

Building Sustainability Index www.basix.nsw.gov.au

Multi Dwelling

Certificate number: 834076M

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Definitions" dated 18/09/2014 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Thursday, 29 June 2017

To be valid, this certificate must be lodged within 3 months of the date of issue.



Project summary	
Project name	6782
Street address	Lot 176 Bradley Street Glenmore Park 2745
Local Government Area	Penrith City Council
Plan type and plan number	deposited 1203990
Lot no.	176
Section no.	-
No. of residential flat buildings	0
No. of units in residential flat buildings	0
No. of multi-dwelling houses	21
No. of single dwelling houses	0
Project score	
Water	✓ 40 Target 40
Thermal Comfort	✓ Pass Target Pass
Energy	✓ 40 Target 40

Certificate Prepared by

Name / Company Name: Partners Energy Management

ABN (if applicable): 15 418 789 019

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Description of project

Project address	
Project name	6782
Street address	Lot 176 Bradley Street Glenmore Park 2745
Local Government Area	Penrith City Council
Plan type and plan number	deposited 1203990
Lot no.	176
Section no.	-
Project type	
No. of residential flat buildings	0
No. of units in residential flat buildings	0
No. of multi-dwelling houses	21
No. of single dwelling houses	0
Site details	
Site area (m²)	4028
Roof area (m²)	1400
Non-residential floor area (m²)	0.0
Residential car spaces	8
Non-residential car spaces	0

Common area landscape	
Common area lawn (m²)	0.0
Common area garden (m²)	0.0
Area of indigenous or low water use species (m²)	0.0
Assessor details	
Assessor number	20039
Certificate number	1011243373
Climate zone	28
Project score	
Water	✓ 40 Target 40
Thermal Comfort	✓ Pass Target Pass
Energy	✓ 40 Target 40

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Description of project

The tables below describe the dwellings and common areas within the project

Multi-dwelling houses

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
U505	3	252.9	17.7	40.0	0.0
U509	3	133.5	0.0	40.0	0.0
U513	3	133.5	0.0	40.0	0.0
U517	3	133.5	0.0	40.0	0.0
U521	3	174.0	0.0	40.0	0.0
U525	3	164.6	0.0	40.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
U506	3	133.5	0.0	40.0	0.0
U510	3	164.6	0.0	40.0	0.0
U514	3	164.6	0.0	40.0	0.0
U518	3	133.5	0.0	40.0	0.0
U522	3	142.7	0.0	40.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & Iawn (m²)	Indigenous species (min area m²)
U507	3	133.5	0.0	40.0	0.0
U511	3	164.6	0.0	40.0	0.0
U515	3	164.6	0.0	40.0	0.0
U519	3	133.5	0.0	40.0	0.0
U523	3	142.7	0.0	40.0	0.0

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
U508	3	133.5	0.0	40.0	0.0
U512	3	133.5	0.0	40.0	0.0
U516	3	133.5	0.0	40.0	0.0
U520	3	174.0	0.0	40.0	0.0
U524	3	142.7	0.0	40.0	0.0

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Schedule of BASIX commitments

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 - (a) Dwellings
 - (i) Water
 - (ii) Energy
 - (iii) Thermal Comfort
- 2. Commitments for single dwelling houses
- 3. Commitments for common areas and central systems/facilities for the development (non-building specific)
 - (i) Water
 - (ii) Energy

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Schedule of BASIX commitments

The commitments set out below regulate how the proposed development is to be carried out. It is a condition of any development consent granted, or complying development certificate issued, for the proposed development, that BASIX commitments be complied with.

1. Commitments for multi-dwelling houses

(a) Dwellings

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must plant indigenous or low water use species of vegetation throughout the area of land specified for the dwelling in the "Indigenous species" column of the table below, as private landscaping for that dwelling. (This area of indigenous vegetation is to be contained within the "Area of garden and lawn" for the dwelling specified in the "Description of Project" table).	~	~	
(c) If a rating is specified in the table below for a fixture or appliance to be installed in the dwelling, the applicant must ensure that each such fixture and appliance meets the rating specified for it.		~	V
(d) The applicant must install an on demand hot water recirculation system which regulates all hot water use throughout the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below.		~	V
(e) The applicant must install:			
(aa) a hot water diversion system to all showers, kitchen sinks and all basins in the dwelling, where indicated for a dwelling in the "HW recirculation or diversion" column of the table below; and		✓	V
(bb) a separate diversion tank (or tanks) connected to the hot water diversion systems of at least 100 litres. The applicant must connect the hot water diversion tank to all toilets in the dwelling.		✓	V
(e) The applicant must not install a private swimming pool or spa for the dwelling, with a volume exceeding that specified for it in the table below.	V	~	
(f) If specified in the table, that pool or spa (or both) must have a pool cover or shading (or both).		~	
(g) The pool or spa must be located as specified in the table.	>	•	
(h) The applicant must install, for the dwelling, each alternative water supply system, with the specified size, listed for that dwelling in the table below. Each system must be configured to collect run-off from the areas specified (excluding any area which supplies any other alternative water supply system), and to divert overflow as specified. Each system must be connected as specified.	~	~	V

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	Fixtures			Appliances Individua			vidual pool	lual pool			Individual spa			
Dwelling no.	All shower- heads	All toilet flushing systems	All kitchen taps	All bathroom taps	HW recirculation or diversion	All clothes washers	All dish- washers	Volume (max volume)	Pool cover	Pool location	Pool shaded	Volume (max volume)	Spa cover	Spa shaded
All dwellings	3 star (> 7.5 but <= 9 L/min)	3 star	4 star	4 star	no	-	-	-	-	-	-	-	-	-

		Alternative water source							
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up	
All dwellings	individual water tank (no. 1)	Tank size (min) 2000.0 litres	To collect run-off from at least: 60.0 square metres of roof area; 0.0 square metres of impervious area; 0.0 square metres of garden and lawn area; and 0.0 square metres of planter box area.	yes	no	yes	no	no	
None	-	-	-	-	-	-	-	-	

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must comply with the commitments listed below in carrying out the development of a dwelling listed in a table below.			
(b) The applicant must install each hot water system specified for the dwelling in the table below, so that the dwelling's hot water is supplied by that system. If the table specifies a central hot water system for the dwelling, then the applicant must connect that central system to the dwelling, so that the dwelling's hot water is supplied by that central system.	~	~	~
(c) The applicant must install, in each bathroom, kitchen and laundry of the dwelling, the ventilation system specified for that room in the table below. Each such ventilation system must have the operation control specified for it in the table.		~	V
(d) The applicant must install the cooling and heating system/s specified for the dwelling under the "Living areas" and "Bedroom areas" headings of the "Cooling" and "Heating" columns in the table below, in/for at least 1 living/bedroom area of the dwelling. If no cooling or heating system is specified in the table for "Living areas" or "Bedroom areas", then no systems may be installed in any such areas. If the term "zoned" is specified beside an air conditioning system, then the system must provide for day/night zoning between living areas and bedrooms.		~	~

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(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(e) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Artificial lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that the "primary type of artificial lighting" for each such room in the dwelling is fluorescent lighting or light emitting diode (LED) lighting. If the term "dedicated" is specified for a particular room or area, then the light fittings in that room or area must only be capable of being used for fluorescent lighting or light emitting diode (LED) lighting.		~	~
(f) This commitment applies to each room or area of the dwelling which is referred to in a heading to the "Natural lighting" column of the table below (but only to the extent specified for that room or area). The applicant must ensure that each such room or area is fitted with a window and/or skylight.	~	~	V
(g) This commitment applies if the applicant installs a water heating system for the dwelling's pool or spa. The applicant must:			
(aa) install the system specified for the pool in the "Individual Pool" column of the table below (or alternatively must not install any system for the pool). If specified, the applicant must install a timer, to control the pool's pump; and		→	
(bb) install the system specified for the spa in the "Individual Spa" column of the table below (or alternatively must not install any system for the spa). If specified, the applicant must install a timer to control the spa's pump.		•	
(h) The applicant must install in the dwelling:			
(aa) the kitchen cook-top and oven specified for that dwelling in the "Appliances & other efficiency measures" column of the table below;		•	
(bb) each appliance for which a rating is specified for that dwelling in the "Appliances & other efficiency measures" column of the table, and ensure that the appliance has that minimum rating; and		•	V
(cc) any clothes drying line specified for the dwelling in the "Appliances & other efficiency measures" column of the table.		•	
(i) If specified in the table, the applicant must carry out the development so that each refrigerator space in the dwelling is "well ventilated".		•	
(j) The applicant must install the photovoltaic system specified for the dwelling under the "Photovoltaic system" heading of the "Alternative energy" column of the table below, and connect the system to that dwelling's electrical system.	V	•	V

	Hot water	Bathroom ventilation system		Kitchen vent	ilation system	Laundry ventilation system		
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control	
All dwellings	gas instantaneous 5 star	individual fan, ducted to façade or roof	manual switch on/off	individual fan, not ducted	manual switch on/off	individual fan, ducted to façade or roof	manual switch on/off	

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Cooling		Heating			Artificial lighting					Natural lighting		
Dwelling no.	living areas	bedroom areas	living areas	bedroom areas	No. of bedrooms &/or study	No. of living &/or dining rooms	Each kitchen	All bathrooms/ toilets	Each laundry	All hallways	No. of bathrooms &/or toilets	Main kitchei
U505	1-phase airconditioning EER 3.0 - 3.5 (zoned)	0	0	no	no	no	no	0	yes			
All other dwellings	1-phase airconditioning EER 3.0 - 3.5 (zoned)	0	0	no	no	no	no	0	no			

	Individual pool Individual spa		Appliances & other efficiency measures									
Dwelling no.	Pool heating system	Timer	Spa heating system	Timer	Kitchen cooktop/oven	Refrigerator	Well ventilated fridge space	Dishwasher	Clothes washer	Clothes dryer	Indoor or sheltered clothes drying line	Private outdoor or unsheltered clothes drying line
All dwellings	-	-	-	-	gas cooktop & electric oven	-	yes	-	-	-	no	yes

	Alternative energy
Dwelling no.	Photovoltaic system (min rated electrical output in peak kW)
All dwellings	-

(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) The applicant must attach the certificate referred to under "Assessor details" on the front page of this BASIX certificate (the "Assessor Certificate") to the development application and construction certificate application for the proposed development (or, if the applicant is applying for a complying development certificate for the proposed development, to that application). The applicant must also attach the Assessor Certificate to the application for a final occupation certificate for the proposed development.			

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(iii) Thermal Comfort	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(b) The Assessor Certificate must have been issued by an Accredited Assessor in accordance with the Thermal Comfort Protocol.			
(c) The details of the proposed development on the Assessor Certificate must be consistent with the details shown in this BASIX Certificate, including the details shown in the "Thermal Loads" table below.			
(d) The applicant must show on the plans accompanying the development application for the proposed development, all matters which the Thermal Comfort Protocol requires to be shown on those plans. Those plans must bear a stamp of endorsement from the Accredited Assessor, to certify that this is the case.			
(e) The applicant must show on the plans accompanying the application for a construction certificate (or complying development certificate, if applicable), all thermal performance specifications set out in the Assessor Certificate, and all aspects of the proposed development which were used to calculate those specifications.			
(f) The applicant must construct the development in accordance with all thermal performance specifications set out in the Assessor Certificate, and in accordance with those aspects of the development application or application for a complying development certificate which were used to calculate those specifications.		~	~
(g) Where there is an in-slab heating or cooling system, the applicant must:	V	~	V
(aa) Install insulation with an R-value of not less than 1.0 around the vertical edges of the perimeter of the slab; or			
(bb) On a suspended floor, install insulation with an R-value of not less than 1.0 underneath the slab and around the vertical edges of the perimeter of the slab.			
(h) The applicant must construct the floors and walls of the development in accordance with the specifications listed in the table below.	V	~	V

	Thermal loads					
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)				
U505	83.8	87.6				
U506	33.2	34.0				
U520	54.5	38.3				
U521	55.7	38.3				
U525	75.0	49.2				
U510, U514	65.4	39.5				
U511, U515	64.6	40.3				
U522, U523, U524	30.6	35.7				

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	Thermal loads				
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)			
All other dwellings	33.8	33.9			

			Construction of floors and walls	of floors and walls			
Dwelling no.	Concrete slab on ground(m²)	Suspended floor with open subfloor (m²)	Suspended floor with endclosed subfloor (m²)	Suspended floor above garage (m²)	Primarily rammed earth or mudbrick walls		
U505	89	17	-	12	No		
U520,U521	67	47	-	-	No		
U522,U523,U5	2467	15	-	-	No		
U510,U511,U5	13 63 514,U515,U525	14	-	36	No		
All other dwellings	63	14	-	-	No		

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3. Commitments for common areas and central systems/facilities for the development (non-building specific)

(b) Common areas and central systems/facilities

(i) Water	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a showerhead, toilet, tap or clothes washer into a common area, then that item must meet the specifications listed for it in the table.		~	V
(b) The applicant must install (or ensure that the development is serviced by) the alternative water supply system(s) specified in the "Central systems" column of the table below. In each case, the system must be sized, be configured, and be connected, as specified in the table.	~	~	~
(c) A swimming pool or spa listed in the table must not have a volume (in kLs) greater than that specified for the pool or spa in the table.	V	~	
(d) A pool or spa listed in the table must have a cover or shading if specified for the pool or spa in the table.		V	
(e) The applicant must install each fire sprinkler system listed in the table so that the system is configured as specified in the table.		~	V
(f) The applicant must ensure that the central cooling system for a cooling tower is configured as specified in the table.		V	V

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	no common facility	no common facility	no common laundry facility

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(a) If, in carrying out the development, the applicant installs a ventilation system to service a common area specified in the table below, then that ventilation system must be of the type specified for that common area, and must meet the efficiency measure specified.		~	~
(b) In carrying out the development, the applicant must install, as the "primary type of artificial lighting" for each common area specified in the table below, the lighting specified for that common area. This lighting must meet the efficiency measure specified. The applicant must also install a centralised lighting control system or Building Management System (BMS) for the common area, where specified.		~	•
(c) The applicant must install the systems and fixtures specified in the "Central energy systems" column of the table below. In each case, the system or fixture must be of the type, and meet the specifications, listed for it in the table.	~	~	V

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Notes

- 1. In these commitments, "applicant" means the person carrying out the development.
- 2. The applicant must identify each dwelling, building and common area listed in this certificate, on the plans accompanying any development application, and on the plans and specifications accompanying the application for a construction certificate / complying development certificate, for the proposed development, using the same identifying letter or reference as is given to that dwelling, building or common area in this certificate.
- 3. This note applies if the proposed development involves the erection of a building for both residential and non-residential purposes (or the change of use of a building for both residential and non-residential purposes). Commitments in this certificate which are specified to apply to a "common area" of a building or the development, apply only to that part of the building or development to be used for residential purposes.
- 4. If this certificate lists a central system as a commitment for a dwelling or building, and that system will also service any other dwelling or building within the development, then that system need only be installed once (even if it is separately listed as a commitment for that other dwelling or building).
- 5. If a star or other rating is specified in a commitment, this is a minimum rating.
- 6. All alternative water systems to be installed under these commitments (if any), must be installed in accordance with the requirements of all applicable regulatory authorities. NOTE: NSW Health does not recommend that stormwater, recycled water or private dam water be used to irrigate edible plants which are consumed raw, or that rainwater be used for human consumption in areas with potable water supply.

Legend

- 1. Commitments identified with a " in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development).
- 2. Commitments identified with a " in the "Show on CC/CDC plans and specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.
- 3. Commitments identified with a " in the "Certifier check" column must be certified by a certifying authority as having been fulfilled. (Note: a certifying authority must not issue an occupation certificate (either interim or final) for a building listed in this certificate, or for any part of such a building, unless it is satisfied that each of the commitments whose fulfilment it is required to monitor in relation to the building or part, has been fulfilled).

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THERMAL PERFORMANCE SPECIFICATIONS:

The following specifications take precedence over other plan notations for the construction of this building.

