SITE ANALYSIS

15 Clover Hill Circuit, Bangalow NSW in Byron Bay Shire Council is a north-east south-west oriented 838.1m² site (including a 10.2m² easement near Clover Hill Circuit), enjoying north facing private open space towards the rear/ centre of the site when the design is considered. The site is wedge shaped and rises approximately 9.5m up from the road. It is in residential zone R2, surrounded by 1 to 2 storey residental buildings and an area zoned R3 which is not yet built up. The site is located within walking/ bikeriding distance to Bangalow Village. The main sources of noise are from residential car traffic on Clover Hill Circuit and some distant traffic noise from the Pacific Mwy.

The site is currently unbuilt and was part of Bangalow's land release for residential developments. The site is prepared for townwater and sewer. located in an easment on the northwest side of the property, along Clover Hill Circuit. It has 2 existing trees on the north west side. Neighbouring Lot 21 to the south east has a new dwelling at the rear and another planned dwelling at the front which is subject to approval.

FSR for the site is 0.5:1 which gives a development an allowed maximum floorspace of $838.1*50\% = 419.05m^2$, the and/or additional internal soft screening proposal has a total gross floor space of 138.6+54.4m²=193m² The permeable surface of the site has to 189.2 be a minimum of 25% of the site area which is 838.1*25% = 209.5m². The proposed site has a total permeable surface area of 351m²

There are currently district views from the front of the site over Clover Hill Cresent and the rear has adjoining existing buildings on Marblewood PI. The site is not located in a flood area and not within a mapped Acid Sulfate soil area.

The proposal is a modest family home with a secondary dwelling. It contains a larger 2 storey dwelling (1) at the front and a smaller single storey secondary dwelling (2) at the rear. They are oriented with all living spaces towards the north to create indoor & outdoor sunny private open space for both of the dwellings. The front dwelling has been rotated to sit in the centre of the site towards the road to maximise solar access and district views to adjacent neighbours. The rear dwelling is a low building located along the rear boundary. Together with planting, it forms a natural screen to the rear neighbour.

Each dwelling has a watertank to collect stormwater from the roofs to be used for washing machines, to flush toilets and to irrigate gardens when required and possible

The proposed maximum building height is under 9m and the side building plane of 45° is almost entirely followed. The only encroachment is at the front roof, mainly on the NW side which is not causing any adverse solar access to neighbours and the lower edge of the highest roof overhang on the SE side has a miniscule encroachment causing insignificant solar loss.

> Driveway to comply with Council's Standard Drawing R-05 and 0.5m clear of kerb inlet pit

Ξ

٢

T_{pr}

Given the wedge shape of the site and the topography we have minimised the encroachment of the 45° plane by a range of measures; • the entire front building has been set back from Clover Hill Circuit by 8.9m instead of the minimum of 4.5/5.5m stated by the LEP; • the main building has been rotated to the centre of the site at the front: the garage is designed to be partly built into the hill and . the skillion roofs slope towards the SE

allowing maximum sunlight to the adjacent property. The rotation has also opened up for bigger views for the SE neighbour.

All rooms in both dwellings has access to natural ventilation and an abundance of daylight thru large windows, doors and high level passive louvre ventilation. Glazing to the NW is shaded by eves or awnings from the hot summer sun but letting the warming winter sun shine in.

The entry access to both dwellings is from the driveway via shared stairs and walkways along the SE side of the larger dwelling. To maintain privacy as well as daylight, windows and louvres along this wall has been either made opaque to allow for cross ventilation and daylight is available when required for privacy.

LIGERE MUET PAT 98

- Residential zone R3

across Clover Hill

Circuit

5

C

Ľ

0

The rear dwelling's roof has been fitted with PV panels as this roof has great solar orientation and is perfectly suited to collect the sunenergy. The generated power is for common use.

As mentioned the siting of the dwellings have been driven by a number of factors; minimum impact on neighbours, maximising the usable northern private open space

• the slope of the land and also • the desire to have a pleasant garden outlook with a soft landscaped edge towards the neighbours at natural ground line. An undulating landscape is also reducing the need for retaining walls and instead makes the landscape variable and pleasing to the eye. Native vegetation is proposed to be used extensively, mixed with some rainforest plants and a few feature plants and trees in areas of high visibility.

Using level changes within the floor plan of the front dwelling impact less on the cut. To then position the rear dwelling higher also has the advantage of creating natural privacy between dwelling 1 & 2 without using tall fences but using the slope of the land and landscaping for separation.

Both dwellings get to enjoy generous summer sun path northfacing private gardens, accessed -directly from living areas with year round sunlight.

