application	m the chief executive administe	ring the Water Supply
Note: See guidance materials at <u>www.de</u>	vs.qld.gov.au for further information.		
Tidal work or development with	in a coastal management dis	trict	
23.12) Does this development ap	plication involve tidal work or o	development in a coastal man	agement district?
 Yes – the following is included Evidence the proposal mapplication involves prescribed tidate A certificate of title 	with this development application eets the code for assessable do	ion: evelopment that is prescribed tion	dal work (only required if
No Note: See guidance materials at <u>www.eh</u>	<u>qld.gov.au</u> for further information.		
Queensland and local heritage	places		
23.13) Does this development ap heritage register or on a place e	plication propose development ntered in a local government's	on or adjoining a place entered L ocal Heritage Register ?	in the Queensland
 Yes – details of the heritage p ➢ No Note: See guidance materials at www.eh 	ace are provided in the table be	elow ts regarding development of Queenslar	d heritage places.
Name of the heritage place:		Place ID:	
Brothels			
23.14) Does this development ap	plication involve a material cha	nge of use for a brothel?	
☐ Yes – this development applic for a brothel under Schedule 3 of	ation demonstrates how the pro the <i>Prostitution Regulation</i> 201	posal meets the code for a dev 4	elopment application

Decision under section 62 of the Transport Infrastructure Act 1994

23.15) Does this development application involve new or changed access to a state-controlled road?

Yes - this application will be taken to be an application for a decision under section 62 of the Transport Infrastructure Act 1994 (subject to the conditions in section 75 of the Transport Infrastructure Act 1994 being satisfied) 🖂 No

PART 8 – CHECKLIST AND APPLICANT DECLARATION

24) Development application checklist	
I have identified the assessment manager in question 15 and all relevant referral requirement(s) in question 17 <i>Note</i> : See the Planning Regulation 2017 for referral requirements	⊠ Yes
If building work is associated with the proposed development, Parts 4 to 6 of <i>Form 2</i> – <i>Building work details</i> 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</u> <u>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: Relevant plans.</u>	🛛 Yes
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

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 false 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 Planning Act 2016, 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 Planning Act 2016 and the Planning Regulation 2017, and the access rules made under the Planning Act 2016 and Planning Regulation 2017; or
- required by other legislation (including the Right to Information Act 2009); or
- otherwise required by law.

This information may be stored in relevant databases. The information collected will be retained as required by the Public Records Act 2002.

PART 9 - FOR OFFICE USE ONLY

Date received:	Reference numb	er(s):
Notification of engagement of alternative assessment manager		
Prescribed assess	sment manager	
Name of chosen a	assessment manager	

Date chosen assessment manager engaged	
Contact number of chosen assessment manager	
Relevant licence number(s) of chosen assessment	
manager	

QLeave notification and payment Note: For completion by assessment manager if applicable	
Description of the work	
QLeave project number	
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.

Individual owner's consent for making a development application under the *Planning Act* 2016

I, Andrew Mackay, Director of Mackay Resort Developments Pty Ltd

as owner of the premises identified as follows:

6 Wharf Street, Port Douglas Lot 21 PTD20925

consent to the making of a development application under the Planning Act 2016 by:

Elizabeth Taylor - Town Planner

on the premises described above for:

Material Change of Use - Dwelling House

Marky

Andrew Mackay

12.2.2018

Date

The Planning Act 2016 is administered by the Department of Local Government, infrastructure and Planning, Queensland Government

APPLICATION FOR MATERIAL CHANGE OF USE-DWELLING HOUSE ON LAND AT 6 WHARF STREET, PORT DOUGLAS

PREPARED FOR A & J MACKAY

PREPARED BY ELIZABETH TAYLOR TOWN PLANNER

FEBRUARY, 2018

1.0 INTRODUCTION

This Application for Material Change of Use (MCU) relates to a site located at 6 Wharf Street, Port Douglas. The Application seeks to erect a Dwelling house on a vacant residential site located in Sub-Precinct 1F – Flagstaff Hill and on that basis is code assessable development.

This report addresses the relevant sections of Douglas Shire Council Planning Scheme 2018, FNQ Regional Plan 2010 – 2031, Planning Act 2016 and Planning Regulation 2017.

The development of the site does not triggers referral to the State through the State Assessment Referral Agency (SARA).

2.0 THE SITE AND LOCALITY

2.1 The Site

The site is vacant and is described as Lot 21 PTD20925 and is nearly square in shape and has an area of $655m^2$ and frontages of approximately 23 metres to Wharf Street with a truncated corner. The site slopes from the rear to the street frontage with a fall of approximately 4 metres over a distance of 23 metres and a cross fall to the south west. The site is zoned Environmental Management under the current Planning Scheme.

The site is serviced with reticulated electricity and telecommunications, water and sewer and all other urban services.

2.2 The Locality

The site is located on Flagstaff Hill at Port Douglas, which is developed for high quality housing and apartments for both permanent residents and tourists. Many of the large homes on Flagstaff Hill are rented out as exclusive holiday homes.

Flagstaff Hill is in close proximity to Macrossan Street and the tourist centre of Port Douglas.

3.0 PROPOSED DEVELOPMENT

It is proposed to build a Dwelling house on the site that has been architecturally designed to take account of the sloping topography of the site and the sea views. A copy of an Aerial Site Plan and Concept Plans for the new Dwelling house is attached to this report at Appendix 1.

The Dwelling house is two (2) storeys and comprised of:

Lower Level

- Entertainment area, opening onto a terrace and swimming pool built nearly to the site frontage and retained by a 3 metre high retaining wall;
- Garage for 2 cars with the driveway located approximately 5 metres from the corner truncation of the site;
- 4 bedrooms;
- 3 bathrooms; and
- laundry with adjacent outdoor drying and utility area.

Upper Level

- Open plan kitchen, living and dining area, opening on to a large balcony;
- Master bedroom, bathroom and study.

Externally the Dwelling has a skillion roof, large overhangs, large expanses of glass and timber screens, rendered blockwork and stone cladding, which reduces the bulk of the building at this corner location.

In relation to building height, the Elevation Plans reveal that the bulk of the Dwelling house is below the 8.5 metre building line, except for the top section of the skilling roof that extends into the 8.5 metre building line due to the sloping topography/stepping down of the site. However, the building is within the 8.5 metre building line when viewed from the rear boundary but intrudes along the front elevation due to the stepping down of the site. This minor intrusion is considered acceptable due to the skillion roof profile, which reduces the bulk of the built form of the Dwelling house.

The Dwelling house is setback from the site boundaries, as follows:

- 7.071 metres from the front boundary. However, the swimming pool structure is built 0.971 metres from the site frontage and includes a 3 metre high retaining wall, at its highest, along the length of the site frontage;
- 2.078 metres to the south western side boundary;
- 3.00 metres to the north eastern side boundary with a planter box reducing this setback to 2.00 metres towards the site frontage; and
- 1.00 metre from the rear boundary.

The proposed Dwelling has a site cover of 47%.

The immediate, surrounding area is characterized by very large affluent Dwellings, refer attached Aerial plan at Appendix 1 and the proposed Dwelling house is entirely in scale and character with surrounding housing in the local area.

The design of the proposed Dwelling house is, in some ways, similar to the dwelling shown in photographs below, which also includes a skillion roof, large

overhangs, large expanses of glass and timber screens, rendered blockwork and stone cladding.









4.0 STATUTORY PLANNING ASSESSMENT

The Douglas Shire Council Planning Scheme 2018 was prepared under the Sustainable Planning Act 2009 (SPA) and State Planning Policy April 2016 (SPP) has been integrated into the Planning Scheme, in particular and of relevance to this Application – SPP: Liveable communities and housing – Liveable communities and Housing supply and diversity.

The site is included in the Urban Footprint designation of the FNQ2009-2031 Regional Plan, where a Dwelling house is considered to be an entirely appropriate form of development.

The State mapping of the site identifies that the Application does not trigger referral to the State.

5.0 PLANNING SCHEME –ASSESSMENT

The proposed use is defined as a Dwelling house under the planning scheme. A Dwelling house is code assessable development in the Environmental Management zone and Flagstaff Hill Precinct 1F under the Port Douglas/Craigie Local Plan and on that basis the proposed development requires assessment against the following codes.

- Environmental Management Zone Code;
- Port Douglas/Craiglie Local Plan Code;
- Acid Sulfate Soils Code;
- Bushfire Hazard Overlay Code;
- Potential Landslide Hazard Overlay Code;
- Dwelling House Code;
- Access, Parking and Services Code;
- Filling and Excavation Code; and
- Landscaping Code.

However, given the type of development proposed and the location of the site, surrounded by urban developed and given the existing urban services available to the site, it is proposed to only consider any specific and relevant provisions of the applicable codes.

5.1 Environmental Management Zone Code

The purpose of the Environmental management zone code is to recognise environmentally sensitive areas and provide for houses on lots and other low impact activities where suitable.

These areas are protected from intrusion of any urban, suburban, centre or industrial land use.

The local government purpose of the code is to:

(a) implement the policy direction set in the Strategic Framework, in particular:

(*i*) Theme 2: Environment and landscape values, Element 3.5.3 – Biodiversity, Element 3.5.5 – Scenic amenity

(b) protect and buffer areas of environmental significance from inappropriate development.

The purpose of the code will be achieved through the following overall outcomes:

(a) Development is generally restricted to a dwelling house;
(b) Adverse impacts on natural systems, both on-site and on adjoining land are minimised through the location, design and management of development;

(c) Development reflects and responds to the natural features and environmental values of the area;

(d) Visual impacts are minimised through the location and design of

development;

(e) Development does not adversely affect water quality;

(f) Development responds to land constraints, including but not limited to topography, vegetation, bushfire, land slide and flooding.

The proposal to develop a Dwelling house on the site is compliant with the Purpose statement and Overall Outcomes for the zone code.

PERFORMANCE	ACCEPTABLE	COMMENT
OUTCOMES	OUTCOMES	
PO1 The height of all buildings and structures is in keeping with the natural characteristics of the site. Buildings and structures are low-rise and not unduly visible from external sites.	AO1.1 Buildings and structures are not more than 8.5 metres and two storeys in height. Note – Height is inclusive of the roof height. AO1.2 Buildings have a roof height not less than 2	The majority of the Dwelling complies with the 8.5 metre height requirement and where there are areas of non- compliance, due to the topography of the site, the use of a skillion roof reduces the bulk of the building so that the Performance Outcome is achieved.
PO2 Buildings and structures are set back to: (a) maintain the natural character of the area; (b) achieve separation from neighbouring buildings and from road frontages.	AO2 Buildings and structures are set back not less than: (a) 40 metres from the frontage of a state controlled road; (b) 25 metres from the frontage to Cape Tribulation Road; (c) 6 metres from any other road; (d) 6 metres from the side and rear boundaries of the site.	 (a)Not applicable; (b)Not applicable; (c)Dwelling non-compliant with setback to one road frontage; and swimming pool structure intrudes into other road frontage; (d)Dwelling non-compliant with side and rear boundary setbacks. However the site is a corner site that is constrained by slope and cross-slope topography and the fact that the site is nearly square in shape results in a lack of utility for the conventional layout of a Dwelling on the

sit	e.
<u>Ro</u>	ad Frontage Setbacks
Th has me bou roa 3 set bou fro Ho sid set acc sho bui me of the and me pri ach	e proposed Dwelling s a setback of over 7 tres from the front indary and primary id frontage but only a metre and 2 metre back from the side indary and road ntage. wever, the reduced e boundary/road back is considered eptable as it is the ortest length of ilding intrusion at 14 tres or less than 60% the entire length of e side/road boundary d coupled with the 7 tre setback from the mary road frontage nieves good
sep and cha lar, tha of	baration from the road d is not out of aracter with other ge Dwellings nearby t dictate the character the area.
Th stru int but und the loc fro and hei WI fen in	e swimming pool acture encroaches o the 6 metre setback is visually obtrusive, except for retaining wall ated nearly 1 metre m the front boundary 1 having a maximum ght of 3 metres. nile solid boundary ces are commonplace the area, the use of
lan scr the	een planting within (nearly) metre

		setback would assist in
		reducing the impact of
		this boundary/retaining
		wall.
		The rear boundary
		setback and the other
		side boundary setback
		are also non-compliant
		but due to the sloping
		topography of the and
		the orientation of the
		the origina house and the
		aujoining nouse and the
		architectural screening
		included on the
		proposed house it is
		considered that the
		reduced side/rear
		boundary setbacks will
		not compromise the
		amenity or character of
		the locality and
		compliance can be
		achieved in relation to
		all non-compliant
		setbacks with the
		Performance outcomes -
		to maintain the natural
		character of the area and
		achieve separation from
		neighbouring buildings
		and from road frontages.
<i>PO3</i>	A03	
Development is consistent	Inconsistent uses as	Complies – a Dwelling
with the purpose of the	identified in	is considered to be an
Environmental	Table 6.2.4.3.b are not	acceptable land use.
management zone and	established in the	
protects the zone from the	Environmental	
intrusion of inconsistent	management zone.	
uses.		
<i>PO4</i>	A04	
The site coverage of all	No acceptable outcomes	Complies – the site
buildings and structures	are prescribed.	cover is 47% and is
and associated services do		compatible, and in some
not have an adverse effect		instances less than, the
on the environmental or		site cover of nearby
scenic values of the site.		residential development.
P05	A05.1	
Development is located,	Buildings, structures and	

designed, operated and managed to respond to the characteristics, features and constraints of the site and its surrounds. Note - Planning scheme policy – Site assessments provides guidance on identifying the characteristics, features and constraints of a site and its surrounds.	associated access, infrastructure and private open space are sited: (a) within areas of the site which are already cleared; or (b) within areas of the site which are environmentally degraded; (c) to minimise additional vegetation clearing.	(a) Complies;(b) Complies;(c) Complies.
	AO5.2 Buildings and structures and associated infrastructure are not located on slopes greater than 1 in 6 (16.6%) or on a ridgeline.	Complies
PO6 Buildings and structures are responsive to steep slope through innovative construction techniques so as to: (a) maintain the geotechnical stability of slopes; (b) minimise cut and/or fill; (c) minimise the	AO6.1 Where development on land steeper than 1 in 6 (16.6%) cannot be avoided, development follows the natural contours of the land and single plane concrete slab on-ground methods of construction are not utilised.	N/A
overall height of development.	AO6.2 Access and vehicle manoeuvring and parking areas are constructed and maintained to: (a) minimise erosion; (b) minimise cut and fill; (c) follow the natural contours of the site.	Complies
PO7 The exterior finishes of buildings and structures are consistent with the surrounding natural	A07 The exterior finishes and colours of buildings and structures are non- reflective and are	The site is not a typical Environmental Management zoned site as it is located in a

environment.	moderately dark to darker shades of grey, green, blue and brown or the development is not visible external to the site.	nearly fully developed urban area. It is considered that compliance is achieved with the Performance outcome.
PO8 Development does not adversely affect the amenity of the zone and adjoining land uses in terms of traffic, noise, dust, odour, lighting or other physical or environmental impacts.	A08 No acceptable outcomes are prescribed.	The development of the site for a Dwelling house is the preferred form of development and given the size and slope of the site a Dwelling house is really the only form of development suitable for the site. The site and the surrounding area is residential in character and amenity and adding another Dwelling house is entirely appropriate and will not adversely affect the amenity
P09	A09	
The density of development ensures that the environmental and scenic amenity values of the site and surrounding area are not adversely affected.	The maximum residential density is one dwelling house per lot.	Complies
PO10 Lot reconfiguration results in no additional lots. Note- Boundary realignments to resolve encroachments and lot amalgamation are considered appropriate.	A010 No acceptable outcomes are prescribed.	Not applicable

The proposed development of the site for a Dwelling house generally complies with the relevant provisions of the zone code and where non-compliant it is considered that compliance is achieved with the Performance outcomes.