NOTE: In addition to BASIX commitments; building compliance is required to comply with the 'New South Wales Additions' in the current edition of the NCC – Vol. 2, at the time of building. This includes New South Wales Parts 2.6 and 3.12. Specific mention is made of the following provisions:

- Building Fabric Thermal Insulation

(NOTE: If steel framing is used a thermal break may be required)

- Building Sealing
- Building Services

(NOTE: Ventilation requirements of Section 3.8.5.2 c (ii) (B) must also be complied with and this means bathrooms should not normally be exhausted into roofspaces.)

WINDOWS (total product specification – glass + frame)

U-value 5.40 (or less than) & SHGC 0.58 (+/-5%) (Default: Low-e Glass in AL. frame)

EXTERNAL WALL (Medium colour)

Brick Veneer - R1.0 Bulk insulation with anti-glare reflective airgap

INTERNAL WALL

Cavity Panel – No Insulation
Partition walls – Brick – No thermal insulation required

EXTERNAL FLOOR

Concrete Slab on Ground – No insulation Suspended Timber (Open Sub-Floor) – R1.0 Bulk insulation

CEILING SPACE with ROOF ABOVE

Plasterboard – R2.5 Bulk insulation

ROOF (Medium colour) (Non-ventilated)

Sheet Metal Roofing – 55mm Foil Blanket with reflective airgap

RATED either with NO DOWNLIGHTS or with LED downlights which do not penetrate ceiling insulation (ie: IC rated)





*www.nathers.gov.au

BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 505 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

2745

CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
83.8 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
87.6 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
171.4 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
252.9 m ²
FLOOR AREA - CONDITIONED
17.7 m ²
FLOOR AREA - UNCONDITIONED
270.6 m ²
FLOOR AREA - TOTAL

David Howard	9//2X ,=
ASSESSOR NAME	
20039 ASSESSOR NUMBER	
Partners Energy Management COMPANY	
	-

ASSESSOR SIGNATURE

Issued by a BUILDING THERMAL PERFORMANCE ASSESSOR accredited by the Australian Building Sustainability Association to provide NatHERS house energy ratings.

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 506 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

2745

1011243333
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
33.2 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
34.0 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
67.2 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
133.5 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
133.5 m ²
FLOOR AREA - TOTAL

David Howard ASSESSOR NAME
20039 ASSESSOR NUMBER
Partners Energy Management COMPANY

Off C

ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 507 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

2745

1011240407
CERTIFICATION NUMBER 29/06/2017
DATE 28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
software 33.8 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
33.9 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
67.7 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
133.5 m ²
FLOOR AREA - CONDITIONED 0.0 m ²
FLOOR AREA - UNCONDITIONED
133.5 m ²
FLOOR AREA - TOTAL

David Howard ASSESSOR NAME
20020
20039 ASSESSOR NUMBER
Partners Energy Management

ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 508 Lot 176 Bradley St
ADDRESS

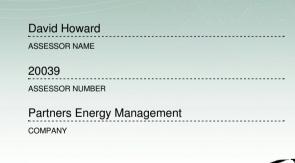
Site Lot 176

Glenmore Park

NSW

2745

1011243415
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
33.8 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
33.9 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
67.7 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
133.5 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
133.5 m ²
FLOOR AREA - TOTAL



W.

ASSESSOR SIGNATURE

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*www.nathers.gov.au

BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 509 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

2745

1011243423
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
33.8 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
33.9 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
67.7 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
133.5 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
133.5 m ²
FLOOR AREA - TOTAL



ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 510 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

1011243431
1011243431
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
65.4 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
39.5 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
104.9 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
164.6 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
164.6 m ²
FLOOR AREA - TOTAL

David Howard	
ASSESSOR NAME	
20039 ASSESSOR NUMBER	
Partners Energy Management	
COMPANY	-

ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 511 Lot 176 Bradley St

ADDRESS

Site Lot 176

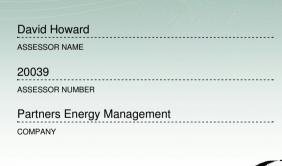
Glenmore Park

NSW

2745

CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE

BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
64.6 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
40.3 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
104.9 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
164.6 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
164.6 m ²
FLOOR AREA - TOTAL



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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 512 Lot 176 Bradley St

ADDRESS

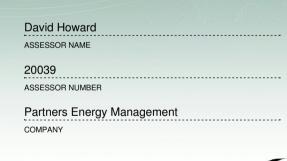
Site Lot 176

Glenmore Park

NSW

2745

1011243430
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
33.8 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
33.9 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
67.7 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
133.5 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
133.5 m ²
FLOOR AREA - TOTAL



Off S

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd ISSUED TO
Unit 513 Lot 176 Bradley St
Site Lot 176
Glenmore Park
NSW
2745

1011243464
CERTIFICATION NUMBER
29/06/2017
DATE
00
•
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
33.8 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
33.9 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION -
COOLING
67.7 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
133.5 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
133.5 m ²
FLOOR AREA - TOTAL

David Howard ASSESSOR NAME		,,-
20039 ASSESSOR NUMBER		
Partners Energy Manacompany	gement	
CONT 7441		

ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd ISSUED TO
Unit 514 Lot 176 Bradley St
Site Lot 176
Glenmore Park
NSW
2745

1011243472
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
DEDOD (DEDOD)
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
65.4 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
39.5 MJ/m ² pa
33.3 IVIO/111 pa
SIMULATED ENERGY CONSUMPTION -
COOLING
104.9 MJ/m ² pa
104.9 MJ/III pa
TOTAL SIMULATED ENERGY CONSUMPTION
164.6 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
164.6 m ²
FLOOR AREA - TOTAL
FLOOR AREA - TOTAL

David Howard ASSESSOR NAME
20039 ASSESSOR NUMBER
Partners Energy Management COMPANY

ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 515 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

CERTIFICATION NUMBER
29/06/2017
DATE
20
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
64.6 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
40.3 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
104.9 MJ/m ² pa
FOTAL SIMULATED ENERGY CONSUMPTION
164.6 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
164.6 m ²
FLOOR AREA - TOTAL

David Howard ASSESSOR NAME
20039 ASSESSOR NUMBER
Partners Energy Management COMPANY

ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

ISSUED TO
Unit 516 Lot 176 Bradley St
Site Lot 176
Glenmore Park
NSW
2745

1011243498
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
33.8 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
33.9 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
67.7 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
133.5 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
133.5 m ²
FLOOR AREA - TOTAL

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Off .

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 517 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

2745

1011243300
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
33.8 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
33.9 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
67.7 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
133.5 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
133.5 m ²
FLOOR AREA - TOTAL
. 200

David Howard
ASSESSOR NAME
20039 ASSESSOR NUMBER
Partners Energy Management COMPANY

Off S

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Mint Holdings Pty Ltd
ISSUED TO

Unit 518 Lot 176 Bradley St
ADDRESS

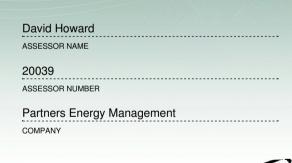
Site Lot 176

Glenmore Park

NSW

2745

1011243514
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
33.8 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
33.9 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
67.7 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
133.5 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
133.5 m ²
FLOOR AREA - TOTAL



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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 519 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

2745

1011243522
CERTIFICATION NUMBER
29/06/2017
DATE
00
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
33.8 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
33.9 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
67.7 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
133.5 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
133.5 m ²
FLOOR AREA - TOTAL

David Howard
ASSESSOR NAME
20039
ASSESSOR NUMBER
Partners Energy Management
COMPANY

Off .

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 520 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

2745

1011240000
CERTIFICATION NUMBER 29/06/2017
DATE 28
CLIMATE ZONE BERSPro - v4.3.0.1 (BERSPro) SOFTWARE
54.5 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING 38.3 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
92.8 MJ/m ² pa TOTAL SIMULATED ENERGY CONSUMPTION
174.0 m ²
FLOOR AREA - CONDITIONED 0.0 m ²
floor area - unconditioned 174.0 m ²
FLOOR AREA - TOTAL

David Howard
ASSESSOR NAME
20039
ASSESSOR NUMBER
Partners Energy Management
COMPANY

ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO
Unit 521 Lot 176 Bradley St ADDRESS
Site Lot 176
Glenmore Park
New
NSW
2745

1011243548
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
55.7 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
38.3 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
94.0 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
174.0 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
174.0 m ²
FLOOR AREA - TOTAL

David Howard ASSESSOR NAME	
20039 ASSESSOR NUMBER	
Partners Energy Management COMPANY	

ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 522 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

2745

1011243555
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
30.6 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
35.7 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
66.3 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
142.7 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
142.7 m ²
FLOOR AREA - TOTAL



ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 523 Lot 176 Bradley St
ADDRESS

Site Lot 176

Glenmore Park

NSW

2745

1011243563
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
30.6 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
35.7 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
66.3 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
142.7 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
142.7 m ²
FLOOR AREA - TOTAL





ASSESSOR SIGNATURE

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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd ISSUED TO Unit 524 Lot 176 Bradley St ADDRESS Site Lot 176 Glenmore Park NSW 2745

1011243571
CERTIFICATION NUMBER
29/06/2017
DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
30.6 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
35.7 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
66.3 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
142.7 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
142.7 m ²
FLOOR AREA - TOTAL



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BUILDING ENERGY EFFICIENCY CERTIFICATE

Mint Holdings Pty Ltd
ISSUED TO

Unit 525 Lot 176 Bradley St

ADDRESS

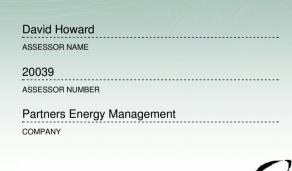
Site Lot 176

Glenmore Park

NSW

2745

CERTIFICATION NUMBER 29/06/2017
Z9/U0/2017 DATE
28
CLIMATE ZONE
BERSPro - v4.3.0.1 (BERSPro)
SOFTWARE
75.0 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - HEATING
49.2 MJ/m ² pa
SIMULATED ENERGY CONSUMPTION - COOLING
124.2 MJ/m ² pa
TOTAL SIMULATED ENERGY CONSUMPTION
164.6 m ²
FLOOR AREA - CONDITIONED
0.0 m ²
FLOOR AREA - UNCONDITIONED
164.6 m ²
FLOOR AREA - TOTAL



ASSESSOR SIGNATURE

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Class 1 Multi Dwelling

PROJECT CERTIFICATION

1 of **2**

Project Certification Number	1011243373
Certification Date	29/06/2017
Assessor Name	David Howard
Assessor Number	20039
Assessor Company	Partners Energy Management
Assessor Signature	Off C

Client Details	Mint Holdings Pty Ltd
Project Address	Lot 176 Lot 176 Bradley St Glenmore Park NSW 2745

Software	BERSPro v4.3.0.1 (BERSPro)	Climate Zone	28
----------	----------------------------	--------------	----

Class 1 Dwelling Thermal Performance Specifications								
Dwelling Number	Certificate Number	Floor Area		Simulated Loads (area adjusted MJ/m2/y)		NatHERS	Rated with Downlights	
		Conditioned	Unconditioned	Heating	Cooling	Star Rating		
505	1011243381	252.9	17.7	83.8	87.6	3.4/10	No	
506	1011243399	133.5	0.0	33.2	34.0	6.9/10	No	
507	1011243407	133.5	0.0	33.8	33.9	6.9/10	No	
508	1011243415	133.5	0.0	33.8	33.9	6.9/10	No	
509	1011243423	133.5	0.0	33.8	33.9	6.9/10	No	
510	1011243431	164.6	0.0	65.4	39.5	5.3/10	No	
511	1011243449	164.6	0.0	64.6	40.3	5.3/10	No	
512	1011243456	133.5	0.0	33.8	33.9	6.9/10	No	
513	1011243464	133.5	0.0	33.8	33.9	6.9/10	No	
514	1011243472	164.6	0.0	65.4	39.5	5.3/10	No	

ABSA Limited Level 1,241 Castlereagh Street SYDNEY 2000 Phone: (02) 9211 0953 Email: admin@absa.net.au, Web: www.absa.net.au



Class 1 Multi Dwelling

PROJECT CERTIFICATION

2 of

Project Certifiation Number	1011243373
Certification Date	29/06/2017

Class 1 Dwelling Thermal Performance Specifications							
Dwelling	Certificate	Finnr Area		adjusted MJ/m2/y)		NatHERS	Rated with
Number Number	Conditioned	Unconditioned	Heating	Cooling	Star Rating	Downlights	
515	1011243480	164.6	0.0	64.6	40.3	5.3	No
516	1011243498	133.5	0.0	33.8	33.9	6.9	No
517	1011243506	133.5	0.0	33.8	33.9	6.9	No
518	1011243514	133.5	0.0	33.8	33.9	6.9	No
519	1011243522	133.5	0.0	33.8	33.9	6.9	No
520	1011243530	174.0	0.0	54.5	38.3	5.8	No
521	1011243548	174.0	0.0	55.7	38.3	5.8	No
522	1011243555	142.7	0.0	30.6	35.7	6.9	No
523	1011243563	142.7	0.0	30.6	35.7	6.9	No
524	1011243571	142.7	0.0	30.6	35.7	6.9	No
525	1011243589	164.6	0.0	75.0	49.2	4.6	No

Nationwide House Energy Rating Scheme* — Multiple-dwelling summary



Assessor details

Accreditation

number: 20039

Name: **David Howard**

Organisation: Partners Energy Management
Email: david@partnersenergy.com.au

Phone: **0421381005**

Declaration The Assessor has provided design

of interest: advice to the Applicant
Software: BERS Pro v4.3.0.2a (3.13)

AAO: ABSA

Dwelling details

Street: **Bradley St**Suburb: **Glenmore Park**

State: **NSW** Postcode: **2745**

Scan to access this certificate online and confirm this is valid.





Summary of all dwellings

Certificate Details Dwelling/Unit Certificate number **Heating load** Cooling load Total load **Star Rating** number 0001668045 171 U505 84 88 3.4 0001668060 34 67 6.9 U506 33 0001668094 U507 34 34 68 6.9 0001668102 U508 34 34 68 6.9 0001668128 U509 34 34 68 6.9 0001667948 U510 65 40 105 5.3 0001667989 U511 65 40 105 5.3 0001667997 U512 34 34 68 6.9 0001668003 U513 34 34 68 6.9 0001668011 U514 65 40 105 5.3 65 40 105 0001668029 U515 5.3 0001670405 U516 34 34 68 6.9 0001670462 34 68 6.9 U517 34 0001668219-02 U518 34 34 68 6.9 0001668037-02 U519 34 34 68 6.9

^{*} Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au Document Set ID: 8968897

Nationwide House Energy Rating Scheme* - Multiple Dwelling Summary

Certificate number: 0001670470 Certificate Date: 30 Jun 2017

★ Average Star rating: **6.2**



Summary of all dwellings continued

Certificate Details				
Certificate number	Dwelling/Unit number	Heating load	Cooling load	Tota
0001668052	U520	55	38	93

Certificate number	Dwelling/Unit number	Heating load	Cooling load	Total load	Star Rating
0001668052	U520	55	38	93	5.8
0001668078	U521	56	38	94	5.8
0001668086	U522	31	36	66	6.9
0001667922	U523	31	36	66	6.9
0001667955	U524	31	36	66	6.9
0001667963	U525	75	49	124	4.6

^{*} Nationwide House Energy Rating Scheme (NatHERS) is an initiative of the Australian, state and territory governments. For more details see www.nathers.gov.au

PROJECT

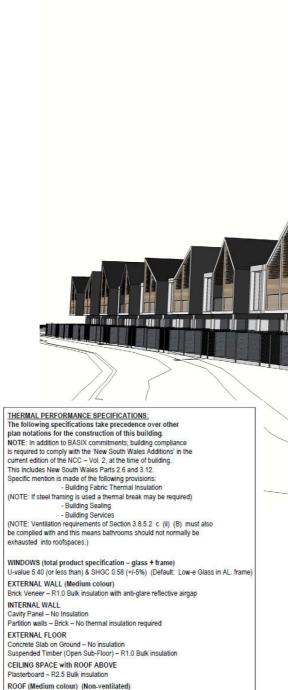
SUBDIVISION COMPRISING OF 21 NEW TWO AND THREE STOREY TOWNHOUSES WITH PRIVATE ROAD AND ASSOCIATED LANDSCAPING, AND 4 LAND ONLY LOTS.