The facades has been articulated by its' material use and setback of walls. This, together with awnings, balconies and plants give the facades a depth as the shadows throughout the day play over the various surfaces. The materials are chosen to be both sustainable and durable over time and in earthy colours. Both the dwellings have the same pallette to harmonise and to make the buildings sit back on the site and the landscape to stand out.

shown grey proposed approx D.P.1252228 countours shown red The visual impact of the proposal has Neighbour: been designed to respond to the sloping single storey The garage has room for 2 cars undercover site, to sit well in the landscape and to (zone R2 & R3) and a 3rd carpark is provided on site on the create interest. side of the driveway screened from the road by planting. An additional two 57.38 temporary visitors parks can also be comfortably accommodated on the driveway at the same time. PECIES 56.30 (C existing tree to be retained D.P.125 lot 20 838.1m² DEAD END Dwelling 1 turf GRATED PIT dross floor area: 138.6m² concrete driveway wall line shown dash garden bed HH RIDGE50 existing timber pailing fence at b'dry ELECTRIC PIT R.L.59.4 PW語語 z) TIMBER RESIDENCE D/P 12522/23 PLANNED DWELLING

existing site countours

19

Issue	Note	Date	Issue	Note	Date	*	Viktoria & Darren Bridgstock	Drawing Name:
DA	For Development Application	21/09/21				the freshwater studio	5	
DA-A	DA adjusted to 3m rear setback	22/04/23					Bangalow family home	site plan and site
						Kvarnsjövägen 10, 132 39 Saltsjö-Boo, Sweden	15 Clover Hill Circuit	
						M: +46 (0)70 67 63 933	Bangalow, NSW 2479	
						ulrika@architectsaar.com.au		Date : 2022 03 23
							Lot 20 D.P.1252223	





legend

This concept landscape plan has been prepared in collaboration with Anton Johnson of Ingadi Garden Care. The garden has a majority of native plants with a few feature tropical plants.

Area 1

Characterised by lower decorative vegetation along the building wall and entrance way. Examples of considered plants:

Blue flax lily - dianella caeulea	40cm
Native Violet -Viola hederacea	10cm
Xanadu - Philodendron 'Xanadu'	0.6-1.2m

Area 2

Characterised by soft screening plants, shrubs and small trees that can be pruned to the right height to soften the edge against the neighbours fence without cutting out sun. A mix of plants have been considered to make an interesting textured edge. Examples of considered plants and shrubs:

Veiny Wilkiea - Wilkiea huegeliana	1-8m
Weeping Bottlebrush - Callistemon viminalis	3m
Tree Fern - Cyanthea sp	2-4m
Walking Stick Palm - Linospadix monostachya	2m
Brush cherry - Syzygium australe 'Hinterland Gold'	5m

5,0

١đ

tree

×)

Area 6

19

Area 3 Characterised by scented evergreen shrubs/ small trees prividing privacy between dwellings. Example of plant:

Plum Myrtle -Pilidiostigma glabrum	1-2m
Grey myrtle -Backhousia myrtifolia	3m
Bolwarra - Eupomatia laurina	3-5m

Area 4

Characterised by attractive flowering trees and evergreen texture. Example of plants:

Native Gardenia - Randia fitzalanii	5-6m
Lilly Pilly variety	5-8m
Native frangipani - Hymenosporum flavum	5-8m
Lemon Myrtle - Backhousia citriodora	6-10m

Area 5 Characterised by a mix of easy acessible edible plants and herbs in the area around the bbq & kitchen area and screening taller shrubs in areas that needs a little more privacy i.e. boundary edge and outside ensuite. Example of plants:

Pointed-leaf Hovea - Hovea acutifolia Broad-leaf Palm Lilly - Cordyline petiolaris	2-5m 5m
Finger Lime - Citrus australasica	2-5m
Native Ginger - Alpinia caerulea	2m
Native Raspberry - Rubus rosifolius	2m
Blue Tongue - Melastoma affine	1-3m

Area 6

Characterised by a welcoming mixed garden of flowering trees/ bushes, textures and small flowers throughout the year. Lower plants towards the boundry to not impead vision from and to the driveway and taller plant further away. Example of plants:

