

Peter Howman
Managing Director



15 April 2014

A handwritten signature in blue ink, appearing to read 'Cenip', is enclosed within a light blue rectangular box.

Submission No 01.5
DHA Tindal
Date: 15/04/2014

Mrs Karen Andrews MP
Chairperson
Parliamentary Standing Committee on Public Works
Parliament House
Canberra ACT 2600

Dear Mrs Andrews

**PROPOSED DEVELOPMENT OF HOUSING FOR DEFENCE at
RAAF BASE TINDAL, NT – AMENDED PROPOSAL**

We refer your advice dated 20 March 2014 requesting an additional hearing in this matter and advise that we have amended the original proposal submitted to PWC on 3 December 2013 to reflect issues raised during and subsequent to the first hearing held in Katherine.

Defence and DHA have revised the housing product to be provided at RAAF Base Tindal and now intend provisioning the 50 dwellings using the DHA Business as Usual (BAU) 'design and construct' delivery model in lieu of bespoke architecturally-designed houses. These proposed houses are our standard tropical-design dwellings, based on the 'DHA Construction Specification', which we are constructing across northern Australia. This revision of housing product has resulted in the total project cost reducing to \$47,143,115.

We look forward to briefing you and the committee on this amended proposal at the upcoming hearing.

Yours sincerely

Peter Howman
Managing Director

Attachments:

1. Floor plans and elevations of typical BAU houses
2. Proposed Layout Plan
3. Confidential Information
 - I. Revised breakdown of cost estimates
 - II. Detailed cost breakdown