Proposed Development at Bradley Heights,

Cnr Bradley Street & Edgewater Drive Glenmore Park NSW, Glenmore Park NSW

Sheet Index DA

Layout No:	Layout Name
DA 0000 (A)	COVERPAGE
DA 1000 (A)	SITE CONTEXT
DA 1001 (A)	SUBDIVISION PLAN
DA 1002 (A)	BUILDING ENVELOPES PLAN
DA 1003 (A)	SITE & ROOF PLAN
DA 2000 (A)	MASTER PLAN
DA 2001 (A)	TERRACE PLAN - TYPE A
DA 2002 (A)	TERRACE PLAN - TYPE A W/ HOME OFFICE
DA 2003 (A)	TERRACE PLAN - TYPE B
DA 2004 (A)	TERRACE PLAN - TYPE B W/ HOME OFFICE
DA 2005 (A)	LOT 505 & 506 - GROUND FLOOR PLAN
DA 2006 (A)	LOT 505 & 506 - FIRST FLOOR PLAN
DA 2007 (A)	LOT 505 & 506 - SECOND FLOOR PLAN
DA 2008 (A)	LOT 525 - GROUND & FIRST FLOOR PLAN
DA 2400 (A)	ELEVATION NORTH 01
DA 2401 (A)	ELEVATION NORTH 02
DA 2402 (A)	ELEVATION SOUTH 01
DA 2403 (A)	ELEVATION SOUTH 02
DA 2404 (A)	ELEVATION EAST
DA 2405 (A)	ELEVATION WEST
DA 2500 (A)	SECTION A 01
DA 2501 (A)	SECTION A 02
DA 6000 (A)	EXTERNAL FINISHES
DA 9100 (A)	GFA DIAGRAMS
DA 9101 (A)	PRIVATE OPEN SPACE DIAGRAMS
DA 9102 (A)	LANDSCAPE AREA DIAGRAMS
DA 9300 (A)	WASTE MGT PLAN
DA 9401 (A)	SHADOWS JUNE 21st 9am
DA 9402 (A)	SHADOWS JUNE 21st 12pm
DA 9403 (A)	SHADOWS JUNE 21st 3pm





REVISIONS DEVELOPMENT APPLICATION

PLOTTED: 28/06/2017 G

ALL CONSTRUCTION TO COMPLY AT MINIMUM W/ BCA CLAUSES & AUSTRALIAN STANDARDS

Sheet Metal Roofing - 55mm Foil Blanket with reflective airgap RATED either with NO DOWNLIGHTS or with LED downlights which do not penetrate ceiling insulation (ie: IC rated)



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Proposed Developmen Bradley Heights Cnr Bradley Street & Edgewater Drive Glenr Park NSW

PROJECT NO: 17-035 DRAWN BY: MHNDU TO SCALE: @A3 DRAWING NO: REV:

DRAWING: COVERPAGE

DA 0000 (A)





LOCATION AERIAL PHOTOGRAPH

1:10,000 SITE AERIAL PHOTOGRAPH

1:2,000

SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA:
(REF: AS 3959-2009) BAL 29 CONSTRUCTION
REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN
ACCORDANCE WITH AS 3959 & BCA. FURTHER DETAILS TO
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REVISIONS A DEVELOPMENT APPLICATION

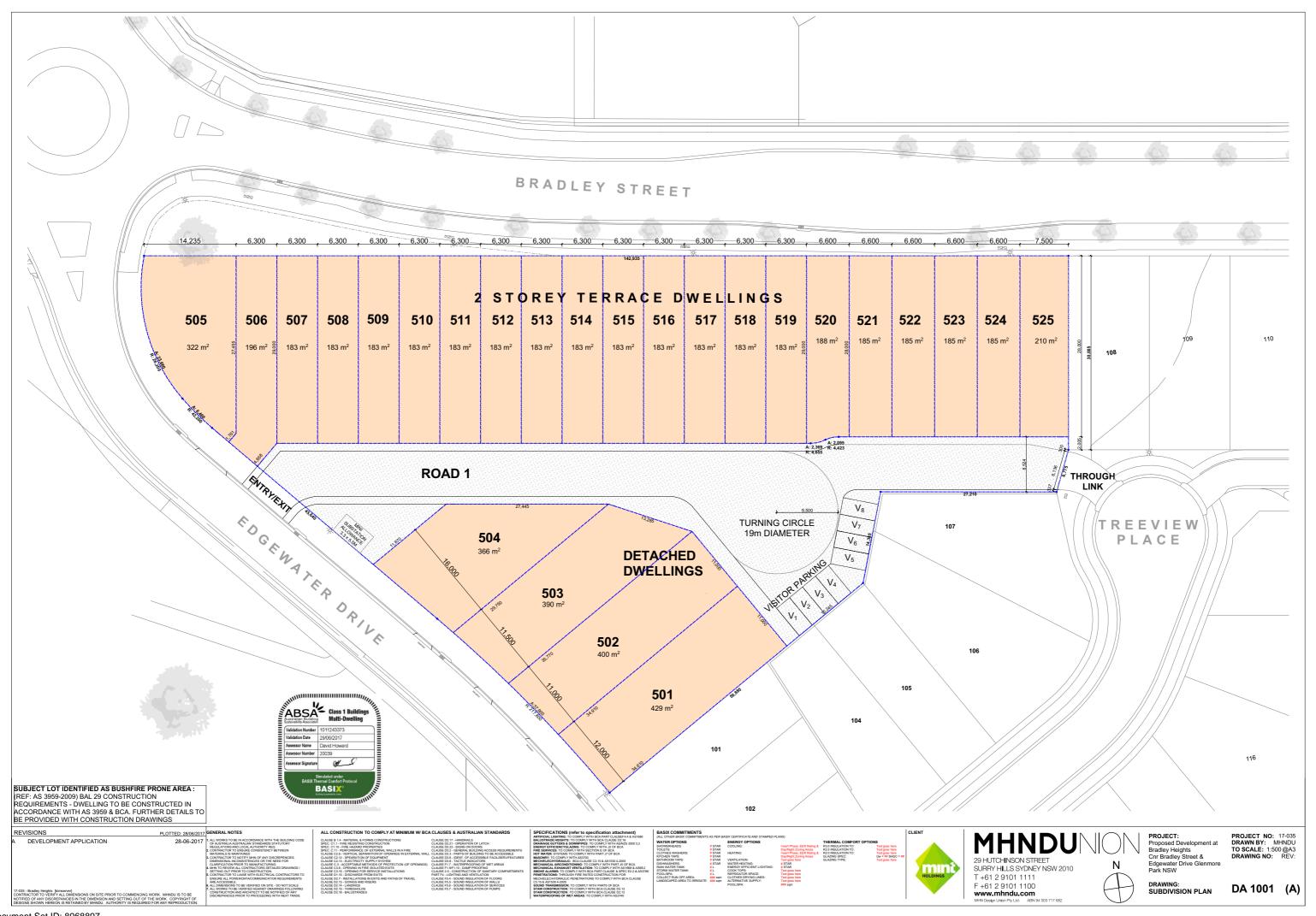
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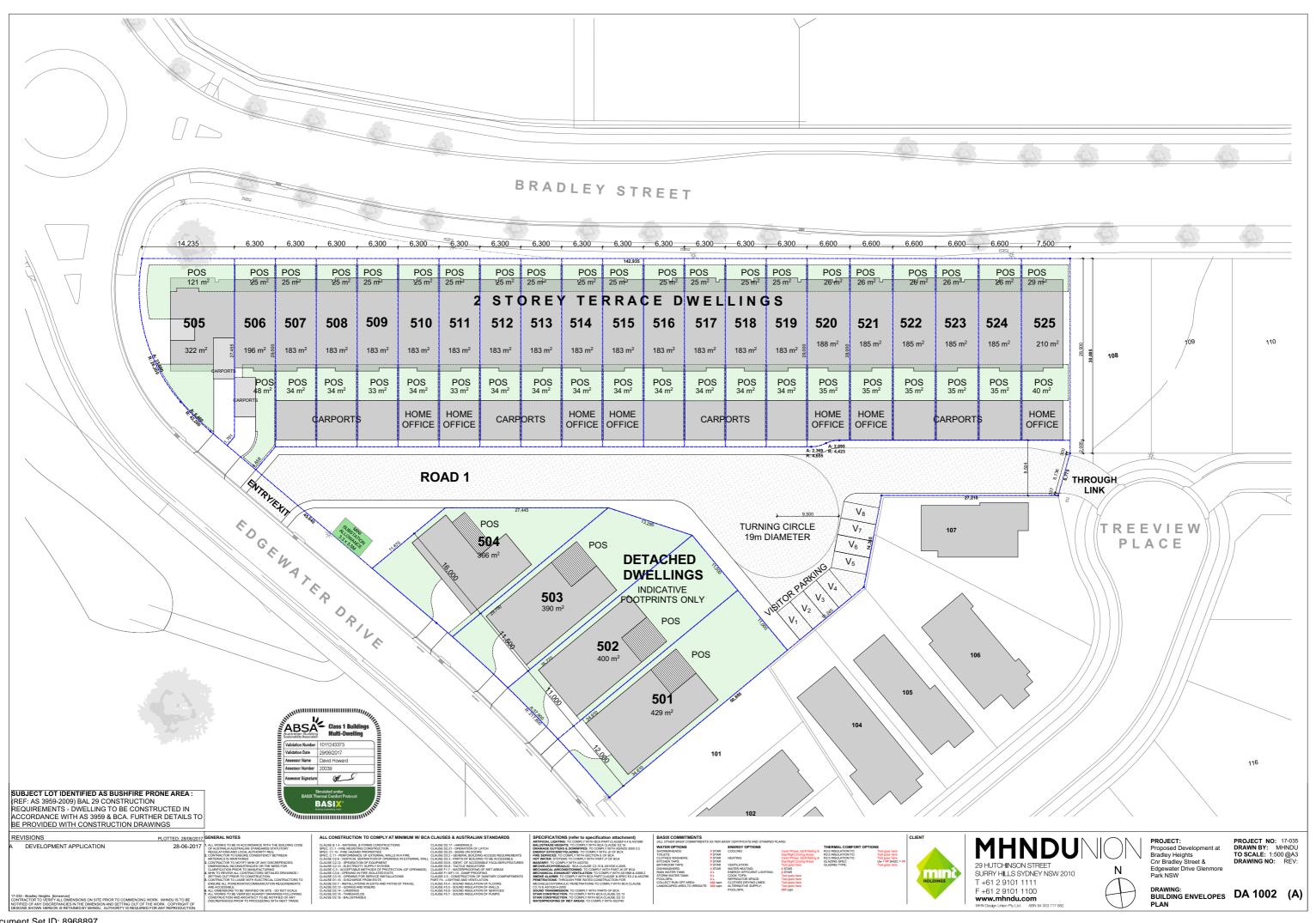
PROJECT: Proposed Development at Bradley Heights Cnr Bradley Street & Edgewater Drive Glenmore Park NSW

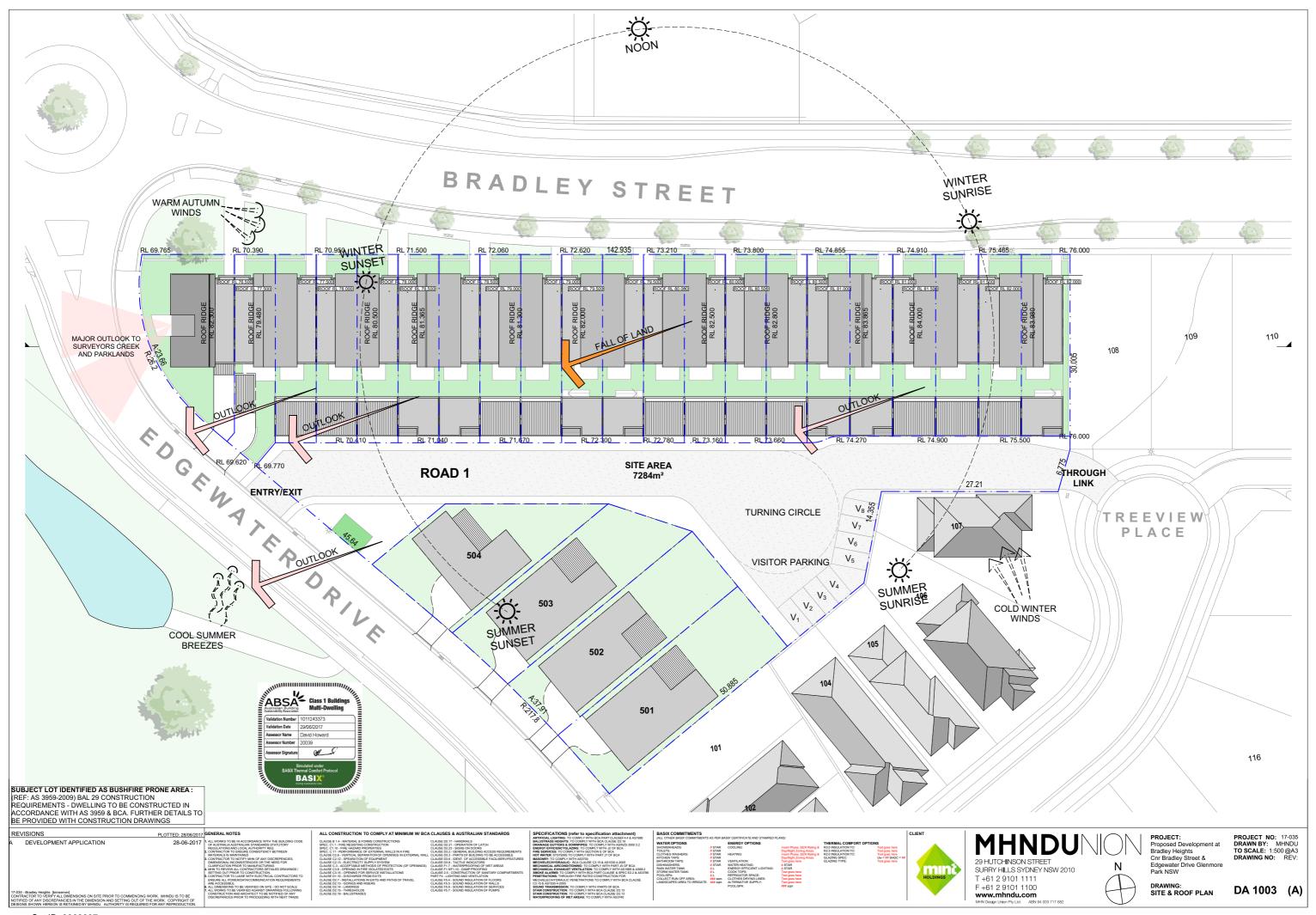
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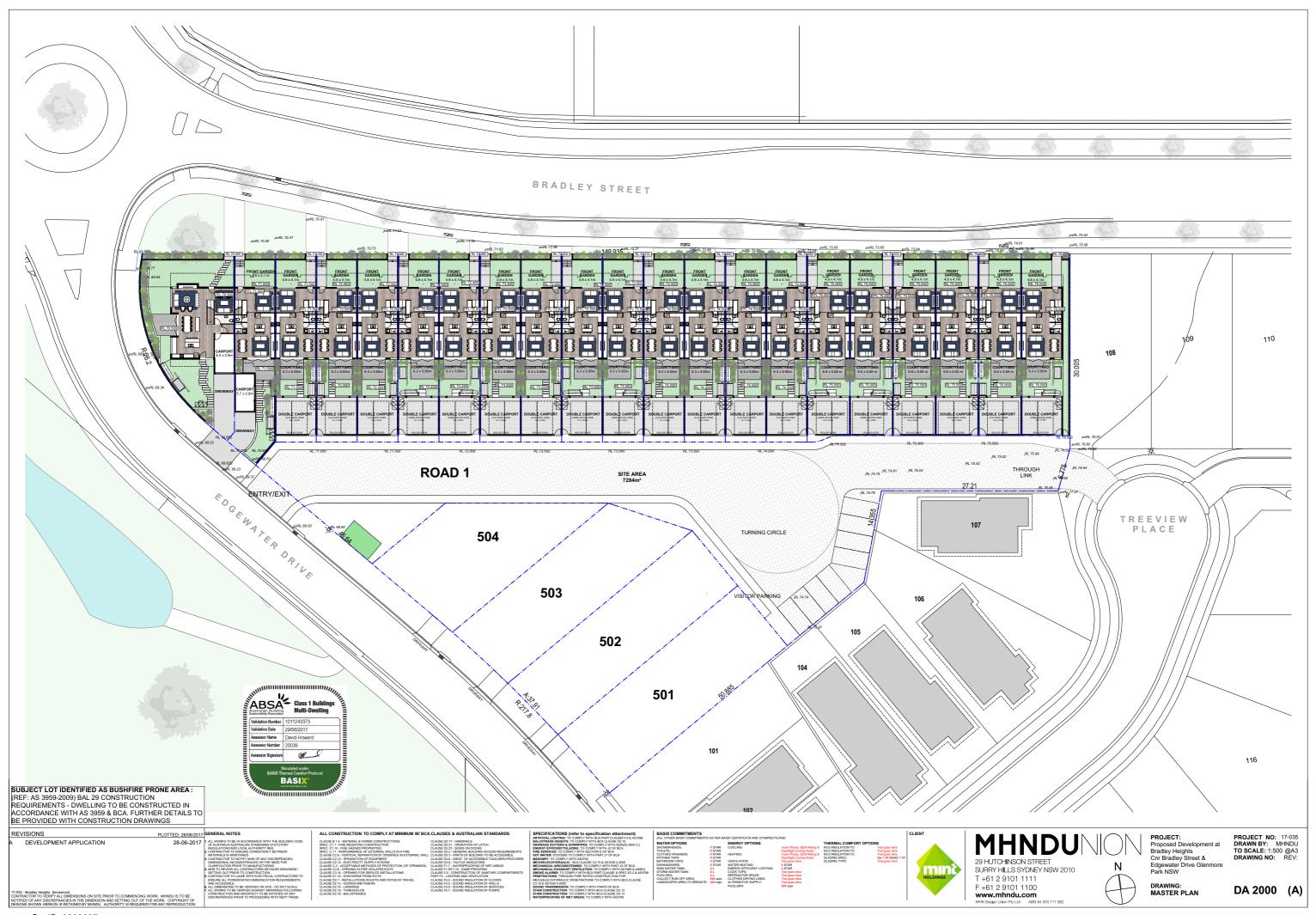
DRAWING: SITE CONTEXT