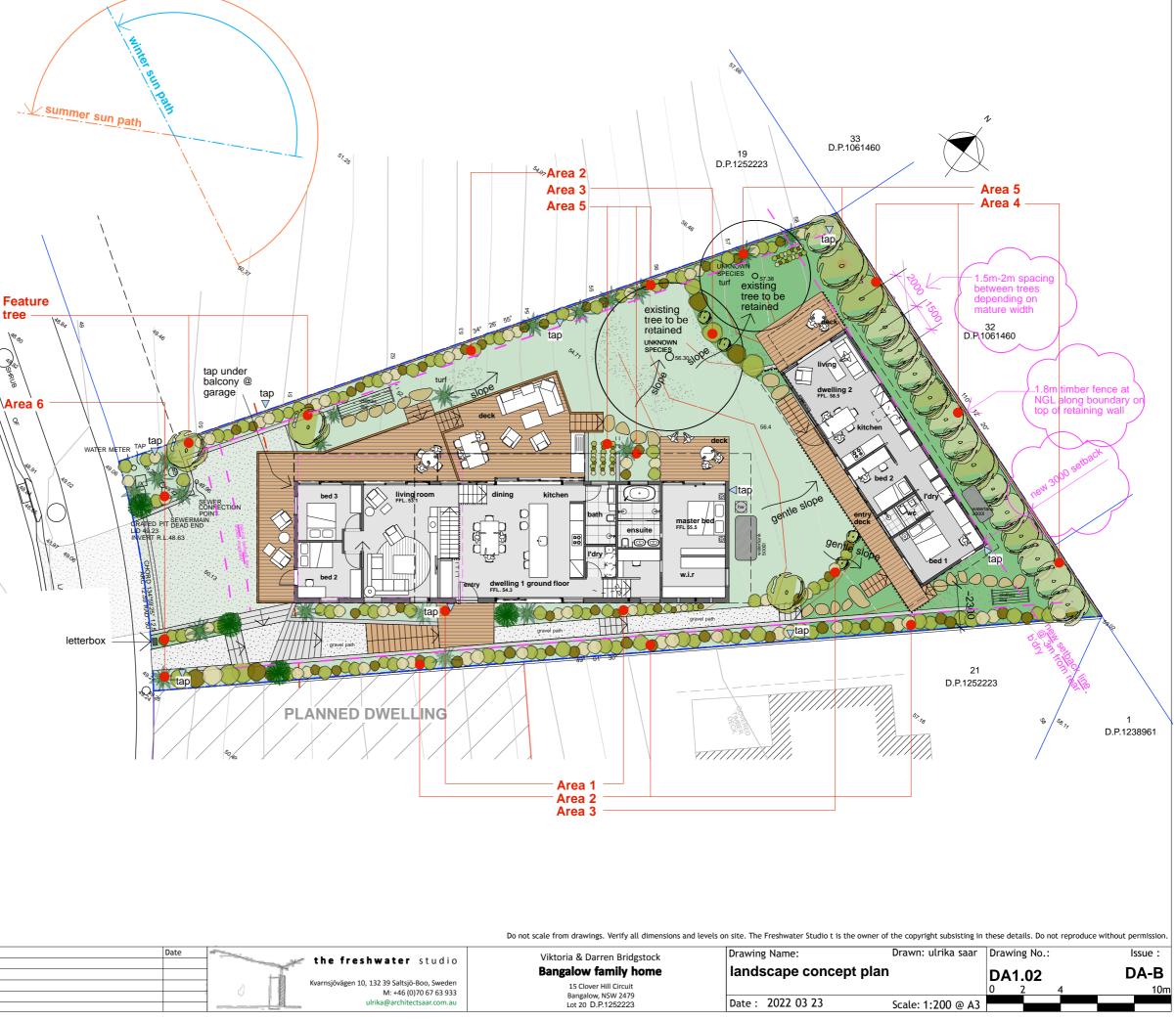
Blue Chalksticks - Senecio serpens Alternanthera dentata "Little Ruby" Everlasting or Paper Daisy -Xerochrysum	25-30cm 40cm
Xanadu - Philodendron 'Xanadu' Alcantarea imperialis 'Silver Plum' Native Ginger -Alpinia caerulea	40cm 0.6-1.2m 1.5m 2m

