

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

Multi Dwelling

Certificate number: 952452M

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 06/10/2017 published by the Department. This document is available at www.basix.nsw.gov.au

Secretary

Date of issue: Thursday, 16 August 2018

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



Project summary							
Project name	20331						
Street address	36-38 Rodley Avenue Penrith 2750						
Local Government Area	Penrith City Council						
Plan type and plan number	e and plan number deposited 33490						
Lot no.	58-59						
Section no.	-						
No. of residential flat buildings	1						
No. of units in residential flat buildings	21						
No. of multi-dwelling houses	0						
No. of single dwelling houses	0						
Project score							
Water	✓ 42 Target 40						
Thermal Comfort	✓ Pass Target Pass						
Energy	✓ 29 Target 25						

Certificate Prepared by

Name / Company Name: Partners Energy Management

ABN (if applicable): 15418789019

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Description of project

Project address					
Project name	20331				
Street address	36-38 Rodley Avenue Penrith 2750				
Local Government Area	Penrith City Council				
Plan type and plan number	deposited 33490				
Lot no.	58-59				
Section no.	-				
Project type					
No. of residential flat buildings	1				
No. of units in residential flat buildings	21				
No. of multi-dwelling houses	0				
No. of single dwelling houses	0				
Site details					
Site area (m²)	1113				
Roof area (m²)	238				
Non-residential floor area (m²)	0.0				
Residential car spaces	37				
Non-residential car spaces	0				

Common area landscape						
Common area lawn (m²)	350.0					
Common area garden (m²)	0.0					
Area of indigenous or low water use species (m²)	0.0					
Assessor details						
Assessor number	20039					
Certificate number	0003068690					
Climate zone	28					
Project score						
Water	✓ 42	Target 40				
Thermal Comfort	✓ Pass	Target Pass				
Energy	✓ 29	Target 25				

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Description of project

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

Residential flat buildings - Building, 21 dwellings, 6 storeys above ground

Dwelling no.	No. of bedrooms	Conditioned floor area (m²)	Unconditioned floor area (m²)	Area of garden & lawn (m²)	Indigenous species (min area m²)
01	2	73.0	0.0	0.0	0.0
12	2	81.5	0.0	0.0	0.0
22	2	81.5	0.0	0.0	0.0
32	2	81.5	0.0	0.0	0.0
42	2	81.5	0.0	0.0	0.0
52	2	75.8	4.0	0.0	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)
02	3	94.4	0.0	0.0	0.0
13	3	94.4	0.0	0.0	0.0
23	3	94.4	0.0	0.0	0.0
33	3	94.4	0.0	0.0	0.0
43	3	94.4	0.0	0.0	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)
03	2	82.2	0.0	0.0	0.0
14	3	94.4	0.0	0.0	0.0
24	3	94.4	0.0	0.0	0.0
34	3	94.4	0.0	0.0	0.0
44	3	94.4	0.0	0.0	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)
11	2	81.5	0.0	0.0	0.0
21	2	81.5	0.0	0.0	0.0
31	2	81.5	0.0	0.0	0.0
41	2	81.5	0.0	0.0	0.0
51	2	83.0	6.1	0.0	0.0

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Description of project

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

Common areas of unit building - Building

Common area	Floor area (m²)
Basement 1 - Car park	632.0
Basement 1 - Waste Room	41.0
Grd - Pump Room	8.0
All Circulation areas	130.0

Common area	Floor area (m²)
Basement 2 - Car park area	649.0
Grd - Waste Room	17.0
Basement 2 - Storage	27.0

Common area	Floor area (m²)
Lift car (No.1)	-
Grd - Bulky Waste	4.0
All Stairwells	102.0

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Schedule of BASIX commitments

- 1. Commitments for Residential flat buildings Building
 - (a) Dwellings
 - (i) Water
 - (ii) Energy
 - (iii) Thermal Comfort
 - (b) Common areas and central systems/facilities
 - (i) Water
 - (ii) Energy
- 2. Commitments for multi-dwelling houses
- 3. Commitments for single dwelling houses
- 4. 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 Residential flat buildings - Building