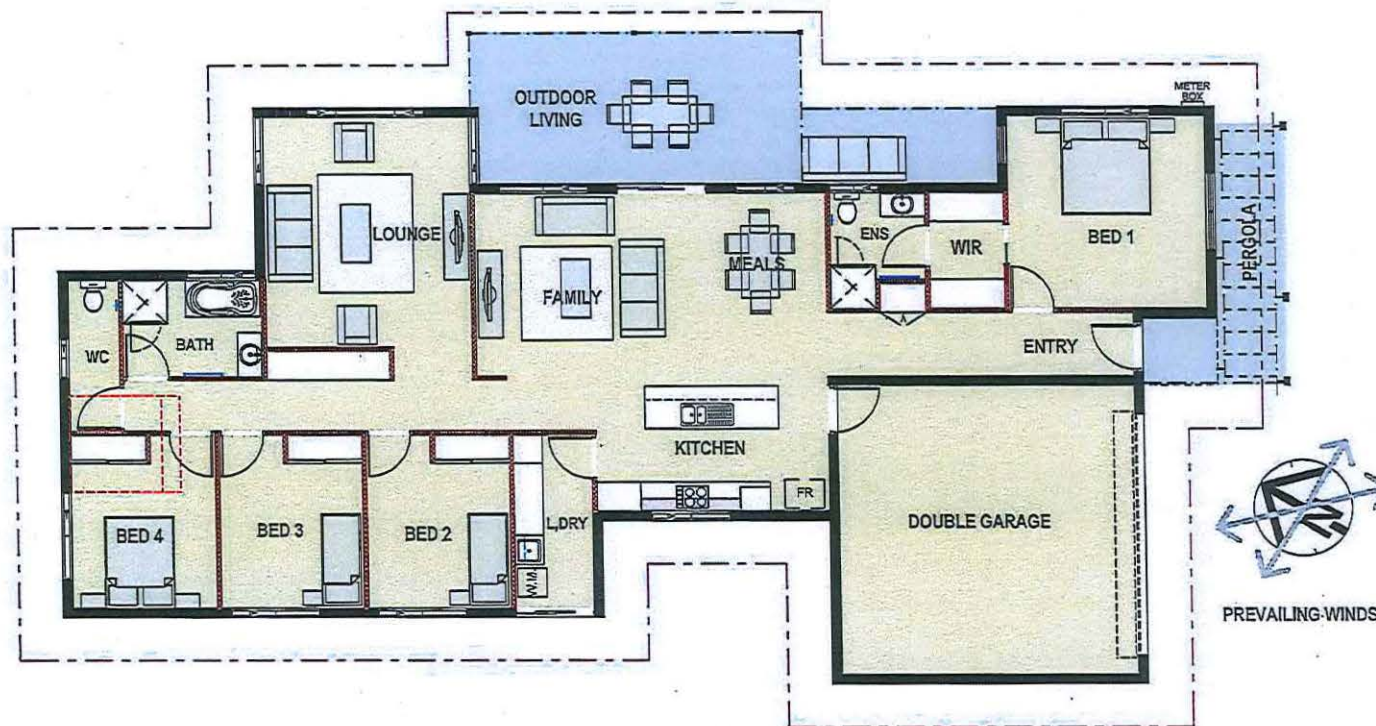


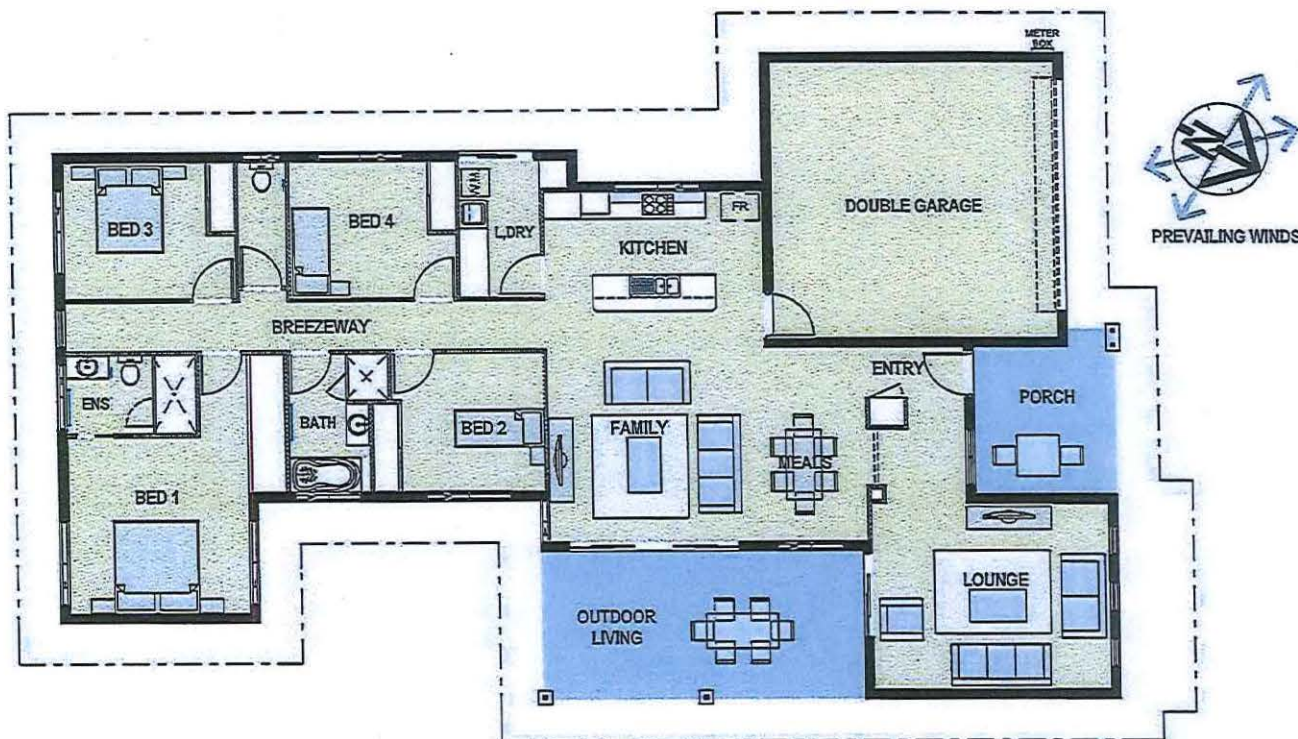
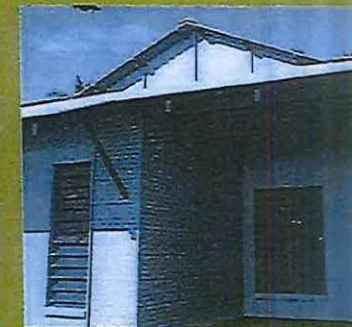




