

FOR REFERENCE ONLY

This drawing is representative of the documentation requirements of Schedule 1. The content should not be relied upon as accurate for another building project.

Any specific manufacturer, product, material or components shown within this set of drawings has been included for example purposes only.

Site Information

Land Title Reference:	(Certificate folio and volume)
Wind Classification:	N3	Site classification to AS 4055-2006
Soil Classification:	M	Site classification to AS 2870-2011
Climate Zone:	7	(www.abcb.gov.au map)
BAL Level:	LOW	No areas of bushfire prone vegetation > 1ha within 100m of the building
Alpine Area:	N/A	BCA Figure 3.7.5.2
Corrosion Environment:	N/A	For steel subject to the influence of salt water, breaking surf or heavy industrial areas, refer to BCA section 3.4.2.2 & BCA Table 3.4.4.2. Cladding and fixings to manufacturer's recommendations
Other Hazards:	N/A	High wind, earthquake, flooding, landslip, dispersive soils, sand dunes, mine subsidence, landfill, snow & ice or other relevant factors
Floor Area:	213.5m²	
Patio Area:	16m²	

DRAWING SCHEDULE

- A01 - Cover Page
- A02 - Site Plan
- A03 - Floor Plan
- A04 - Footing / Slab Plan
- A05 - Details
- A06 - Roof Framing & Bracing Plan
- A07 - Roof Plan
- A08 - Drainage Plan
- A09 - Reflected Ceiling Plan
- A10 - Elevations
- A11 - Section & Notes
- A12 - Window Schedule
- A13 - Lighting Calculator
- A14 - Glazing Calculator

BP01 - Bushfire Protection Plan

(Provided for reference only - example building is not in a Bushfire-Prone Area)

UA01 - Universal Access Plan


(Non-Mandatory, provided for reference only)

Proposed Class 1a dwelling @:
1 Example Street, TASMANIA

Accredited Building Designer / Architect

Designer / Architect name

Accreditation number

			Accredited Practitioner: Name Address Phone number		Owner / Client: Consumer Building & Occupational Services Project: Class 1a (Single Storey) Example 1 Example Street, TASMANIA	Drawing Title: Cover Page	Date: 27/07/2016	Status: INFORMATION	
							Scale: NTS @ A3	Drawing No.: A01 (1 of 14)	Rev -
A	Drawing Schedule updated.	11.07.16							
Rev.	Amendment	Date							

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LEGEND & NOTES

Existing levels

New levels

Contour interval = 0.5 metre

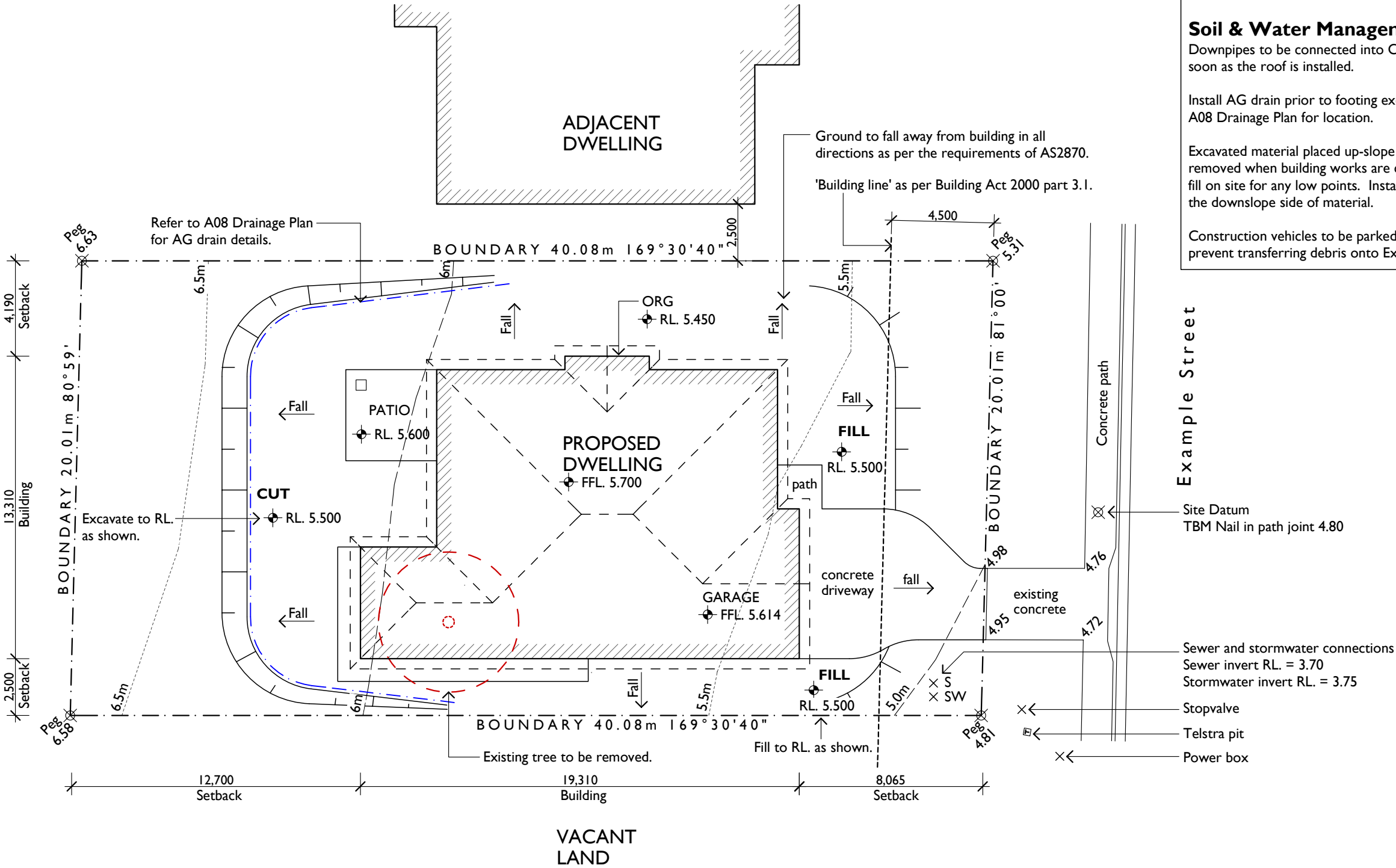
Soil & Water Management Strategies

Downpipes to be connected into Council stormwater as soon as the roof is installed.

Install AG drain prior to footing excavation. See drawing A08 Drainage Plan for location.

Excavated material placed up-slope of AG drain. To be removed when building works are complete and used as fill on site for any low points. Install a sediment fence on the downslope side of material.

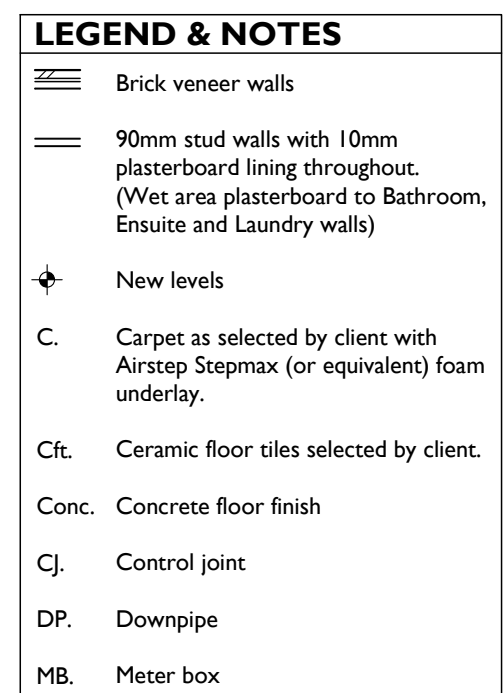
Construction vehicles to be parked on the street only, to prevent transferring debris onto Example Street.



SITE PLAN
scale 1:200
Site area 802m²

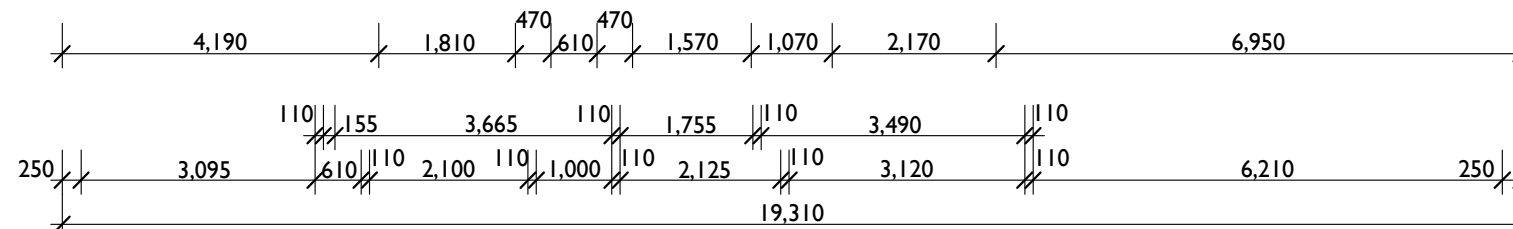
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			Name			Consumer Building & Occupational Services	Site Plan	27/07/2016	INFORMATION
			Address			Project:		Scale:	Drawing No.:
			Phone number			Class 1a (Single Storey) Example		1:200 @ A3	A002 (2 of 14)
Rev.	A	Building line added.	11.07.16			I Example Street, TASMANIA			Rev
		Amendment	Date						-



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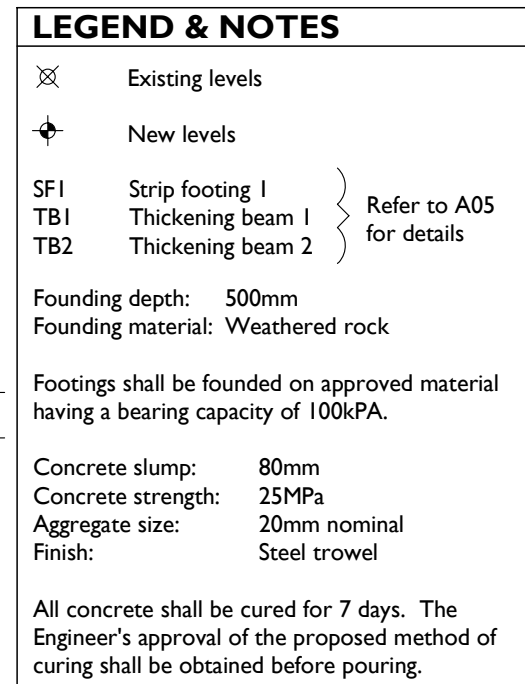
scale 1:100