5.2 Port Douglas/Craiglie Local Plan Code

Purpose

The purpose of the Port Douglas/Craiglie local plan code is to facilitate development outcomes consistent with community values, the local tropical built -form and protection of the natural environment within the Port Douglas/Craiglie local plan area, while providing a platform for investment and prosperity.

In addition, the purpose of the code is supported by the Port Douglas Waterfront Master Plan which provides a clear strategic direction for the incremental transformation of the Port Douglas Waterfront, including the following objectives:

- (a) To set out a vision for revitalisation of the waterfront;
- (b) To protect and enhance the environmental attributes; and
- (c) To provide a flexible framework, expressed through several key strategies that will assist the Council and community in managing change.

The purpose of the code will be achieved through the following overall outcomes:

- (a) Port Douglas will continue to develop as the premium destination for international and domestic tourists in the Far North Queensland Region, while also acting for permanent residents attracted to the associated lifestyle.
- (b) Major tourist, retail, dining and entertainment facilities will consolidate in the Town Centre and the Waterfront North sub-precincts, with improved pedestrian connections between the town centre and the waterfront.
- (c) Craiglie will develop as an integrated residential community with some low scale tourism development opportunities in appropriate locations. Craiglie will also function as small scale commercial and light industry node, providing employment opportunities for the Shire's permanent resident population.
- (d) All forms of development will complement the tropical image of the town through distinctive tropical vernacular, urban design and landscaping.
- (e) Character will be enhanced through the identification of gateway sites, landmarks, main approach routes and pedestrian thoroughfares and view corridors;
- (f) The Flagstaff Hill, Dickson Inlet, Four Mile Beach and other areas of scenic and environmental significance will be protected from development. Vegetation cover will dominate over built form.
- (g) Vegetation, iconic to the character of Port Douglas, including the avenues of Oil Palms, is retained and where appropriate supplemented.
- (h) Development will be indistinguishable from view from Four Mile Beach. In addition, any development on Flagstaff Hill will be indistinguishable when viewed from vantage points in Port Douglas.
- *(i) Residential areas are designed as pleasant, functional and distinctive, in visually well-defined areas.*

The purpose of the code will be further achieved through the following overall outcomes:

(a) Precinct 1 – Port Douglas precinct

Sub-precinct 1a – Town Centre sub-precinct

Sub-precinct 1b – Waterfront North sub-precinct

Sub-precinct 1c –Waterfront South sub-precinct

Sub-precinct 1d –Limited Development sub-precinct

Sub-precinct 1e -Community and recreation sub-precinct

Sub-precinct 1f-Flagstaff Hill sub-precinct

(b) Precinct 2 –Integrated Resort precinct

(c) Precinct 3 – Craiglie Commercial and Light Industry precinct

(d)Precinct 4 –Old Port Road / Mitre Street precinct

(e)Precinct 5 –Very Low DensityResidential/Low Scale Recreation/Low Scale Educational/Low Scale Entertainment Uses precinct

Precinct 1 –

Port Douglas precinct

In addition to the overall outcomes, the outcomes sought for the precinct are to ensure that:

(a) development will contribute to the incremental transformation of the township, preserving and enhancing maritime activities and environmental areas, delivering tropical open spaces and a high quality public realm, and allowing for tourism opportunities and investment.

(b) development contributes to the enhancement of the Port Douglas precinct through the following development outcomes:

(i) access and connectivity throughout the township is enhanced through a series of improvements to circulation and mobility, including:

(A) access to, and connectivity along, the waterfront and foreshore areas is maintained and, where appropriate, enhanced;

(B) reducing reliance on the waterfront as a car parking resource.

(ii) the use of land in the Port Douglas precinct improves the cohesive layout of the township through:

(A) the establishment of distinct sub-precincts that reinforce the character and built form of the Port Douglas local plan area including:

Port Douglas centre sub-precinct 1a – Town Centre sub-precinct;

Port Douglas centre sub-precinct 1b – Waterfront North sub-precinct;

Port Douglas centre sub-precinct 1c – Waterfront South sub-precinct;

Port Douglas centre sub-precinct 1d - Limited development sub-precinct;

Port Douglas centre sub-precinct 1e –Community and recreation precinct;

Port Douglas centre sub-precinct 1f –Flagstaff Hill sub-precinct; (B) facilitating marina facilities and supporting marine

industry uses as a key part of the local economy;

(C) reducing conflict between industry, community and commercial activities in the waterfront, without diminishing the marine industry capacity in the Port Douglas precinct;

(iii) environment and sustainability is integrated into the township through: (A) preservation and enhancement of the qualities and characteristics of environmental areas of the township; (B) water sensitive urban design is considered as a means of water quality improvement and management of overland flow to ensure hard infrastructure solutions in Warner Street can be mitigated; (C) design of buildings and access way improvements prioritises walking and cycling modes of transport. (iv) the tropical character of the Port Douglas precinct is enhanced by ensuring development: (A) maintains and enhances the built form, local character, streetscapes and natural elements of the township; (B) is compatible with the desired character and amenity of local places and neighbourhoods; (C) does not exceed the height of buildings designations which contribute to the desired form of the township which contains three storey development heights in sub-precinct 1a – Town Centre sub-precinct and part of *sub-precinct 1b* –*Waterfront North sub-precinct;* (D) implements high quality landscaped environments around buildings and on streets; (E) protects the recognisable character and locally significance sites throughout the precinct. (v) public spaces and the streetscape are enhanced through: (A) an increase in the quantity and quality of public land and places throughout the precinct; (B) consolidating community recreation and sporting uses to create a precinct of community focussed activity between Mudlo Street and Wharf Street; (*C*) improved connections between the town centre and the waterfront marina, including an investigation of a plaza on the waterfront; (D) improved streetscapes with high quality landscaping, surface treatments and shaded pedestrian environments; (*E*) the creation of a sense of place through aesthetic streetscapes and built-form character; (*F*)managing vegetation to ensure succession of planting and the ongoing presence of significant trees. (vi) advertising signage is small scale, low-key and complements the tropical character of the town. Sub-precinct 1a – Town Centre..... Sub-precinct 1f-Flagstaff Hill sub-precinct In addition to all other overall development outcomes, development in the Flagstaff Hill sub-precinct facilitates the following development outcomes: (a) development is not established where it results in detriment to the

vegetated and scenic qualities of Flagstaff Hill;

(b) development minimises excavation and filling;

(c) buildings and other works are unobtrusive when viewed from vantage points in Port Douglas and are designed and constructed of colours and materials which complement the hill's vegetated state

(d) views from public viewing points within the precinct are protected.

Development on Flagstaff Hill is typically characterized by high-end development and the proposed Dwelling house is no exception. In order to achieve the outcomes sought for Sub-precinct 1f the Dwelling house has been architecturally designed to complement surrounding housing and a Landscape Plan has been prepared to ensure compliance with the other objectives for development on Flagstaff Hill. Compliance with the Purpose statement and Overall outcomes for the Local Plan – sub precinct 1f area have been satisfied and are addressed in more detail below.

PERFORMANCE OUTCOMES	ACCEPTABLE OUTCOMES	COMMENT
Development in the Port Doug	las/Craiglie local plan area ge	nerally
PO1 Pedestrians, cyclists, motorists and public transport users can easily move into and through the precinct along planned connectivity routes, identified on the Port Douglas / Craiglie local plan maps contained in Schedule 2.	AO1 A pedestrian and cycle movement network is integrated and delivered through development.	Wharf Street is identified as a main road providing access to the Four Mile Beach lookout. The site has two frontages to Wharf Street and the car access point is considered to be sited in the best location for safety and general local and tourist vehicle circulation in the immediate area.
<i>PO2</i>	A02.1	The site is nearly
Development retains and enhances key landscape elements including character trees and areas of significant vegetation contributing to the character and quality of the local plan area and	Development provides for the retention and enhancement of existing mature trees and character vegetation that contribute to the lush tropical character of the town including:	devoid of vegetation except for two Poinciana trees which are proposed to be removed from the site to make way for the Dwelling
significant views and	(a) the tree covered	house. Another

vistas and other	backdrop of Flagstaff Hill;	Poinciana on the
landmarks important to the	(b) natural vegetation	road reserve/verge
context of Port Douglas /	along watercourses, in	area is proposed to
Craiglie (as identified on the	particular the Mowbray	be retained.
Port Douglas/ Craiglie	River, Beor Creek and	
Townscape Plan map	Dickson Inlet;	
contained in Schedule 2).	(c) the tidal vegetation	
	along the foreshore;	
	(d)beachfront vegetation	
	along Four Mile Beach,	
	including the fringe of	
	Coconut Palms;	
	(e)the oil palm avenues	
	along the major roads;	
	(f) the lush landscaping	
	within major roundabouts at	
	key nodes;	
	(g)Macrossan Street and	
	Warner Street;	
	(h)Port Douglas waterfront.	
	A02.2	
	Development protects and	
	does not intrude into	
	important views and vistas	
	as identified on the Port	
	Douglas Townscape Plan	
	map contained in Schedule	
	2, in particular:	
	(a) Flagstaff Hill;	
	(b) Four Mile Beach;	
	(c) Across to the ranges	The site is not
	over Dickson Inlet;	located so that
	(d) Mowbray Valley.	development on
		the site will
	A02.3	intrude into
	Important landmarks,	important views
	memorials and monuments	and vistas. Rather,
	are retained.	the development
		of this vacant site
		for a Dwelling
		house will
		improve what is
		an unsightly
		corner on Wharf
		Street on the way
		up to the Four
		Mile Beach
		lookout.

		Not applicable
PO3 Development contributes to the protection, reinforcement and where necessary enhancement of gateways and key intersections identified on the Port Douglas / Craiglie local plan maps contained in Schedule 2.	AO3 Development adjacent to the gateways and nodes as identified on the PortDouglas/Craiglie local plan maps contained in Schedule 2 incorporates architectural features and landscaping treatments and design elements that enhance the sense of arrival and way finding within the town.	Not applicable
PO4 Landscaping of development sites complements the existing tropical character of Port Douglas and Craiglie.	AO4 Landscaping incorporates the requirements of Planning scheme policy SC6.7 – Landscaping, in particular landscaping should be capable of achieving a 60% screening of development within 5 years and predominantly consists of endemic vegetation.	A Landscape Plan has been submitted with this Application. The Plan incorporates palms, shrubs, gingers and Heliconia, ornamental grass and tropical climbers which complement the tropical character of Port Douglas and the local area, in particular. The 15 Lipstick palms to be planted along the site frontage adjacent to the retaining wall and corner truncation will be planted from 100L containers to provide good height immediately

	The 3 fan palms to be planted adjacent to the western side boundary and the nearest neighbour will be planted in a cluster from 45L containers to provide good, immediate screening.
	The 12 raphis palms, to be planted adjacent to the western side boundary and the nearest neighbour will be planted in a cluster from 33mm contain in several years.
	Compliance is achieved.
AO5 Direct access is not provided to a State- controlled road where legal and practical access from another road is available. For assessable development Additional requirements in Precinct 1 –Port Douglas precinct.	Not applicable
ub-precinct If –Flagstaff Hill	sub-precinct
AU63 No acceptable outcomes are prescribed.	A Dwelling house is the most appropriate form of development for the site and the proposed Dwelling house is in character with existing high- end
	AO5 Direct access is not provided to a State- controlled road where legal and practical access from another road is available. For assessable development Additional requirements in Precinct 1 –Port Douglas precinct. ub-precinct 1f –Flagstaff Hill AO63 No acceptable outcomes are prescribed.

		immediate and
		local area.
P064	A064	
All development on Flagstaff	No acceptable outcomes are	The design of the
Hill is designed to minimise	prescribed.	Dwelling house
the visibility of the		provides for a
development and to		light-frame
ensure development is		skillion roof, large
subservient to the natural		overhangs,
landscape and topography of		expanses of glass
the site, including through:		and timber screens
(a)building design which		and stone
minimises excavation and		cladding.
filling;		
(b)buildings being designed		The Landscape
to step down the site and		Plan will ensure
incorporate foundations and		the built form sits
footings on piers or poles;		well within
(c) buildings being visually		established
unobtrusive and		landscaped
incorporating exterior		grounds.
finishes and muted colours		
which are non-reflective and		
complement the colours of the		
surrounding vegetation and		
view-shed;		
(d)protection of the views		
from public viewing points in		
the Port Douglas precinct.		

It is considered that the proposed Dwelling house is generally compliant with the relevant provisions of the Port Douglas/Craiglie Local Plan Code

5.3 Acid Sulfate Soils Overlay Code

Purpose

(1) The purpose of the acid sulfate soils overlay code is to: (a)implement the policy direction in the Strategic Framework, in particular:

(i) Theme 2: Environment and landscape values, Element 3.5.4 Coastal zones.

(*ii*) Theme 3: Natural resource management, Element 3.6.2 land and catchment management, Element 3.6.3 Primary production, forestry and fisheries.

(b)enable an assessment of whether development is suitable on land within the Acid sulfate soils overlay sub-categories.

(2) The purpose of the code will be achieved through the following overall

outcomes:

(a)Development ensures that the release of any acid and associated metal contaminant is avoided by not disturbing acid sulfate soils when excavating, removing soil or extracting ground water or filling land;
(b)Development ensures that disturbed acid sulfate soils, or drainage waters, are treated and, if required, on-going management practices are adopted that minimise the potential for environmental harm from acid sulfate soil and protect

corrodible assets from acid sulfate soil.

It is considered that the site is unlikely to contain acid sulfate soils and no further consideration of the code is proposed.

5.4 Bushfire Overlay Code

Purpose

(1) *The purpose of the Bushfire overlay code is to:*

(a) implement the policy direction in the Strategic Framework, in particular:

(*i*) Theme 1 Settlement pattern: Element 3.4.7 Mitigation of hazards;

(ii) Theme 6 Infrastructure and transport: Element 3.9.2 Energy.

(b) enable an assessment of whether development is suitable on land within the Bushfire risk overlay sub-categories.

(2)*The purpose of the code will be achieved through the following overall outcomes:* (a)*development avoids the establishment or intensification of vulnerable activities within or near areas that are subject to bushfire hazard;*

(b) development is designed and located to minimise risks to people and property from bushfires;

(c) bushfire risk mitigation treatments are accommodated in a manner that avoids or minimises impacts on the natural environment and ecological processes;
(d)development involving the manufacture or storage of hazardous materials does not increase the risk to public safety or the environment in a bushfire event;
(e) development contributes to effective and efficient disaster management response and recovery capabilities.

The site is located in an urban area and is designated Potential Impact Buffer, presumably due to the area above the site on Flagstaff Hill that is vegetated and remains in a natural state. However, the site and immediately surrounding area is virtually fully cleared of native vegetation and the site has a formed bitumen road on two boundaries; the provisions of the code are not relevant to the site and it is not proposed to address this code.