highlights

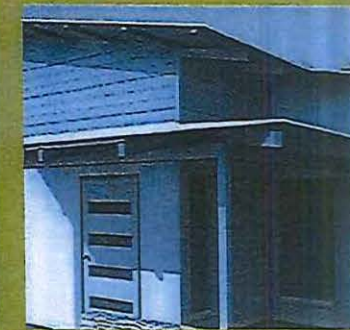
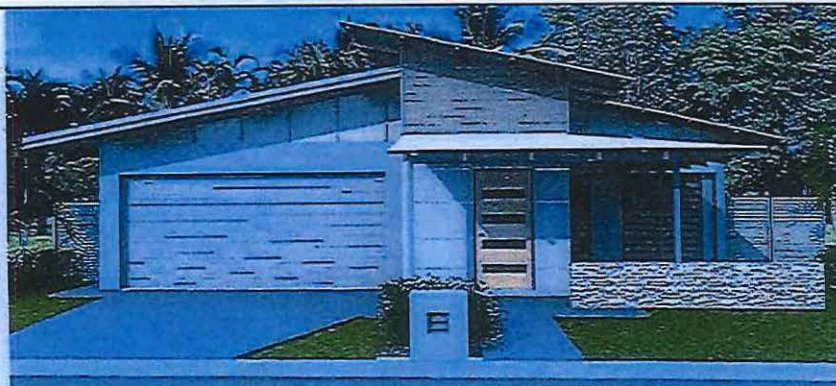
- 1 Breezeway
- 2 Crossflow
- 3 Island kitchen
- 4 Vented garage door
- 5 Seperate living area
- 6 Meals area close to external living
- 7 Skillion roof, ventilated & insulated
- 8 Tropical entry statement
- 9 Large overhangs, shade to walls & tropical feel with exposed rafters
- 10 Front pergola