Floor area 2 | 3.5m²





			Accredited Practitioner: Name Address Phone number			Owner / Client: Consumer Building & Occupational Services Project: Class 1a (Single Storey) Example 1 Example Street, TASMANIA	Drawing Title: Floor Plan	Date: 27/07/2016	Status: INFORMATION	
								Scale: 1:100 @ A3	Drawing No.: A03 (3 of 14)	Rev -
Rev.	Amendment	Date								

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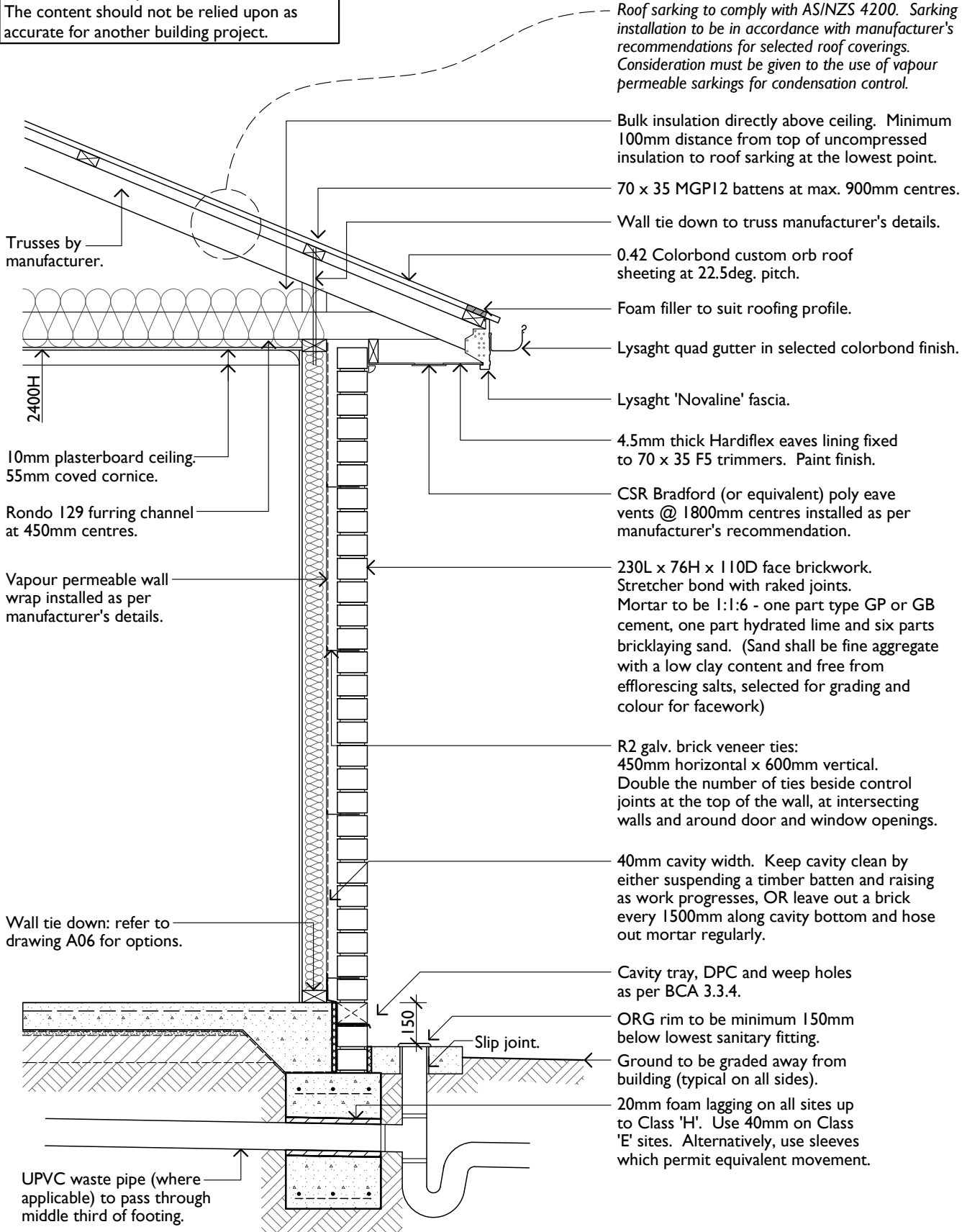
scale 1:100

Refer to drawing A08 for AG drains to be installed prior to footings.

			Accredited Practitioner: Name Address Phone number			Owner / Client: Consumer Building & Occupational Services	Drawing Title: Footing / Slab Plan	Date: 27/07/2016	Status: INFORMATION	
						Project: Class 1a (Single Storey) Example		Scale: 1:100 @ A3	Drawing No.: A04 (4 of 14)	Rev -
						I Example Street, TASMANIA				
Rev.	Amendment	Date								

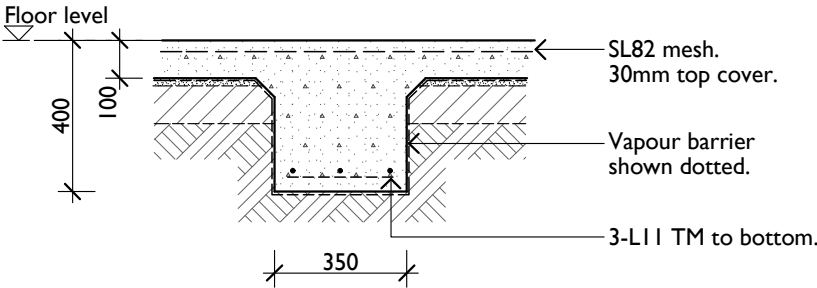
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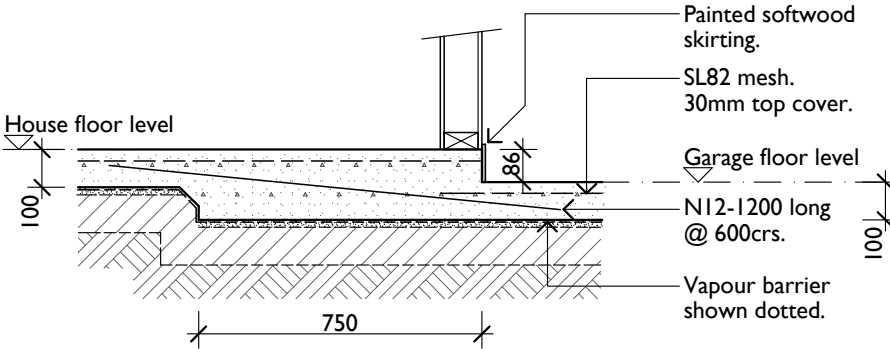
01 TYPICAL WALL SECTION DETAIL

scale 1:20



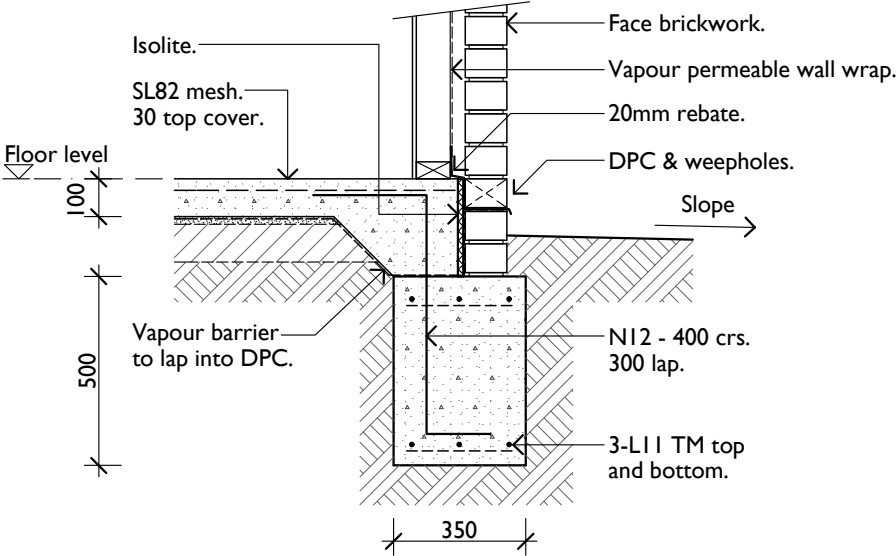
02 THICKENING BEAM 'TBI'

scale 1:20



03 THICKENING BEAM 'TB2'

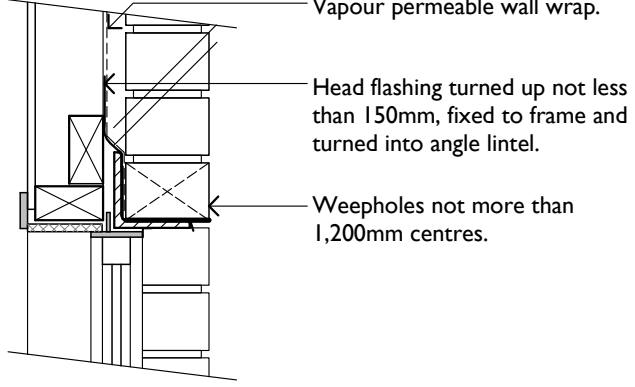
scale 1:20



04 FOOTING DETAIL 'SFI'

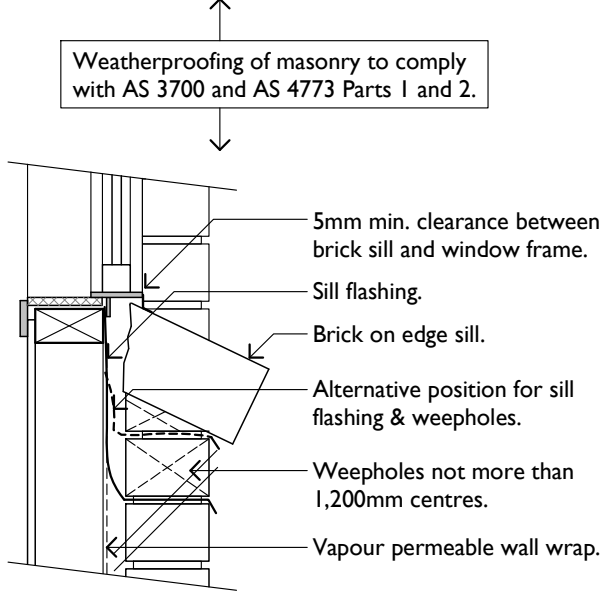
scale 1:20

Footing to comply with BCA 3.2.2.7, Figure 3.2.2.3. Alternative footing with slab rebate may be used with the Designer's approval.