5.5 Potential Landslide Hazard Overlay Code

Purpose

(1)The purpose of the Potential landslide hazard overlay code is:
(a)implement the policy direction of the Strategic Framework, in particular:
(i) Theme 1: Settlement pattern Element 3.4.7 Mitigation of hazards.
(b) enable an assessment of whether development is suitable on land within the Potential landslip hazard overlay.(2)

The purpose of the code will be achieved through the following overall outcomes: (a) development is located, designed and constructed to not put at risk the safety of people, property and the environment;

(b) development is not at risk from and does not pose a risk to adjacent and nearby sites from landslides;

(c) ensures that community infrastructure is protected from the effects of potential landslides;

(d) ensures that vegetation clearing, stormwater management and filling and/or excavation does not create a landslide hazard and/or rectifies potential preexisting landslide risks;

(e) development does not occur where works to provide a solution for safety of people, property or the environment involves complex engineering solutions to overcome the risk, or would result in a built form or outcome that causes an adverse visual impact on the Hillslopes or Landscape values of Douglas Shire.

A Geotechnical Report has been prepared for the site and is attached at Appendix 2. The site is impacted by the code and the development is assessed against the code provisions below.

PERFORMANCE	ACCEPTABLE	COMMENT
OUTCOME	OUTCOME	
P01	A01.1	
The siting and design of	Development is located	The building has been
development does not	on that part of the site	designed to step down
involve complex	not affected by the	the site and will be
engineering solutions	Potential landslide	structural certified in
and does not create or	hazard overlay.	accordance with the
increase the potential		requirements of the
landslide	or through:	Engineering Soil Report,
hazard risk to the site or		which requires Class P
adjoining premises	(a) building design;	footings, designed in
	(b) increased slope;	accordance with AS2870
	(c) removal of	- Residential Slabs and
	vegetation;	Footings – Construction.
	(d) stability of soil;	
	(e) earthworks;	
	(f) alteration of existing	
	ground water or surface	
	water paths;	
	(g) waste disposal areas.	
	A01.2	
	Development is on an	Refer to Appendix 2.
	existing stable, benched	
	site and requires no	
	further earthworks	
	or	
	A01.3	

	A competent person	Refer Appendix 2.
	certifies that:	
	(a)the stability of the site,	
	including associated	
	buildings and	
	infrastructure, will be	
	maintained during the	
	course of the	
	development and will	
	remain stable for the life	
	of the development:	
	(b)development of the	
	site will not increase the	
	risk of landslide hazard	
	activity on other land.	
	including land above the	
	site:	
	(c) the site is not subject	
	to the risk of landslide	
	activity on other land.	
	(d)any measures	
	identified in a site-	
	specific geotechnical	
	report for stabilising the	
	site or development have	
	heen fully implemented:	
	(a)development does not	
	concentrate existing	
	ground water and	
	surface water paths.	
	(f) development does not	
	(j) development does not incorporate on-site waste	
	water disposal	
	water alsposat.	
	Note – Planning scheme policy	
	SC6.9 – Natural hazards provides	
	guidance on preparing a site	
	specific geo-tecnnical assessment.	
	Note – Development may alter the	
	conditions of ground water and	
	surface water paths in	
	geotechnical report, but should	
	ensure that its final	
	disbursement is as	
	-per pre-aeveloped conditions. Consideration for location.	
	velocity, volume and quality	
	should	
POI	be given.	
The siting and design of	AU2 Excavation or fills	Does not comply with
The suing and design 0	Δπαναποπ στ μπ.	Does not comply with

necessary retaining	(a)is not more than 1.2	AO2 – however, the
structures does not cause	metres in height for each	Landscape Plan at
an adverse visual	batter or retaining	Appendix 3 shows that
impact on landscape	wall;(b)	the structure will not
character or scenic	is setback a minimum of	cause adverse impacts on
amenity quality of the	2 metres from	landscape character or
area.	property boundaries;	scenic amenity quality of
	(c) is stepped with a	the area – compliance is
	minimum 2 metre wide	achieved with the
	berm to incorporate	Performance outcome.
	landscaping in	
	accordance with	
	Planning scheme policy	
	SC6.7	
	– Landscaping;	
	(d)does not exceed a	
	maximum of 3 batters	
	and 3 berms (i.e. Not	
	greater than 3.6 metres	
	in height) on any one lot.	

The Geotechnical Soil Report is attached at Appendix 2.

5.6 Dwelling House Code

Purpose

(1)*The purpose of the Dwelling house code is to assess the suitability of development to which this code applies.*

(2)*The purpose of the code will be achieved through the following overall outcomes:*

(a)The dwelling house, including all habitable buildings on site, is occupied by a single household;

(b)A dwelling house, including a secondary dwelling or domestic out -buildings; ensures that the secondary dwelling is sub-ordinate to the primary dwelling house;

(c) Development of a dwelling house provides sufficient and safe vehicle access and parking for residents;

(d)The built form, siting, design and use of each dwelling is consistent with the desired neighbourhood character and streetscape elements of the area.

It is considered that the proposed Dwelling house is compliant with the relevant Purpose statement and Overall outcomes of the code.

PERFORMANCE OUTCOME	ACCEPTABLE OUTCOME	COMMENT
PO1		Net en l'estels
Secondary awellings:	The secondary awelling:	Not applicable

 (a) are subordinate, small-scaled dwellings; (b) contribute to a safe and pleasant living environment; (c) are established on appropriate sized lots; (d) do not cause adverse impacts on adjoining properties 	 (a) has a total gross floor area of not more than 80m2, excluding a single carport or garage; (b) is occupied by 1 or more members of the same household as the dwelling house. 	
PO2 Resident's vehicles are accommodated on- site.	AO2 Development provides a minimum number of on- site car parking spaces comprising: (a)2 car parking spaces which may being tandem for the dwelling house; (b)1 car parking space for any secondary dwelling on the same site.	Complies – double garage provided
Development is of a bulk and scale that: (a)is consistent with and complements the built form and front boundary setbacks prevailing in the street and local area; (b)does not create an overbearing development for adjoining dwelling houses and their private open space; (c) does not impact on the amenity and privacy of residents in adjoining dwelling houses; (d)ensures that garages do not dominate the appearance of the street.	Development meets the acceptable outcome for building height in the applicable Zone code associated with the site.	The proposed Dwelling house can satisfy the Performance outcome:- (a) the built form and front boundary setbacks in Wharf Street and in the local area are characterised by large high- end residences with high quality landscaping, the proposed Dwelling house is in character; (b) the proposed Dwelling house will not be imposing or overbearing and is orientated to the sea views it will not overlook adjoining

Dwalling houses:
Dwennig nouses,
(c) – the proposed
Dwelling house
will not impact
on privacy and
amenity of
residents in
adjoin houses
due to the use of
timber privacy
screens, large
overhangs and
large
indoor/outdoor
recreation areas;
(d) the garage is on
the same
alignment as the
house and is
sited on what is
considered to be
the secondary
road frontage, so
it does not
dominate the
streetscope
succiscape.

The proposed Dwelling house is compliant with the code.

5.7 Access, Parking and Services Code

Purpose

(1)The purpose of the Access, parking and servicing code is to assess the suitability of access, parking and associated servicing aspects of a development.

(2)*The purpose of the code will be achieved through the following overall outcomes:*

(a)sufficient vehicle parking is provided on-site to cater for all types of vehicular traffic accessing and parking on-site, including staff, guests, patrons, residents and short term delivery vehicles;

(b)sufficient bicycle parking and end of trip facilities are provided on-site to cater for customer and service staff;

(c) on-site parking is provided so as to be accessible and convenient, particularly for any short term uses;

(d) development provides walking and cycle routes through the site which link the development to the external walking and cycling network;

(e)the provision of on-site parking, loading /unloading facilities and the provision

of access to the site do not impact on the efficient function of street network or on the area in which the development is located;

(f) new vehicular access points are safely located and are not in conflict with the preferred ultimate streetscape character and local character and do not unduly disrupt any current or future on-street parking arrangements.

The proposal to develop a Dwelling house on the site is compliant with the relevant Purpose statement and Overall Outcomes for the code. Outlined below is an assessment against the relevant provisions of the code.

PERFORMANCE	ACCEPTABLE	COMMENT
OUTCOMES	OUTCOMES	
PO1	A01.1	
Sufficient on-site car	The minimum number of	Complies
parking is provided to	on-site vehicle parking	
cater for the amount and	spaces is not less than the	
type of vehicle traffic	number prescribed in	
expected to be generated	Table 9.4.1.3.b	
by the use or uses of the	for that particular use or	
site, having particular regard to:	uses.	
(a) the desired character	Note	
of the area;	- W here the number of spaces	
(b) the nature of the	whole number, the number of	
particular use and its	spaces provided is the next highest	
specific characteristics	whole number.	
and scale;	4010	
(c) the number of	AU1.2	Can be conditioned to
employees and the likely	Car parking spaces are	comply, if considered
number of visitors to the	Jreely available for the	necessary.
site;	parking of venicies at all	
(d) the level of local	times and are not used for	
accessibility;	the display of products or	
(e) the nature and	the display of products of ronted/sub leased	
frequency of any public	Teniea/sub-ieusea.	
transport serving the	4012	
area;	AUI.5 Parking for motorcycles is	Not applicable
(f) whether or not the use	Furking for motorcycles is	
involves the retention of		
an existing building and	A 01 A	
the previous	AUI.4 For parking greas	
requirements for car	arceading 50	
parking for the building	exceeding 50	
(g) whether or not the use	<i>spaces</i>	
involves a heritage		Not applicable
building or place of local		
significance;		
(h) whether or not the		
proposed use involves the		

retention of significant		
vegetation.	1.00	
PO2	AO2	
Vehicle parking areas are	Vehicle parking areas are	Complies
designed and constructed	designed and constructed	
in accordance with	in accordance with	
relevant standards.	Australian Standard:	
	(a)AS2890.1;	
	(b)AS2890.3;	
	(c)AS2890.6.	
<i>PO3</i>	A03.1	
Access points are	Access is limited to one	Complies
designed and	access cross over per	F
constructed:	site and is an access point	
(a) to operate safely and	located designed and	
afficiently:	constructed in accordance	
(b) to accommodate the	with:	
anticipated type and	(a) Australian Standard	Complias
unicipated type and	(a) Australian Sianaara	Compues
volume of venicles;	A52690.1;	
(c) to provide for shared	(b) Planning scheme	
vehicle (including	policy SC6.5 FNQROC	
cyclists) and pedestrian	Regional Development	
use, where	Manual - access	
appropriate;	crossovers.	
(d)so that they do not		
impede traffic or	A03.2	
pedestrian movement on	Access, including	
the adjacent road	driveways or access	
area;	crossovers:	
(e) so that they do not	(a)are not placed over an	
adversely impact upon	existing:	
existing intersections or	(i) telecommunications pit;	
future road or	(ii) stormwater kerb inlet;	
intersection	(iii)sewer utility hole;	
improvements;	(iv)water valve or hydrant.	
(f) so that they do not	(b)are designed to	
adversely impact current	accommodate any	Complies
and future on-street	adjacent footpath;	
parking arrangements;	(c) adhere to minimum	
(g) so that they do not	sight distance	
adversely impact on	requirements in	
existing services within	accordance with	
the road reserve adjacent	AS2980.1.	
to the site;		
(h)so that they do not	A03.3	
involve ramping, cutting	Driveways are:	
of the adjoining road	(a) designed to follow as	
reserve or any built	closely as possible to the	
structures (other than	existing contours, but are	

what may be necessary to	no steeper than the	
cross over a stormwater	gradients outlined in	
channel).	Planning scheme	
,	policy SC6.5 FNOROC	
	Regional	
	Development Manual:	
	(b) constructed such that	
	where there is a grade	
	shift to 1 in 4 (25%), there	
	is an area with a grade of	
	no more than 1 in in 6	
	(16.6%) prior to this area	
	for a distance of at least 5	
	metres:	
	(c) on gradients greater	
	(6) on gradients greater than 1 in 6 (16.6%)	
	driveways are constructed	
	to ensure the cross	
	-fall of the driveway is one	
	way and directed into the	
	hill for vehicle safety and	
	drainage purposes	
	(d) constructed such that	
	the transitional change in	
	grade from the road to the	
	lot is fully contained	
	within the lot and not	
	within the road reserve:	
	(e) designed to include all	
	necessary associated	
	drainage that intercents	
	and directs storm water	
	runoff to the storm water	
	drainage system	
	aramage system.	
	A03.4	
	Surface construction	Complies
	materials are consistent	Ĩ
	with the current or	
	intended future streetscape	
	or character of the area	
	and contrast with the	
	surface construction	
	materials of any adjacent	
	footpath.	

The proposed development complies with the relevant provisions of the code.

5.8 Filling and Excavation Code

Purpose

(1)The purpose of the Filling and excavation code is to assess the suitability of development for filling or excavation.

(2)*The purpose of the code will be achieved through the following overall outcomes:*

(a) filling or excavation does not impact on the character or amenity of the site and surrounding areas;

(b) filling and excavation does not adversely impact on the environment; (c) filling and excavation does not impact on water quality or drainage of

upstream, downstream or adjoining properties;

(d) filling and excavation is designed to be fit for purpose and does not create land stability issues;

(e) filling and excavation works do not involve complex engineering solutions.

Filling and excavation required to facilitate development of a Dwelling house on the site consists of:

- a cut to the rear boundary to lower the dwelling house to a ground level of 19.8 metres; and
- fill to the central area to raise the level to 19.8 metres; and
- some cut and some fill to lower level (due to the cross fall over the site) to achieve a level height of approximately 17 metres.

PERFORMANCE OUTCOMES	ACCEPTABLE OUTCOMES	COMMENTS
Filling and excavation -Ge	neral	
PO1 All filling and excavation work does not create a detrimental impact on the slope stability, erosion potential or visual amenity of the site or the surrounding area.	AO1.1 The height of cut and/or fill, whether retained or not, does not exceed 2 metres in height and Cuts in excess of those stated in A1.1 above are separated by benches/ terraces with a minimum width of 1.2 metres that incorporate drainage provisions and screen planting.	Complies – maximum cut 1.6 metres and maximum fill of 1.8 metres.
	A01.2 Cuts are supported by batters, retaining or rock walls and associated benches/terraces are capable of supporting mature vegetation. A01.3	Complies

	Cuts are screened from	Complies
		complies
	view by the siting of the	
	building/structure,	
	wherever possible.	
	_	
	A014	
	Tongoil from the site is	Can comply
	Topson from the site is	Call comply
	retained from reused on	
	benches/terraces.	
	A01.5	
	No crest of any cut or toe	Complies
	of any fill or any part of	complies
	any retaining wall or	
	structure is closer than	
	600mm to any boundary	
	of the property, unless	
	the prior written	
	approval of the adjoining	
	lanaowner nas been	
	obtained.	
	A01.6	
	Non-retained cut and/or	Complies
	fill on slopes are	1
	stabilised and protected	
	subilised and profected	
	against scour ana	
	erosion by suitable	
	measures, such as	
	grassing,	
	landscaping or other	
	nrotective/aesthetic	
	maguras	
Viewal Impact and Site Sta	heasures.	
visuai impaci ana sue sta		
	AU2.1	
Filling and excavation	The extent of filling and	Complies with the
are carried out in such a	excavation does not	Performance outcome
manner that the	exceed 40% of the site	
visual/scenic amenity of	area, or 500m2	
the area and the privacy	whichever is the lesser.	
and stability of adjoining	excent that	
nean submity of adjoining	AO2 1 does not apply to	
	AO2.1 abes not apply to	
compromisea.	reconfiguration of 5 lots	
	or more.	
	A02.2	
	Filling and excavation	
	does not occur within	
	2 metres of the site	

	boundary.	
Flooding and drainage		
P03	AQ3.1	
Filling and excavation does not result in a change to the run off characteristics of a site which then have a detrimental impact on the	Filling and excavation does not result in the ponding of water on a site or adjacent land or road reserves.	The site has two street frontages – lawful points of discharge, all on site storm water can be managed efficiently.
site or nearby land or adjacent road reserves.	AO3.2 Filling and excavation does not result in an increase in the flow of water across a site or any other land or road reserves.	Compliance can be achieved or conditioned to comply with AO3.1, AO3.2, AO3.3 and AO3.4
	AO3.3 Filling and excavation does not result in an increase in the volume of water or concentration of water in a watercourse and overland flow paths.	
	AO3.4 Filling and excavation complies with the specifications set out in Planning Scheme Policy No SC5 – FNQROC Development Manual.	
Water quality	•	
PO4 Filling and excavation does not result in a reduction of the water quality of receiving waters.	AO4 Water quality is maintained to comply with the specifications set out in Planning Scheme Policy No SC5 – FNQROC Development Manual.	Can be conditioned to comply
Infrastructure	Γ	Γ
PO5 Excavation and filling does not impact on Public Utilities.	AO5 Excavation and filling is clear of the zone of influence of public utilities	Can be conditioned to comply



The proposed development generally complies with the relevant provisions of the code.