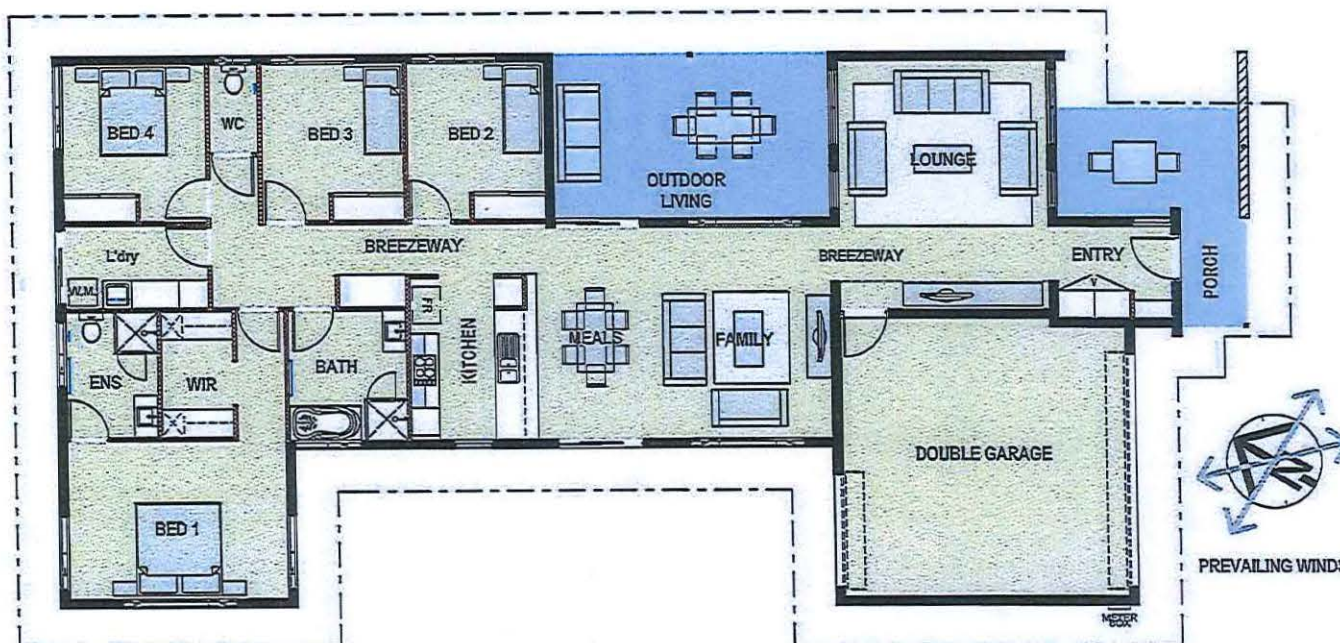
highlights

- 1 Breezeway
- 2 Crossflow
- 3 Island kitchen
- 4 Screening
- 5 Ventilation slots to garage door
- 6 Separate living area
- 7 Meals area close to external living
- 8 Hip Roof, high pitch insulated & ventilated
- 9 Deep front porch with maximum protection
- 10 Large overhangs, shade to walls & tropical feel with exposed rafters



highlights

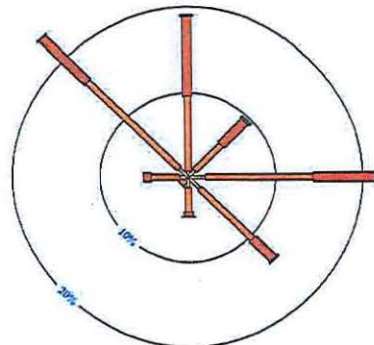
- 1 Breezeway
- 2 Crossflow
- 3 Island kitchen
- 4 Screening
- 5 Vented garage door
- 6 Seperate living area
- 7 Meals area close to external living
- 8 Skillion roof, ventilated & insulated
- 9 Shady front porch
- 10 Large overhangs, shade to walls & tropical feel with exposed rafters



WIND FREQUENCY ANALYSIS (in km/h)
DARWIN AIRPORT STATION NUMBER 014015
Latitude: -12.42 ° Longitude: 130.59 °

3 pm May to Sep
7580 Total Observations (1954 to 2003)

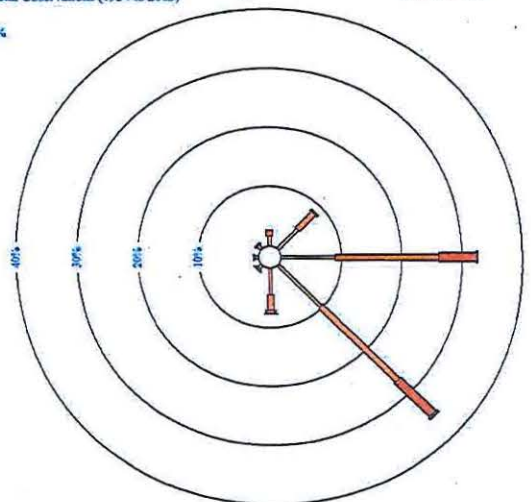
Calm 1%



WIND FREQUENCY ANALYSIS (in km/h)
DARWIN AIRPORT STATION NUMBER 014015
Latitude: -12.42 ° Longitude: 130.59 °

9 am May to Sep
7581 Total Observations (1954 to 2003)

Calm 9%



DRY SEASON

WET SEASON

Wind directions are divided into eight compass directions. Calm has no direction.
An asterisk (*) indicates that calm is less than 1%.
An observed wind speed which falls precisely on the boundary between two divisions (eg 10 km/h) will be included in the lower range (eg 1-10 km/h). Only quality controlled data have been used.