Feature trees

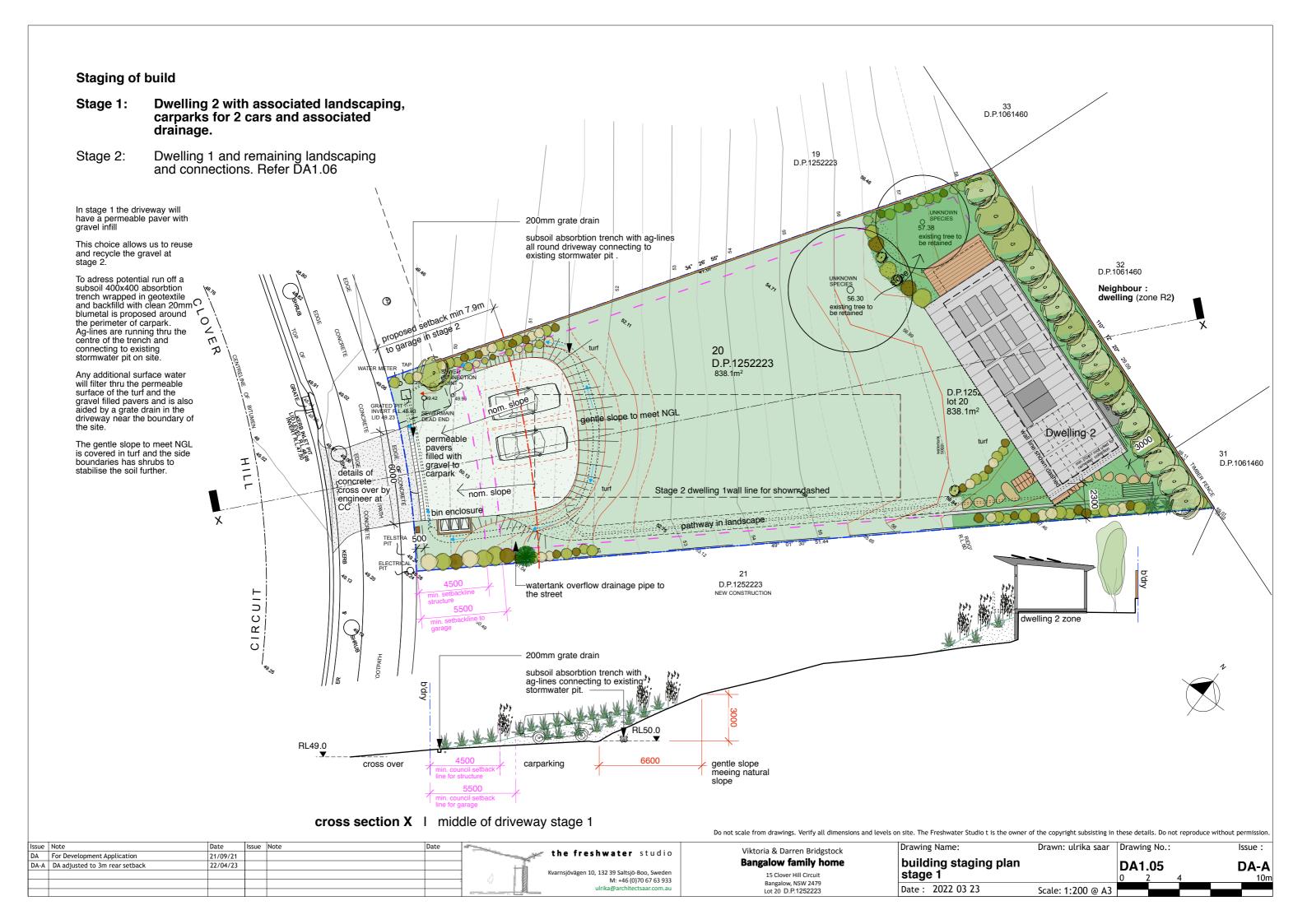
Snow in summer - Melaleuca linariifolia	6-10m
Pandanus - Pandanus tectorius	5-6m