5.9 Infrastructure Works Code

Purpose
(1)The purpose of the Infrastructure works code is to ensure that development is safely and efficiently serviced by, and connected to, infrastructure.
(2)The purpose of the code will be achieved through the following overall outcomes:
(a) the standards of water supply, waste water treatment and disposal, stormwater drainage, local electricity supply, telecommunications, footpaths and road construction meet the needs of development and are safe and efficient;
(b) development maintains high environmental standards;
(c) development is located, designed, constructed and managed to avoid or minimise impacts arising from altered stormwater quality or flow, wastewater discharge, and the creation of non-tidal artificial waterways;
(d) the integrity of existing infrastructure is maintained;
(e) development does not detract from environmental values or the desired character and amenity of an area.

The proposed development is located in a well- established urban area and the site is zoned for the intended use. All reticulated services, roads, garbage collection are available to the site. The site has two street frontages and so has two lawful points of discharge for stormwater.

It is not proposed to assess the developing against the code as many of the requirements are not relevant to a Dwelling house development in an established urban area.

5.10 Landscaping Code

Purpose

(1)The purpose of the Landscaping code is to assess the landscaping aspects of a development.
(2)The purpose of the code will be achieved through the following overall outcomes:

(a)The tropical, lush landscape character of the region is retained, promoted and enhanced through high quality landscape works;
(b)The natural environment of the region is enhanced;
(c) The visual quality, amenity and identity of the region is enhanced;
(d)Attractive streetscapes and public places are created through landscape design;
(e)As far as practical, existing vegetation on site is retained, and protected during works and integrated with the built environment;
(f) Landscaping is provided to enhance the tropical landscape character of development and the region;

(g)Landscaping is functional, durable, contributes to passive energy conservation and provides for the efficient use of water and ease of ongoing maintenance;
(h)Landscaping takes into account utility service protection;
(i) Weed species and invasive species are eliminated from development sites;

(j) Landscape design enhances personal safety and incorporates CPTED principles.

A Landscape Plan has been prepared for the site and is attached at Appendix 3. An assessment of the proposed development and the supporting Landscape Plan against the relevant provisions of the code is outlined below.

PERFORMANCE	ACCEPTABLE	COMMENTS
OUTCOMES	OUTCOMES	
Landscape design		
P01	A01	
Development provides	Development provides	Refer Appendix 3 -
landscaping that	landscaping:	Landscape Plan
contributes to and creates	(a)in accordance with the	
a high quality	minimum area,	
landscape character for	dimensions and other	
the site, street and local	requirements of	
areas of the Shire by:	applicable development	
(a)promoting the Shire's	codes;	
character as a tropical	(b)that is designed and	
environment;	planned in a way that	
(b)softening the built form	meets the guidelines for	
of development;	landscaping outlined	
(c) enhancing the	in Planning Scheme Policy	
appearance of the	SC6.7 – Landscaping;	
development from within	(c) that is carried out and	
and outside the	maintained in accordance	
development and makes a	with a landscaping plan	
positive	that meets the guidelines	
contribution to the	for landscaping outlined in	
streetscape;	Planning Scheme Policy	
(d)screening the view of	SC6.7–Landscaping.	
buildings, structures,		
open storage areas,	Note - Planning scheme	
service equipment,	policy SC6.7 –	
machinery plant and the	Landscaping provides	
like from public	guidance on meeting the	
places, residences and	outcomes of this code. A	
other sensitive	landscape plan submitted	
development;	for approval in	
(e) where necessary,	accordance with the	
ensuring the privacy of	Planning policy is one way	
habitable rooms and	to achieve this outcome.	
private outdoor		
recreation areas;		

(f) contributing to a		
comfortable living		
environment and improved		
energy efficiency, by		
providing shade to reduce		
glare and heat absorption		
and re-radiation from		
buildings, parking areas		
and other hard surfaces;		
(g)ensuring private		
outdoor recreation space		
is useable:		
(h)providing long term soil		
erosion protection:		
(i) providing a safe		
environment:		
(i) integrating existing		
(j) integrating existing		
natural features of the		
natural jeannes of the		
development.		
(k) not a dy ang aly affecting		
(K) not aaversely affecting		
venicular ana		
pedestrian signifines and		
roda safety.	4.00.1	
	AO2.1	
Lanascaping contributes	No acceptable outcomes	Kefer Appendix 3 –
to a sense of place, is	are specifiea.	Landscape Plan
functional to the		
surroundings and	Note - Landscaping is in	
enhances the streetscape	accordance with the	
and visual appearance of	requirements specified in	
the development.	Planning scheme policy	
	SC6.7 – Landscaping.	
	A02.2	
	Tropical urbanism is	
	incorporated into building	
	design.	
	Note – 'Tropical	
	urbanism' includes many	
	things such as green walls,	
	green roofs, podium	
	planting and vegetation	
	incorporated into the	
	design of a building.	
DOI		
P03	A03.1	

landscaping that is, as far as practical, consistent	is retained and incorporated into the site	Landscape Plan
with the existing desirable	design, wherever possible, utilising the methodologies	
area and protects trees,	and principles outline in	
vegetation and other	AS4970-2009 Protection	
features of ecological,	of Trees on Development	
cultural value.	siles.	
	A03.2	
	Mature vegetation on the	
	site that is removed or	
	damagea auring development is replaced	
	with advanced species.	
	I I I I I I I I I I I I I I I I I I I	
	A03.3	
	Where there is an existing	
	street or locality which	
	results from existing	
	vegetation, similar species	
	are incorporated into new	
	aevelopment.	
	A03.4	
	Street trees are species	
	which enhance the	
	streetscape. with	
	species chosen from the	
	Planning scheme policy	
	SC6.7 –Landscaping.	
PO4	A04	
Plant species are selected	Species are selected in	Refer Appendix 3 -
with consideration to	accordance with Planning	Landscape Plan
the scale and form of	scheme policy SC6.7 –	
aevelopment, screening, buffering streetscape	Lanascaping.	
shading and the locality of		
the area.		
	A05	
Shade planting is provided	Species are selected in	N/A
uncovered or open and	scheme policy SC6.7 –	
adjacent to driveways and	Landscaping.	
internal roadways.	- ~	
PO6	A06.1	

Landscaped areas are	A maintenance program is	Refer Appendix 3 –
designed in order to allow	undertaken in accordance	Landscape Plan
for efficient maintenance	with Planning scheme	Landscupe I hun
jor ejjicieni mainienance.	nolicy SC6 7	
	Landsoaping	
	Lanascuping	
	A06.2	
	Tree maintenance is to	
	have regard to the Safe	
	Useful Life Expectancy of	
	Trees (SIII F)	
	Trees (BOLL).	
	Note	
	– It may be more	
	appropriate to replace	
	trees with a SULE of less	
	than 20 years (as an	
	example). and replant with	
	vounger healthy species.	
<i>P07</i>	A07.1	
Podium planting	Podium planting beds are	N/A
is provided with	provided with irrigation	
appropriate	and are connected to	
species for long term	stormwater infrastructure	
survival and ease of	to permit flush out	
maintenance with heds	io permit frash out.	
canable of proper	4072	
drainage	Species of plants are	
urumage.	selected for long term	
	performance designed to	
	suit the dearge of access to	
	nodiums and roof tons for	
	maintenance	
P08	A 08	
Development provides for	Weed and invasive species	Refer Appendix 3 –
the removal of all weed	detected on a development	Landscape Plan
and invasive species and	site are removed in	
implement on-going	accordance with a	
measures to ensure that	management plan	
weeds and invasive species	prepared by an	
do not reinfest the site and	appropriately aualified	
nearby premises.	person.	
<i>P09</i>	A09	
The landscape design	No acceptable outcomes	Refer Appendix 3 –
enhances personal safety	are specified.	Landscape Plan
and reduces the potential	A U	······
for crime and vandalism.	Note - Planning scheme	
	policy SC6.3 – Crime	
	prevention through	

	environmental design (CPTED) provides guidance on meeting this outcome.	
PO10 The location and type of plant species does not adversely affect the function and accessibility of services and facilities and service areas.	AO10 Species are selected in accordance with Planning scheme policy SC6.7 – Landscaping.	Refer Appendix 3 – Landscape Plan

Compliance is achieved with the Landscaping code.

6.0 CONCLUSION

The proposed development of a Dwelling house on the site is the highest and best use of the land and is the expected type of development under the planning scheme.

The proposed development will be complementary to surrounding high-end housing in the local area and contribute to the residential amenity of the area.

The Application is recommended to Council for approval.

E A TAYLOR FEBRUARY, 2018 **APPENDIX: 1**

DESIGN LOADS

1. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING LOADING CODES:

AS 1170.1 - DEAD & LIVE LOADS & LOAD COMBINATIONS. LIVE LOAD - UNITS - GENERAL. = 1.5kPA. STAIRS BALCONIES & CORRIDORS = 3.0kPA

S20

CORE FILL

CONCRETE 1. ALL CONCRETE									
ELEMENT	CONC. GRADE.	SLUMP AGG.	MAX. SIZE TYPE	C'MENT	ADMIXTURE				
GROUND LEVEL FOUNDATION SLABS	N25	80	20	GP	-				
SUSPENDED SLABS	INTERNAL N32 EXTERNAL N40	80	20	GP	-				

WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF AS 3600 AND AS 1379, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS. 2. CONCRETE QUALITY: CONCRETE GRADE TO BE CONCRETE CHARACTERISTIC STRENGTH (fc) AT 28 DAYS. METHOD OF PLACEMENT - PUMPED TYPE OF ASSESSMENT - PROJECT

250 10 GP

3. ALL CONCRETE TO BE ADEQUATELY VIBRATED. 4. NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. PIPES OR ELECTRICAL CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER THE CONCRETE COVER TO EMBEDDED PIPES OR CONDUITS SHALL BE A MIN OF 20mm 5. CONSTRUCTION JOINTS SHALL BE MADE ONLY WHERE SHOWN ON THE DRAWINGS OR WHERE APPROVED

BY THE ENGINEER 6. BEAM DEPTHS ARE DESIGNATED FIRST AND INCLUDE SLAB THICKNESS. IF ANY. 7. UNDERPINNING WHERE NOT SHOWN ON DRAWINGS MUST BE APPROVED BY THE ENGINEER. FOR

NDERPINNING ONLY, fc = 15MPa. 8. ALL CONCRETE SURFACES SHALL BE CURED BY AN APPROVED METHOD FOR SEVEN DAYS IMMEDIATELY AFTER THE CONCRETE IS SET.

9. ALL FORMWORK AND PROPPING TO SUSPENDED SLABS AND BEAMS SHALL REMAIN IN POSITION FOR 14 DAYS AFTER PLACING CONCRETE UNLESS SPECIFIED OTHERWISE. SUCH FLOOR SHALL REMAIN UNLOADED FOR 28 DAYS. 10. FLOOR SLABS ON GROUND : ALL TOP SOIL AND UPPER STRATA CONTAINING ORGANIC MATTER IS TO BE REMOVED AND REPLACED BY AN APPROVED FILLING MATERIAL COMPACTED AS FOLLOWS:- COHESIONLESS

SOILS - MINIMUM DENSITY INDEX = 85% COHESIVE SOILS - (MAX P.I. = 15%) = 98% STANDARD COMPACTION. 11. BUILDER TO PROVIDE MORTAR UNDER STEEL COLUMNS, BASEPLATES AS SPECIFIED. 12. ALL REINFORCEMENT TO COMPLY WITH THE CURRENT EDITIONS OF AS 1302, AS 1303, AS 1304 AND SHALL BE DESIGNATED THUS : N DEFORMED BARS GRADE 500 PLUS Y HOT ROLLED DEFORMED BARS GRADE 400Y R PLAIN ROUND BARS GRADE 250R F WELDED WIRE FABRIC GRADE 450F W STEEL WIRE, PLAIN AND DEFORMED. GRADE 450W ALL FABRIC SHALL BE SUPPLIED IN FLAT SHEETS. 13. WELDING OF THE REINFORCEMENT ISN'T PERMITTED UNLESS SHOWN

SITE PREPERATION

1. SITE PREPARATION SHALL GENERALLY CONSIST OF CLEARANCE OF VEGETATION FOLLOWED BY EXCAVATION OF WATERPROOFING 2. PROVISION SHALL BE MADE FOR THE DEMOLITION OF ANY EXISTING BUILDINGS INCLUDING BREAKING UP AND REMOVAL OF ANY OLD FOOTINGS, SERVICE PIPES, SEPTIC TANKS ETC WHICH MAY INTERFERE WITH THE NEW CONSTRUCTION, ANY SOIL DISTURBED BY DEMOLITION SHALL BE RE-COMPACTED. 3. IN THE PROPOSED ON GROUND FLOOR SLAB SUPPORT AND PAVEMENT AREAS, THE EXPOSED SUBGRADE SHALL BE UNIFORMLY COMPACTED TO ACHIEVE A DRY DENSITY RATIO OF NOT LESS THAN 98% OF THE MAXIMUM SATURATED VIBRATED DENSITY (AS 1289 TESTS 5.3.1 & 5.5.1). SUBGRADE COMPACTION SHALL BE ACCOMPANIED BY CONTACT WITH GROUND & APPLY STRICTLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. GENERAL INSPECTION TO ALLOW DETECTION AND RECTIFICATION OF ANY LOCALISED COMPRESSIBLE ZONES

WHICH MAY EXIS 4. ANY FILLING PLACED IN THE BUILDING AND PAVEMENT AREAS SHALL BE UNIFORMLY COMPACTED IN LAYERS OF NOT MORE THAN 200mm FINAL THICKNESS UNDER LEVEL 3 SUPERVISION (AS 3798-1990 GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS) TO THE MAX DRY DENSITY RATIO OF 98% SRDD (EXPRESSED AS A % OF THE MAXIMUM VIBRATED DENSITY ESTABLISHED BY TEST METHODS AS 1289 5.3.1 5.4.1 AND 5.5.1 FOR COHENSIONLESS (SAND) MATERIALS OR ALTERNATIVELY, STANDARD COMPACTION IF