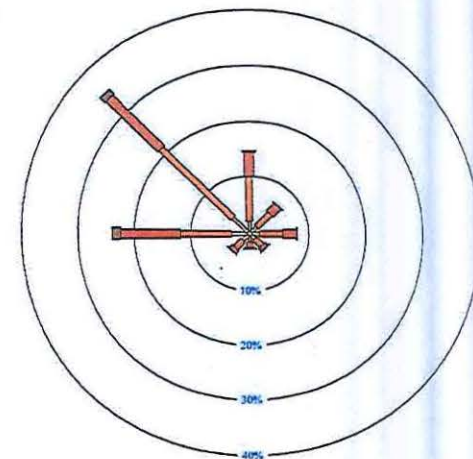


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WIND FREQUENCY ANALYSIS (in km/h)
DARWIN AIRPORT STATION NUMBER 014015
Latitude: -12.42 ° Longitude: 130.59 °

3 pm Oct to Apr
10847 Total Observations (1942 to 2004)

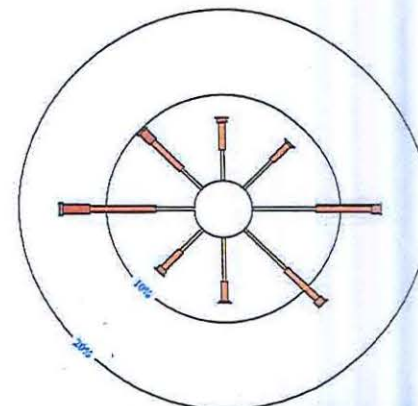
Calm 2%



WIND FREQUENCY ANALYSIS (in km/h)
DARWIN AIRPORT STATION NUMBER 014015
Latitude: -12.42 ° Longitude: 130.59 °

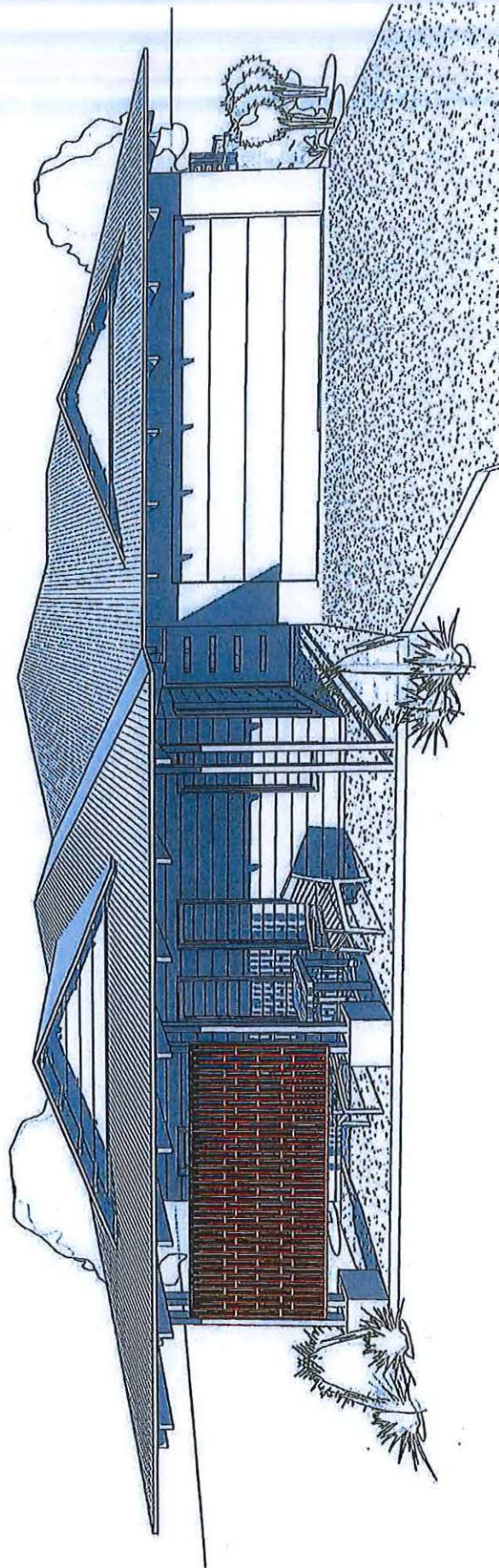
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10830 Total Observations (1942 to 2004)

Calm 17%

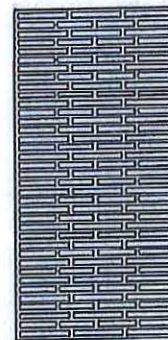




sheet title: FLOOR PLAN LOT 11181	
job no: 1351	drawn by: JM
date: 06.12.13	
scale (A3): 1:100	drawing no: 04