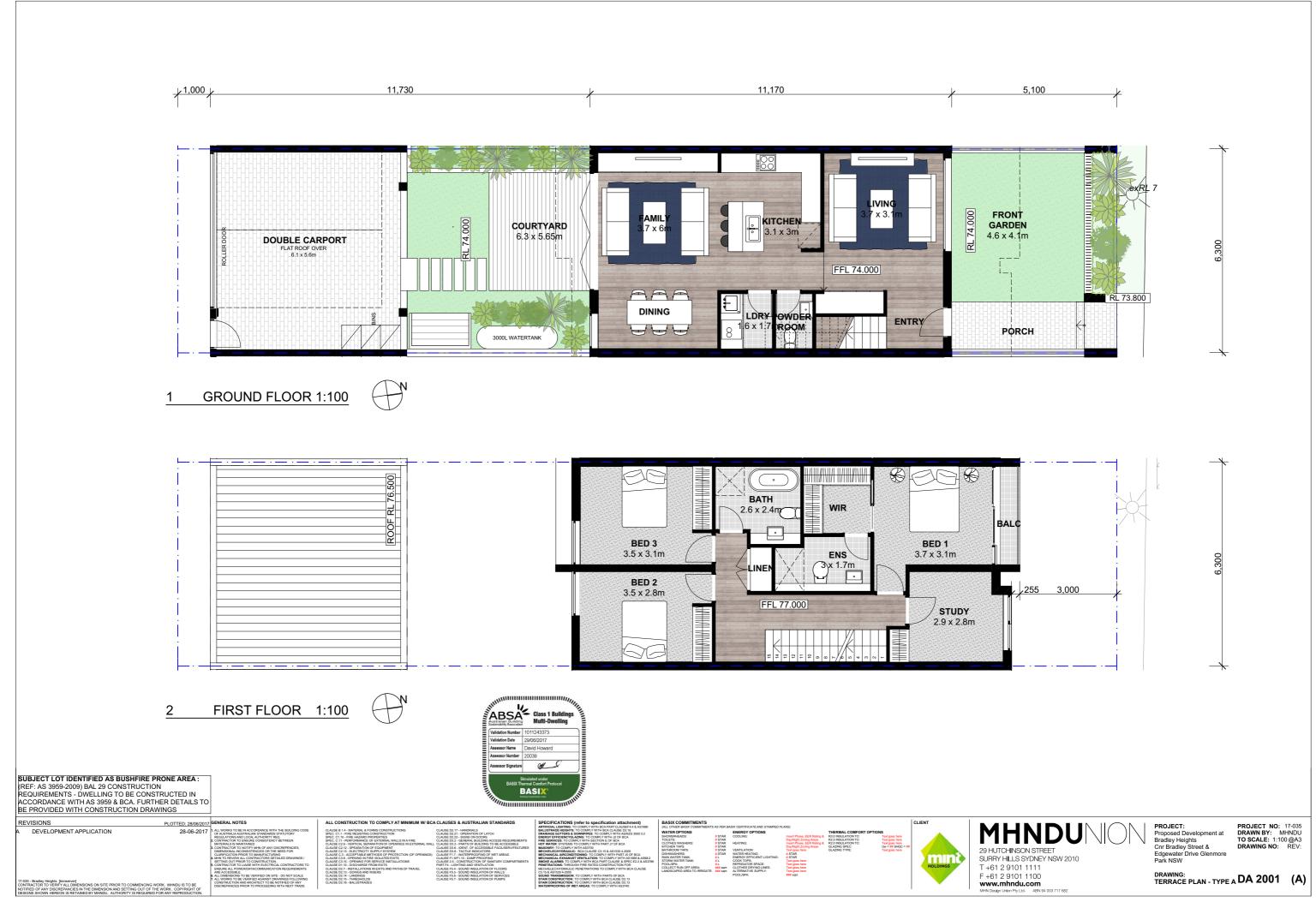
DA 1000 (A)



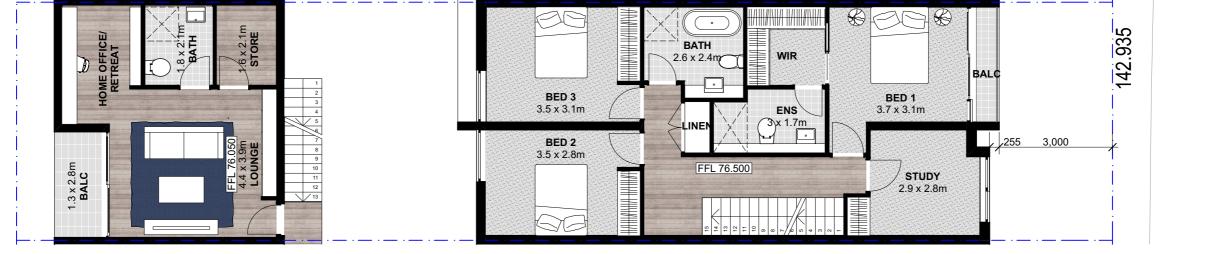












1 FIRST FLOOR 1:100



SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA:
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REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN
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EVISIONS	PLOTTED: 28/06/2017	GENERAL NOTES
DEVELOPMENT APPLICATION	20-00-2017	LALL WORST, TO BE IN ACCORDANCE WITH THE BILLIDING CODE OF AUSTRALA MISTALANDES STANDINGS STANDINGS OF AUSTRALA MISTALANDES STANDINGS CONTINUED TO SEQUENCE CONSISTENCY SERVICES CONTINUED TO SEQUENCE CONSISTENCY SERVICES CONTINUED TO SECUENCE SO IT THE NEED FOR DAMES SOCIAL SECUENCES ON THE NEED FOR MISTALANDES SOCIAL SECUENCES ON THE NEED SOCIAL MISTALANDES SOCIAL SECUENCES ON THE NEED SOCIAL MISTALANDES SO
035 - Bradley Heights [bimserver]		ARE ACCESSIBLE. 6. ALL DIMENSIONS TO BE VERIFIED ON SITE - DO NOT SCALE 7. ALL WORKS TO BE VERIFIED AGAINST DRAWINGS FOLLOWING CONSTRUCTION AND ARCHITECT TO BE NOTIFIED OF ANY

ALL CONSTRUCTION TO COMPLY AT MINIMUM W/ BCA	CLAUSES & AUSTRALIAN STANDARDS
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	SPECIFICATIONS (refer to specification attachment) ARTHRICAL LIGHTBIG: TO COMPLY WITH BCA PART CLAUSEF 4.4 & AS1680 BALLISTRADE RIFORTS: TO COMPLY WITH ASIACS 3500 3.2 ENERGY FERSIONICYSI AZMANT TO COMPLY WITH ASIACS 3500 3.2 ENERGY FERSIONICYSI AZMANT TO COMPLY WITH A SIACS 3500.3.2	1
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URES	MASONRY: TO COMPLY WITH AS3700 MECHELECHYDRAULIC: BCA CLAUSE C3.15 & AS1530 4-2005 MECHANICAL AIRCONDITIONING: TO COMPLY WITH PART JS OF BCA MECHANICAL EXHANUST VENTILATION: TO COMPLY WITH AS1668 & AS68.2	2 2 2
ENTS	SMOKE ALARMS: TO COMEY WITH ECA PART CLAUSE & SPEC EZ 2 & AS3786 PEMETRATIONS: THROUGH PERS RATE CONSTRUCTION FOR MECHELECHYDRAULD PEMETRATIONS TO COMPLY WITH ECA CLAUSE COLIS & ASISS ACCOUNT OF THE COMPLY WITH ECA CLAUSE COLIS & ASISS ACCOUNTS TO COMPLY WITH PARTS OF CONSTRUCTION: TO COMPLY WITH PARTS OF CONSTRUCTION: TO COMPLY WITH ECA CLAUSE ED: 13 STAR CONSTRUCTION: TO COMPLY WITH ECA CLAUSE ED: 13 STAR CONSTRUCTION: TO COMPLY WITH ECA CLAUSE ED: 13	0
	WATERPROOFING OF WET AREAS: TO COMPLY WITH AS3740	



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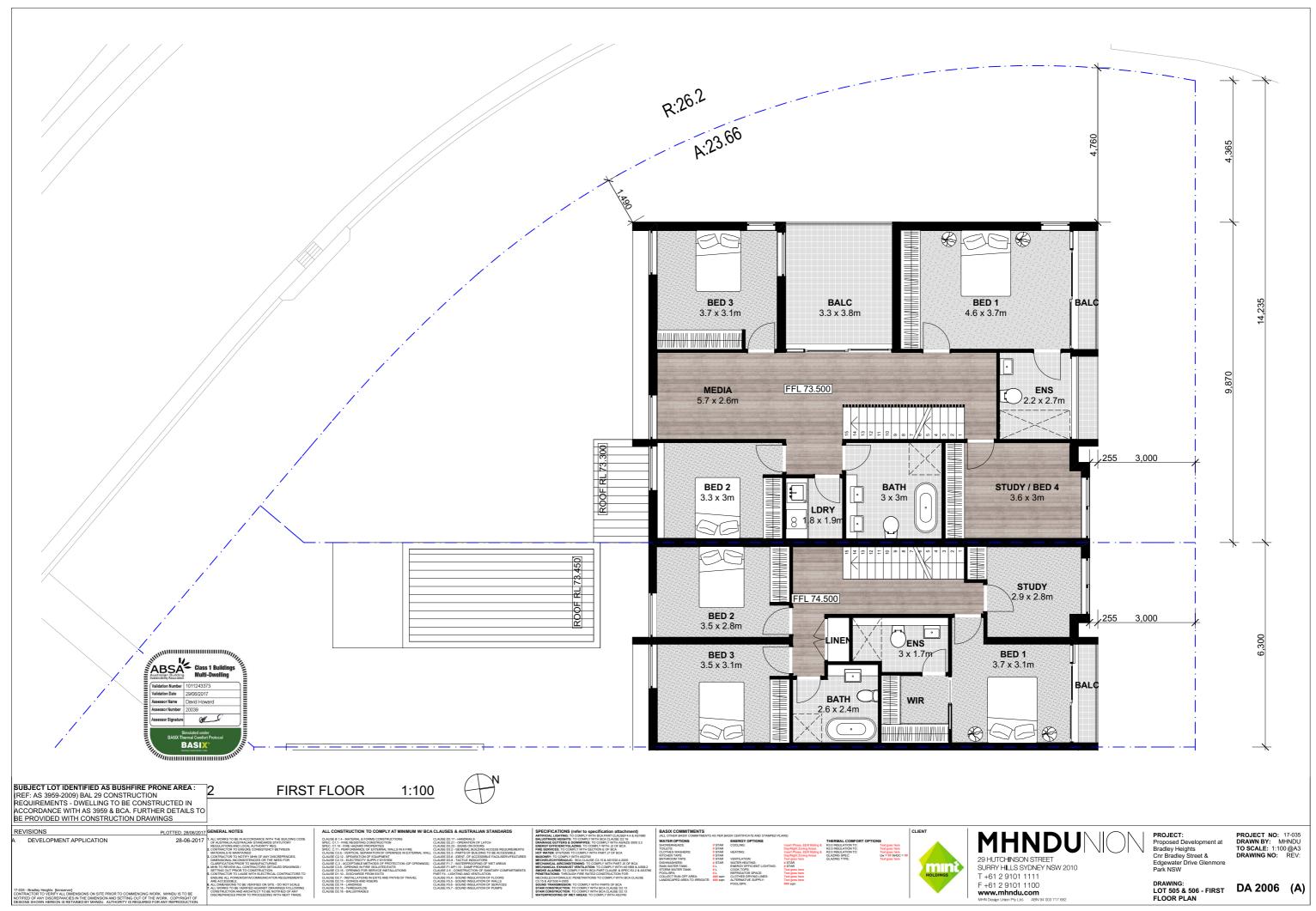
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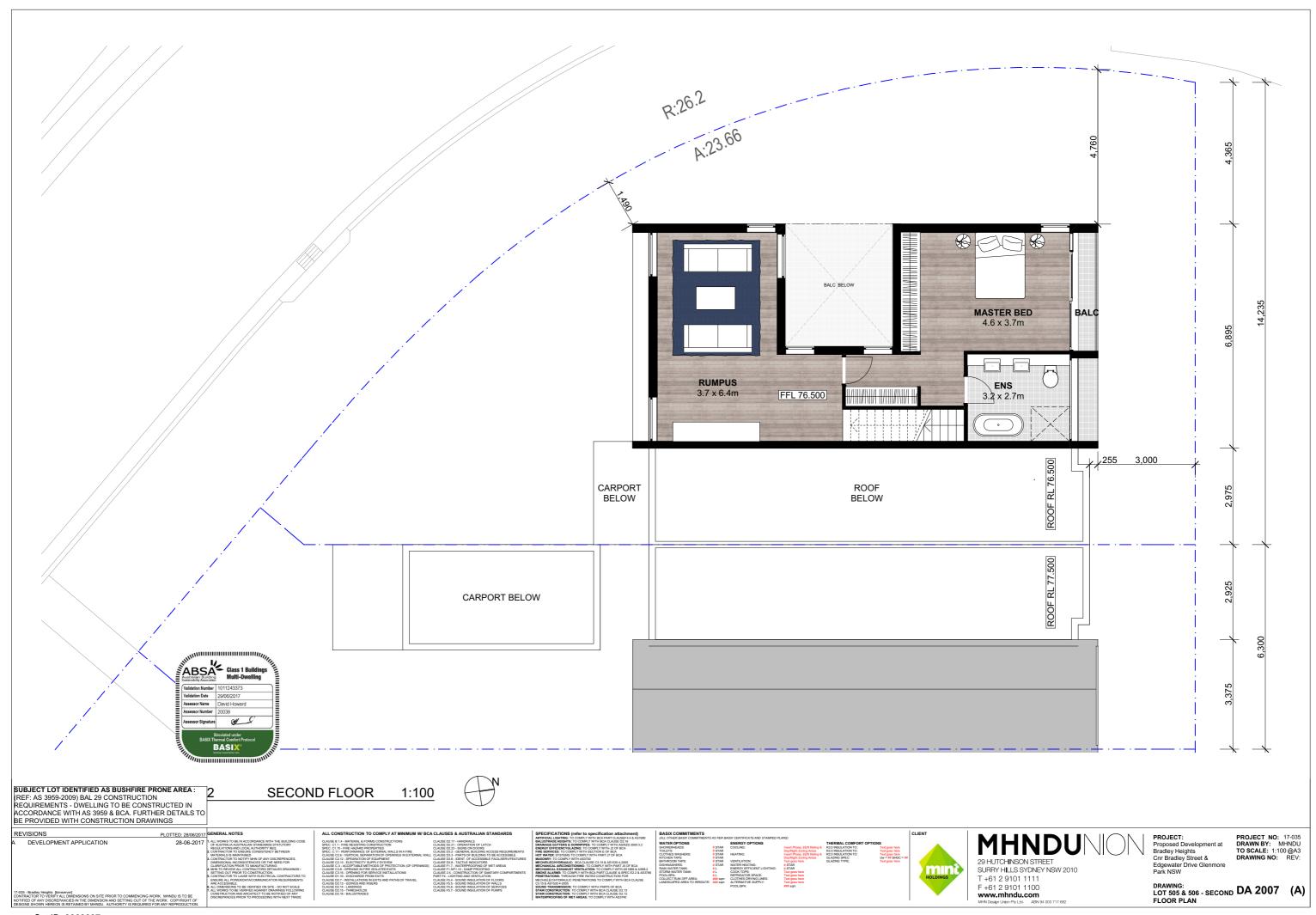
PROJECT:
Proposed Development at
Bradley Heights
Cnr Bradley Street &
Edgewater Drive Glenmore
Park NSW