(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.	V	✓	
(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.	~	~	~

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	Fixtures				Appliances Individ			vidual pool	In	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)	4 star	4 star	4 star	no	3.5 star	4.5 star	-	-	-	-	-	-	-

	Alternative water source											
Dwelling no.	Alternative water supply systems	Size	Configuration	Landscape connection	Toilet connection (s)	Laundry connection	Pool top-up	Spa top-up				
None	-	-	-	-	-	-	-	-				

(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifie 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.	~	~	V
(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.		~	~
(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.		~	~

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(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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.	~	~	~
(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		✓	-
(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".		~	

	Hot water	Bathroom ventilation system		Kitchen vent	Kitchen ventilation system		ilation system
Dwelling no.	Hot water system	Each bathroom	Operation control	Each kitchen	Operation control	Each laundry	Operation control
All dwellings	central hot water system 1	individual fan into central duct + VSD	interlocked to light	individual fan, not ducted	manual switch on/off	individual fan into central duct + VSD	interlocked to light

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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
03	1-phase airconditioning EER 3.5 - 4.0	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no			
51, 52	1-phase airconditioning EER 3.5 - 4.0	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	1	no			
01, 11, 12, 21, 22, 31, 32, 41, 42	1-phase airconditioning EER 3.5 - 4.0	2 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	yes			
All other dwellings	1-phase airconditioning EER 3.5 - 4.0	3 (dedicated)	1 (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	yes (dedicated)	0	no			

	Individual po	ool	Individual s	ра	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	no

(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.	•	~	~

		Thermal loads
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)
01	32.7	26.6
02	49.1	29.6
03	41.8	28.0
11	14.8	25.6
12	8.2	26.0
13	34.6	31.4
14	21.3	28.1
21	15.3	25.3

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	Thermal loads						
Dwelling no.	Area adjusted heating load (in mJ/m²/yr)	Area adjusted cooling load (in mJ/m²/yr)					
22	8.6	25.7					
23	35.6	31.0					
24	22.1	27.6					
31	15.7	25.0					
32	8.8	25.5					
33	36.0	30.8					
34	22.4	27.4					
41	18.0	22.9					
42	10.5	22.8					
43	38.9	27.3					
44	24.9	25.7					
51	50.5	34.5					
All other dwellings	37.2	37.9					

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(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.		<u> </u>	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.		<u> </u>	
(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

Common area	Showerheads rating	Toilets rating	Taps rating	Clothes washers rating
All common areas	no common facility	no common facility	3 star	no common laundry facility

Central systems	Size	Configuration	Connection (to allow for)
Fire sprinkler system (No. 1)	-	-	-
Fire sprinkler system (No. 2)	-	-	-

(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.		~	~

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(ii) Energy	Show on DA plans	Show on CC/CDC plans & specs	Certifier check
(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	•	~

	Common area	ventilation system		Common area lighting	
Common area	Ventilation system type	Ventilation efficiency measure	Primary type of artificial lighting	Lighting efficiency measure	Lighting control system/BMS
Basement 1 - Car park	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	motion sensors	No
Basement 2 - Car park area	ventilation (supply + exhaust)	carbon monoxide monitor + VSD fan	light-emitting diode	motion sensors	No
Lift car (No.1)	-	-	light-emitting diode	none	No
Basement 1 - Waste Room	ventilation exhaust only	-	light-emitting diode	motion sensors	No
Grd - Waste Room	ventilation exhaust only	-	light-emitting diode	motion sensors	No
Grd - Bulky Waste	ventilation exhaust only	-	light-emitting diode	motion sensors	No
Grd - Pump Room	ventilation exhaust only	interlocked to light	light-emitting diode	manual on / manual off	No
Basement 2 - Storage	no mechanical ventilation	-	light-emitting diode	manual on / timer off	No
All Stairwells	no mechanical ventilation	-	light-emitting diode	motion sensors	No
All Circulation areas	no mechanical ventilation	-	light-emitting diode	daylight sensor and motion sensor	No