FACADE TYPE: HIP A
ARTISTS IMPRESSION ONLY



EXAMPLE OF SCREENING PATTERN

ISSUE: DESIGN DRAWINGS FOR TENDER

 <p>11 Dwyer PO Box 200 Parramatta NSW 2150</p>		 <p>CONTRACT NO. 11/000000 PROJECT NO. 11/000000 SUBJECT: RAAF Base Tindal 11/000000</p>		<p>GENERAL NOTES TO BUILDER: The design is based on the information provided by the client. The design is subject to change without notice. The design is not to be used for any other purpose without the written consent of the architect.</p>		<p>Proposed New Housing: For: DEFENCE HOUSING AUSTRALIA</p> <p>Project Address: "BREEZES ESTATE" MUIRHEAD, DARWIN, NT</p>		 		<p>sheet (of): FACADES</p> <p>job no: 1351</p> <p>drawn by: JM</p> <p>date: 05.12.13</p> <p>scale (AS): 00</p> <p>drawing no: 00</p>	
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DREIER STREET.

Floor Plan
1 : 100

M Design
PO Box 290
Perth Beach QLD 459

building design by michael broeren

BSA No. 1068053
Contact: Michael Broeren
t. 07 5471 2721
f. 0422 353 645

Ri-con

CONCRETE REINFORCEMENT
THE RICON GROUP OF COMPANIES IS A LEADING PROVIDER OF CONCRETE REINFORCEMENT SERVICES IN AUSTRALIA AND THE PACIFIC REGION. RICON GROUP OF COMPANIES IS A LEADING PROVIDER OF CONCRETE REINFORCEMENT SERVICES IN AUSTRALIA AND THE PACIFIC REGION.

GENERAL NOTES TO BUILDER

1. The builder shall be responsible for obtaining all necessary permits and approvals for the construction of the proposed housing.

2. The builder shall be responsible for ensuring that the construction of the proposed housing complies with all applicable building codes and standards.

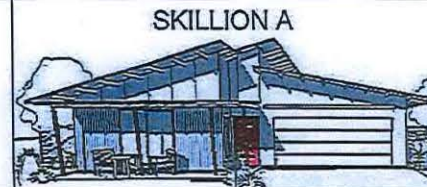
3. The builder shall be responsible for ensuring that the construction of the proposed housing is completed within the specified time frame.

4. The builder shall be responsible for ensuring that the construction of the proposed housing is completed within the specified budget.

5. The builder shall be responsible for ensuring that the construction of the proposed housing is completed to the satisfaction of the client.

Proposed New Housing:
For:
DEFENCE HOUSING AUSTRALIA

Project Address:
**"BREEZES ESTATE" MUIRHEAD,
DARWIN, NT.**



LOT 11246
4 BED
TYPE 1

AREAS:
LIVING: 170.5 sqm
GARAGE: 37 sqm
OUTDOOR: 20 sqm
PORCH: 14 sqm
FRONT PORCH: 12 sqm