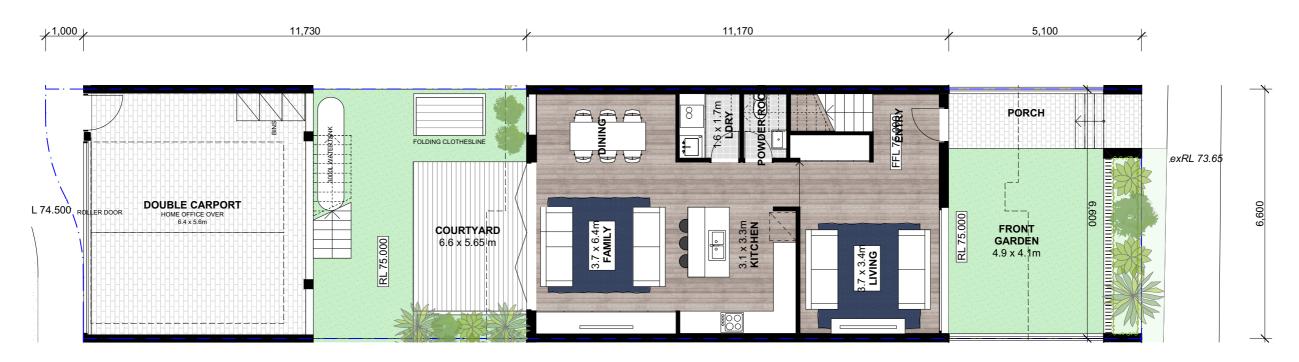
PROJECT NO: 17-035 DRAWN BY: MHNDU TO SCALE: 1:100 @A3 DRAWING NO: REV:

DRAWING:
TERRACE PLAN - TYPE A DA 2002 (A)

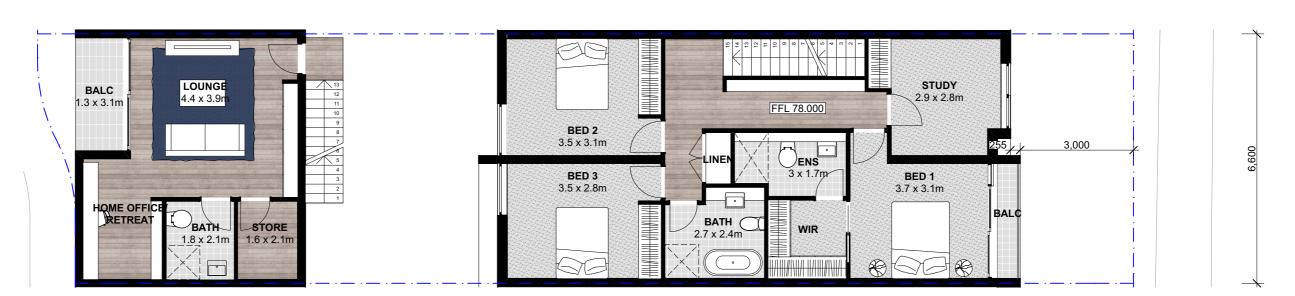








1 GROUND FLOOR 1:100



1 FIRST FLOOR 1:100





SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA:
(REF: AS 3959-2009) BAL 29 CONSTRUCTION
REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN
ACCORDANCE WITH AS 3959 & BCA. FURTHER DETAILS TO
BE PROVIDED WITH CONSTRUCTION DRAWINGS

REVISIONS	PLOTTED: 28/06/2017	GENERAL NOTES
DEVELOPMENT APPLICATION	20-00-2017	LALL WORST TO BE IN ACCORDANCE WITH THE BILLIONS COSE OF AUSTRALAR SITEMAN STRAMANDES STATUTIONY OF AUSTRALAR SITEMAN STRAMANDES STATUTIONY OF AUSTRALAR SITEMAN SITEM
7-035 - Bradley Heights [bimserver]		CONSTRUCTION AND ARCHITECT TO BE NOTIFIED OF ANY





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	WATER OPTIONS	#STAR	ENERGY OPTIONS	
			COOLING:	Insert
	TOILETS:	# STAR		Day/8
	CLOTHES WASHERS:	# STAR	HEATING:	Insert
	KITCHEN TAPS:	# STAR		Day/8
	BATHROOM TAPS:			Text
	DISHWASHERS:	# STAR		# STA
2			ENERGY EFFICIENT LIGHTING:	
786	STORM WATER TANK:			Text
	POOL/SPA: COLLECT RUN OFF AREA:		REFRIGATOR SPACE:	Text
	LANDSCAPED AREA TO IRRIGATE:		CLOTHES DRYING LINES:	Text o
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			POOL/SPA:	### s

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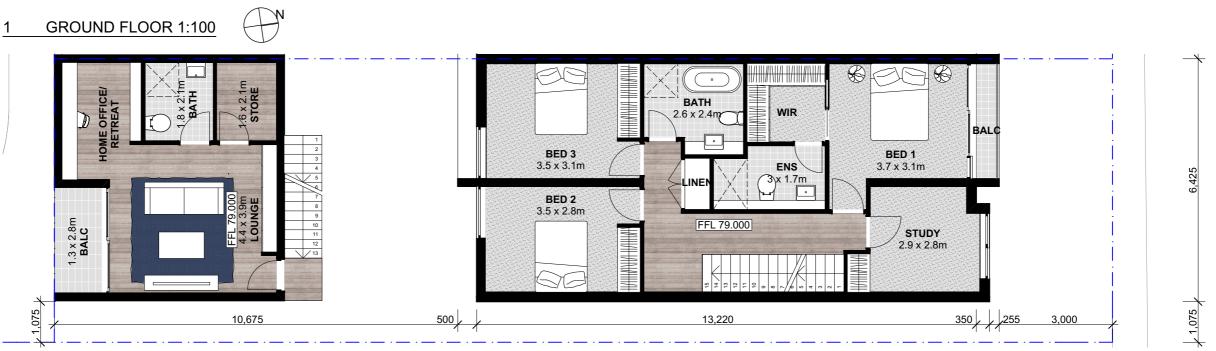
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PROJECT NO: 17-035 DRAWN BY: MHNDU TO SCALE: 1:100 @A3 DRAWING NO: REV:

DRAWING:
TERRACE PLAN - TYPE B DA 2004 (A)





FIRST FLOOR 1:100





SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA:
(REF: AS 3959-2009) BAL 29 CONSTRUCTION
REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN
ACCORDANCE WITH AS 3959 & BCA. FURTHER DETAILS TO BE PROVIDED WITH CONSTRUCTION DRAWINGS

EVISIONS	PLOTTED: 28/06/2017	GENERAL NOTES
DEVELOPMENT APPLICATION	26-06-2017	1. ALL WORKS TO BE IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRAL AUSTRALIAN STANDARDS STATUTORY REGULATIONS AND LOCAL AUTHORITY RED CONTRACTOR TO ENSURE CONSISTENCY BETWEEN MATERIALS IS MAINTAINED ACCONTRACTOR TO NOTIFY MINH OF ANY DISCREPPENCIES.
		DIMENSIONAL INCONSISTENCIES OR THE NEED FOR CLARIFICATION PRIOR TO MANUFACTURING 4. MHN TO REVIEW ALL CONTRACTORS DETAILED DRAWINGS / SETTING OUT PRIOR TO CONSTRUCTION.
		 CONTRACTOR TO LIAISE WITH ELECTRICAL CONTRACTORS TO ENSURE ALL POWER/DATA/COMMUNICATION REQUIREMENTS ARE ACCESSIBLE.
-035 - Bradley Heights [bimserver]		ALL DIMENSIONS TO BE VERIFIED ON SITE - DO NOT SCALE ALL WORKS TO BE VERIFIED AGAINST DRAWINGS FOLLOWING CONSTRUCTION AND ARCHITECT TO BE NOTIFIED OF ANY

ALL CONSTRUCTION TO COMPLY AT MINIMUM W/ BCA	CLAUSES & AUSTRALIAN STANDARDS
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П	(ALL OTHER BASIX COMMITMENTS	AS PER B	ASIX CERTIFICATE AND STAMPED P	LANS)
1	WATER OPTIONS		ENERGY OPTIONS	
	WATER OPTIONS SHOWERHEADS: TOILETS: CLOTHES WASHERS: KITCHEN TAPS:	#STAR #STAR #STAR	HEATING:	Insert Phase, E Day/Night Zonir Insert Phase, E Day/Night Zonir
	BATHROOM TAPS: DISHWASHERS: RAIN WATER TANK: STORM WATER TANK: STORM WATER TANK: COLLECT RUN OFF AREA: LANDSCAPED AREA TO IRRIGATE:	#STAR #L #L #L	WATER HEATING: ENERGY EFFICIENT LIGHTING: COOK TOPS: REFRIGATOR SPACE: CLOTHES DRYING LINES:	Text goes here # STAR # STAR Text goes here Text goes here Text goes here Text goes here ### sqm

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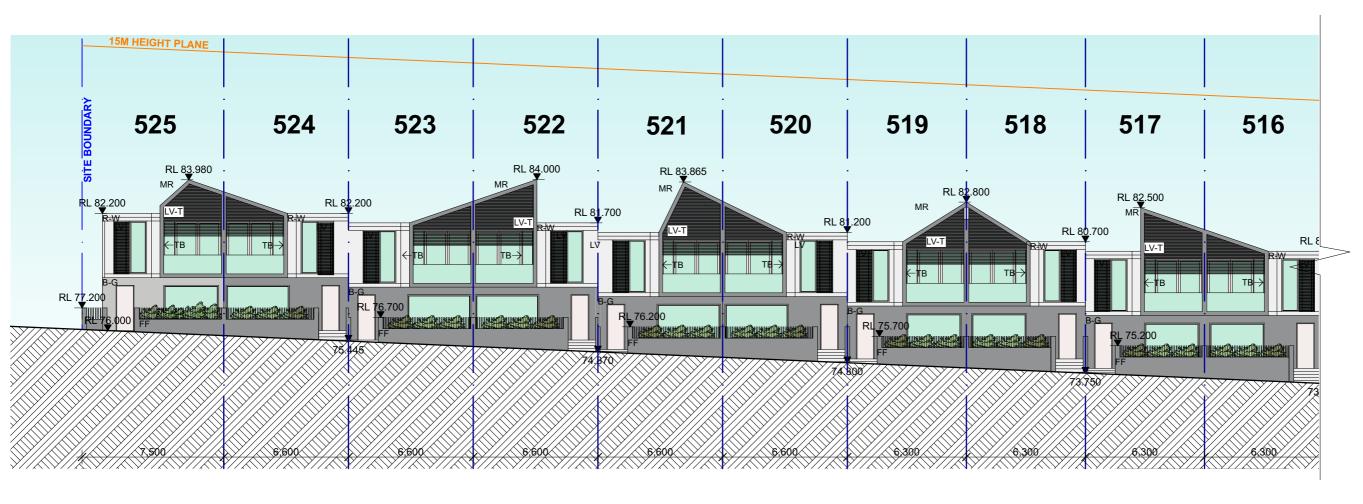
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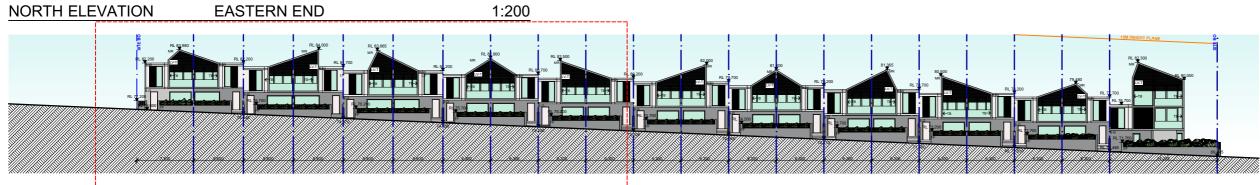
PROJECT: Proposed Development at Bradley Heights Cnr Bradley Street & Edgewater Drive Glenmore Park NSW

PROJECT NO: 17-035 DRAWN BY: MHNDU TO SCALE: 1:100 @A3 DRAWING NO: REV:

DRAWING: LOT 525 - GROUND & FIRST FLOOR PLAN

DA 2008 (A)





1:500 NORTH ELEVATION SITE ELEVATION

ON S

LEGEND: EXTERNAL MATERIALS AND FINISHES

PAINTED LIGHT WEIGHT CLADDING - LIGHT COLOURED

TIMBER LOUVRE SCREENING APPEARANCE

BRICK FACADE APPEARANCE

BALUSTRADES

SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA: (REF: AS 3959-2009) BAL 29 CONSTRUCTION REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN ACCORDANCE WITH AS 3959 & BCA_FURTHER DETAILS TO METAL ROOF SHEETING DARK FINISH