Central energy systems	Туре	Specification
Central hot water system (No. 1)	gas instantaneous	Piping insulation (ringmain & supply risers): (a) Piping external to building: R1.0 (~38 mm); (b) Piping internal to building: R0.6 (~25 mm)

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Central energy systems	Туре	Specification
Lift (No. 1)	geared traction with V V A C motor	Number of levels (including basement): 8

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4. 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.		~	
(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	3 star	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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Central energy systems	Туре	Specification
Other	Active power factor correction installed?: yes	-

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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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Version: 1. Version Date: 05/09/2018

PROPOSED RESIDENTIAL FLAT BUILDING

36-38 Rodley Avenue, Penrith, NSW, 2750





Accreditation Period	2018-2019
Assessor Name	David Howard
Assessor Number	20039
Assessor Signature	ON S
are part of the	trailian Building inability Association 2018-2019 David Howard 20039 ABSA quality audit system as Nathers Appeal to follow an Asset of Practice

MOTE	
	: In addition to BASIX commitments; building compliance
	ired to comply with the 'New South Wales Additions' in the
	t edition of the NCC - Vol. 1, at the time of building.
This in	cludes New South Wales Part J(A). Specifically:
-	Building thermal construction is in accordance with part J1.2
-	loss of ceiling insulation is compensated for by increased
	roof insulation in accordance with Part J1.3(c)
-	where metal frames are used that thermal breaks are
	Installed in accordance with Part J1.3(d) and J1.5(c)
	Any roof lights, windows, doors and exhaust fans are sealed
	In accordance Part J3
-	Any new air-conditioning system is installed in accordance
	with Parts J5.2(a), J5.2(b), J5.2(c), J5.2(d), J5.2(f) & J5.2(g)
	Any new mechanical ventilation system is installed in
	accordance with Part J5.3
-	Any new miscellaneous exhaust system is installed in
	accordance with Part J5.4
-	Any new heated water system is installed in accordance Part J7.2
-	Energy monitoring equipment is installed in accordance Part J8.3
MIND	OWS (total product specification – glass + frame)
	e 6.70 (or less than) & SHGC 0.70 (+/-5%) (Default: Plain Glass in AL. frame
EXTE	RNAL WALL (Medium colour)
EXTE Brick 1	RNAL WALL (Medium colour) Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap
EXTE Brick 1	RNAL WALL (Medium colour) Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap NAL WALL
EXTE Brick 1 INTER Cavity	RNAL WALL (Medium colour) Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap ENAL WALL Panel/Concrete – No Insulation
EXTER Brick 1 INTER Cavity Partition	RNAL WALL (Medium colour) Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap INAL WALL Panel/Concrete – No Insulation on walls – No thermal insulation required
EXTE Brick I INTER Cavity Partition	RNAL WALL (Medium colour) Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap ENAL WALL Panel/Concrete – No Insulation on walls – No thermal insulation required RNAL FLOOR
EXTE Brick I INTER Cavity Partition EXTE Concr	RNAL WALL (Medium colour) Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap INAL WALL Panel/Concrete – No Insulation on walls – No thermal insulation required RNAL FLOOR ete Slab on Ground – No insulation
EXTE Brick I INTER Cavity Partition EXTE Concr	RNAL WALL (Medium colour) Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap ENAL WALL Panel/Concrete – No Insulation on walls – No thermal insulation required RNAL FLOOR
EXTER Brick 1 INTER Cavity Partition EXTER Concressions	RNAL WALL (Medium colour) Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap INAL WALL Panel/Concrete – No Insulation on walls – No thermal insulation required RNAL FLOOR ete Slab on Ground – No insulation
EXTE Brick I INTER Cavity Partiti EXTE Concr Suspe EXTE	RNAL WALL (Medium colour) Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap INAL WALL Panel/Concrete – No Insulation panel/Concrete – No Insulation required RNAL FLOOR ete Slab on Ground – No insulation nded Concrete (above Basement areas) – R1.3 Bulk insulation RNAL CEILING/ROOF (Medium colour)
EXTER Brick 1 INTER Cavity Partition EXTER Concressions Suspenting	RNAL WALL (Medium colour) Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap INAL WALL Panel/Concrete – No Insulation on walls – No thermal insulation required RNAL FLOOR ete Slab on Ground – No insulation nded Concrete (above Basement areas) – R1.3 Bulk insulation