APPROPRIATE.) 5. ANY IMPORTED FILL SHALL COMPRISE OF LOW PLASTICITY GRANULAR MATERIAL WITH A PLASTICITY INDEX NOT MORE THAN 15%. SAND CUT FROM BASEMENT AREA SHOULD BE SUITABLE FOR REUSE AS FILLING. 6. FILLING SHOULD BE RETAINED OR BATTERED TO A SLOPE OF NO STEEPER THAN 1h:1v. ALL EXPOSED FILLING SHALL BE PROTECTED FROM EROSION. EARTH BATTERS TO BE WHOLLY CONTAINED WITHIN SITE BOUNDARIES & SURFACE DRAINS TO BE INSTALLED TO HIGH SIDE OF ALL STABLE EARTH BATTERS. 7. CARE SHALL BE TAKEN TO ENSURE THAT ANY VIBRATORY ROLLING OR CONSTRUCTION ACTIVITIES DO NOT CAUSE DISTRESS (BY WAY OF INDUCED SETTLEMENT) TO ANY ADJACENT MOVEMENT-SENSITIVE FEATURES ETC. 8. ALL WORK INCLUDING TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AUSTRALIAN STANDARDS & RELEVAT CODES OF PRACTICE TO PROVIDE AN ENGINEERED (CONTROLLED) FILLED PLATFORM

9. STRIP BUILDING PLATFORM TO EXTEND 1500mm OUTSIDE BUILDING STRUCTURE FOOTPRINT OF TOPSOIL, DELETERIOUS ORGANICE AND UNCONTROLLED FILL. THE BUILDING PLATFORM SHALL BE RAISED TO DESIGNATED LEVEL ABOVE THE NOMINATED Q100 FLOOD LEVEL WITH ENGINEERED FILL & IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS. 10. BUILDING PLATFORM SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 3798 - GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMENT. PLATFORM IMMEDIATELY SURROUNDING THE RESIDENCE TO FALL AWAY FROM THE RESIDENCE AT A SLOPE OF 1 : 200 MINIMUM TO AN EARTH DRAIN. THE SURFACE DRAINAGE

S TO DISCHARGE EVENLY WITHIN THE SITE & WITHOUT NUISANCE TO ADJOINING PROPERTIES 11. FOUNDATION MAINTENANCE SHALL BE IN ACCORDANCE WITH THE CSIRO BROCHURE - GUIDE TO HOME **OWNERS ON FOUNDATION MAINTENANCE & FOOTING PERFORMANCES.** 2. VERIFY ALL BEARING AND DIMENSIONS ON SITE PRIOR TO ANY CONSTRUCTION. ALL MISSING PEGS TO BE REINSTATED PRIOR TO ANY CONSTRUCTION. ALL BUILDERS WORK TO BE CARRIED OUT WITHIN SITE BOUNDARY. THIS NOTE IS TO TAKE PRECEDENCE OVER ANY DOCUMENTATION PROVIDED IN THIS SET OF PLANS, NOTIFY THIS

OFFICE IMMEDIATELY OF ANY DISCREPANCIES IN SETOUT DIMENSIONS. 13. APPROXIMATE POSITION OF SEWER JUMP UP, VERIFY POSITION ON SITE PRIOR TO CONSTRUCTION. CONNECT 100Dia LINE TO COUNCIL REQUIREMENTS. 14. THE FILL USED ON THIS SITE WILL HAVE CONTROLLED PLACEMENT. REFER TO SITE PREPARATION NOTES. 15. ALL FENCE LINES, RETAINING WALLS, PATHWAYS, HOT WATER SYSTEM, LETTER BOX, CLOTHESLINE, WATER TANK & DOWNPIPE LOCATIONS TO BE SETOUT BY BUILDER ON-SITE & CONFIRMED BY CLIENT. CLIENT TO PROVIDE NOTICE OF ANY FUTURE SITE WORKS TO PLUMBER TO ENSURE SEWER & STORMWATER CAN BE ALIGNED TO ACCOMODATE REQUIREMENTS.

16. NEW CONCRETE BOUNDARY CROSS OVER AND COUNCIL INVERT TO LOCAL AUTHORITY SPECIFICATIONS. 17. ANY SITE LEVELS PROVIDED ON THIS PLAN HAVE BEEN SUPPLIED BY EXTERNAL CONSULTANTS & TRANSMITTED ONTO THIS SET OF DRAWINGS. THESE LEVELS ARE TO BE TREATED BY THE BUILDER AS APPROXIMATE ONLY & MUST BE VERIFIED ON SITE PRIOR TO COMMENCING CONSTRUCTION. ANY LEVEL DESCREPANCIES ARE TO BE REPORTED TO THIS OFFICE FOR AUTHORIZATION PRIOR TO COMMENCING CONSTRUCTION. BUILDER TO ARRANGE CONTOUR SURVEY IF REDUCED LEVELS ARE NOT PROVIDED ON THIS PLAN. 18. DRIVEWAY SLOPE NOT TO EXCEED 1 VERT TO 5 HOR. FOR DRIVEWAY SLOPE REFER TO PART 6.0 OF THE QDC TO EVENLY WITHIN THE SITE & WITHOUT NUISANCE TO ADJOINING PROPERTIES. REFER TO SITE PREPARATION ENSURE GRADIENTS & VEHICUL AR ACCESS COMPLY WITH STANDARD COUNCIL REGULATIONS 19. SEDIMENT CONTROL MEASURES FOR SOIL & WATER MANAGEMENT MUST BE INSTALLED OR IMPLEMENTED PRIOR TO DISCHARGE OF WATER FROM THE SITE, SUCH THAT NO EXTERNAL STORMATER FLOW FROM THE SITE ADVERSELY AFFECTS SURROUNDING OR DOWNSTREAM PROPERTIES IN ACCORDANCE WITH THE REQUIREMENTS

OF THE ENVIRONMENTAL PROTECTION ACT 1994 & THE FNQ ROC DEVELOPMENT MANUAL 20. ALL WATER TO BE DRAINED AWAY FROM BUILDING DURING & AFTER CONSTRUCTION TO COMPLY WITH AS 2870. IN ACCORDANCE WITH PART 3.5.2 OF THE BCA, THE ROOF AREA PER DOWNPIPE IS CALCULATED USING **RETAINING STRUCTURES**

THE BACKFILL MATERIAL BEHIND THE FULL LENGTH OF THE EARTH RETAINING WALLS SHALL CONSIST OF A COARSE GRAINED SOIL OF HIGH PERMEABILITY (ie CLEAN COURSE SAND OR GRAVEL) TO A MAX WIDTH OF 300mm FOR THE FULL RETAINING HEIGHT

ENERGY EFFICIENCY

1. REFER TO ENERGY EFFICIENCY RATING REPORT FOR EXTENT OF INSULATION, CEILING FANS, DRAUGHT SEALS, GLAZING TYPE, WALLS & ROOF COLOUR, ETC. REPORT TO TAKE PRECEDENCE OVER ALL DOCUMENTATION PROVIDED IN THIS SET OF WORKING DRAWINGS. 2. COMPLY WITH THE CURRENT MANDATORY SUSTAINABLE HOUSING MEASURES UNDER THE QUEENSLAND **DEVELOPMENT CODE MP-4.1 INCLUDING:** * 3 STAR RATED SHOWER ROSES AND TAPWARE TO KITCHEN SINKS, BATHROOM BASINS AND LAUNDRY TUBS.

4 STAR RATED DUAL FLUSH TOILETS & SHOWER ROSE. * ANY IRRIGATION SYSTEM MUST BE WATER EFFICIENT IN RELATION TO THE CODE. * ENERGY EFFICIENT LIGHTING TO BE UTILISED FOR 80% OF ALL LIGHT FITTINGS TO ILLUMINATE THE INTERNAL FLOOR SPACE * INSTALLATION OF MIN. EER 2.9 FOR HARD WIRED AIR-CONDITIONERS

TIMBER

1. ALL WORK SHALL COMPLY WITH THE RELEVANT BUILDING ACT AND ALL CODES REFERRED TO THEREIN. 2. ALL STRUCTURAL TIMBER SHALL BE GRADE F14 UNSEASONED, UNLESS NOTED OTHERWISE 3. THE DESIGN, ERECTION AND BRACING OF PREFABRICATED ROOF TRUSSES SHALL BE IN

ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS, UNLESS NOTED OTHERWISE 4. ALL FRAMING AND CONNECTION DETAILS SHALL BE IN ACCORDANCE WITH - AS1684.3 RESIDENTIA FIMBER - FRAMED CONSTRUCTION - CYCLONIC

GENERAL SAFETY NOTES - WPHS

1. FALLS. SLIPS. TRIPS a) WORKING AT HEIGHTS DURING CONSTRUCTION

vherever possible, components for this building should be prefabricated off-site or at ground level to minimise the risk of workers falling more than two metres. However, construction of this building will require workers to be working at heights where a fall in excess of two metres is possible and injury is likely to result from such a fall. The builder should provide a suitable barrier wherever a person is required to work in a situation where falling more than two metres is a possibility. DURING OPERATION OR MAINTENANCE

Cleaning and maintenance of windows, walls, roof or other components of this building will require persons to be situated where a fall from a height in excess of two metres is possible. Where this type of activity is required, scaffolding, ladders or trestles should be used in accordance with relevant codes of practice, regulations or legislation. Cleaning and maintenance of windows, walls, roof or other components of this building will require persons to be situated where a fall from a height in excess of two metres is possible. Where this type of activity is required, scaffolding, fall barriers or Personal Protective Equipment should be used in accordance with relevant codes of practice, regulations or legislation. Anchorage points for portable scaffold or fall arrest devices have been included in the design for use by maintenance workers Any persons engaged to work on the building after completion of construction work should be informed about the anchorage

b) SLIPPERY OR UNEVEN SURFACES FLOOR FINISHES

Specified finishes have been selected to minimise the risk of floors and paved areas becoming slippery when wet or when walked on with wet shoes/feet. Any changes to the specified finish should be made in consultation with the designer or, if this is not practical, surfaces with an equivalent or better slip resistance should be chosen. The owner is responsible for the selection of surface finishes in the pedestrian trafficable areas of this building. Surfaces should be selected in accordance with AS HB 197:1999 and AS/NZ 4586:2004.

STEPS, LOOSE OBJECTS AND UNEVEN SURFACES Due to design restrictions for this building, steps and/or ramps are included in the building which may be a hazard to workers

carrying objects or otherwise occupied. Steps should be clearly marked with both visual and tactile warning during construction, maintenance, demolition and at all times when the building operates as a workplace. Building owners and occupiers should monitor the pedestrian access ways and in particular access to areas where maintenance s routinely carried out to ensure that surfaces have not moved or cracked so that they become uneven and present a trip hazard Spills, loose material, stray objects or any other matter that may cause a slip or trip hazard should be cleaned or removed from

access ways. Contractors should be required to maintain a tidy work site during construction, maintenance or demolition to reduce the risk of trips and falls in the workplace. Materials for construction or maintenance should be stored in designated areas away from

access ways and work areas. 2. FALLING OBJECTS LOOSE MATERIALS OR SMALL OBJECTS

Construction, maintenance or demolition work on or around this building is likely to involve persons working above ground level or above floor levels. Where this occurs one or more of the following measures should be taken to avoid objects falling from the area where the work is being carried out onto persons below. Prevent or restrict access to areas below where the work is being carried out.

Provide toeboards to scaffolding or work platforms. Provide protective structure below the work area.

Ensure that all persons below the work area have Personal Protective Equipment. BUILDING COMPONENTS

During construction, renovation or demolition of this building, parts of the structure including fabricated steelwork, heavy panels and many other components will remain standing prior to or after supporting parts are in place. Contractors should ensure that temporary bracing or other required support is in place at all times when collapse which may injure persons in the area is a Mechanical lifting of materials and components during construction, maintenance or demolition presents a risk of falling objects. Contractors should ensure that appropriate lifting devices are used, that loads are properly secured and that access to areas below the load is prevented or restricted.

3. TRAFFIC MANAGEMENT Parking of vehicles or loading/unloading of vehicles on this roadway may cause a traffic hazard. During construction maintenance or demolition of this building designated parking for workers and loading areas should be provided. Trained traffic

management personnel should be responsible for the supervision of these areas. Construction of this building may require loading and unloading of materials on the roadway. Deliveries should be well planned to avoid concestion of loading areas and trained traffic management personnel should be used to supervise loading/unloading

Busy construction and demolition sites present a risk of collision where deliveries and other traffic are moving within the site. A traffic management plan supervised by trained traffic management personnel should be adopted for the work site.

LOAD BEARING MASONRY

1. ALL LOAD BEARING MASONRY WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE CURRENT EDITION OF AS 700, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS. 2. BUILDER TO ALLOW CLEAN OUT OPENINGS AT THE BASE COURSE OF ALL REINFORCED CONCRETE MASONRY WALLS OR AS INDICATED AND ALL CORES TO BE RAKED CLEAN BEFORE FILLING WITH GROUT. 3. GROUT MIX TO FILL CAVITY OR REINFORCED CONCRETE MASONRY WALLS TO HAVE A MINIMUM CHARACTERISTIC

COMPRESSION STRENGTH OF 20 MPa(fc). MAXIMUM SLUMP 250mm AND MAXIMUM AGGREGATE SIZE 10mm. 4. UN-REINFORCED CONCRETE MASONRY AND BRICKWORK SUPPORTING SLABS AND BEAMS SHALL HAVE A LAYER OF MORTAR PLACED ON TOP AND TROWELLED SMOOTH WITH TWO LAYERS OF BITUMINOUS FELT BETWEEN THIS SURFACE AND THE CONCRETE.

6. MINIMUM CHARACTERISTIC UNCONFINED COMPRESSION STRENGTH OF MASONRY UNITS SHALL BE 15MPa. FOUNDATIONS

5 MORTAR CLASSIFICATION- M4

1. EXCAVATION FOR ALL FOOTINGS SHALL BE TAKEN TO THE DEPTHS SHOWN, OR TO A FOUNDATION STRATA CAPABLE OF SAFELY SUSTAINING A BEARING PRESSURE OF 100 kPa WHICHEVER IS THE DEEPER. ALL EXCAVATIONS SHALL BE FREE FROM LOOSE MATERIAL, MUD AND WATER. UNDERSIDE OF ALL FOOTINGS SHALL BE A MIN OF 400mm BELOW NATURAL GROUND LEVEL UNLESS SHOWN OTHERWISE. 2. EXCAVATIONS FOR BORED PIERS SHALL BE DONE BY MECHANICAL AUGER OR OTHER APPROVED MEANS. SIDES OF HOLES SHALL BE VERTICAL AND SIDES AND BOTTOM SHALL BE FREE FROM LOOSE MATERIAL. CONCRETE SHALL BE PLACED IN EACH HOLE WITHIN 12 HOURS. FINISHED SLAB LEVEL TO BE MINIMUM 225mm ABOVE FINISHED GROUND LEVEL. THIS NOTE IS TO TAKE PRECEDENCE

OVER ANY DOCUMENTATION PROVIDED IN THIS SET OF PLANS. STRUCTURAL STEEL

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AS 4100 AND AS 554 EXCEPT WHERE VARIED BY THE CURRENT DOCUMENTS. 2. UNLESS NOTED OTHERWISE ALL STEEL SHALL BE IN ACCORDANCE WITH:

AS 1204 GRADE 250 FOR ROLLED SECTIONS AS 1163 GRADE 250 FOR C.H.S. SECTIONS AS 1163 GRADE 200 FOR C.H.S. SECTIONS AS 1204 GRADE 350 FOR ALL HIGH STRENGTH STEEL 3. UNLESS NOTED OTHERWISE ALL WELDS SHALL BE CATEGORY SP IN ACCORDANCE WITH CLAUSE 1:3:2 AS 1554-PART

. UNLESS NOTED OTHERWISE ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS. 5. HIGH STRENGTH FRICTION GRIP BOLTS, NUTS AND WASHERS (8.8/TF) SHALL COMPLY WITH THE RELEVANT REQUIREMENTS OF AS 1252 AND SHALL BE TIGHTENED TO THE CORRECT TENSION USING APPROVED LOAD INDICATING WASHERS. CONTACT SURFACES OF ALL HIGH STRENGTH FRICTION GRIP BOLTED CONNECTIONS SHALL

BE LEFT UNPAINTED OR AS SPECIFIED. 6. UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE OF GRADE 4.6/S. ALL DIMENSIONS SHALL BE CHECKED BY THE CONTRACTOR ON SITE PRIOR TO FABRICATION.