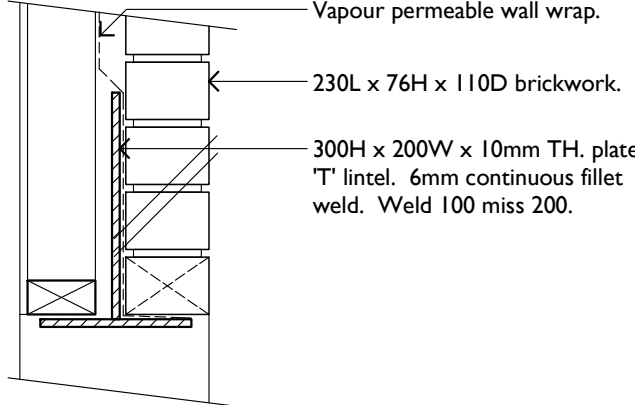
05 TYPICAL WINDOW HEAD DETAIL

scale 1:10



06 TYPICAL WINDOW SILL DETAIL

scale 1:10



07 GARAGE DOOR HEAD DETAIL

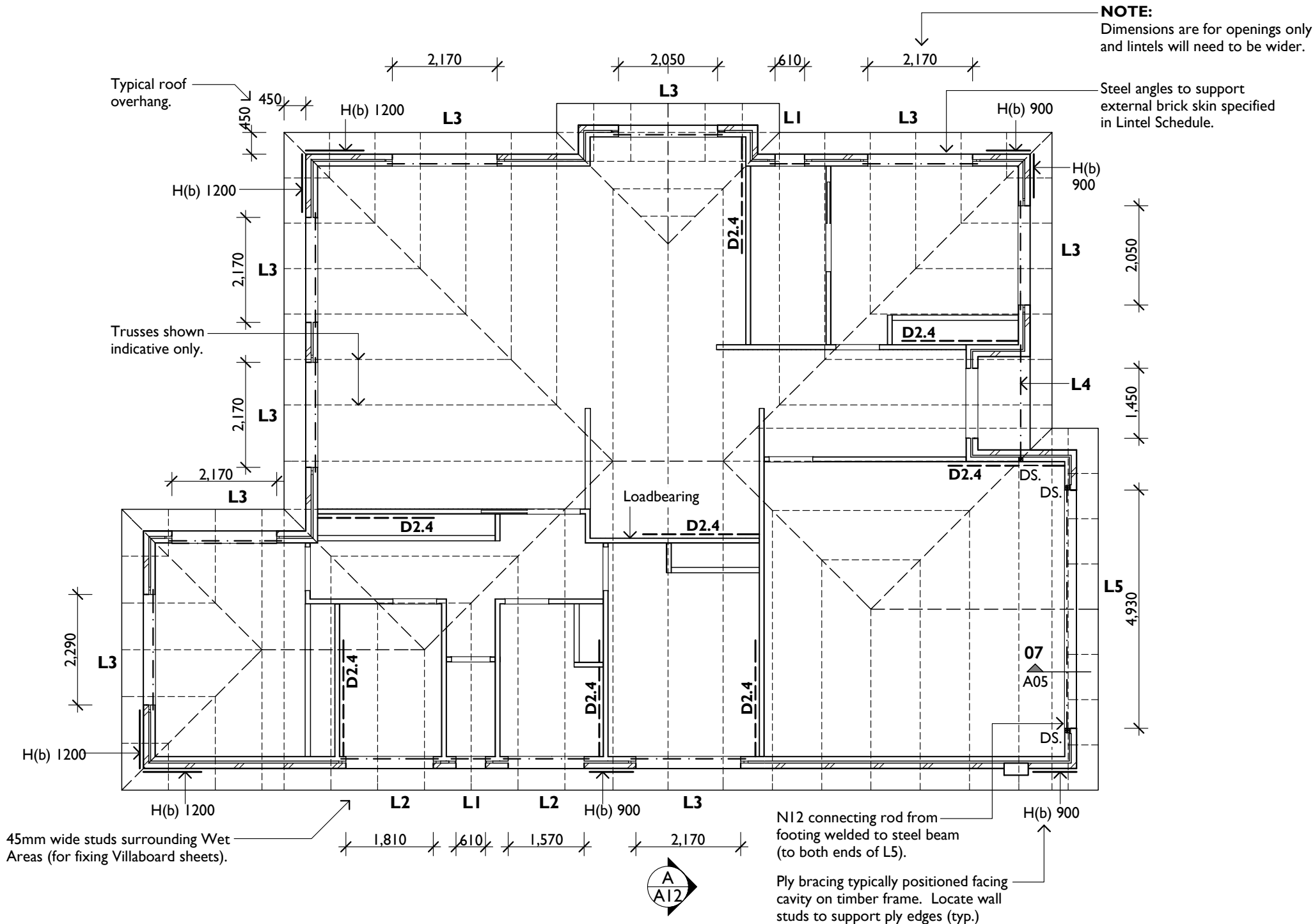
scale 1:10

			Accredited Practitioner:			Owner / Client:	Drawing Title:	Date:	Status:
			Name		North	Consumer Building & Occupational Services	Details	27/07/2016	INFORMATION
			Address			Project:			
			Phone number			Class 1a (Single Storey) Example			
Rev.	Amendment	Date				I Example Street, TASMANIA		Scale:	Drawing No.: Rev
								1:20, 1:10 @ A3	A05 (5 of 14) -



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ROOF FRAMING & BRACING PLAN

scale 1:100

Truss layout is shown indicative only. Truss manufacturer's layout takes precedence over this plan. This layout shows minimum bracing requirements. Additional bracing may be installed during construction.

LEGEND & NOTES

DS. Double stud
Roof pitch: 22.5°
Ceiling height: 2400mm

Roof battens typically 70 x 35 deep MGP12 @ 900 crs.

All timber construction to be in accordance with AS 1684.2 (Residential Timber Framed Construction) and the BCA.

Lintel Schedule

L1 90 x 45 F17
L2 140 x 45 F17
L3 190 x 45 F17
L4 240 x 45 F17
L5 300 x 200 x 10mm T-lintel (see A05)

Steel Angles

0 - 1500mm 75 x 100 x 10 Angle
1500 - 2000mm 100 x 100 x 10 Angle
2000 - 2400mm 150 x 100 x 10 Angle

Wall Framing

Wall framing to be min. MGP10 radiata pine
Common studs 90 x 35 @ 450 crs
Studs around Wet Areas 90 x 45 @ 450 crs
Noggings 90 x 35
Open studs 90 x 35
Top & bottom plates 90 x 45

Specific Tiedowns (Softwood JD4)

Bottom plate to slab	Chemical, expansion or fired proprietry fasteners to manufacturer's recommendations OR I-M10 bolt at 1200 crs max. generally
Top and bottom plates to studs	30 x 0.8mm G.I. strap at 1200 max. crs 6/30 x 2.8mm Ø nails each end of strap
Lintels to studs	1800mm span max. 30 x 0.8mm G.I. strap 4/30 x 2.8mm Ø nails each end 6000mm span max. 2/30 x 0.8mm G.I. straps 6/30 x 2.8mm Ø nails each end
Roof trusses to top plates	30 x 0.8mm G.I. strap 4/30 x 2.8mm Ø nails each end OR two framing anchors
Roof battens to trusses	Within 1200mm of any edge: 2/75 x 3.05mm Ø deformed shank nails OR 75 long - No. 14 Type 17 screw OR 1 framing anchor 4-2.8mmØ nails each leg General area: More than 1200mm of any edge 2/75 x 3.05mm Ø deformed shank nails at 900 crs each way
Refer to AS1684.4	

All nails used for framing anchors & straps shall be corrosion protected flat head connector nails. (Galvanised clouts can be used for this purpose)

Bracing

H(b) 1200 Ply bracing per AS1684 Table 8.18h, giving 6kN/m. (1.2m indicated)
D(2.4) Double tensioned metal strap per Table 8.18d, giving 3kN/m. (2.4m indicated)

Bracing & tie downs are to comply with AS 1684.2 and the BCA.