THERMAL PERFORMANCE SPECIFICATIONS: (20331 – 36 Rodley Ave)
The following specifications take precedence over other
plan notations for the construction of this building.



. ,		1115m²
Gross Floor Area (GFA)		2095m²
Zoning	R4 High Density	y Residential
	Allowable	Proposed
Floor Space Ratio (FSR)*	n/a	1.88:1
Total Storeys	6	6
•		

Communal Open Space	25%	63.1m ²	6%
Deep Soil Zones	7%	390m²	35%

*LEP REQUIREMENT **^SEPP 65 REQUIREMENT**

UNITS TYPES					
Туре	Count				
2B	9				
2B Adaptable	3				
3B	9				
TOTAL APARTMENTS: 21	-				

GROSS FLOOR AREA						
Level Area						
GROUND LEVEL	277.0 m ²					
LEVEL 1	403.5 m ²					
LEVEL 2	403.5 m ²					
LEVEL 3	403.5 m ²					
LEVEL 4	395.5 m ²					
LEVEL 5	212.1 m ²					
Grand total: 6	2095.3 m ²					

COMMON OPEN SPACE						
Area % of Site						
63.1 m²	5.66					

DEEP SOIL AREA					
Area % the Site					
390.1 m ²	34.99				

CAR SPACES REQUIRED					
2 Bed units: 9	9				
2 Bed units Adaptable: 3	3				
3 Bed units: 9	18				
Visitors (1/5)	4				
Service vehicles (1/40)	1				
Washing bay (1/50)	1				
Grand total	36				

Number

|--|

ISSUE DATE P1 20-07-2018	AMENDMENT SUBMISSION		PROJECT PROPOSED RESIDENTIAL FLAT BUILDING	MORSON NOMINATED ARCHITECT - P F MORSC REGISTRATION NUMBER 8100 ACN 159 480 056, ABN 41 159 480 056	SHEET SIZE: A1 SHEET NAME VIEWS AND SCHE	EDULES DRAWING NUMBER	IBER DA01
		SCALE BAR NORTH POINT	ADDRESS 36-38 Rodley Avenue, Penrith, NSW, 2750 CLIENT Inglow Inves	Www.morsongroup.com (02) 9380 4946 PO Box 170, Potts Point, NSW 1335	SCALE DATE 1:1	ISSUE NO.	P1