B. UNLESS NOTED OTHERWISE ON PLANS, WHERE STEEL SIZES PERMIT, ALL STEELWORK IS TO BE SUPERGAL OR EQUIVALENT. IN ALL OTHER CASES STEEL WORK IS TO BE SAND BLASTED (2.5) AND COATED WITH ZINC SILICATE STEEL IMER (OR AS SPECIFIED) BEFORE ERECTION. REINSTATE COATING OF ALL WELDS BY BUFFING SURFACE WITH WIRE BRUSH AND APPLY 2 BRUSH COATS OF ZINC RICH COATING, PAINT FINISH IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.

STEELWORK ENCASED IN CONCRETE IS NOT TO BE PAINTED. 9. THE STEEL FABRICATOR SHALL PROVIDE ALL BOLTS NECESSARY FOR THE ERECTION OF THE STEELWORK AND BOLTHOLES AND CLEATS NECESSARY FOR THE ERECTION OF TIMBER WORK WHETHER OR NOT DETAILED IN THE 10. ALL LAPS, FIXINGS AND ACCESSORIES TO PURLINS AND GIRTS TO BE STRICTLY IN ACCORDANCE WITH THE

1. ANY EXPOSED STRUCTURAL TIMBER WHICH HAS ANY AREA IN CONTACT WITH ANOTHER MATERIAL AND WHICH WILL BE INACCESSIBLE AFTER FIXING IS TO BE GIVEN A COAT OF PRIMER BEFORE FIXING 2. PROVIDE APPROVED WATERPROOFING MEMBRANE TO ALL WET AREA FLOORS & TILED WALLS & TOP OF ALL EXTERNAL SUSPENDED SLAB FLOORS IN ACCORDANCE WITH BUILDING CODE OF AUSTRALIA & A.S. 3740. 3. PROVIDE APPROVED WATERPROOFING MEMBRANE TO ALL FLOOR SLABS & FOUNDATION / RETAINING WALLS IN

ELECTRICAL NOTES

IF ANY ELECTRICAL OR LIGHTING POSTIONS ARE NOT CLEAR ON PLAN. PLEASE USE OWN DISCRETION OTHERWISE CALL THIS OFFICE FOR ASSITANCE IF UNSURE ALL ELECTRICAL WORK MUST COMPLY WITH RELEVANT AUSTRALIAN STANDARDS. 1. METER BOX LOCATION TO BE DETERMINED BY ELECTRICIAN ON SITE (CLOSEST PRACTICAL LOCATION TO

ONNECTION). 2. ENERGY EFFICIENT LIGHTING TO COMPLIANCE WITH THE QUEENSLAND DEVELOPMENT CODE MP-4.1 FOR LIGHTING. ENERGY EFFICIENT LIGHTING IS TO BE UTILISED FOR <u>80%</u> OF ALL LIGHT FITTINGS OF THE INTERNAL FLOOR SPACE. B. CONTRACTER TO VERIFY HEIGHT OF ALL WALL MOUNTED ELECTRICAL FIXTUERS 4. THE PROVISION FOR "A/C" LOCATIONS ARE OPTIONAL ONLY AND MUST BE CONFIRMED ON SITE BEFORE

. LOCATION OF ALL "SPLIT A/C" AS SHOWN TO BE VERIFIED BY BUILDING OWNER, SUPPLY AND INSTALL "SPLIT A/C" BY OTHERS UNLESS NOTED OTHERWISE IN THE BUILDING SPECIFICATION. 6. ALL A/C CONDENSATION WASTES TO BE INSTALLED IN WALLS WHERE POSSIBLE, OTHERWISE RUN IN SLAB. 7. SELF CONTAINED SMOKE ALARMS MUST BE SUPPLIED, INSTALLED AND MAINTAINED AND SHALL COMPLY WITH A.S. 3786 AND MUST BE CONNECTED TO THE CONSUMERS MAIN POWER. SMOKE DETECTORS SHOWN ON THIS PLAN SPECIFIES

THE MINIMUM STANDARDS ONLY, AND WE REFER YOU TO THE PUBLICATION "SMOKE ALARMS SAVES LIVES 1997" FOR I IRES AND SPECIFICATIONS TERMITE CONTROL

CONSTRUCTION OF BLOCKWORK

ACCORDANCE WITH AS 3660. THIS STRUCTURE IS TO BE PROTECTED AGAINST TERMITES BY HAVING THE PRIMARY BUILDING ELEMENTS & ANY TIMBER SKIRTINGS, ARCHITRAVES, WINDOW REVEALS & DOOR JAMBS BUILT OF MATERIALS CONSIDERED NOT TO BE SUSCEPTIBLE O TERMITE ATTACK ALL ROOF TIMBERS ARE TO BE PRESERVATIVE TREATED IN ACCORDANCE WITH APPENDIX B OF AS 3660.1 2 DURABILITY NOTICES INDICATING THE METHOD OF PROTECTION, THE DATE THE METHOD PROTECTION WAS INSTALLED

AND THE SCOPE AND FREQUENCY OF FIXTURE INSPECTIONS FOR TERMITE ACTIVITY IS TO BE INSTALLED IN THE METERBO & PANTRY THE RECOMMENDED FREQUENCY OF FIXTURE INSPECTIONS TO BE SPECIFIED ON THE NOTICE IS : EVERY 6 MONTHS

MINIMUM, & THE RECOMMENDED SCOPE IS : INSPECTIONS OF THE PERIMETER OF THE BUILDING AT GROUND LEVEL, INSPECTIONS OF ALL AREAS OF THE BUILDING AND IMMEDIATE AREA OF THE BUILDING WHICH CAN BE ACCESSED INCLUDING THE ROOF SPACE. CONCRETE SLAB TO HAVE TERMITE RESISTANT MATERIALS USED TO ALL SLAB PENETRATIONS OR ALL STRUCTURAL

IMBER & TRUSSES TO BE TERMITE RESISTANT GRADE OR BE TREATED FOR TERMITE RESISTANCE (H2 INTERNAL, H2 EXTERNAL HAZARD LEVEL) IF CHEMICAL BARRIER USED ON GROUND NOTE LIFE EXPECTANCY KEEP GARDEN BEDS A MINIMUM OF 1 METRE AWAY FROM ALL EXTERNAL WALLS. ALL PRIMARY BUILDING ELEMENTS (SKIRTING, ARCHITRAVES, JAMBS, ETC) ARE TO BE PROTECTED AGAINST TERMITE INFESTATION IN ACCORDANCE WITH A.S 3600.1. OWNER IS TO VISUALLY INSPECT AROUND HOUSE FOR TERMITE ACTIVITY EVERY 12 MONTHS MINIMUM & TAKE PRECAUTIONS IF REQUIRED

SITE DRAINAGE

GRADE FINISHED GROUND LEVEL TO ENSURE WATER IS DIVERTED AWAY FROM NEIGHBOURING PROPERTIES & TO KERB & CHANNEL OR STORMWATER EASEMENT IF AVAILABLE. PLATFORM IMMEDIATELY SURROUNDING THE RESIDENCE TO FALL AWAY FROM THE RESIDENCE AT A SLOPE OF 1 : 200. SURFACE DRAINAGE IS TO DISCHARGE NOTES & COMPLY WITH AS 3798 - GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMEN[®]

RAINWATER DRAINAGE

RAINFALL INTENSITY OF 282mm/hr - CAIRN http://www.roof-gutter-design.com.au/_IN_ACCORDANCE_WITH AS 2179 & AS 3500.3 1. SIZE OF UPVC STORMWATER PIPELINES TO SUIT DOWNPIPE & HAVING A SMOOTH (NON-PROFILED) INTERNAL BORE 1. DO NOT BACKFILL RETAINING WALLS UNTIL 21 DAYS AFTER CONCRETE HAS BEEN PLACED IN THE WALLS OF THE RETAINING STRUCTURES UNLESS NOTED OTHERWISE. EXTEND STORMWATER LINES TO STORMWATER EASEMENT, KERB & CHANNEL OR STORMWATER PITS & DISPOSE OF AT LEGAL POINT OF DISCHARGE COMPLYING WITH LOCAL AUTHORITY & INSPECTOR STANDARDS.

. PROVISIONS FOR OVERFLOWS MUST BE MADE FOR DOWNPIPES FURTHER THAN 1200mm FROM VALLEY PLUMBING NOTES

PLUMBER AND DRAINER INSTALLATION TO COMPLY WITH THE PLUMBING AND DRAINAGE ACT 2002 (PDA) AND THE STANDARD PLUMBING AND DRAINAGE REGULATION 2003 (SPDR). LICENSED PLUMBER TO INSPECT SITE PRIOR TO QUOTATION & CONFIRM ALL EXISTING PLUMBING WITH

3. SIZE & LOCATIN OF STORMWATER PITS WITH REMOVABLE GRATED LID VERIFIED BY BUILDER & CONTRACTOR ON

- COUNCIL INSPECTOR. ANY DESCREPANCIES MUST BE REFERRED TO THIS OFFICE FOR AUTHORIZATION PRIOR COMMENCING CONSTRUCTION OTHERWISE NO RESPONSIBILITY WILL BE TAKEN BY BALAY. ALL DRAINAGE SHALL BE 100mm DIA uPVC RUN AT MINIMUM GRADE OF 1.65% (1:60) U.N.O.
- ALL VENT PIPES LOCATIONS TO BE DETERMINED ONSITE BY CONTRACTOR & TERMINATE IN ACCORD. WITH AS 3500 2.2 SECTION 6.7.4.
- ALL IO'S UNDER CONCRETE TO BE TAKEN TO SURFACE LEVEL AND FITTED WITH APPROVED SCREW CAP. WHERE PVC PIPES PENETRATE OR ARE BUILT INTO WALLS OR SLABS, THE PIPES SHALL BE LAGGED WITH APPROVED MATERIAL IN ACCORDANCE WITH AUSTRALIAN STANDARDS.
- MAXIMUM DISTANCE OF UN-VENTED BRANCH DRAIN IS 10 METRES TO FIXTURES, ORG'S OR DG'S. MATERIALS DRAINAGE SOIL WASTE AND VENT PIPES AND FITTINGS UPVC CLASS DWV TO AS 1260
- ALL WC'S TO BE SCREW FIXED TO FLOOR WITH NYLON PLUGS AND NON-CORROSIVE METAL SCREWS. ALL DISCHARGE PIPES RECEIVING CONDENSATE WASTE INCLUDING TRAPS SHALL BE INSULATED. ALL PIPES LAID UNDER SLABS TO BE MINIMUM DEPTH OF 400mm TO INVERT LEVEL AND SHALL BE INSULATED.
- PROVIDE FLOOR WASTES TO ALL WET AREAS. PLUMBING AND DRAINAGE INSTALLATION TO COMPLY WITH THE PLUMBING AND DRAINAGE ACT 2002 (PDA) AND THE STANDARD PLUMBING AND DRAINAGE REGULATION 2003 (SPDR)
- N. ALL FLOOR WASTES TO HAVE 100mm DIA RISERS AND REMOVABLE SCREW GRATES MAX 500kPa WATER PRESSURE. IF GREATER, INSTALL PRESSURE LIMITING DEVICE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS 4. MANUAL TASKS

omponents within this design with a mass in excess of 25kg should be lifted by two or more workers or by mechanical lifting device. Where this is not practical, suppliers or fabricators should be required to limit the component mass. All material packaging building and maintenance components should clearly show the total mass of packages and where practical all items should be stored on site in a way which minimises bending before lifting. Advice should be provided on safe lifting methods in all areas where lifting may occur. Construction, maintenance and demolition of this building will require the use of portable tools and equipment. hese should be fully maintained in accordance with manufacturer's specifications and not used where faulty or (in the case of electrical equipment) not carrying a current electrical safety tag. All safety guards or devices should be regularly checked and Personal Protective Equipment should be used in accordance with manufacturer's specification.

5. HAZARDOUS SUBSTANCES & POWDERED MATERIALS Many materials used in the construction of this building can cause harm if inhaled in powdered form. Persons working on or in the building during construction, operational maintenance or demolition should ensure good ventilation and wear Personal Protective Equipment including protection against inhalation while using powdered material or when sanding, drilling, cutting or otherwise disturbing or creating powdered material.

TREATED TIMBER The design of this building includes provision for the inclusion of treated timber within the structure. Dust or fumes from this material can be harmful. Persons working on or in the building during construction, operational maintenance or demolition should ensure good ventilation and wear Personal Protective Equipment including protection against inhalation of harmful material when sanding, lling, cutting or using treated timber in any way that may cause harmful material to be released. Do not burn treated timber.

VOLATILE ORGANIC COMPOUNDS Many types of glue, solvents, spray packs, paints, varnishes and some cleaning materials and disinfectants have dangerous emissions. Areas where these are used should be kept well ventilated while the material is being used and for a period after installation. Personal Protective Equipment may also be required. The manufacturer's recommendations for use must be carefully considered at all times. YNTHETIC MINERAL FIBRE

Fibreglass, rockwool, ceramic and other material used for thermal or sound insulation may contain synthetic mineral fibre which may be harmful if inhaled or if it comes in contact with the skin, eves or other sensitive parts or the body. Personal Protective Equipment including protection against inhalation of harmful material should be used when installing, removing or working near bulk insulation materia TIMBER FLOORS

This building contains timber floors which have an applied finish. Areas where finishes are applied should be kept well ventilated luring sanding and application and for a period after installation. Personal Protective Equipment may also be required. The manufacturer's recommendations for use must be carefully considered at all times. 6. CONFINED SPACES

EXCAVATION -Construction of this building and some maintenance on the building will require excavation and installation of items within excavations. Where practical installation should be carried out using methods which do not require workers to enter the excavation. Where this is not practical, adequate support for the excavated area should be provided to prevent collapse. Warning signs and barriers to prevent accidental or unauthorised access to all excavations should be provided ENCLOSED SPACES

Enclosed spaces within this building may present a risk to persons entering for construction, maintenance or any other purpose. he design documentation calls for warning signs and barriers to unauthorised access. These should be maintained throughout the life of the building. Where workers are required to enter enclosed spaces, air testing equipment and Personal Protective Equipment should be provided SMALL SPACES

Some small spaces within this building will require access by construction or maintenance workers. The design documentation calls for warning signs and barriers to unauthorised access. These should be maintained throughout the life of the building. Where workers are required to enter small spaces they should be scheduled so that access is for short periods. Manual lifting and other anual activity should be restricted in small spaces.

7. PUBLIC ACCESS Public access to construction and demolition sites and to areas under maintenance causes risk to workers and public. Warning signs and secure barriers to unauthorised access should be provided. Where electrical installations, excavations, plant or loose naterials are present they should be secured when not fully supervised.

8. OPERATIONAL USE OF BUILDING ilding has been designed as a residential building. If it, at a later date, is used or intended to be used as a workplace, the visions of the Work Health and Safety Act 2011 or subsequent replacement Act should be applied to the new use.