TIMBER PERGOLA APPEARANCE

FEATURE FENCING

ARCHITECTURAL SCREEN

BE PROVIDED WITH CONSTRUCTION DRAWINGS DEVELOPMENT APPLICATION

MR

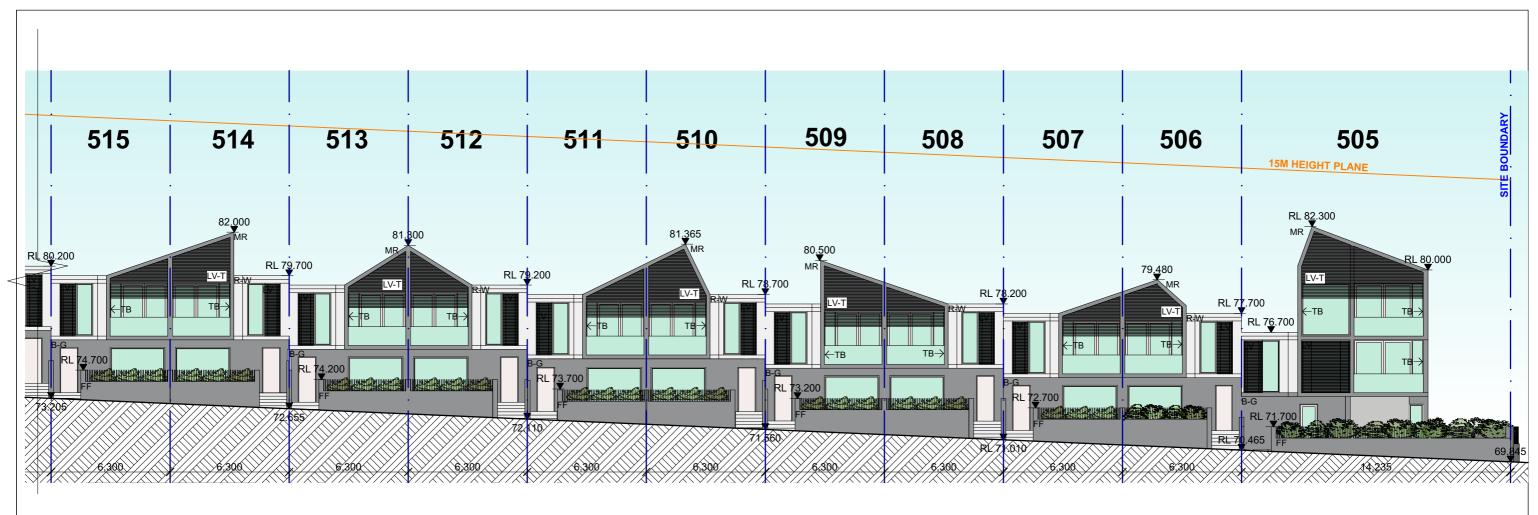
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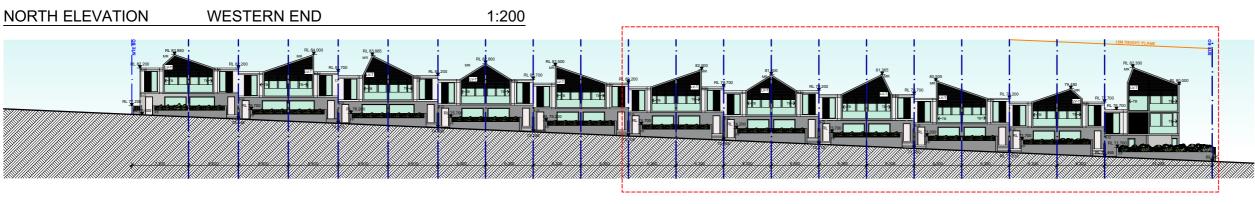
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Proposed Development at Bradley Heights Cnr Bradley Street & Edgewater Drive Glenmore Park NSW

PROJECT NO: 17-035 DRAWN BY: MHNDU TO SCALE: @A3 DRAWING NO: REV:

DRAWING: ELEVATION NORTH 01 DA 2400 (A)





ABSA Class 1 Buildi

1:500 SITE ELEVATION

LEGEND: EXTERNAL MATERIALS AND FINISHES



PAINTED LIGHT WEIGHT CLADDING - LIGHT COLOURED



TIMBER LOUVRE SCREENING APPEARANCE



BRICK FACADE APPEARANCE



BALUSTRADES

SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA: (REF: AS 3959-2009) BAL 29 CONSTRUCTION REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN

NORTH ELEVATION

MR

METAL ROOF SHEETING DARK FINISH

TIMBER PERGOLA APPEARANCE



FEATURE FENCING

ARCHITECTURAL SCREEN

ACCORDANCE WITH AS 3959 & BCA_FURTHER DETAILS TO BE PROVIDED WITH CONSTRUCTION DRAWINGS DEVELOPMENT APPLICATION

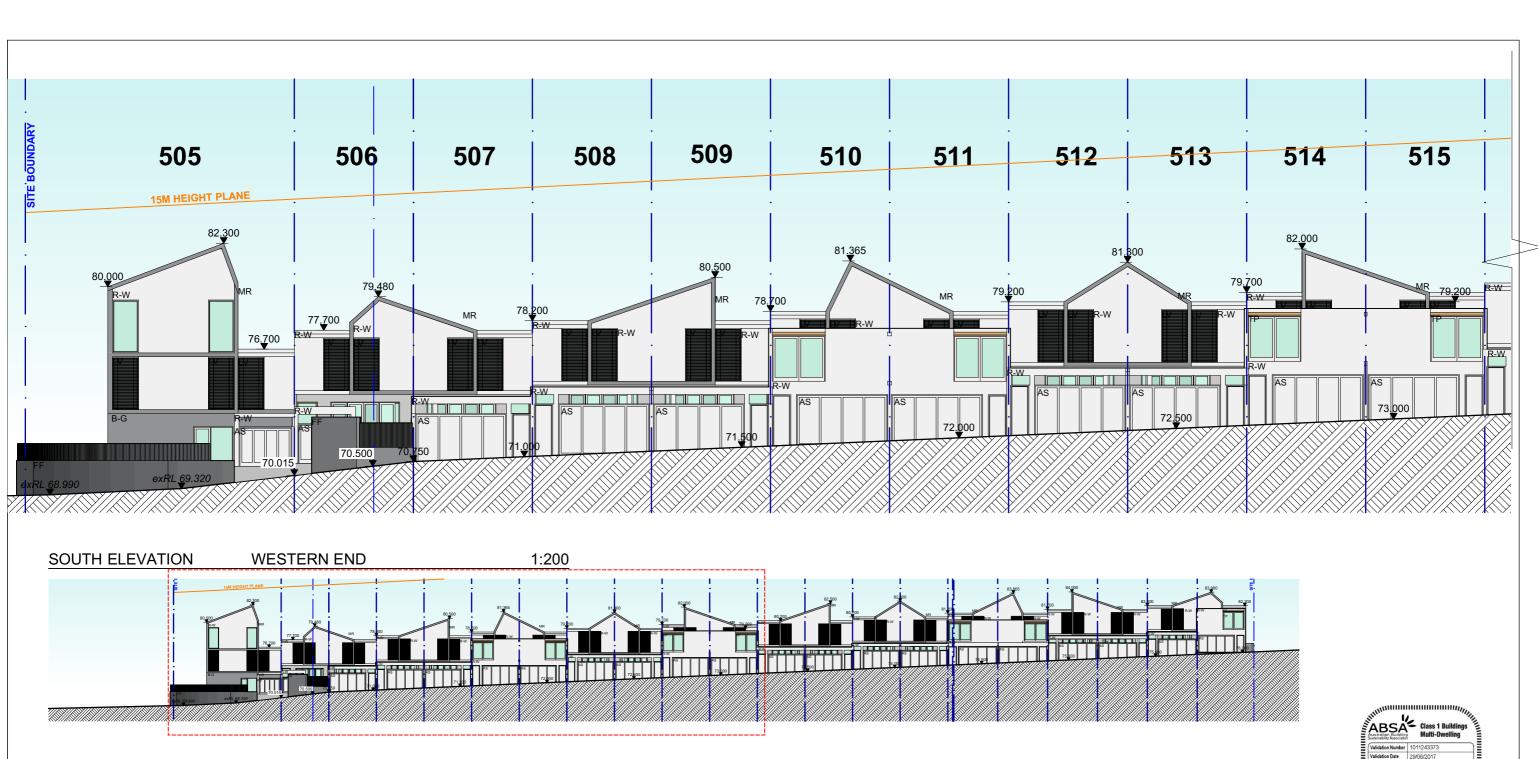
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Proposed Development at Bradley Heights Cnr Bradley Street & Edgewater Drive Glenmore Park NSW

PROJECT NO: 17-035 DRAWN BY: MHNDU TO SCALE: @A3 DRAWING NO: REV:

DRAWING: ELEVATION NORTH 02 DA 2401 (A)



1:500 **SOUTH ELEVATION** SITE ELEVATION



LEGEND: EXTERNAL MATERIALS AND FINISHES



LV-T TIMBER LOUVRE SCREENING APPEARANCE

BRICK FACADE APPEARANCE

BALUSTRADES

SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA: (REF: AS 3959-2009) BAL 29 CONSTRUCTION REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN ACCORDANCE WITH AS 3959 & BCA_FURTHER DETAILS TO BE PROVIDED WITH CONSTRUCTION DRAWINGS