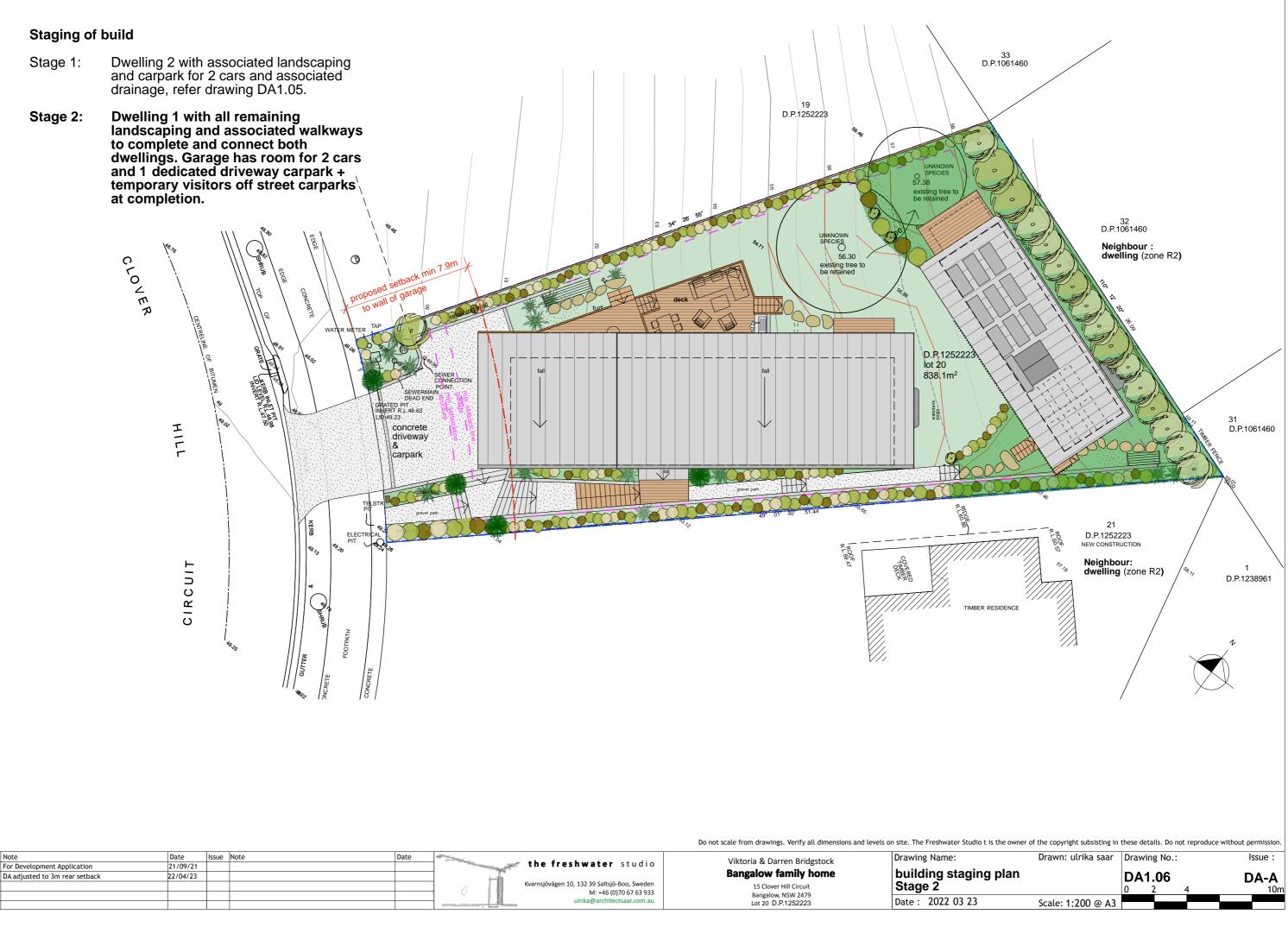
maintenance

Areas with taller trees and shrubs to be trimmed as required for view & privacy. Melaleuca linariifolia to be underpruned & thinned as required. etc