		Accredited Practitioner: Name Address Phone number			Owner / Client: Consumer Building & Occupational Services Project: Class 1a (Single Storey) Example 1 Example Street, TASMANIA	Drawing Title: Roof Framing & Bracing Plan	Date: 27/07/2016	Status: INFORMATION
Rev.	Amendment						Scale: 1:100 @ A3	Drawing No.: A06 (6 of 14)
								Rev -

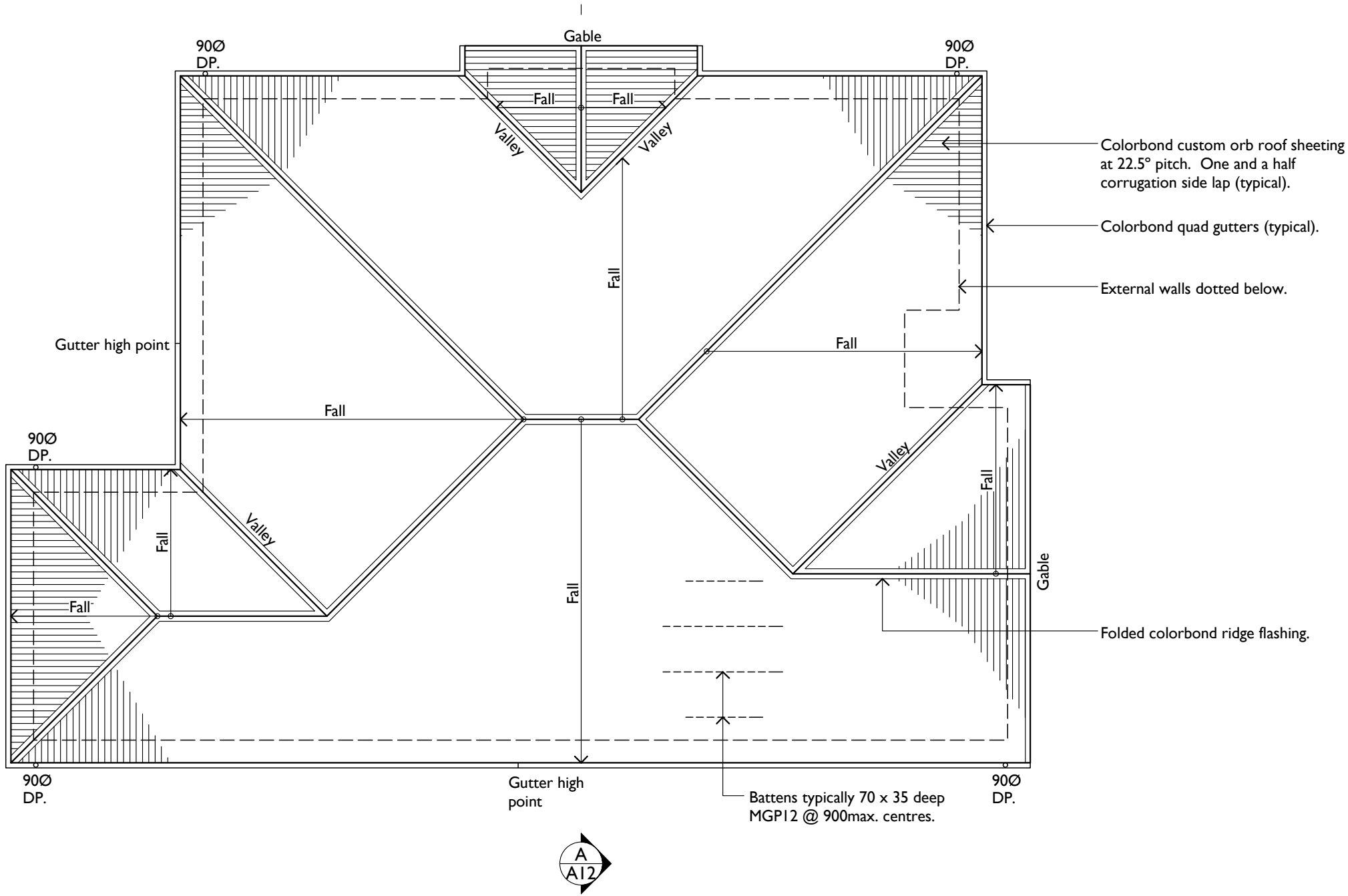
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LEGEND & NOTES

Colorbond custom orb roof sheeting crest fixed at side laps with 3 fixings for internal spans and 5 for end spans.

Fix with RoofZips M6 x 50mm (or equal).
Colour: Windspray.

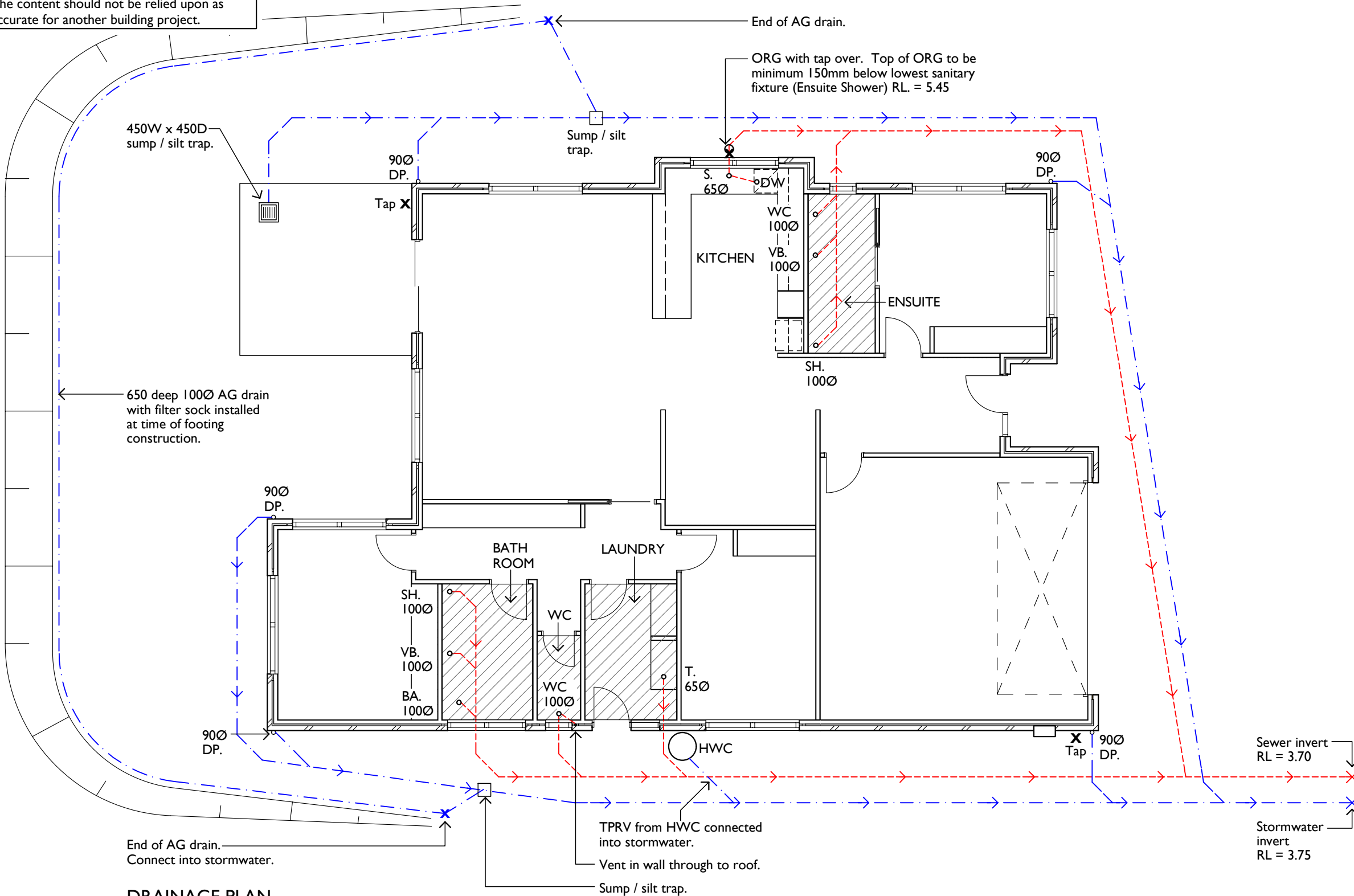


ROOF PLAN
scale 1:100

			Accredited Practitioner: Name Address Phone number			Owner / Client: Consumer Building & Occupational Services Project: Class 1a (Single Storey) Example 1 Example Street, TASMANIA	Drawing Title: Roof Plan	Date: 27/07/2016	Status: INFORMATION
								Scale: 1:100 @ A3	Drawing No.: A07 (7 of 14)
									Rev -
Rev.	Amendment	Date							

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DRAINAGE PLAN
scale 1:100

NOTE: Liaise with Electrician to install drain from A/C unit condensor into stormwater drain.

LEGEND & NOTES

- Stormwater line (100mm UPVC)
- Sewer line (100mm UPVC)
- Wet areas shown hatched. Refer to notes on drawing A11 for waterproofing information.

Install inspection openings at major bends for stormwater and all low points of downpipes.

All plumbing & drainage to be in accordance with local Council requirements.

Provide surface drain to back of bulk excavation to drain levelled pad prior to commencing footing excavation.

Services

The heated water system must be designed and installed with Part B2 of NCC Volume Three - Plumbing Code of Australia.

Thermal insulation for heated water piping must:

- a) be protected against the effects of weather and sunlight; and
- b) be able to withstand the temperatures within the piping; and
- c) use thermal insulation in accordance with AS/NZS 4859.1

Heated water piping that is not within a conditioned space must be thermally insulated as follows:

1. Internal piping

- a) All flow and return internal piping that is -
 - i) within an unventilated wall space
 - ii) within an internal floor between storeys; or
 - iii) between ceiling insulation and a ceiling

Must have a minimum R-Value of 0.2 (ie 9mm of closed cell polymer insulation)

2. Piping located within a ventilated wall space, an enclosed building subfloor or a roof space

- a) All flow and return piping
- b) Cold water supply piping and Relief valve piping - within 500mm of the connection to central water heating system

Must have a minimum R-Value of 0.45 (ie 19mm of closed cell polymer insulation)

3. Piping located outside the building or in an unenclosed building sub-floor or roof space

- a) All flow and return piping
- b) Cold water supply piping and Relief valve piping - within 500mm of the connection to central water heating system

Must have a minimum R-Value of 0.6 (ie 25mm of closed cell polymer insulation)



Piping within an insulated timber framed wall, such as that passing through a wall stud, is considered to comply with the above insulation requirements.