MR

METAL ROOF SHEETING DARK FINISH

TIMBER PERGOLA APPEARANCE

FEATURE FENCING

ARCHITECTURAL SCREEN

DEVELOPMENT APPLICATION

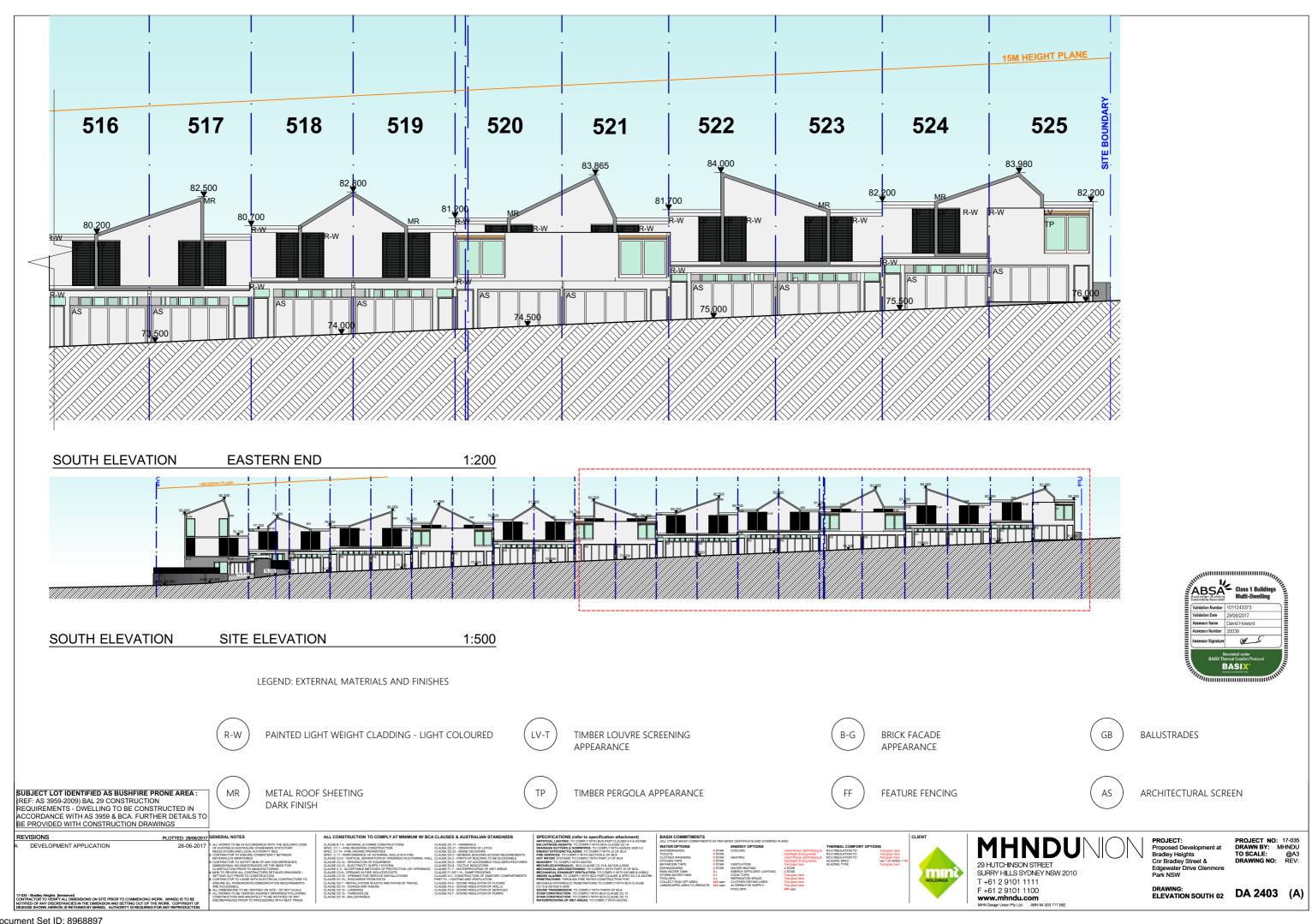


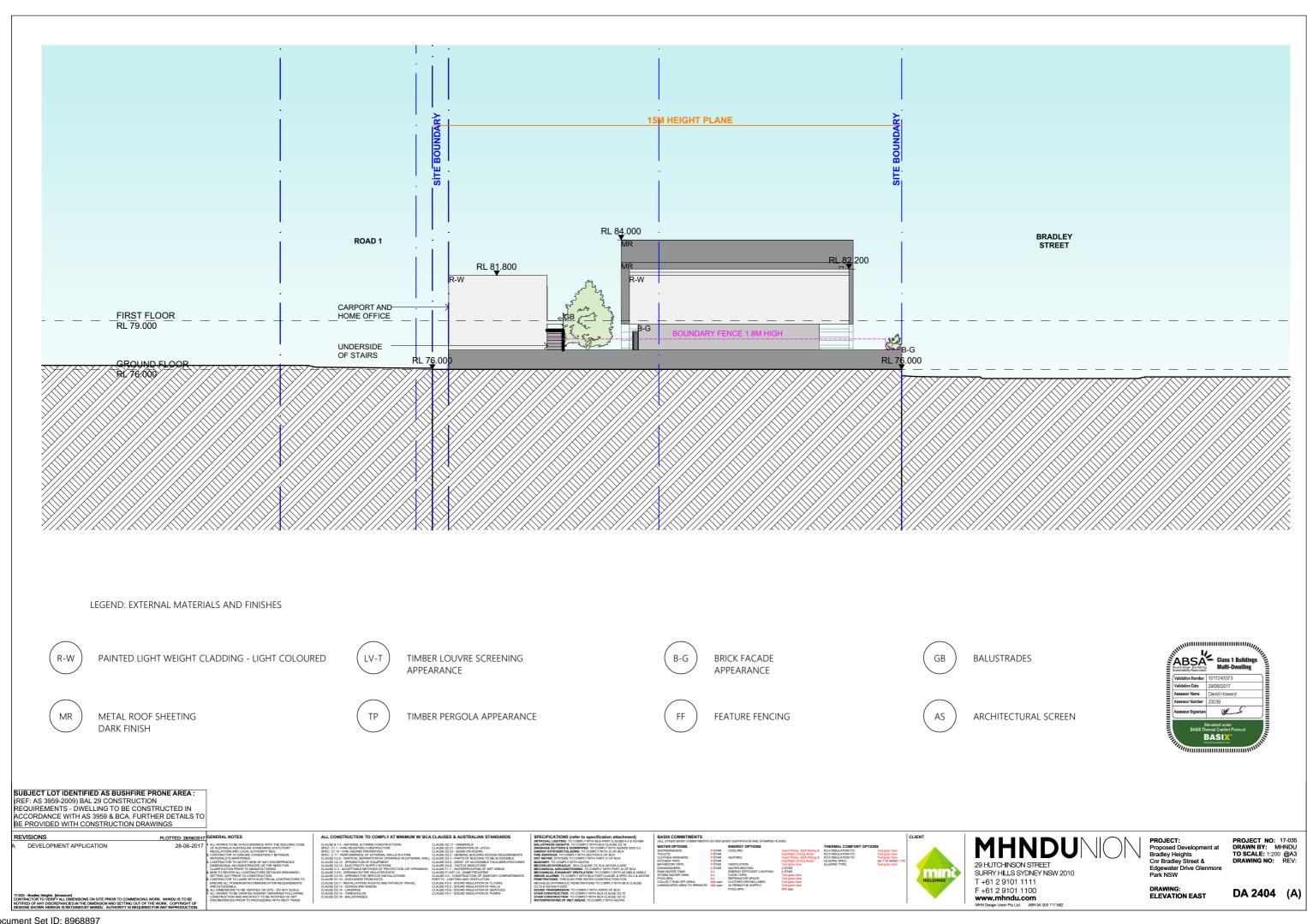
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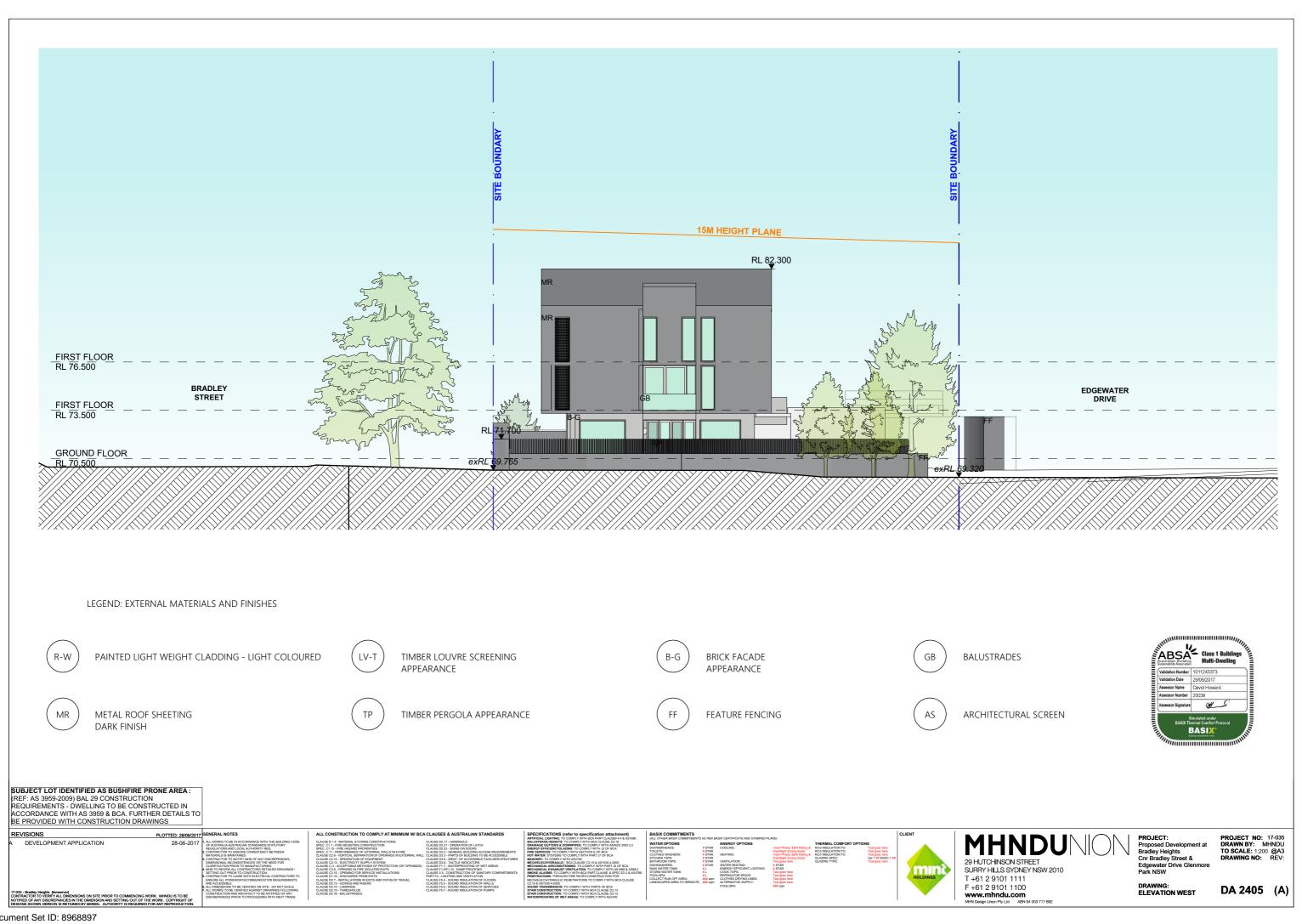
Proposed Development at Bradley Heights Cnr Bradley Street & Edgewater Drive Glenmore Park NSW

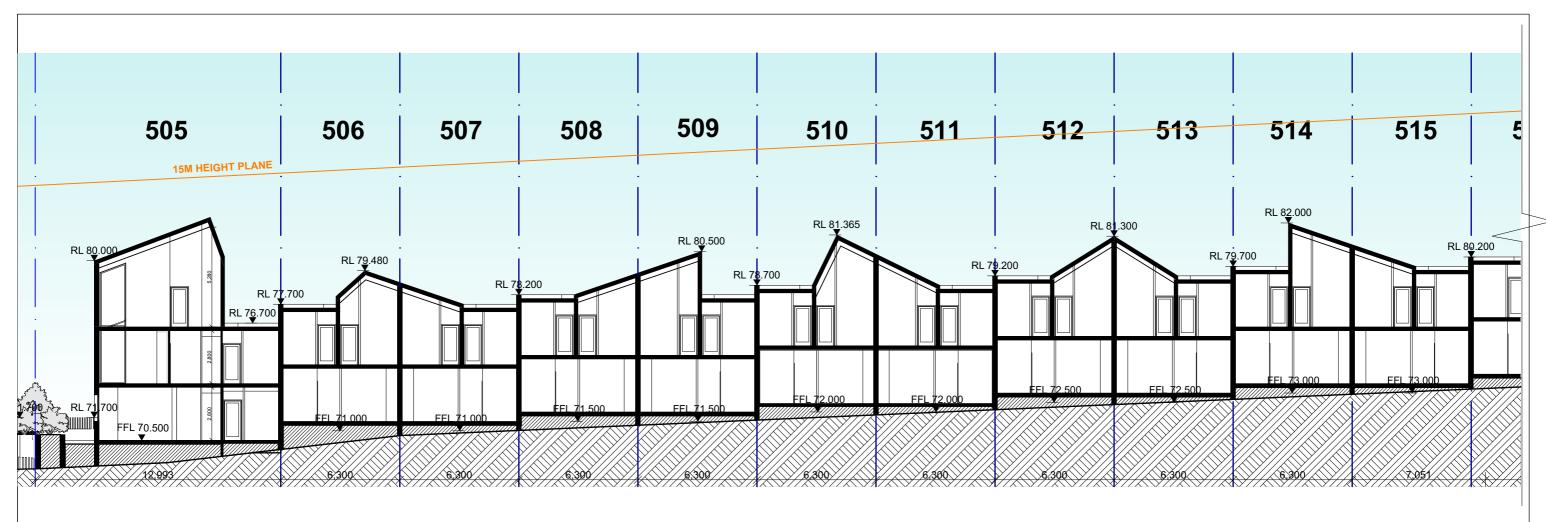
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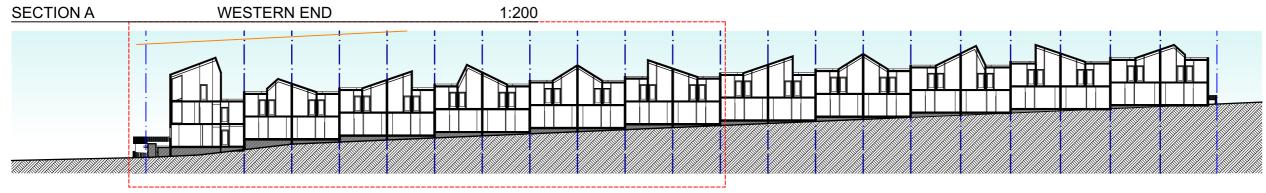
DRAWING: ELEVATION SOUTH 01 DA 2402 (A)











SECTION A LONG SITE SECTION 1:500



SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA:
(REF: AS 3959-2009) BAL 29 CONSTRUCTION
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EVISIONS	PLOTTED: 28/06/2017	GENERAL NOTES
DEVELOPMENT APPLICATION	20-00-2017	I.A.L. MORSE TO BE IN ACCORDANCE WITH THE BULLION CODE OF AUSTRALA MERICAL STRANDERS STATUTION ROCAL ATOMS AND LOCAL AUTHORITY RICE MEDICAL TOPS AND LOCAL AUTHORITY RICE MEDICAL TOPS AND LOCAL AUTHORITY RICE OF AUTHORITY AND LOCAL AUTHORITY RICE OF AUTHORITY RICE

ALL CONSTRUCTION TO COMPLY AT MINIMUM W/ BCA	CLAUSES & AUSTRALIAN STANDARDS
SPEC. C1.1 - FIRE RESISTING CONSTRUCTION SPEC. C1.1 - FIRE RESISTING CONSTRUCTION CAUSE C2.5 - VERTICAL SEPARATION OF CREMING IN EXTERNAL WALLS NA FIRE CALIFIE C2.5 - VERTICAL SEPARATION OF CREMING IN EXTERNAL WALL CALIFIE C2.5 - SECRETION TUPPAY SYSTEM CONTINUES CALIFIE C2.5 - CENTERION TUPPAY SYSTEM CONTINUES CALIFIE C3.5 - CREMING OF SERVICE STRUCTURE C1.0 OF CREMINGS CALIFIE C3.5 - CREMING FOR SERVICE STRUCTURE CALIFIE CALIFIE C3.5 - CREMING FOR SERVICE STRUCTURE CALIFIE C3.5 - CREMING OF SERVICE C3.5 - CREMING OF SERVICE C3.5 - CREMING C4.5 - CREMING C4.5 - CREMING C5.5 -	CLASE DE L'A-PANDRALS CLASE DE L'A-PANDRALS CLASE DE L'A-PANDRAL DE L'ACCES REQUIREMENTS CLASE DE L'OBERNA BILLION ACCES REQUIREMENTS CLASE DE L'OBERNA BILLION ACCES REQUIREMENTS CLASE DE L'OBERNA BILLION ACCESSIBLE PAR CURRIPPEATURES CLASE DE L'ACTUEL ROCATORS CLASE PE L'ACTUEL ROCATORS CL







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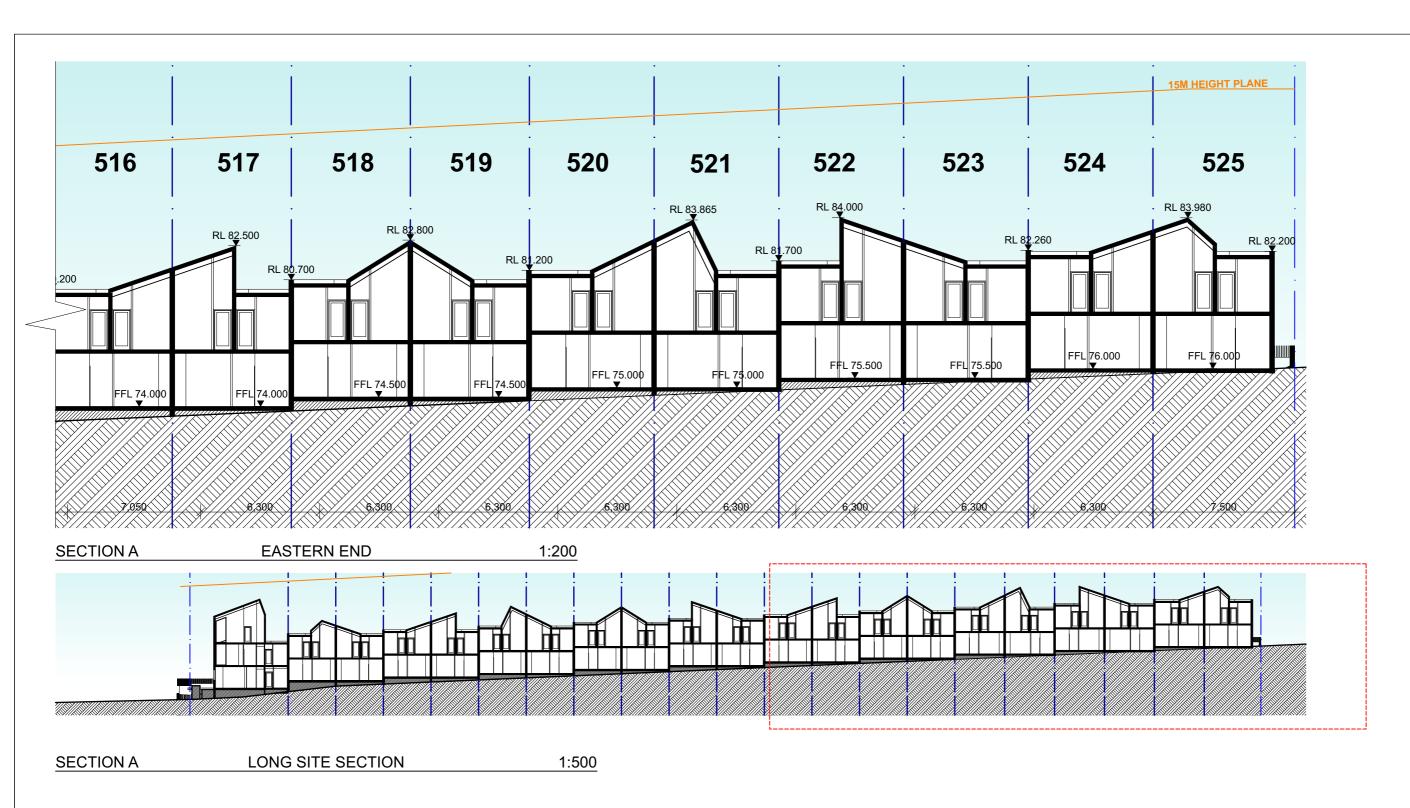
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PROJECT:
Proposed Development at
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Cnr Bradley Street &
Edgewater Drive Glenmore
Park NSW

at PROJECT NO: 17-035
DRAWN BY: MHNDU
TO SCALE: @A3
DRAWING NO: REV:
ore

DRAWING: DA 2500 (A)





SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA:
(REF: AS 3959-2009) BAL 29 CONSTRUCTION
REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN
ACCORDANCE WITH AS 3959 & BCA. FURTHER DETAILS TO
BE PROVIDED WITH CONSTRUCTION DRAWINGS

DEVELOPMENT APPLICATION

28-06-2017

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SPECIAL SPEC

LL CONSTRUCTION TO COMPLY AT MINIMUM W JBCA CLAUSES & AUSTRALIAN STANDARDS

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SPECIFICATIONS (refer to specification attachment)
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AUSTRACE RESIDENT TO COREY WITH BCC ALARIER CALLEST 5.000 3.3
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BASIX COMMITMENTS

LIC OTHER BASIX CERTIFICATE AND STAMPED PLA

WATER OPTIONS

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STORMED-BASIX
STAR
TOLEITS
STAR
BATHACOL STAR
BATH

THERMAL COMFORT OPTIONS

RED RISULATION TO:
RED RIS

HOLDINGS

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PROJECT:
Proposed Development at
Bradley Heights
Cnr Bradley Street &
Edgewater Drive Glenmore
Park NSW

PROJECT NO: 17-035
DRAWN BY: MHNDU
TO SCALE: @A3
DRAWING NO: REV:

DRAWING: DA 2501 (A)