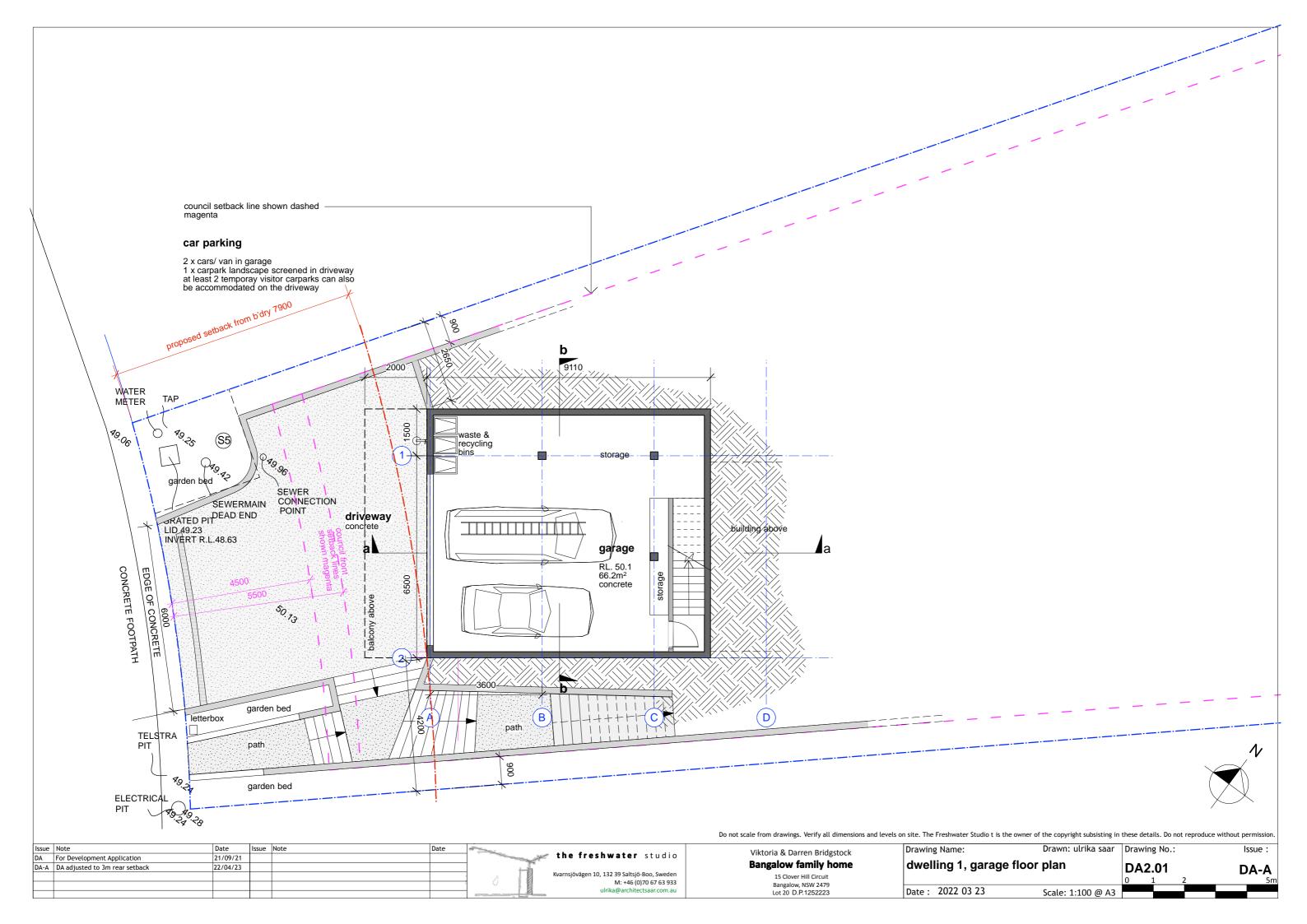


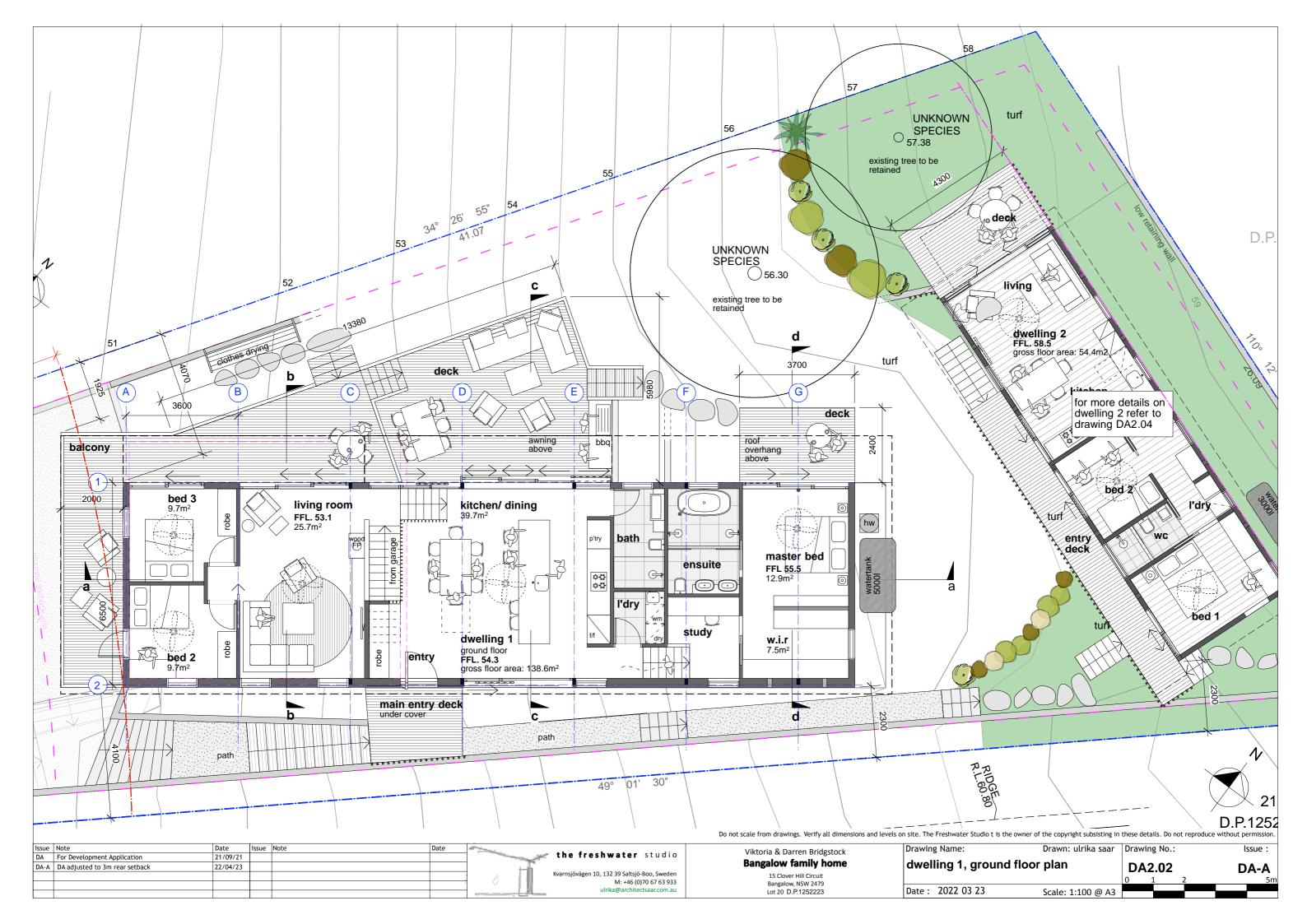
Issue	e Note	Date	Issue	Note	Date		Viktoria & Darren Bridgstock	Drawing Name:
DA	For Development Application	21/09/21				the freshwater studio	5	
DA-	A For Development Application	22/02/25				i	Bangalow family home	landscape conc
DA-I	3 DA adjusted to 3m rear setback	22/04/23				Kvarnsjövägen 10, 132 39 Saltsjö-Boo, Sweden	15 Clover Hill Circuit	
						M: +46 (0)70 67 63 933	Bangalow, NSW 2479	2 2022 02 22
						ulrika@architectsaar.com.au	Lot 20 D.P.1252223	Date : 2022 03 23