			Accredited Practitioner:		Owner / Client:	Drawing Title:	Date:	Status:
			Name		Consumer Building & Occupational Services	Drainage Plan	27/07/2016	INFORMATION
			Address		Project:		Scale:	Drawing No.:
			Phone number		Class 1a (Single Storey) Example		1:100 @ A3	A08 (8 of 14)
Rev.	Amendment	Date			I Example Street, TASMANIA			Rev
								-

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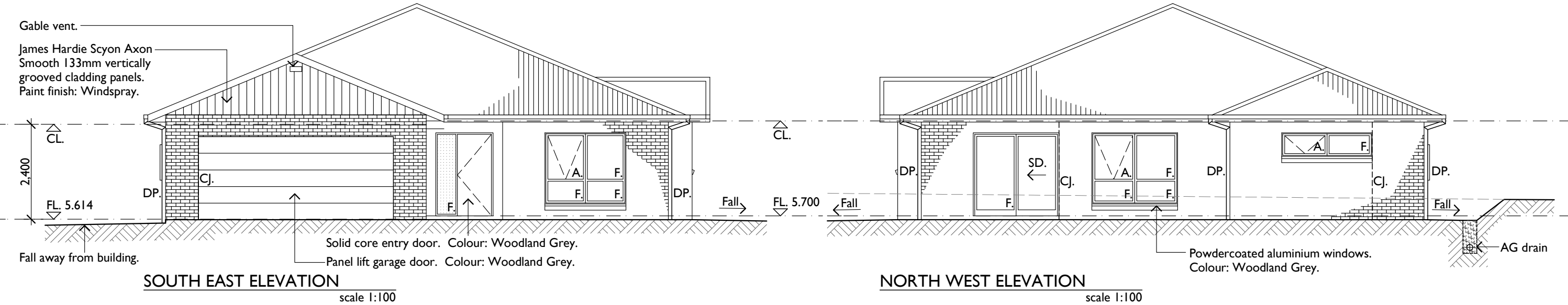
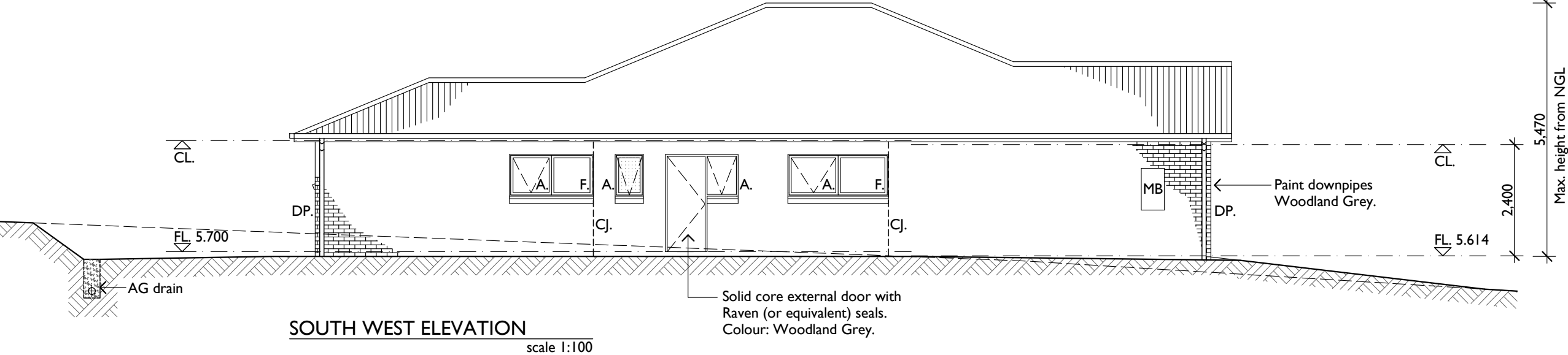
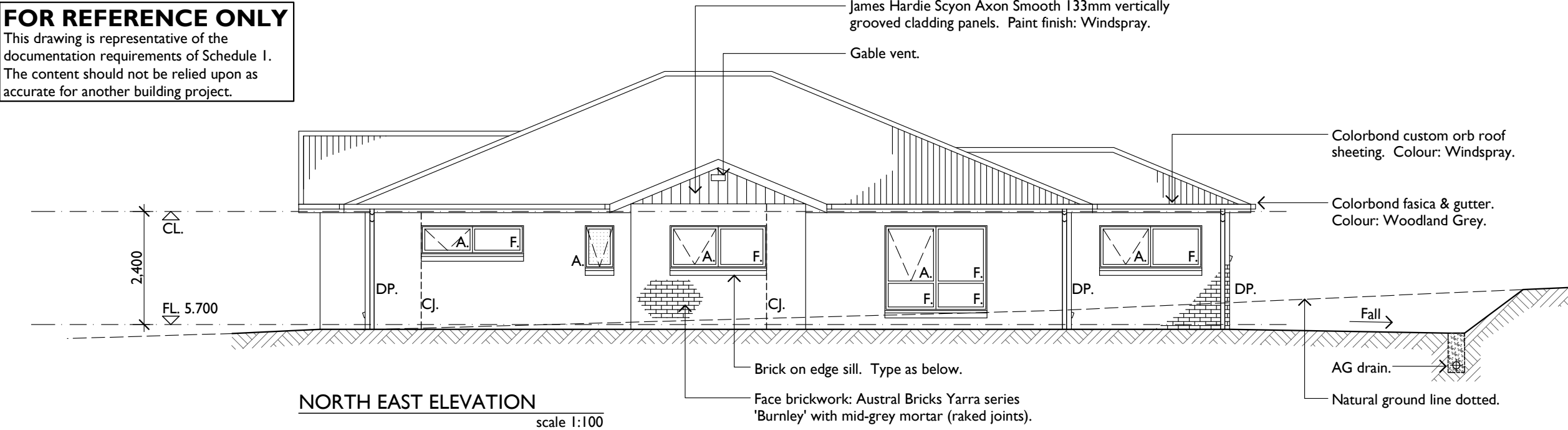



R5.0 batts required to ceiling

			Accredited Practitioner:	 	Owner / Client:	Drawing Title: Reflected Ceiling Plan	Date:	Status:
			Name		Consumer Building & Occupational Services		27/07/2016	INFORMATION
			Address		Project:		Scale:	Drawing No.:
			Phone number		Class 1a (Single Storey) Example		1:100 @ A3	Rev
Rev.	Amendment	Date			1 Example Street, TASMANIA			A09 (9 of 14) -

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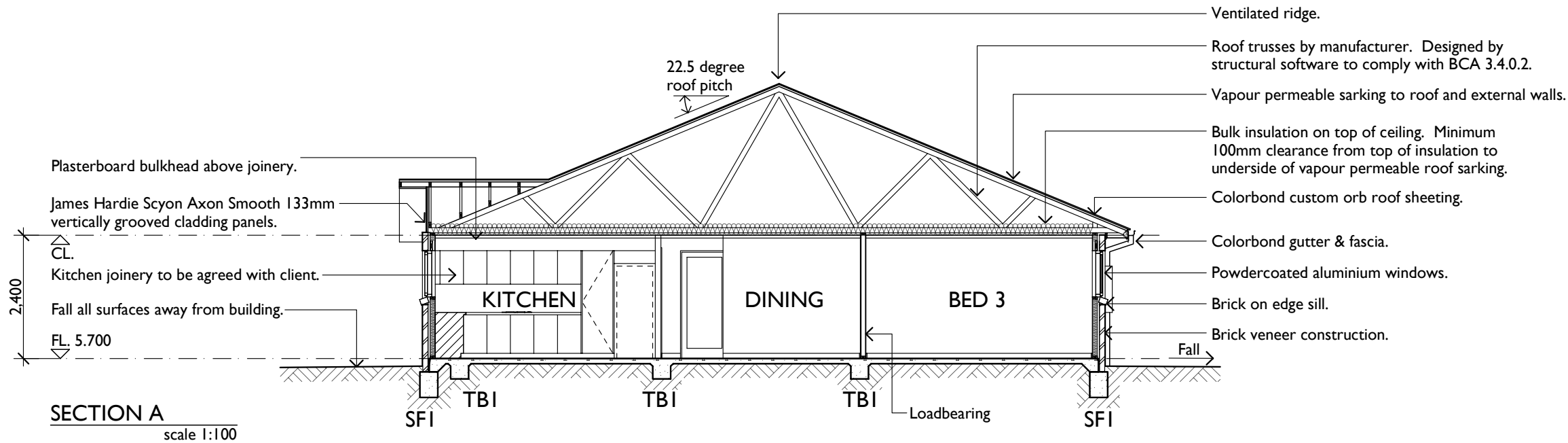
LEGEND & NOTES	
CJ.	Control joint
DP.	Downpipe
SD.	Sliding door
A.	Awning window
F.	Fixed window
CL.	Ceiling level
FL.	Floor level



			Accredited Practitioner: Name Address Phone number	North		Owner / Client: Consumer Building & Occupational Services Project: Class 1a (Single Storey) Example 1 Example Street, TASMANIA	Drawing Title: Elevations	Date: 27/07/2016	Status: INFORMATION					
												Scale: 1:100 @ A3	Drawing No.: A10 (10 of 14)	Rev -
Rev.	Amendment	Date												

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Wet Areas (To comply with BCA 3.8.1.2 and AS 3740)

Vessels or area where the fixture is installed	Floors and horizontal surfaces	Walls	Wall junctions and joints	Wall / floor junctions	Penetrations
Shower area (applies to Ensuite and Bathroom)					
With preformed shower base	N/A	Ceramic tiles to shower walls 1800mm above finished floor level of the shower.	Membrane 'M01'.	Membrane 'M01'.	Waterproof tap and spout penetrations in vertical surfaces with 'Waterbar' tap penetration flange and silicone.
Area outside shower area (applies to Ensuite and Bathroom)					
Concrete floor	Membrane 'M01' to entire floor of room. Ceramic floor tiles.	N/A	N/A	Membrane 'M02'.	N/A
Area adjacent to bath (applies to Bathroom)					
Concrete floor	Membrane 'M01' to entire floor of room. Ceramic floor tiles.	a) 150mm min. high ceramic tile splashback to perimeter of bath b) Ceramic tile upstand from floor level to underside lip of bath.	White silicone to junctions within 150mm above bath (3 x walls).	Ceramic tile upstand to extent of bath.	Waterproof tap and spout penetrations in horizontal surfaces with 'Waterbar' tap penetration flange and silicone.
Other areas					
Laundry and WC	Ceramic floor tiles.	N/A	N/A	Membrane 'M02' + Ceramic tile skirting.	
Walls adjoining sink, basin or laundry tub	N/A	150mm min. high ceramic tiled splashback for extent of vessel, where the vessel is within 75mm of a wall.	Waterproof wall junction where vessel is fixed to a wall with silicone.	N/A	Waterproof tap and spout penetrations if within splashback with 'Waterbar' tap penetration flange and silicone.