9. OTHER HIGH RISK ACTIVITY All electrical work should be carried out in accordance with Code of Practice: Managing Electrical Risks at the Workplace, AS/NZ 012 and all licensing requirements. All work using Plant should be carried out in accordance with Code of Practice: Managing Risks of Plant at the Workplace. All work should be carried out in accordance with Code of Practice: Managing Noise and Preventing Hearing Loss at Work. Due to the history of serious incidents it is recommended that particular care be exercised when undertaking work involving steel construction and concrete placement. All the above applies.













5 LOWER FLOOR PLAN 02 SCALE 1:100

















21.30 ENTRY FL

20.00 LOWER FL

02 SCALE 1:100



	DOOR SCHEDULE									
MARK	DESCRIPTION	TYPE	LOCATION	REFERENCE	WIDTH	HEIGHT	HEAD HEIGHT	FRAME MATERIAL	GLAZING & FINISH	
01	PANEL LIFT GARAGE DOOR - CLIENT SELECTED FINISH	PLD	GARAGE	LOWER FL	5,200 mm	3,000 mm	2,900 mm	METAL	METAL	
02	SIX PANEL SLIDING GLASS DOOR	OXXXXO SGD	ENTERTAINING	LOWER FL	8,100 mm	3,000 mm	3,000 mm	POWDERCOAT ALUMINIUM	GREY GLASS	
03	THREE PANEL SLIDING GLASS DOOR	OXX SGD	BED 2	LOWER FL	3,800 mm	3,000 mm	3,000 mm	POWDERCOAT ALUMINIUM	GREY GLASS	
04	SINGLE 820 HINGED ALUMINIUM DOOR	820	LDRY	LOWER FL	900 mm	2,400 mm	2,400 mm	POWDERCOAT ALUMINIUM	GREY GLASS	
05	SINGLE 820 HINGED TIMBER DOOR	820	LDRY	LOWER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
06	SINGLE 820 HINGED TIMBER DOOR	820	BATH	LOWER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
07	SINGLE 820 HINGED TIMBER DOOR	820	BED 5	LOWER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
08	SINGLE 820 HINGED TIMBER DOOR	820	BED 4	LOWER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
09	SINGLE 820 HINGED TIMBER DOOR	820	GARAGE	LOWER FL	900 mm	2,400 mm	2,400 mm	METAL	PAINT	
10	SINGLE 820 CAVITY SLIDER DOOR	CSD	BED 2	LOWER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
11	SINGLE 720 CAVITY SLIDER DOOR	CSD	WIR	LOWER FL	800 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
12	SINGLE 820 CAVITY SLIDER DOOR	CSD	ENS	LOWER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
13	SINGLE 820 CAVITY SLIDER DOOR	CSD	BED 3	LOWER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
14	SINGLE 820 HINGED TIMBER DOOR	820	ENS	LOWER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
15	PIVOT DOOR - CLIENT SELECTED DESIGN & FINISH	PVT	LOUNGE	UPPER FL	1,800 mm	2,400 mm	2,400 mm	TIMBER	GREY GLASS	
16	SIX PANEL SLIDING GLASS DOOR	OXXXXO SGD	MEALS	UPPER FL	8,900 mm	3,400 mm	3,400 mm	POWDERCOAT ALUMINIUM	GREY GLASS	
17	FOUR PANEL SLIDING GLASS DOOR	OXXO SGD	MASTER	UPPER FL	5,800 mm	3,400 mm	3,400 mm	POWDERCOAT ALUMINIUM	GREY GLASS	
18	SINGLE 1500 CAVITY SLIDER DOOR	CSD	MASTER	UPPER FL	1,600 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
19	SINGLE 820 CAVITY SLIDER DOOR	CSD	WIR	UPPER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
20	DOUBLE CAVITY SLIDING DOOR	2 / 420 CSD	STUDY	UPPER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
21	SINGLE 820 CAVITY SLIDER DOOR	CSD	ENS	UPPER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
22	SINGLE 820 CAVITY SLIDER DOOR	CSD	PTRY	UPPER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
23	SINGLE 820 HINGED TIMBER DOOR	820	PDR	UPPER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
24	SINGLE 820 HINGED TIMBER DOOR	820	PDR	UPPER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
26	SINGLE 820 HINGED INSULATED CABINETRY DOOR	820	COOL RM	UPPER FL	900 mm	2,400 mm	2,400 mm	TIMBER	PAINT	
27	DOUBLE 620 HINGED TIMBER DOOR	2/620	CLOAKS	UPPER FL	1,300 mm	2,400 mm	2,400 mm	TIMBER	PAINT	

	WINDOW SCHEDULE									
MARK	DESCRIPTION	TYPE	LOCATION	REFERENCE	WIDTH	HEIGHT	SILL HEIGHT	HEAD HEIGHT	FRAME MATERIAL	GLAZING / FINISH
01	SINGLE PANEL FIXED GLASS WINDOW	F	BED 2	LOWER FL	600 mm	1,600 mm	800 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
02	SINGLE PANEL FIXED GLASS WINDOW	F	BED 2	LOWER FL	600 mm	1,600 mm	800 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
03	SINGLE PANEL FIXED GLASS WINDOW	F	ENS	LOWER FL	600 mm	1,600 mm	800 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
04	SINGLE PANEL FIXED GLASS WINDOW	F	BED 3	LOWER FL	600 mm	1,600 mm	800 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
05	SINGLE PANEL FIXED GLASS WINDOW	F	BED 3	LOWER FL	600 mm	1,600 mm	800 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
06	SINGLE PANEL FIXED GLASS WINDOW	F	ENS	LOWER FL	800 mm	1,600 mm	800 mm	2400 mm	POWDERCOAT ALUMINIUM	OBSCURE GLASS
08	SINGLE PANEL FIXED GLASS WINDOW	F	LDRY	LOWER FL	600 mm	1,400 mm	1,000 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
09	DOUBLE PANEL SLIDING GLASS WINDOW	XO	UTILITIES AREA	LOWER FL	1,600 mm	500 mm	1,500 mm	2000 mm	POWDERCOAT ALUMINIUM	GREY GLASS
10	SINGLE PANEL FIXED GLASS WINDOW	F	BATH	LOWER FL	800 mm	1,400 mm	1,000 mm	2400 mm	POWDERCOAT ALUMINIUM	OBSCURE GLASS
12	XOX SLIDING GLASS WINDOW	XOX	BED 5	LOWER FL	2,600 mm	1,200 mm	1,200 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
13	SINGLE PANEL FIXED GLASS WINDOW	F	BED 4	LOWER FL	1,200 mm	1,400 mm	1,000 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
14	SINGLE PANEL FIXED GLASS WINDOW	F	LOUNGE	UPPER FL	1,800 mm	600 mm	2,400 mm	3000 mm	POWDERCOAT ALUMINIUM	GREY GLASS
15	MULTI PANEL AWNING GLASS WINDOW	AW	LOUNGE	UPPER FL	4,900 mm	2,600 mm	800 mm	3400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
16	MULTI PANEL AWNING GLASS WINDOW	AW	LOUNGE	UPPER FL	6,200 mm	2,600 mm	800 mm	3400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
17	SINGLE PANEL FIXED GLASS WINDOW	F	MASTER	UPPER FL	600 mm	1,600 mm	800 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
18	SINGLE PANEL FIXED GLASS WINDOW	F	MASTER	UPPER FL	600 mm	1,600 mm	800 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
19	DOUBLE PANEL SLIDING GLASS WINDOW	XO	ENS	UPPER FL	2,100 mm	700 mm	1,700 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
20	SINGLE PANEL FIXED GLASS WINDOW	F	ENS	UPPER FL	1,600 mm	1,400 mm	1,000 mm	2400 mm	POWDERCOAT ALUMINIUM	OBSCURE GLASS
21	DOUBLE PANEL SLIDING GLASS WINDOW	XO	STUDY	UPPER FL	2,000 mm	1,400 mm	1,000 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS
22	SINGLE PANEL FIXED GLASS WINDOW	F	PDR	UPPER FL	800 mm	1,400 mm	1,000 mm	2400 mm	POWDERCOAT ALUMINIUM	OBSCURE GLASS
24	SINGLE PANEL FIXED GLASS WINDOW	F	PDR	UPPER FL	800 mm	1,400 mm	1,000 mm	2400 mm	POWDERCOAT ALUMINIUM	OBSCURE GLASS
26	MULTI PANEL FIXED GLASS WINDOW	F	STAIR	UPPER FL	2,400 mm	2,400 mm	0 mm	2400 mm	POWDERCOAT ALUMINIUM	GREY GLASS

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DA	SUB					
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APPENDIX: 2

1/220 Scott Street Cairns QLD 4870

SITE CLASSIFICATION REPORT GT17-433-001R REV 16 WHARF STREET, PORT DOUGLAS QLD 4877

CUSTOMER:	Mackay Resort Developments Pty Ltd	REPORT:	GT17-433-001R Rev.1
POSTAL ADDRESS:	9 Frazer Street	DATE:	5 December 2017
	Daylesford VIC 3460	ORDER No:	*
INSPECTION DATE:	29 th November 2017	RPEQ NO:	4449

1. Authorisation and Scope

A site investigation was carried out at 6 Whar~Street, Port Douglas to determine the foundation conditions and classify the site for a proposed residence.

The investigation was requested and authorised by the customer.

The scope of the investigation allowed for augered boreholes to inspect the subsoil profile, with logging of soil types and evaluation of the subsoil density conditions. Allowable bearing values were determined by dynamic cone penetrometer testing to a depth of 1.5m or refusal.

The results of the field tests were to be evaluated, the site classification determined for the foundation, and a report provided to the customer.

2. Site Description

- **a. Vegetation:** The proposed development site was covered by short thick grass, sparse large trees and medium sized scrubs on the southwestern boundary.
- b. Slope: The proposed development area is described as sloping 15 to 18 degrees to the northwest.
- **c. Water Table:** At the time of the investigation, groundwater was not encountered in the excavated boreholes. However, it should be noted, that groundwater levels are affected by climatic conditions, tidal fluctuations and by soil permeability, therefore groundwater levels may vary with time.
- d. Other Significant Features: open stormwater drain along the eastern boundary.
- e. Drainage: The site was assessed as containing good drainage.

SITE CLASSIFICATION REPORT GT17-433-001R REV 1 […] […]6 WHARF STREET, PORT DOUGLAS QLD 4877

3. Site Investigation/Testing

Insitu testing was carried out by Dynamic Cone Penetrometer tests at locations P1 to P4 (see site plan and Dynamic Cone Penetrometer Report enclosed) to evaluate the foundation density conditions.

Two (2) boreholes were excavated using a truck mounted drill rig to determine the soil profile and recover disturbed samples for laboratory testing (Marked BH1 and BH2 on the Site Plan).

4. Laboratory Testing

Disturbed material samples were recovered from the boreholes at the allotment and Atterberg Limits testing was performed on a selected sample.

The Atterberg Limits tests indicate the subsoil is <u>slightly</u> reactive to changes in moisture content with an estimated predicted ground surface movement (ys) within Class S category (0mm – 20mm).

5. Bearing Capacity

An allowable bearing capacity of 100kPa was **not achieved** at the site. The assessment of bearing capacity is based on an assumed depth to width ratio equal to at least 1.

It is recommended that inspections be undertaken by a qualified geotechnical engineer to confirm adequate founding material prior to steel placement and concrete pouring.

SITE CLASSIFICATION REPORT GT17-433-001R REV 1 6 WHARF STREET, PORT DOUGLAS QLD 4877

Photo of the allotment.

SITE CLASSIFICATION REPORT GT17-433-001R REV 16 WHARF STREET, PORT DOUGLAS QLD 4877

Site Classification

Due to the presence of soft soils and the potential for slope instability (landslips) the Site may be classified **CLASS** – **P** for footings designed in accordance with Australian Standard 2870 "Residential Slabs and Footings – Construction" and advice should be sought from a Qualified Engineer (a professional engineer with academic qualifications in geotechnical or structural engineering who also has extensive experience in the design of footing systems for houses or similar structures).

Note: This classification does not take into consideration the influence of trees (existing and / or future).

Note: This classification is subject to review should any cut earthworks in excess of 0.4m or any filling be carried out.

Note: The Structural Engineer should adhere to the requirements of AS 2870 "Residential Slabs & Footings – Construction" in relation to the founding of footings below the line of influence of an existing feature/excavation (e.g. retaining walls, underground services, effluent pits, unsupported batters, creeks, etc).

Note: RESPONSIBILITIES. (A.S.2870 Supp 1). Footing design and construction involves a number of steps; site classification, selection of the footing system, structural design, construction in accordance with the required design details and construction methods, and proper maintenance. In addition to the builder, this process may involve an engineer, the Building Authority, the owner, and all parties who share responsibility for any failure. In particular, the owner has a responsibility to ensure the site is properly maintained.

NOTE: Because this investigation is limited in scope and extent, it is possible that areas may exist which differ from those shown on the test hole records and used in the site classification. Should any variation from the reported conditions be encountered during excavation work, a Building Services Authority Registered Site Classifier or a Registered Practising Engineer must be notified immediately so that reappraisal of the classification can be made. Attention is drawn to the present or any future owners of their responsibilities for foundation maintenance as detailed in A.S. 2870 (Appendix A) and CSIRO Brochure "Foundation Maintenance and Footing Performance: A Homeowner's Guide."

SITE CLASSIFICATION REPORT GT17-433-001R REV 1 6 WHARF STREET, PORT DOUGLAS QLD 4877

SIGNED:

Michael Ganza (RPEQ 4449) MANAGING DIRECTOR

References:

- 1. A.S.1726 Geotechnical Site Investigations
- 2. A.S. 2870 2011 Residential Slabs and Footings Construction.
- 3. A.S. 3798 Guidelines on Earthworks for Commercial and Residential Developments.

Attached:

- 1. Site Plan
- **Dynamic Cone Penetrometer Results** 2.