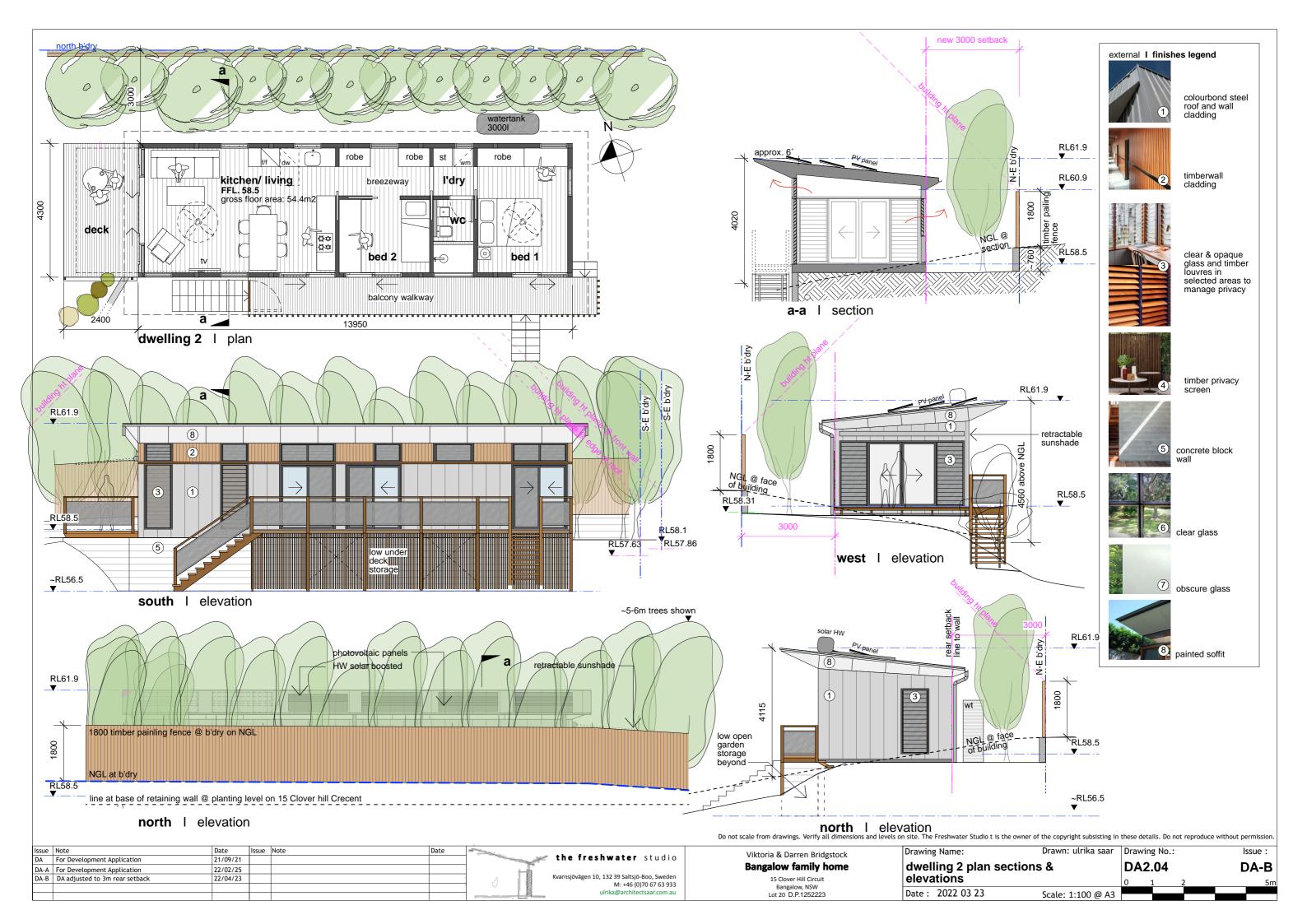


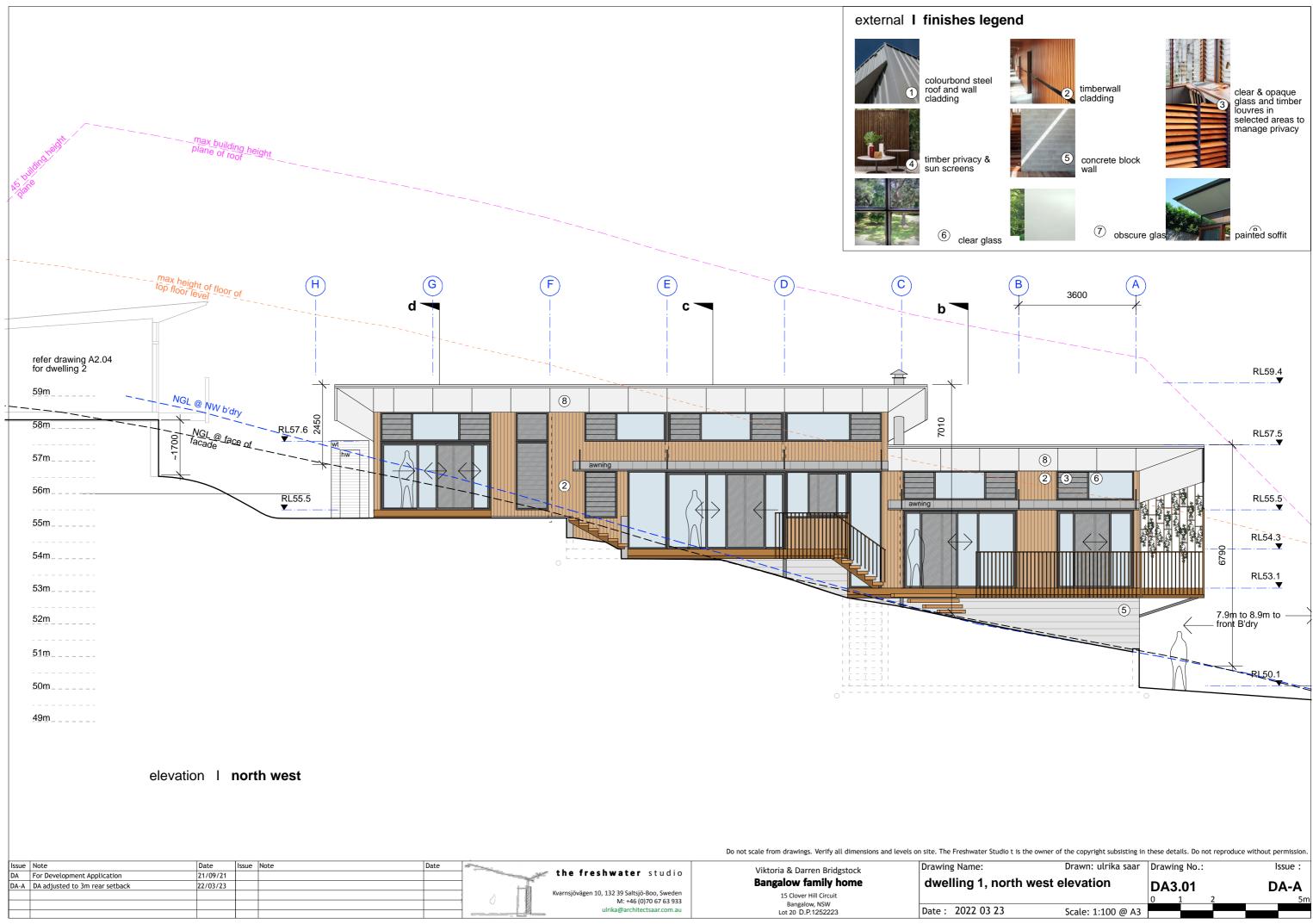
Issue	Note	Date	Issue	Note	Date	Viktoria & Darren Bridge	tock Drawing Name:
DA	For Development Application	21/09/21					
DA-A	DA adjusted to 3m rear setback	22/04/23				Bangalow family he	me building staging
						Kvarnsjövägen 10, 132 39 Saltsjö-Boo, Sweden 15 Clover Hill Circuit	Stage 2
						M: +46 (0)70 67 63 933 Bangalow, NSW 2479	U
						ulrika@architectsaar.com.au Lot 20 D.P.1252223	Date : 2022 03 23











Issue	e Note	Date	Issue	Note	Date		Viktoria & Darren Bridgstock	Drawing Name:
DA	For Development Application	21/09/21				the freshwater studio	5	deserved and the
DA-A	DA adjusted to 3m rear setback	22/03/23					Bangalow family home	dwelling 1, north
						Kvarnsjövägen 10, 132 39 Saltsjö-Boo, Sweden	15 Clover Hill Circuit	
						M: +46 (0)70 67 63 933	Bangalow, NSW	
						ulrika@architectsaar.com.au	Daligatow, NOW	Data . 2022 02 22
						unika@architectsaal.com.au	Lot 20 D.P.1252223	Date : 2022 03 23