KEY

Membrane 'M01': Dunlop (or similar) shower waterproofing kit complete with reinforcing mat, primer, neutral cure silicone and membrane to manufacturer's recommendations.
Membrane 'M02': Dunlop (or similar) water based acrylic polyurethane membrane applied by either brush or roller in a consistent thickness to manufacturer's recommendations.

LEGEND & NOTES

Energy Efficiency (Refer BCA 3.12)

A seal to restrict air infiltration must be fitted to each edge of an external door & openable window (including internal garage door). (A window complying with the maximum air infiltration rates specified in AS 2047 need not comply with the above).

A seal for the bottom edge of an external swing door (including internal garage door) must be a draft protection device (Raven or equivalent). Other edges of an external swing door or the edges of an openable window may be a foam or rubber compressible strip, fibrous seal or the like.

Roof, external walls, external floors and openings such as door and window frames must be constructed to minimise air leakage, ie:
- Enclosed by internal lining systems that are close fitting at the ceiling, wall and floor junctions; OR
- Sealed by caulking, skirting, architraves, cornices or the like.

Sarking

Vapour permeable wall wrap installed as per manufacturer's instructions. (Will be specific for different buildings).

Vapour permeable roof sarking installed as per manufacturer's instructions. (Will be specific for different buildings).

Condensation

Reference should be made to the ABCB Condensation in Buildings Handbook 2014 (download from www.abcb.gov.au), and Condensation in Buildings Tasmanian Designers' Guide (by Building Standards and Occupational Licensing)
It is the Designer / Architect's responsibility to consider condensation control.

Insulation requirements (Climate Zone 7)

External walls:	R2.8 required
BCA value for brick veneer construction:	R0.56
Reflective sarking (facing cavity):	R0.43
R2.0 wall batts:	R2.0
	R2.99 achieved

Roof & Ceiling:	R4.6 required
(based on Solar Absorptance value of 0.45):	
BCA value for pitched roof & flat ceiling:	R0.21
Reflective sarking (in a ventilated roof space):	R0.59
R5.0 batts on top of ceiling:	R5.0
	R5.8 achieved


Concrete slab on ground:	0 required
(Not required unless containing an in-slab heating system)	

Garage

Refer to A03 Floor Plan for location of R2.0 insulation to walls separating Garage from the dwelling. No other insulation is required to external garage walls.
No insulation is required to garage ceiling.

Complies with minimum 6 star requirements of BCA 2014. Refer also to drawing A12 Window Schedule and attached A4 Glazing Calculator.

ALL WORK SHALL BE IN ACCORDANCE & COMPLY WITH THE BUILDING CODE OF AUSTRALIA, COUNCIL BY-LAWS, RELEVANT AUSTRALIAN STANDARDS AND CURRENT WORKPLACE STANDARDS CODES OF PRACTICE.

			Accredited Practitioner:			Owner / Client:	Drawing Title:	Date:	Status:
			Name	North		Consumer Building & Occupational Services	Section & Notes	27/07/2016	INFORMATION
			Address			Project:			
			Phone number			Class 1a (Single Storey) Example			
Rev.	Amendment	Date				I Example Street, TASMANIA		Scale:	Drawing No.: Rev
								1:100 @ A3	A11 (11 of 14) -

FOR REFERENCE ONLY

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Window Schedule (to be read with A4 Glazing Calculator document)									
No.	Window Size	Setout	Operation	Opening size	Glass Values	Glass Type	Frame	Orientation	Notes
W01	1800H x 2170W	Sill @ 300 Head @ 2100	Awning	1.06m ²	U-Value = 2.6 or less SHGC = 0.55 or less	Clear double glazing	Themally broken aluminium	North-East	
W02	900H x 2050W	Sill @ 1200 Head @ 2100	Awning	0.92m ²	U-Value = 2.6 or less SHGC = 0.55 or less	Clear double glazing	Themally broken aluminium	North-East	
W03	900H x 610W	Sill @ 1200 Head @ 2100	Awning	0.35m ²	U-Value = 2.6 or less SHGC = 0.55 or less	White translucent double glazing	Themally broken aluminium	North-East	
W04	600H x 2170W	Sill @ 1500 Head @ 2100	Awning	0.65m ²	U-Value = 2.6 or less SHGC = 0.55 or less	Clear double glazing	Themally broken aluminium	North-East	
W05	1800H x 2050W	Sill @ 300 Head @ 2100	Awning	1.00m ²	U-Value = 2.6 or less SHGC = 0.55 or less	Clear double glazing	Themally broken aluminium	South-East	
W06	2100H x 550W	Sill @ FL Head @ 2100	Fixed sidelight (beside door)	0.58m ²	U-Value = 2.8 or less SHGC = 0.62 or less	White translucent double glazed Grade A toughened laminated safety glass	Themally broken aluminium	South-East	Sidelight to Entry door
W07	900H x 2170W	Sill @ 1200 Head @ 2100	Awning	0.98m ²	U-Value = 2.6 or less SHGC = 0.55 or less	Clear double glazing	Themally broken aluminium	South-West	
W08	900H x 670W	Sill @ 1200 Head @ 2100	Awning (beside door)	0.52m ²	U-Value = 2.6 or less SHGC = 0.55 or less	Clear double glazing	Themally broken aluminium	South-West	Sidelight to Laundry door
W09	900H x 610W	Sill @ 1200 Head @ 2100	Awning	0.35m ²	U-Value = 2.6 or less SHGC = 0.55 or less	White translucent double glazing	Themally broken aluminium	South-West	
W10	900H x 1810W	Sill @ 1200 Head @ 2100	Awning	0.81m ²	U-Value = 2.6 or less SHGC = 0.55 or less	Clear double glazing	Themally broken aluminium	South-West	
W11	600H x 2290W	Sill @ 1500 Head @ 2100	Awning	0.68m ²	U-Value = 2.6 or less SHGC = 0.55 or less	Clear double glazing	Themally broken aluminium	North-West	
W12	900H x 2170W	Sill @ 1200 Head @ 2100	Awning	0.97m ²	U-Value = 2.6 or less SHGC = 0.55 or less	Clear double glazing	Themally broken aluminium	North-East	
W13	1800H x 2170W	Sill @ 300 Head @ 2100	Awning	1.06m ²	U-Value = 2.6 or less SHGC = 0.55 or less	Clear double glazing	Themally broken aluminium	North-West	
W14	2100H x 2170W	Sill @ FL Head @ 2100	Sliding door	2.28m ²	U-Value = 2.7 or less SHGC = 0.60 or less	Clear double glazed Grade A toughened laminated safety glass	Themally broken aluminium	North-West	Opaque band (see Typical Notes)

All frames to be powdercoated aluminium, colour: Woodland Grey

Natural Light and Ventilation						
PART 3.8.4 LIGHT Minimum 10% of the floor area of a habitable room required (natural light).						
PART 3.8.5 VENTILATION Minimum 5% of the floor area of a habitable room required. (An exhaust fan may be used for a sanitary compartment, laundry or bathroom provided contaminated air discharges directly to the outside of the building by way of ducts).						
Room	Area	Window no.	Light required	Light achieved	Ventilation required	Ventilation achieved
Living/Kitchen/Dining	67.69m ²	W01, W02 W13, W14	6.77m ²	14.2m ²	3.38m ²	5.32m ²
Bedroom 1	13.3m ²	W04, W05	1.33m ²	4.99m ²	0.67m ²	1.65m ²
Bedroom 2	13.65m ²	W11, W12	1.37m ²	3.33m ²	0.68m ²	1.65m ²
Bedroom 3	12.5m ²	W07	1.25m ²	1.95m ²	0.63m ²	0.98m ²

LEGEND & NOTES

Refer to A10 Elevations for window positions and styles.

Flyscreens to be fitted to all openable windows and doors.

Glazing requirement as outlined in the attached Glazing Calculator can be achieved with the following within a thermally broken aluminium frame:

Type	Glazing	U-Value	SHGC
Awning	4Clr / 12Ar / 4Clr	2.6	0.55
Fixed window	4 / 12Ar / 4	2.8	0.62
Sliding door	5Clr / 12Ar / 5Clr	2.7	0.6

Alternative options from glazing supplier may be presented to the Designer and Building Surveyor in the form of a new Glazing Calculator.

Glazing types available in Tasmania can be accessed at www.wers.net.

Shower screens

1800H Semi-frameless shower screens to comply with BCA Table 3.6.5. & AS1288. Minimum 4mm thick Grade A toughened safety glass, labelled to comply with industry standards.

Opaque bands

Where glazed doors or side panels are capable of being mistaken for a doorway or opening, the glass must be marked to make it readily visible as follows:


- Marking in the form of an opaque band not less than 20mm in height;
- The upper edge is not less than 700mm above the floor;
- The lower edge is not more than 1200mm above the floor.

Flashings to wall openings

All openings must be adequately flashed using materials that comply with AS/NZS 2904.

Refer to drawing A05 for window head and sill details. Flashing to be installed with glazing manufacturer's specifications for brick veneer construction.

ALL GLAZED WINDOW & DOOR ASSEMBLIES IN EXTERNAL WALLS TO COMPLY WITH AS 2047. ALL OTHER GLASS TO COMPLY WITH AS 1288.

			Accredited Practitioner:		 Tasmanian Government	Owner / Client: Consumer Building & Occupational Services Project: Class 1a (Single Storey) Example 1 Example Street, TASMANIA	Drawing Title: Window Schedule	Date: 27/07/2016	Status: INFORMATION
			Name					Scale: NTS @ A3	Drawing No.: A12 (12 of 14)
			Address						
			Phone number						
Rev.	Amendment		Date						Rev -

FOR REFERENCE ONLY
This drawing is representative of the documentation requirements of Schedule I. The content should not be relied upon as accurate for another building project.