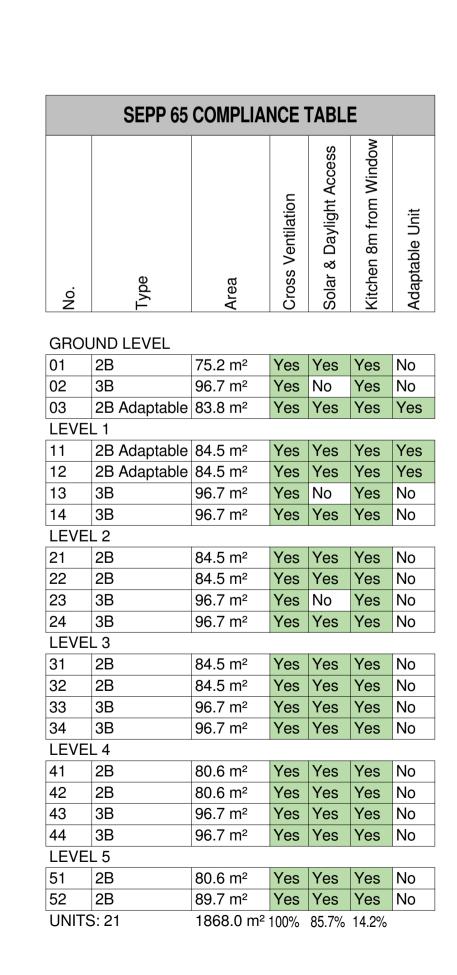
	Design Criteria	Compliance	Proposal		Design Criteria	Compliance	Proposal
BD-1	1. Communal open space has a minimum area equal to 25% of the site 2. Developments achieve a minimum of 50% direct sunlight to the principal usable part of the communal open space for a minimum of 2 hours between 9 am and 3 pm on 21 June (mid winter)	Yes	The Common Open Space is 63.1 m² comprising 6% of the site. The communal open space is well designed and integrated into an overall landscaped setting that is both interactive for the residents and provides amenity. The space exceeds the minimum 3m width and is co-located with the deep soil zones to ensure tree planting. All balconies and private open space areas exceed the minimum areas outlined in the ADG. It faces North and has adequate sunlight access. 2. Morning sun requirement is achieved in the common open space.	4D-1	Apartments are required to have the following minimum internal areas: Apartment type	Yes	Minimal internal areas are in accordance with the design criteria
BE-1	Deep soil zones are to meet the following minimum requirements: Site Area Min. Dimension Deep Soil Zone (% of site Area)	Yes	Deep soil zones are provided well exceeded for the development. The site provides for a total area of 390m² of deep soil zone or 35% of total site.	4D-2	Every habitable room must have a window in an external wall with a total minimum glass area of not less than 10% of the floor area of the room. Daylight and air may not be borrowed from other rooms. Habitable room depths are limited to a maximum of 2.5 x the ceiling	Yes	
	>1,500m² 6m			40-2	height 2. In open plan layouts (where the living, dining and kitchen are combined) the maximum habitable room depth is 8m from a window	Yes	Habitable room depths are in accordance with the design criteria
BF-1	Separation between windows and balconies is provided to ensure visual privacy is achieved. Min required separation distances from buildings to the side and rear boundaries are as follows: Building Height	-	Setbacks: Northen Boundary: [NOTE: Street Frontage of Rodley Ave, residential housing across the road] Setback from 4.7m to 5.5m [Ground-Level 4] Setback from 8.0m to 9.1m [Level 5] Southern Boundary: Setback from 3.0m to 3.8m [Ground-Level 4] Setback 6.74m to 8.14 [Levels 5] Western Boundary: Setback from 5.0m to 7.3m [Ground-Level 4] Setback from 8.29m to 9.99m [Levels 5] Eastern Boundary: Setback from 5.0m to 7.3m [Ground-Level 4] Setback from 8.29m to 9.99m [Levels 5]	4D-3	1. Master bedrooms have a minimum area of 10m² and other bedrooms to have 9m² (excluding wardrobe space) 2. Bedrooms have a minimum dimension of 3m (excl. wardrobe space) 3. Living rooms or combined living/dining rooms have a minimum width of: • 3.6m for studio and 1 bed apartments • 4m for 2 and 3 bedroom apartments	Yes Yes Yes	All bedrooms are 9m² & Master bedrooms 10m². All bedrooms have minimum dimension of 3m. All living rooms have minimum dimension of 4m.
	privacy departation distances between neighboding properties.			4E-1	All apartments are required to have primary balconies as follows: Dwelling type Minimum area Minimum depth	Yes	Balconies provided to apartments are in accordance with this design criteria.
A-1	 Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours direct sunlight between 9 am and 3 pm at mid winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas. A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at mid winter 	Yes	 85.7% [18-21] of apartments receive 2 hours. None of apartments receive no direct sunlight between 9am & 3pm at mid winter 		Studio apartments 4m² - 1 bedroom apartments 8m² 2m 2 bedroom apartments 10m² 2m 3+ bedroom apartments 12m² 2.4m The minimum balcony depth to be counted as contributing to the balcony area is 1m. 2. For apartments at ground level or on a podium or similar structure, a private open space is provided instead of a balcony. It must have a	Yes	2. Terraces provided to apartments are in accordance with this design criteria.
4B-3	At least 60% of apartments are naturally cross ventilated in the first nine storeys of the building. Apartments at ten storeys or greater are deemed to be cross ventilated only if any enclosure of the balconies at these levels allows adequate natural ventilation and cannot be fully enclosed 3. Overall depth of a cross-over or cross-through apartment does not exceed 18m, measured glass line to glass line	Yes	1. 95% [20-21] of apartments are cross-ventilated	4F-1	1. The maximum number of apartments off a circulation core on a single level is eight 2. For buildings of 10 storeys and over, the maximum number of apartments sharing a single lift is 40	Yes n/a	All levels provide 3 or less apartments off a circulation core.
4C-1	Measured from finished floor level to finished ceiling level, minimum ceiling heights are: Minimum ceiling height for apartment and mixed use buildings Habitable rooms 2.7m Non-habitable 2.4m For 2 storey 2.7m for main living area apartments 2.4m for second floor, where its area does not exceed 50% of the apt area.	Yes	Minimum ceiling heights are in accordance with the design criteria	4G-1	1. In addition to storage in kitchens, bathrooms and bedrooms, the following storage is provided: Apartment type	Yes	All storage requirements are in accordance with this design criteria