- Byranno Construction and Constructin and Construction and Construction and Construction and Con

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 \bigcirc Borehole and DCP Locations

SITE CLASSIFICATION	GT17-
PORT DOUGLAS	DATE 5/12/1
CLIENT: MACKAY RESORT DEVELOPMENTS PTY LTD	DRAWING

 HEAD OFFICE - CAIRNS

 ETS
 GEO PTY LTD

 ABN: 16 121 817 794.
 07 4047 8600

 Image: State of the state of

DYNAMIC (A.S. 1289 6.3.2		
CUSTOMER	Mackay Resort Developments Pty Ltd	REPORT NUMBER	GT17-433-001 DCP
	9 Frazer Street		
	5 1 4 12 4 5 5 4 5 5	DEDODT DATE	

	Daylesford VIC 3460	REPORT DATE	05-Dec-17
JOB NO	GT17-433		
		TEST DATE	29-Nov-17
PROJECT	Site Classification		
	6 Wharf Street	TECHNICIAN	DK
	Port Douglas QLD 4877		
SAMPLE LO	DCATION	CUSTOMER ORDER No.	*
	(Refer to Site Plan)		
SAMPLE DE	SCRIPTION	CUSTOMER JOB No.	*
	(Refer to Borehole Logs)		

DEPTH		*TES	T COMMEN	CED	AT	0.0	m BE	LOW	SURFACE LE	VEL
(Metres)	SITE:	P1	SITE:	P2	SITE:	P3	SITE:	P4	SITE:	
	No. Blows	Np	No. Blows	Np	No. Blows	Np	No. Blows	Np	No. Blows	Np
0.0 0.1	2		2		2		3			
0.1 0.2	3		2		2		2			
0.2 0.3	2	7	1	5	1	5	1	6		
0.3 0.4	1		1		1		1			
0.4 0.5	0		1		1		1			
0.5 0.6	1	2	1	3	0	2	1	3		
0.6 0.7	1		0		1		0			
0.7 0.8	0		1		0		1			
0.8 0.9	1	2	0	1	1	2	1	2		
0.9 1.0	1		1		0		1			
1.0 1.1	1		1		0		1			
1.1 1.2	1	З	1	З	0		1	З		
1.2 1.3	2		1		1		1			
1.3 1.4	2		2		1		1			
1.4 1.5	4	8	2	5	1	3	1	З		
1.5 1.6	5		3		1		0			
1.6 1.7	7		3		2		0			
1.7 1.8		12		6		3	1	1		
1.8 1.9										
1.9 2.0										
2.0 2.1										
2.1 2.2										
2.2 2.3										
2.3 2.4										
2.4 2.5										
2.5 2.6										
2.6 2.7										
2.7 2.8										
2.8 2.9										
2.9 3.0										
WATER TABLE:		'Not e	encountered'		MOISTURE	CON	IDITION:		Moist	

(Np) : Penetration Resistance

= blows per 300 mm

signature: LAG

Page 1 of 1

SIGNED BY: Leigh Jones **POSITION:** Geotechnical Associate Date: 05-Dec-17 ETS Regional Laboratory: Cairns

Cairns QLD 4870

Site Investigation Report Customer: Mackay Resort Developments Pty Ltd **Report Number:** GT17-433-001 LOG Job Number: GT17-433 **Report Date:** 05-Dec-17 Order Number: Project: Site Classification Location: 6 Wharf Street, Port Douglas Page 1 of 1 BOREHOLE NO: 1 Consistency Condition Moisture Depth Ground Water Level Sample Type & Depth **Description of Subsoil** (m) (m) (m) TOPSOIL: Sandy SILT (ML): low plasticity, dark brown, fine to coarse grained sand, trace of fine grained **Bround Water Not Encountered** 0.0 - 0.1 gravel, trace of fine roots. Firm Moist Clayey SILT (ML): low plasticity, dark brown, trace of fine grained Very Soft to 0.1 - 0.6 sand. Soft Moist Silty CLAY (CL): low plasticity, Very Soft to pale orange-brown, trace of fine to **Disturbed Material** 0.6 - 1.4 coarse grained angular gravel. Soft Moist Sample @ 0.6m-0.8m Silty CLAY (CL): low plasticity, pale orange-brown, trace of fine to **Disturbed Material** Stiff Moist Sample @ 1.5m-1.7m 1.4 - 1.7 coarse grained angular gravel. **BOREHOLE NO: 2** Consistency Moisture Condition Depth Ground Water Level Sample Type & Depth **Description of Subsoil** (m) (m) (m) TOPSOIL: Sandy SILT (ML): low Ground Water Not Encountered plasticity, dark brown, fine to coarse grained sand, trace of fine grained 0 - 0.1 gravel, trace of fine roots. Firm Moist Clayey SILT (ML): low plasticity, dark brown, trace of fine grained Very Soft to **Disturbed Material** sand, trace of fine grained gravel. Soft Moist Sample @ 0.6m-0.8m 0.1 - 1.4 Silty CLAY (CL): low plasticity, **Disturbed Material** pale orange-brown, trace of fine to Sample @ 1.5m-1.7m coarse grained angular gravel. Soft Moist 1.4 - 1.7

GEOTECHNICAL & MATERIALS TESTING

UNDERSTAND THE LIMITATIONS OF YOUR GEOTECHNICAL REPORT

This report has been based on project details as provided to us at the time of the commission. It therefore applies only to the site investigated and to a specific set of project requirements as understood by Engineering Testing Services.

If there are changes to the project, you need to advise us in order that the effect of the changes on the report recommendations can be adequately assessed. Engineering Testing Services cannot take responsibility for problems that may occur due to project changes if they are not consulted.

It is important to remember that the subsurface conditions described in the report represent the state of the site at the time of investigation. Natural processes and the activities of man can result in changes to site conditions. For example, ground water levels can change or fill can be placed on a site after the investigation is completed. If there is a possibility that conditions may have changed with time, Engineering Testing Services should be consulted to assess the impact on the recommendations of the report.

The site investigation only identifies the actual subsurface conditions at the location and time when the samples were taken. Geologists and engineers then extrapolate between the investigation points to provide an assumed three-dimensional picture of the site conditions. The report is based on the assumption that the site conditions as identified at the investigation locations are representative of the actual conditions throughout an area. This may not be the case and actual conditions may differ from those inferred to exist. This will not be known until construction has commenced. Your geotechnical report and the recommendations contained within it can therefore only be regarded as preliminary.

In the event that conditions encountered during construction are different to those described in the report, Engineering Testing Services should be consulted immediately. Nothing can be done to change the actual site conditions which exist but steps can be taken to reduce the impact of unexpected conditions. For this reason, the services of Engineering Testing Services should be retained through the development stage of a project.

Problems can occur when other design professionals misinterpret a report. To help avoid this, Engineering Testing Services should be retained for work with other design professionals to explain the implications of the report.

This report should be retained as a complete document and should not be copied in part, divided or altered in any way.

It is recommended that Engineering Testing Services is retained during the construction phase to confirm that conditions encountered are consistent with design assumptions. For example, this may involve assessment of bearing capacity for footings, stability of natural slopes or excavations or advice on temporary construction conditions.

This document has been produced to help all partiesinvolverecognisetheirindividualresponsibilities.

APPENDIX: 3

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EXISTING VEGETATION – TO BE REMOVED

Code	Botanical Name	Common Name	Nos.	Action	
DEL reg	Delonix regia	Poinciana	2	Remove	
DELIOG	Deternix regia	1 ontoiana	-	1.0111	

ISSUE	/ REVISI	ON				NE	DRAWING TITLE	
REV	DATE	NOTE	DRW	ARROVED			EXISTING VEGETATION PLAN	PLAN
						Kim Morris	PROJECT NUME A+J MACKAY RESIDENCE	GV CHECKED SCALE DATE FEB. 2018
					FILE NAME THE CONTRACTOR MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK OR MAKING OF ANY SHOP DRAWINGS, REURED DIMENSIONS MUST BE USED IN PREFERENCE TO SOALED DIMENSIONS ALL SOALED DIMENSIONS MUST BE VERIFIED ON SITE. THIS DRAWING IS COPYRIGHT AND REMAINS THE PROPERTY OF THE LANGSCHE ARCHITECT.	FAIH - Registered Horticulturist No. 0002 P 0409 59 1133 design@kimmmorris.com.au	LOT 21 WHARF STREET PORT DOUGLAS	JOB NO. DRAWING NO. REV

								A+J	МАСКА	Y RESI	DENCE
	Plant Schedule				per		Plant Schedule				per
Code	Botanical Name	Common Name	Cont	Nos	m2	Code	Botanical Name	Common Name	Cont	Nos	m2
CDV	PALMS	Lie eticle Deles	45 1001	10			PALMS				
CRY ren	Crytostachys renda	Lipstick Palm	45-100L 451	16 3		PAN ama	Pandandus amarafolius	Edibe Dwarf Pandanus	140mm	10	
RHA exc	Raphis excelsus	Raphis Palm	43L 300mm	5 12		PHI V XAN	Philodendron spp 'Xanadu'	Philodendron ' Xanadu' Dwarf	140mm	15	
	SHRUBS/GINGERS/HELICONIA					ZEP can	Zenhvranthes candida	White storm Lilv	140mm	200	10/m2
ALO mac	Alocasia machrohiza	Elephant Ears	200mm	10			CLIMBERS/RAMBLERS	White Storm Eny	14011111	200	10/112
ALP zer	Alpinia zerumbet	White ginger	200mm	5				Jasmine 'Grand Duke of			
COS bar	Costus barbadus	Sprial Costus	140mm	9		JAS V GRA	Jasminum spp	Tuscany'	140mm	10	
COS pro	Costus productus	Red Dwarf Costus	140mm	10				Dread Loof Cross	Chrime	45	
COS gua	Costus guanaiensis	Buddah Costus	140mm	5		ZOV mat	Axonopus compressus Zovcia matrella	Zovcia Grass	Strips	45m2	
GAR aug	Gardenia augusta 'Ocean Pearl'	Gardenia 'Ocean Pearl'	200mm	3		201 mat		209318 01 833	Strips	20112	
GAR psi	Gardenia psioidies	Gardenia 'Glennie River'	140mm	50	3/m2	LIR mus	Liriope muscari	Lily Turf	140mm	100	
HEL V HOT	Heliconia spp	Heliconia 'Hot Rio Nights'	200mm	5		LOM hys	Lomandra hystrix	Matt River Grass	140mm	3	
MUR pan	Murraya paniculata dwf	Murraya 'Min-a-Min'	140mm	8		OPI jap	Ophiopogon japonicus	Mondo grass	140mm	60	
OSM lin	Osmoxolyon linare	Thai Dancer	140mm	15							
15x PHI V X SERVICE GATE EXISTING FENCE 1800H PHORPHY CRAZY PAVERS 7x RHA — exe		FLAT TOP I POWDERC FENCE WIT GATE 3x GAR aug 10x ALO mac 3x LC ram	BLACK OATED TH 900W		VERS	- 88mm EKC DECK EDGE GAR psi - 3/m2	CRY ren	STRIP GARDEN (SEE KEY) CRY ren EXISTING DEL reg MUR pan with ZEP can edge CRY ren			
5x HEL v HOT 9x COS bar 5x ETL ela	pool fe	3 MON del	pool Jencing			gate DN		88mm EKO DECK EDGE POOL GATE			
			TERRA	ACE							N N
3x LOM Hy	s 1444 A								יער		N IS
10x COS pi			2				GARAGE	(SEE KEY)	77		HARF
5 ETL ela -		3ED 2						DDIVEWAY			ίĒ

ROBES

BED 4

ENTERTAINING

PORPHYRY STEPPERS

300-500 DIA.

5 COS gua

5 ALP zer

APPROX.

90

ENS

ROBES

WIR

X

°©jo

DRIVEWAY

300mm NIB WALL

RENDER BLOCK

SELECTED

ROCKS

EXCAVATION - All building rubble and other unsuitable material including weeds to be removed from areas to be turfed, paved, new garden and other landscape areas.

PORPHRY STEPPERS Crazy slabs set as single steppers within a garden edge of Ekodecking and infilled with 20mm river stone no higher than the finished level of the porphyry slab and in an excavation no deeper than the slab. Odd shaped steppers should be placed according to the average adult walking pace. Each slab should be level and set in place with brickies loam

POOL PAVING SURROUNDS AND DRIVEWAY- These are 600 x 900 x 40mm Limestone pavers.

Require a prepared level surface that has been levelled and compacted, A concrete slab is recommended as an underlay for stability.

Pavers are abutted and fixed to the slab.

Rounded or bull nosed edges at pool may be required as coping.

Pavers should be sealed with a patent sealer recommended for this product by the supplier.

GARDEN EDGING - Garden edging is Ekodeck recycled timber/plastic strips 88mm wide x 23mm x 5.4m long .Colour is charcoal. Decking edges are to be straight. Any joins should be square

The line of the strip decking should be level where possible.

The decking should be fixed with 30cm hardwood timber pegs on the garden side of the strip and fixed with galvanised screws.

GARDEN BED PREPARATION -. Cultivate all planting areas to a depth of 200mm after excavation and later, add 100mm garden mix.

PLANTER BOX - The upper level planter to have drainage arrangement inspected. Application of a waterproof membrane (x three applications between coats). Install Elmich 30mm drainage deck to the base and sides of the planter. Cover with 50% woven shade cloth (do not use geotextile). Apply 200mm thick layer washed 10/20mm Quinkan scoria. Cover with 50% woven shade cloth. Fill with potting mix (do not use garden mix). Apply, adjust or install irrigation as required. Install plants as per plan.

GARDEN MIX - Garden mix shall be spread to a minimum of 200mm to all shrub beds. Garden mix shall consist of an industry standard mix that incorporates sand, local mill mud or loam, crushed peanut shell or pine bark fines. It must be free of weed seeds and, nut grass.

The garden and top soils will have a median pH of approximately 5.0-7.0

All imported topsoil shall be free from materials toxic to plant growth, noxious weeds, stones, roots and other extraneous material. All soil deliveries should be inspected before dumping on site.

TURF -. Install Zoysia matrella to the upper front site (left of garage entry) as noted on plan.

Ground should be flat with a layer of 10-15mm crusher dust for levelling prior to laying. Rolling is not essential in this garden. Water this lawn for 15 minutes each day for two weeks

Axonopus compressus (Broadleaf grass) is noted for the area adjacent to the pool and pool fences.

Ground should be level. Apply 10-15mm crusher dust and level prior to planting. Lay ready rolled turf.

Roll with a water roller after without creating compaction. Water the lawn twice per day for 15minutes, for two weeks

STONE – Where noted stone mulches as ground or garden covers are 10-20mm Riverstone to be applied at 75mm.

ROCKS where specified will vary in size depending on portability. Ideally rock size from approximately 500mm to 1 metre or more depending on manoeuvrability.

PLANT SUPPLY – All plants to be supplied to be the species and container sizes specified unless otherwise approved.

They are to be well formed, hardened off nursery stock. They are to be container grown in potting mixture with a healthy root system, fully established but not pot bound. All pots to be supplied free of weeds and pests. Ex ground palms to have a minimum root ball in relation to their height. Check with Project Manager beforehand.

Installation with the use of fabric slings and well prepare planting holes that are wet soil.

PLANTING - Excavate a hole for each plant twice the diameter of root ball and minimum 100mm deeper than root ball. Sides and bottom of hole to be broken up with Gypsum added at a rate of 300gms per m2 prior to backfilling with garden mix. Placement of plants to be centre of hole and plumb with root ball level with finished surface of soil or garden bed. Lightly tamp and water thoroughly to eliminate air pockets. Ensure that topsoil is placed over top of root ball.

FERTILISER / SOIL CONDITIONING - For turf: 'Terra Cottem' soil conditioner or approved equivalent - Application rate: 200g/m2 to depth of 200mm. For planting: 'Agiform' fertiliser tablets or approved equivalent - Application rate: 1 per 140mm pot / 2 per 200mmm pot / 8 per 45lt bag / 12 per 200lt bag / 25 per ex ground palm. Avoid any fertilisers on transplanted ex ground stock.

TRANSPLANTING – Use liberal applications of Seasol Seaweed conditioner when replanting ex ground stock. Initial applications and at 10-day intervals for three weeks to assist in minimising transplant shock and reestablishment of feeder roots.

MULCH - Teatree mulch or equivalent shall be spread to a minimum depth of 100mm over all garden beds.

IRRIGATION - The irrigation system will be capable of watering all the new landscape areas a shown on the Landscape drawings. Care is to be taken to avoid any overspray onto paving. No low-density pipe is to be used up stream of the solenoid valves. 12mm dripper lines to be installed downstream of the solenoid valve and where noted on the irrigation plan. The irrigation system will conform to all relevant local authority regulations including the provision of the necessary backflow prevention devices. The irrigation system will include a filter guaranteed by the manufacturer to function effectively within these site conditions. The contractor will liaise with the designer and supplier to establish an as built irrigation drawing showing the location of all the valves, sprinklers, controllers and associated equipment.

Irrigation of turf will be required daily at least once morning and evening at a length of approximately 15 Minutes

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