Report from 14.017 - Glazing Calculator.xlsx

printed 13/09/2014

NCC VOLUME TWO GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

1 Example Street, TAS

Climate zone

7

	C _U	C _{SHGC}
CONSTANTS	5.486	0.191

Storey

1

Floor Construction

Direct contact

214m²

Wall insulation option chosen for 3.12.1.4

Air Movement

1.1 x Std

Suspended

No wall insulation concession used

Area of storey 214m²

Area of glazing 29.0m² (14% of area of storey)

	C _U (only)	C _{SHGC} x Area
ALLOWANCES	5.5	40.9

Number of rows for table below

14 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS								SHADING		CALCULATION DATA			CALCULATED OUTCOMES - OK (if inputs are valid)			
Glazing element		Orientation		Size		Performance		P&H or device		Exposure		Size	Conductance - PASSED		Solar heat gain - PASSED	
ID	Description (optional)	Facing sector	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	Es	Area used (m ²)	U x area / winter access	Element share of % of allowance used	SHGC x Es x area	Element share of % of allowance used
1	W01	NE	1.80	2.17		2.60	0.55	0.45	1.90	0.24	0.81	3.91	0.69	13% of 95%	1.7	16% of 27%
2	W02	NE	0.90	2.05		2.60	0.55	0.45	0.70	0.64	0.49	1.85	0.33	6% of 95%	0.5	4% of 27%
3	W03	NE	0.90	0.61		2.60	0.55	0.45	1.00	0.45	0.62	0.55	0.10	2% of 95%	0.2	2% of 27%
4	W04	NE	0.60	2.17		2.60	0.55	0.45	0.70	0.64	0.49	1.30	0.23	4% of 95%	0.3	3% of 27%
5	W05	SE	1.80	2.05		2.60	0.55	0.45	1.90	0.24	0.68	3.69	0.66	13% of 95%	1.4	13% of 27%
6	W06	SE	2.10	0.55		2.80	0.62	1.50	2.20	0.68	0.48	1.16	0.22	4% of 95%	0.3	3% of 27%
7	W07	SW	0.90	2.17		2.60	0.55	0.45	1.00	0.45	0.53	1.95	0.35	7% of 95%	0.6	5% of 27%
8	W08	SW	0.90	0.67		2.60	0.55	0.45	1.00	0.45	0.53	0.60	0.11	2% of 95%	0.2	2% of 27%
9	W09	SW	0.90	0.61		2.60	0.55	0.45	1.00	0.45	0.53	0.55	0.10	2% of 95%	0.2	1% of 27%
10	W10	SW	0.90	1.81		2.60	0.55	0.45	1.00	0.45	0.53	1.63	0.29	6% of 95%	0.5	4% of 27%
11	W11	NW	0.60	2.29		2.60	0.55	0.45	0.70	0.64	0.49	1.37	0.24	5% of 95%	0.4	3% of 27%
12	W12	NE	0.90	2.17		2.60	0.55	0.45	1.00	0.45	0.62	1.95	0.35	7% of 95%	0.7	6% of 27%
13	W13	NW	1.80	2.17		2.60	0.55	0.45	1.90	0.24	0.82	3.91	0.69	13% of 95%	1.8	16% of 27%
14	W14	NW	2.10	2.17		2.70	0.60	0.45	2.20	0.20	0.86	4.56	0.84	16% of 95%	2.3	21% of 27%

IMPORTANT NOTICE AND DISCLAIMER IN RESPECT OF THE GLAZING CALCULATOR

If inputs (including air movement levels) are valid

The Glazing Calculator has been developed by the ABCB to assist in developing a better understanding of glazing energy efficiency parameters. While the ABCB believes that the Glazing Calculator, if used correctly, will produce accurate results, it is provided "as is" and without any representation or warranty of any kind, including that it is fit for any purpose or of merchantable quality, or functions as intended or at all. Your use of the Glazing Calculator is entirely at your own risk and the ABCB accepts no liability of any kind.



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			Accredited Practitioner:			Owner / Client:	Drawing Title:	Date:	Status:
			Name			Consumer Building & Occupational Services	Glazing Calculator	27/07/2016	INFORMATION
			Address			Project:		Scale:	Drawing No.:
			Phone number			Class 1a (Single Storey) Example		NTS @ A3	A13 (13 of 14)
Rev.	Amendment	Date				I Example Street, TASMANIA			Rev -

FOR REFERENCE ONLY
This drawing is representative of the documentation requirements of Schedule 1. The content should not be relied upon as accurate for another building project.

Main Menu

LIGHTING CALCULATOR FOR USE WITH J6.2(a) VOLUME ONE AND 3.12.5.5 VOLUME TWO (First issued with NCC 2014)

Help screen

Building name/description

Single Storey Building Example

Classification

Class 1

Number of rows preferred in table below

14

(as currently displayed)

ID	Description	Type of space	Floor area of the space	Design Lamp or Illumination Power Load	Location	Adjustment Factor One				Adjustment Factor Two (n/a for Class 1)				OVERALL DESIGN PASSES		
						Adjustment Factor One	Dimming Percentages		Design Lumen Depreciation Factor	Adjustment Factor Two	Dimming Percentages		Design Lumen Depreciation Factor	Lamp or Illumination Power Density		System Share of % of Aggregate Allowance Used
							% Area	% of full power			% Area	% of full power		System Allowance	System Design	
1	Living	Living room	40.0 m²	66 W	Class 1 building	e)Manual dimming system	95%				5.3 W/m²	1.7 W/m²	5% of 39%			
2	Kitchen	Kitchen	14.1 m²	44 W	Class 1 building						5.0 W/m²	3.1 W/m²	8% of 39%			
3	Dining	Living room	13.6 m²	32 W	Class 1 building	e)Manual dimming system	95%				5.3 W/m²	2.4 W/m²	7% of 39%			
4	Ensuite	Bathroom	5.0 m²	15 W	Class 1 building						5.0 W/m²	3.0 W/m²	8% of 39%			
5	Entry	Corridor	9.5 m²	32 W	Class 1 building						5.0 W/m²	3.4 W/m²	9% of 39%			
6	Bedroom 1	Bedroom	15.0 m²	11 W	Class 1 building	e)Manual dimming system	95%				5.3 W/m²	0.7 W/m²	2% of 39%			
7	Bedroom 2	Bedroom	15.6 m²	11 W	Class 1 building	e)Manual dimming system	95%				5.3 W/m²	0.7 W/m²	2% of 39%			
8	Bedroom 3	Bedroom	13.7 m²	11 W	Class 1 building	e)Manual dimming	95%				5.3 W/m²	0.8 W/m²	2% of 39%			
9	Bathroom	Bathroom	6.6 m²	15 W	Class 1 building						5.0 W/m²	2.3 W/m²	6% of 39%			
10	WC	Toilet	2.0 m²	11 W	Class 1 building						5.0 W/m²	5.5 W/m²	15% of 39%			
11	Laundry	Laundry	6.7 m²	11 W	Class 1 building						5.0 W/m²	1.6 W/m²	4% of 39%			
12	Hall	Corridor	10.3 m²	32 W	Class 1 building						5.0 W/m²	3.1 W/m²	8% of 39%			
13	Garage	Other	37.8 m²	56 W	Class 1 building						5.0 W/m²	1.5 W/m²	4% of 39%			
14	Outdoor Lights	Other	8.8 m²	60 W	Class 1 building						5.0 W/m²	6.8 W/m²	19% of 39%			

198.7 m²

407 W

Allowance
Design
Average

Class 1 building

5.1 W/m²

2.0 W/m²

IMPORTANT NOTICE AND DISCLAIMER IN RESPECT OF THE LIGHTING CALCULATOR

The Lighting Calculator has been developed by the ABCB to assist in developing a better understanding of lighting energy efficiency parameters. While the ABCB believes that the Lighting Calculator, if used correctly, will produce accurate results, the calculator is provided "as is" and without any representation or warranty of any kind, including that it is fit for any purpose or of merchantable quality, or functions as intended or at all. Your use of the Lighting Calculator is entirely at your own risk and the ABCB accepts no liability of any kind.

if inputs
are valid



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			Accredited Practitioner:	North		Owner / Client:	Drawing Title:	Date:	Status:
			Name			Consumer Building & Occupational Services	Lighting Calculator	27/07/2016	INFORMATION
			Address			Project:		Scale:	Drawing No.:
			Phone number			Class 1a (Single Storey) Example		NTS @ A3	(14 of 14)
Rev.	Amendment	Date				I Example Street, TASMANIA			Rev

FOR REFERENCE ONLY

This drawing is representative of the documentation requirements of Schedule 1. The content should not be relied upon as accurate for another building project.

This drawing has been included as an example of how to present the relevant AS 3959 requirements for a BAL-19 building. Note that the example single storey dwelling is not deemed to be within a Bushfire-Prone area, and as such the information on this drawing has not been applied to drawings A01 through A12.

Additional information required for a Building Application:

- 1. BAL Assessment / Report by an Accredited Bushfire Assessor.
- 2. Bushfire Hazard Management Plan prepared by an Accredited Bushfire Assessor.

Alternatively (for Building Applications only) a competent Designer / Architect may complete their own BAL Assessment and BHMP using the 'Bushfire Attack Level Assessment Report' as published by the Australian Institute of Building Surveyors.

Access and Water to comply with 'BCA Tas 3.7.4.1 Vehicular Access' and 'BCA Tas 3.7.4.2 Water Supply' and shall be shown and specified within the above documents.

For current information and further details on the above, refer to Department of Justice website: http://www.justice.tas.gov.au/building/regulation/building_in_hazardous/bushfire-prone_areas

BUSHFIRE RELATED NOTES (BAL-19)

To comply with Section 6 of AS3959-2009. Including, but not limited to the following:

Joints

All joints in the external surface material of walls shall be covered, sealed, overlapped, backed or butt-jointed to prevent gaps greater than 3mm.