Design Statement (SEPP65-2015 SCHED	OULE 1 - Des	sign Quality Principles)						
rinciple 1: ontext and Neighbourhood Character		Principle 2: Built Form and Scale		Principle 3: Density		Principle 4: Sustainability		
Low-density Residential: The remaining neighbouring properties to the North, along Rodley Ave to the East, and South side of Rodley Ave, predominantly consist of low density single and two storey residential dwellings (houses and townhouses). The majority of these lots contain single low-density housing located on long rectangular lots with the short boundary addressing the street. Scattered throughout the low-density housing are some medium-density villa and townhouse developments which are generally consist of central 'gun-barrel' driveways with terraces on either side. Short term to future growth pattern: We note the urban fabric is changing from a low-density to an urban high-density with recent legislative amendments in the Penrith LGA. To clarify, the change in scale is from a one or two storey single dwelling per lot to a 5-6 storey residential development; 10 times the density of the existing residential neighbourhood. Context, Neighbourhood Character and UDRP recommendations have been taken into consideration during the design. It is believed that the design responds and contributes to its context, setting a good example for the future proposed developments in the area.		The design responds to its associated context (identified in controls is to maximize the extents of the allowable building single tower addressing Rodley Ave. The facade is well artic the regular shaped site, mimicing the layout pattern of dwell space is in between the two towers. The result is an outcom natural light to the common area and large number of the ur minimum requirements as well as the direct sunlight between UDRP panel recommended design solutions have been take design. Facade articulation and stepping is successfully ach avoiding a bulky appearance. The design achieves a positive and neighbouring character. R4 zoning and SEPP65 setbacks and height controls have to order to accommodate the stepping of upper storeys and for proposed setbacks and height may vary in parts from the mat is assumed that the proposed setbacks and heights would the highest height intrusion is the top of lift shaft at nominal control and has an RL 46.840. The lift shafts have no impact	envelope. The proposal is to construct a culated and the footprint sits well withing lings along Rodley Ave. Common open which allows cross ventilation and nits. The cross ventilation meets the en 9am & 3pm at mid winter. en on board and integrated into the nieved through both form and colours we outcome for built form, scale, context been generally adopted in the proposal. In the building to be well articulated, inimum SEPP65 requirements. If be found acceptable.	The subject site lies within such an are been submitted to Council in the close As there is no FSR control on the site, height limits and setbacks as per the P the site as well as potential future neig Design Guide (ADG) 2015, also have a Moreover, Communal Open Spaces ar minimum requirements of the ADG, fur The proposal consists of a nice mixture	and transport solutions, greater building adaptability and robustness, imperitive of Devilnits Parade and Vista Streets. Site, the density of the proposed development is controlled by the the Penrith DCP2014. In addition, separation between buildings on neighbouring R4 developments defined by SEPP 65 Apartment ave a bearing on allowable density on the site. Bicycle parking has been located on basement 1 to promote the use of a Penrith area in lieu of vehicle use. (See Principle 6 for details). The development allowable density on the site. Sixture of well sized 1, 2 and 3 bedroom apartments. Evelopment seeks full compliance in this SEPP 65 Principle.		evelopment aims to exceed the minimum standards of the ADG 2015 wherevelopment aims to exceed the minimum standards of the ADG 2015 wherevelopment areas throughout the facilitate future sustainable growth of Sydney's outer suburbs. The speen located on basement 1 to promote the use of active transport to the fieu of vehicle use. (See Principle 6 for details). The development also features in accordance with the requirements of the ADG 2015 design criteria. (See etails). That also features well designed apartments with cross ventilation and solar ust majority of the apartments, and well exceeds the minimum ADG 2015	