EXTERNAL FINISHES



METAL ROOF SHEETING DARK FINISH



FEATURE FENCING



PAINTED LIGHTWEIGHT **CLADDING - LIGHT COLOURED**



HORIZONTAL BATTENS TIMBER APPEARANCE



TIMBER PERGOLA APPEARANCE



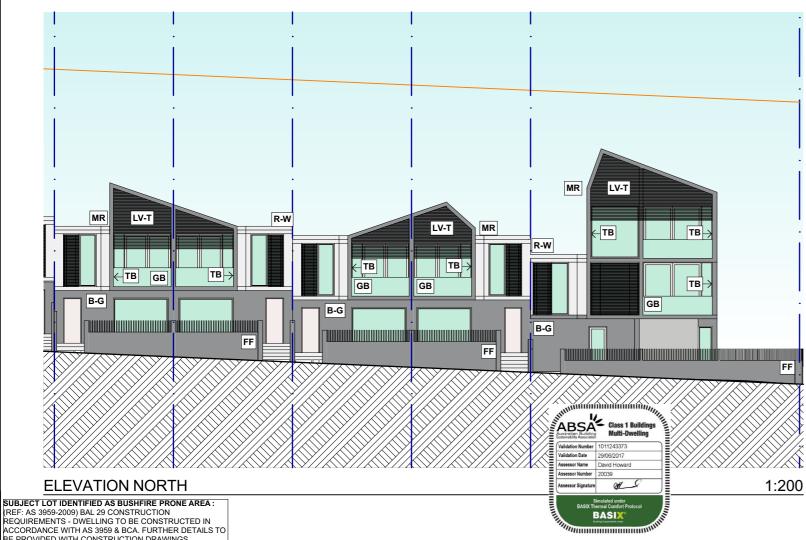
TIMBER PANEL APPEARANCE

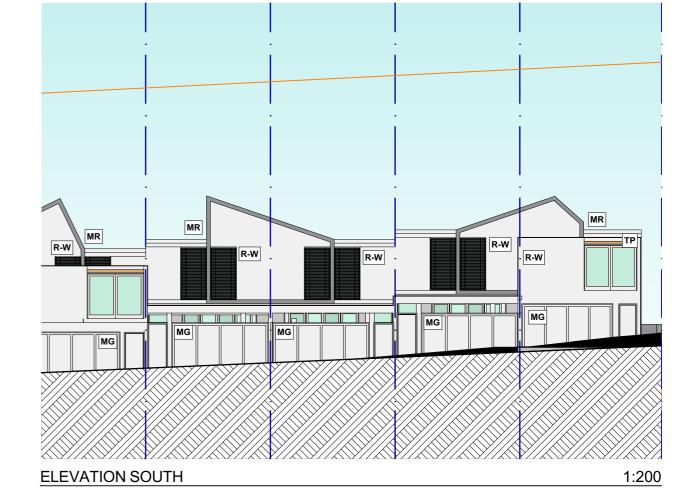


ARCHITECTURAL SCREEN



BRICK FACADE APPEARANCE





BE PROVIDED WITH CONSTRUCTION DRAWINGS DEVELOPMENT APPLICATION

min

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Proposed Development at Bradley Heights Cnr Bradley Street & Edgewater Drive Glenmore Park NSW

PROJECT NO: 17-035 DRAWN BY: MHNDU TO SCALE: 1:200 @A3 DRAWING NO: REV:

DRAWING: EXTERNAL FINISHES DA 6000 (A)

GFA DIAGRAMS

PENRITH COUNCIL

LEP 2010 GFA Definition:

gross floor area means the sum of the floor area of each floor of a building measured from the internal face of external walls, or from the internal face of walls separating the building from any other building, measured at a height of 1.4 metres above the floor, and includes:

- (a) the area of a mezzanine, and
- (b) habitable rooms in a basement or an attic, and
- (c) any shop, auditorium, cinema, and the like, in a basement or

but excludes:

- (d) any area for common vertical circulation, such as lifts and stairs, and
- (e) any basement:
- (i) storage, and
- (ii) vehicular access, loading areas, garbage and services, and
- (f) plant rooms, lift towers and other areas used exclusively for mechanical services or ducting, and
- (g) car parking to meet any requirements of the consent authority (including access to that car parking), and
- (h) any space used for the loading or unloading of goods (including access to it), and
- (i) terraces and balconies with outer walls less than 1.4 metres high, and
- (j) voids above a floor at the level of a storey or storey above.

GFA CALCULATIONS

GFA						
	SITE AREA	GFA	FSR			
505:	322m²	281m²	0.87:1			
506:	196m²	143m²	0.73:1			
507-519:	183m²	143m²	0.78:1			
w/ Home Office	183m²	174m²	0.95:1			
520:	188m²	182m²	0.97:1			
521:	185m²	182m²	0.98:1			
522-524:	185m²	150m²	0.81:1			
525:	210m²	174m²	0.83:1			

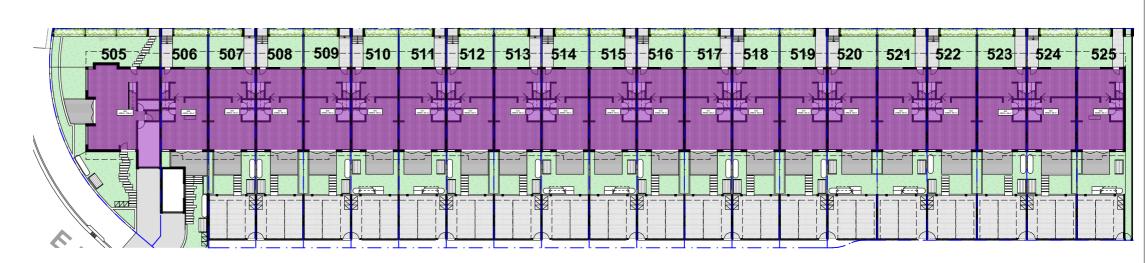
TOTAL GFA				
	SITE AREA	GFA	FSR	
	4035m²	3395m²	0.84:1	

PARKING

RESIDENTIAL SPACES:

2 Per Unit

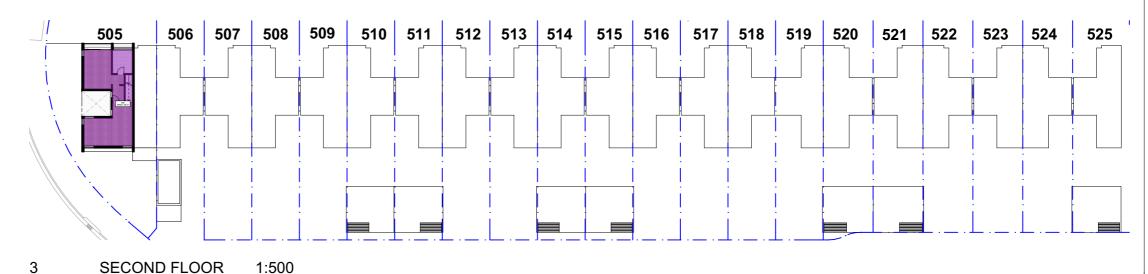




GROUND FLOOR 1:500



FIRST FLOOR 1:500



SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA: (REF: AS 3959-2009) BAL 29 CONSTRUCTION REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN

ACCORDANCE WITH AS 3959 & BCA_FURTHER DETAILS TO BE PROVIDED WITH CONSTRUCTION DRAWINGS

PLOTTED: 28/06/2017 GENERAL NOTES DEVELOPMENT APPLICATION

ALL CONSTRUCTION TO COMPLY AT MINIMUM W/ BCA CLAUSES & AUSTRALIAN STANDARD

min

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DRAWING: GFA DIAGRAMS

DA 9100 (A)

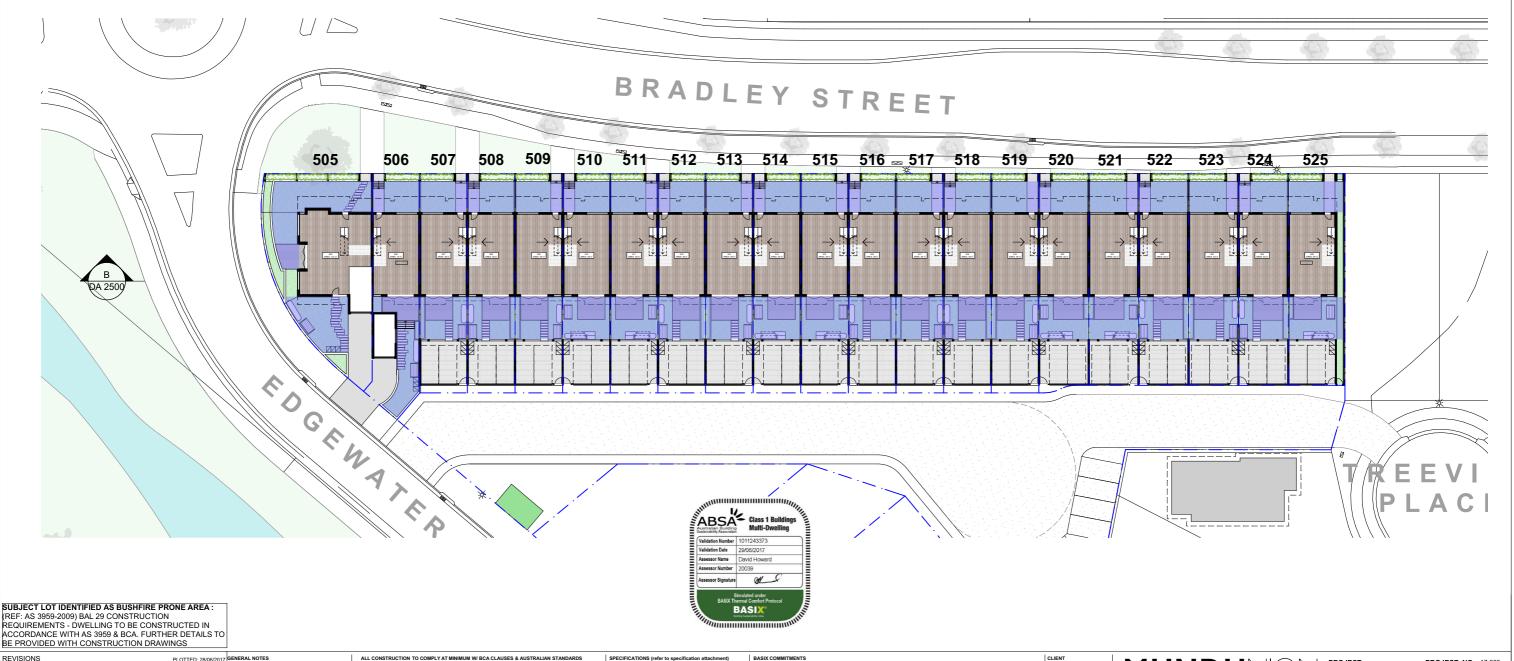
PRIVATE OPEN SPACE DIAGRAMS

PENRITH COUNCIL

LEP 2010 Private Open Space Definition:

Private open space means an area external to a building (including an area of land, terrace, balcony or deck) that is used for private outdoor purposes ancillary to the use of the building.

PRIVATE OPEN SPACE						
	AREA	SITE	%	R1 CONTROL	COMPLIES	
505:	121m²	322m²	38	20m²	YES	
506:	75m²	196m²	38	20m²	YES	
507-519:	59m²	183m²	32	20m²	YES	
w/ Home Office:	59m²	183m²	32	20m²	YES	
520:	62m²	188m²	33	20m²	YES	
521-524:	62m²	185m²	34	20m²	YES	
525:	69m²	210m ²	33	20m²	YES	



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DEVELOPMENT APPLICATION

MHNDUNION

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PROJECT NO: 17-035 DRAWN BY: MHNDU TO SCALE: 1:500 @A3 DRAWING NO: REV:

DRAWING: PRIVATE OPEN SPACE DA 9101 (A)

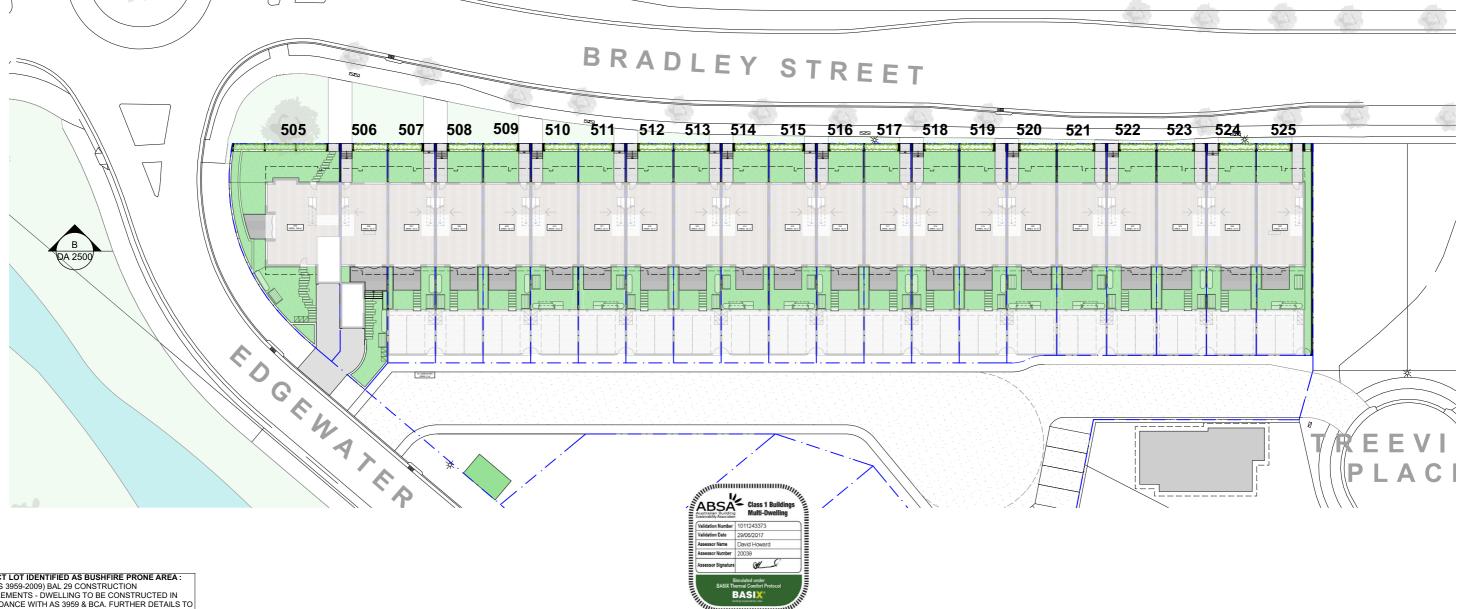
LANDSCAPE AREA DIAGRAMS

PENRITH COUNCIL

LEP 2010 Landscaped Area Definition:

Landscaped area means a part of a site used for growing plants, grasses and trees, but does not include any building, structure or hard paved area.

LANDSC	APING				
505: 506: 507-519: w/ Home 520: 521-524: 525:	Office:	AREA 148m² 58m² 44m² 45m² 47m² 47m² 70m²	SITE 322m² 196m² 183m² 183m² 188m² 185m² 210m²	% 46 30 24 25 25 25 33	
)					



SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA: (REF: AS 3959-2009) BAL 29 CONSTRUCTION REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN ACCORDANCE WITH AS 3959 & BCA_FURTHER DETAILS TO BE PROVIDED WITH CONSTRUCTION DRAWINGS

DEVELOPMENT APPLICATION



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PROJECT: Proposed Development at Bradley Heights Cnr Bradley Street & Edgewater Drive Glenmore Park NSW

PROJECT NO: 17-035 DRAWN BY: MHNDU TO SCALE: 1:500 @A3 DRAWING NO: REV:

DRAWING: LANDSCAPE AREA

DA 9102 (A)

WASTE MGT PLAN BRADLEY STREET 505 506 507 512 513 514 515 516 _{ss} 517 518 519 520 521 522 523 524 505 BINS M 521 BINS 522 BINS 523 BINS 524 BINS 508 BINS 509 BINS 510 BINS 511 BINS 512 BINS 513 BINS 514 BINS 515 BINS 516 BINS 517 BINS 518 BINS 519 BINS 520 BINS G ROAD 1 **BULKY GOODS** TURNING CIRCLE EEVIEW 19M DIAMETER AC 504 503 ABSA Class 1 Building OH C SUBJECT LOT IDENTIFIED AS BUSHFIRE PRONE AREA: (REF: AS 3959-2009) BAL 29 CONSTRUCTION REQUIREMENTS - DWELLING TO BE CONSTRUCTED IN ACCORDANCE WITH AS 3959 & BCA_FURTHER DETAILS TO BE PROVIDED WITH CONSTRUCTION DRAWINGS PROJECT: Proposed Development at Bradley Heights Cnr Bradley Street & Edgewater Drive Glenmore Park NSW PROJECT NO: 17-035 DRAWN BY: MHNDU TO SCALE: 1:500 @A3 DRAWING NO: REV: MHNDU DEVELOPMENT APPLICATION SURRY HILLS SYDNEY NSW 2010 mint T +61 2 9101 1111 F +61 2 9101 1100 www.mhndu.com DRAWING: WASTE MGT PLAN

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DA 9300 (A)