Vents and weepholes

Vents and weepholes in external walls shall be screened with aluminium mesh with a maximum aperture of 2mm, except where the vents and weepholes have an aperture less than 3mm.

Windows / Glazing

Window frame and supporting frame shall be powdercoated aluminium with toughened glass minimum 5mm thickness. Openable portions of windows to be screened internally or externally with screens as described below.

Screens for Windows

Aluminium screens within powdercoated aluminium frames must have a maximum aperture of 2mm. Gaps between the perimeter of the screen assembly and the window frame shall not exceed 3mm.

Roof

Roof sheeting to be colorbond (ie. non-combustible). The roof / wall junction shall be sealed, to prevent openings greater than 3mm, by the use of fascia and eaves lining.

Roof ventilation openings, such as gable and roof vents, shall be fitted with aluminium ember guards with a maximum aperture of 2mm.

Sheet roof to be fully sarked. The sarking shall:

- a) be located on top of the roof framing, except that the roof battens may be fixed above the sarking;
- b) cover the entire roof area including hips - with exception of ridges which should be ventilated to avoid condensation (see approved BSOL details within 'Condensation in Buildings' Tasmanian Designer's Guide); and
- c) extend into gutters and valleys.

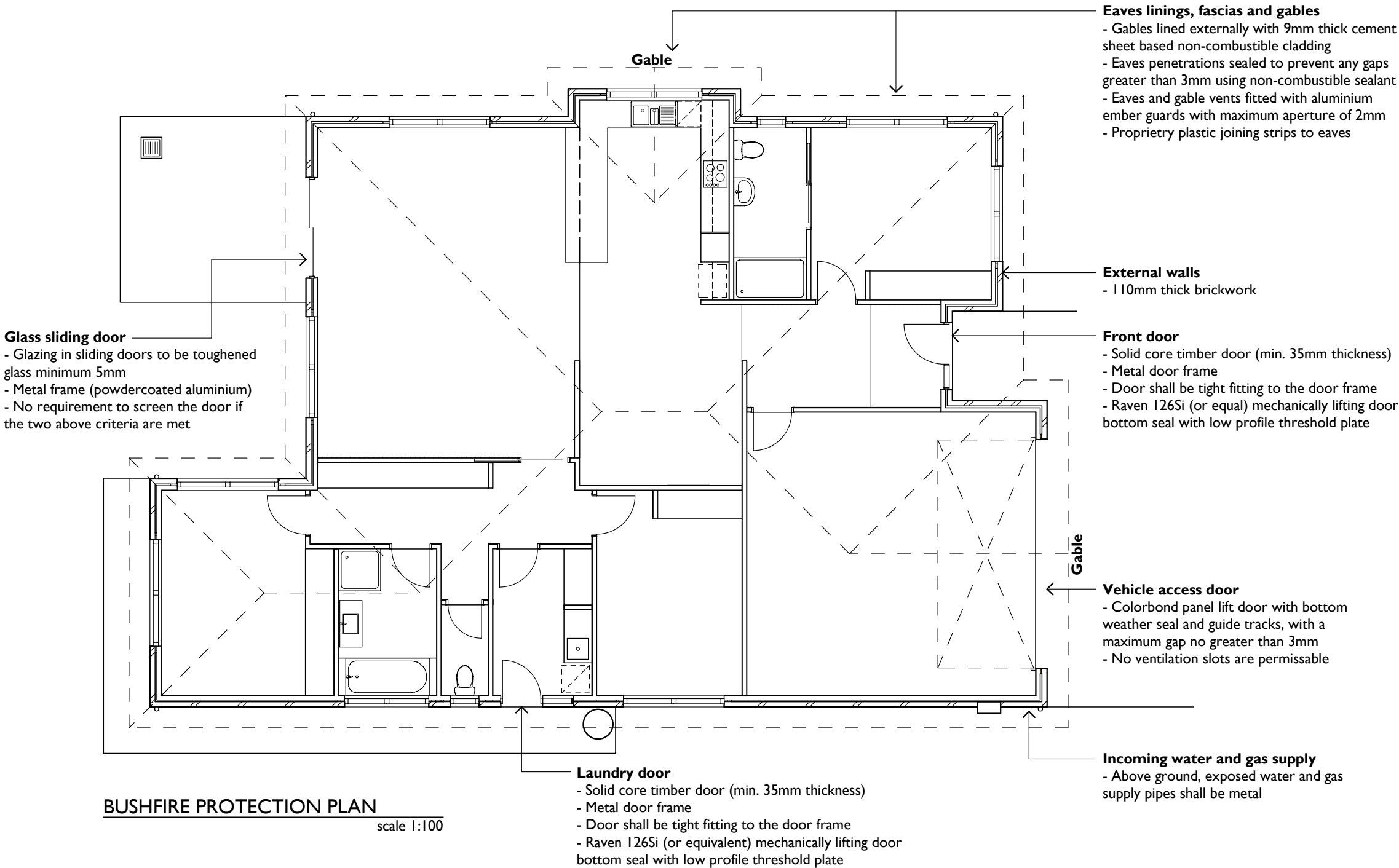
Any gaps greater than 3mm (such as under corrugations or ribs of sheet roofing and between roof components) sealed at the fascia or wall line and at valleys, hips and ridges by -
(i) aluminium mesh with maximum aperture of 2mm; or
(ii) mineral wool; or
(iii) other non-combustible material; or
(iv) a combination of any of the above items.


Roof Penetrations

Roof penetrations, including roof ventilators, roof-mounted evaporative cooler units, aerals, vent pipes and supports for solar collectors shall be adequately sealed at the roof to prevent gaps greater than 3mm. The material used for sealing shall be non-combustible.

Openings in roof ventilators or vent pipes shall be fitted with aluminium ember guards with a maximum aperture of 2mm.

Evaporative cooling units (fitted to the roof) to be fitted with non-combustible butterfly closers as close as practicable to the roof level, or the unit shall be fitted with non-combustible covers with aluminium mesh or perforated sheet with a maximum aperture of 2mm.



			Accredited Practitioner:			Owner / Client:	Drawing Title:	Date:	Status:
			Name			Consumer Building & Occupational Services	Bushfire Protection Plan	27/07/2016	INFORMATION
			Address			Project:	BAL-19 Construction	Scale:	Drawing No.: Rev
Rev.	Amendment	Date	Phone number			Class 1a (Single Storey) Example 1 Example Street, TASMANIA		1:100 @ A3	BP01 -

The content of this drawing is for recommendation purposes only. There is no requirement under the Building Act or Building Code of Australia to implement these recommendations. This drawing should be read in conjunction with CBOS Fact Sheet 'Universal Access - Non Mandatory Suggestions 2016', where more specific recommendations are made. Further information is available on the CBOS Fact Sheet dated December 2016; and the Livable Housing Design guidelines at: www.livablehousingaustralia.org.au.

The location and design of these specific parts of a building may provide benefits:

- Provide a toilet at entry level, close to the entry door.
- Provide zones in the kitchen to allow a person with a mobility aid to access bench space at appropriate height and leg room.
- Provide lever or flick mixer taps throughout.
- Limit changes in adjacent floor surface finishes to a maximum of 5mm, and install trims between different floor finishes to keep transitions as level as possible.
- Provide slip resistance floor finishes throughout (a rating of R10 is ideal).

Accessing specific rooms and transiting the building to access various rooms requires that doorways, passages, and room sizes can accommodate persons with or without mobility aids.

- Avoid narrow corridors, consider width of 1200mm to 1500mm to allow for circulation at door entry points in the passage.
- Provide standard door widths of at least 820mm throughout, instead of using narrow width doors for wet areas.
- Provide luminance contrast between doors and frames / architraves for the visually impaired.

Provide framing or other inclusions to allow immediate or future installation of fixtures within the building.

- Install timber blocking in wall frames to allow the installation of hand/grab rails in areas such as bathrooms and toilets. For greater flexibility, fully sheet the internal walls with 12mm ply (which can be incorporated in the structural bracing of the building, and notched into the studs).

The primary focus for good lighting design is to limit glare from wall mounted fittings and to ensure that the surface of where the person is transiting has sufficient illumination.

- Wall fittings to be shaded at the illumination point to limit side glare.
- Provide entry path lighting that illuminates directly down/across the path with no upward illumination.
- Provide sensor lighting at entry points to the building.
- Provide sensor lighting in bathrooms.
- Position light switches and power outlets at an appropriate height for both able-bodied and mobility aid users.

- **Access path**

The access pathway to the main entry of the residence should provide a smooth, stable surface with no steps and limited changes of direction and changes of surface.

- Provide a pathway width that allows ease of mobility aid travel, and allows an able bodied person to accompany a person with a mobility aid.

- **Access to the building**



The access point to the residence should be a relatively level, evenly flat surface with roof protection. The door should have adequate circulation at the latch side of the door, and provide a system of entry that is easy to use and smooth to traverse.

- Landing with a gradient of no more than 1:40 slope for the first 1200mm.
- A clear circulation space of around 500mm from the latch side of the door.
- Provide a roof over the landing area.
- Limit changes in height of floor surface to no more than 5mm by setting the door frame into the slab or timber floor frame.

Bathrooms and toilets have specific requirements to support different needs.

- Allow internal bathroom circulation for a person with a mobility aid to enter and turn around.
- Provide a minimum width of 1200mm for a walk-in shower where assistant showering is required (larger if multiple assistants required).
- Position toilets adjacent to a wall where possible, at an adequate distance to allow for grab rail installation.
- Maintain a clear space in front of toilet for circulation.
- Consider the use of full strength grab rails to act as towel rails in bathroom.

scale 1:20

			Accredited Practitioner: Name Address Phone number	 	Owner / Client: Consumer Building & Occupational Services Project: Class 1a (Single Storey) Example 1 Example Street, TASMANIA	Drawing Title: Universal Access Plan	Date: 08/12/2016	Status: INFORMATION
Rev.	Amendment	Date	Scale: 1:100, 1:20@A3				Drawing No.: UA01	Rev -