sheet title:
**FLOOR PLAN
LOT 11246**

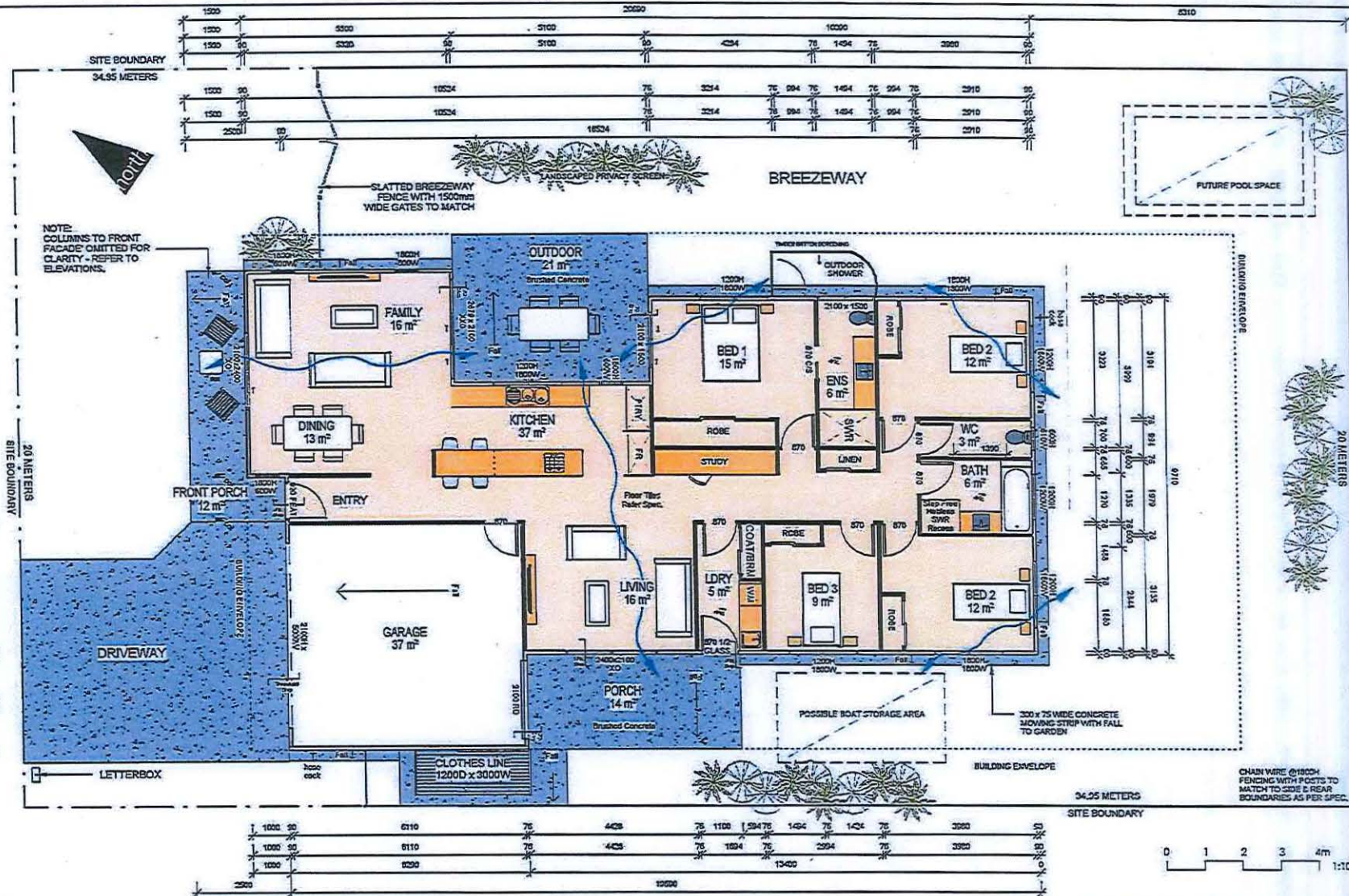
job no:
1351

drawn by:
JM

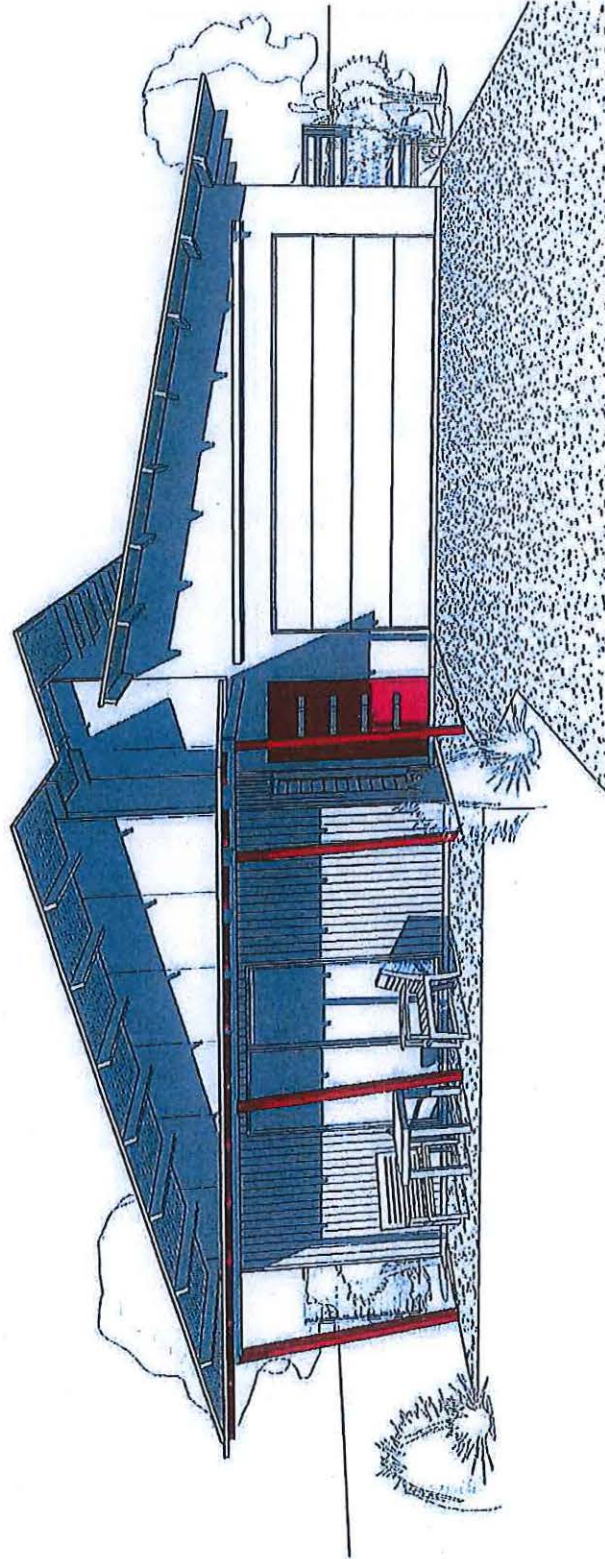
date:
06.12.13

scale (A3):
1 : 100

drawing no:
03



ISSUE: DESIGN DRAWINGS FOR TENDER



FACADE TYPE: SKILLION A

ARTISTS IMPRESSION ONLY

ISSUE: DESIGN DRAWINGS FOR TENDER

<p>sheet title:</p> <p>FACADES</p>	<p>job no:</p> <p>1351</p>	<p>drawn by:</p> <p>JM</p>	<p>date:</p> <p>06.12.13</p>	<p>scale (A3):</p> <p>00</p>	<p>drawing no:</p> <p>00</p>
<p>Breezes MUIRHEAD</p> <p>DHA Defence Housing Australia</p>	<p>Proposed New Housing: For DEFENCE HOUSING AUSTRALIA</p> <p>Project Address: "BREEZES ESTATE" MUIRHEAD, DARWIN, NT.</p>	<p>GENERAL NOTES TO BUILDER:</p> <p>1. All work to be completed in accordance with the specifications and standards of the Australian Building Standards Board (ABSB) and the Australian Building Standards Board (ABSB) and the Australian Building Standards Board (ABSB).</p> <p>2. All work to be completed in accordance with the specifications and standards of the Australian Building Standards Board (ABSB) and the Australian Building Standards Board (ABSB) and the Australian Building Standards Board (ABSB).</p> <p>3. All work to be completed in accordance with the specifications and standards of the Australian Building Standards Board (ABSB) and the Australian Building Standards Board (ABSB) and the Australian Building Standards Board (ABSB).</p>	<p>Ri-con</p> <p>CONCRETE REINFORCEMENT SUPPLY AND INSTALLATION SERVICES 100% COMPLIANT WITH THE REQUIREMENTS OF THE NATIONAL BUILDING REGULATIONS (NBR) 2012 FOR REINFORCING STEEL OF 420MPa</p>	<p>building design michael broeren</p> <p>PO Box 250 Parramatta NSW 2150</p> <p>ESN No. 11052020 Contact: Michael Broeren T: 07 567 1721 L: 022 553 645</p>	