rinciple 5: andscape	Principle 6: Amenity		Principle 7: Safety		Principle 8: Housing Diversity & Social Interaction		Principle 9: Aesthetics	
Deep soil planting has been embellished along all boundaries allowing full neight trees to grow and provide privacy between the neighbouring properties and potential future adjacent developments. Deep soil pockets were maximized and replacement trees are proposed to accommodate landscaping complementing the design and street frontages. The carparking levels have been designed to minimize the footprint but accommodate all the necessary carparking and services. The common open area has been positioned at the North-Western corner of the development and has a complimentary landscape design. Planting has been designed to further enhance the outdoor garden feel and to achieve equired separation between the ground level units and neighbouring properties. Direct access from ground level and units overlooking the central common open area promotes interaction between residents and a better sense community within the development.	Element" to make The site is located and 0.4km to Pen to promote active This design consiliving areas of the and natural cross The apartment lay requirements. Mir as per the code re Sunshade has als each apartment, ecompliance. A common area h	on 2015 identifies walking & cycling as a "Shaping Penrith an Active City (2.7). I about 1.1km walking distance to the Penrith Train Station rith Westfields. On site Bicycle Parking has been provided transport in and around the Penrith CBD. Ideration is intended to improve the amenity of the internal apartments by maximizing the amount of daylight access ventilation, as per the ADG minimum requirements. I wouts are efficient and meet the minimum ADG imum number of accessible units have also been provided equirements. I wo been introduced to improve the internal environment of exceeding minimum standards with regards to BASIX as been provided at Ground Floor Level. Minimum solar d for mid-winter period.	Secure pedestrian entry into the site had in the facade to read as such. Intercom security from street. Side gates, used primarily for fire egres Common Open Areas. The gates are ket the property through these side gates. North facade uses screening elements footpath along Rodley Ave. Both aspect The Common Open Area is to be access walkways, combined with ground floor of surveillance for common areas.	access & CCTV at the entry provides ss, allow access out of the site from the eyed so that only occupants can enter Ground Floor apartment along at the allowing the overlooking of the ets provide passive street surveillance. ssible via the ground lobby entry. Side	Residential areas of Penrith have traditionally included a mix housing (3br+) with a scattering of villa developments closer CBD (2br+). With the recent rezoning to R4 High-Density Re proposed development aligns itself to the existing demograp providing increase density to respond to the demands of the suburban ring of Western Sydney. The development features a mix of 1br, 2br & 3br apartment responds to current market demands in the area. Located in apartments prices are considerably lower than inner city equ facilitates affordability by default. Social interaction between residents of the development is e design of the open area and surrounding landscaped common Private courtyards have a visual connection to residents who the common areas, promoting interaction and a sense of cor the development. Apartments on upper levels overlooking the further enhance the experience.	to the Penrith sidential, the hic while growing outer s which also Western Sydney, ivalents which nriched by the on walkways.	The character of the building reflects the context in which it is located identified in Principle 1). Rodley Ave frontage is set in a moderately quiet residential context. T composition of facade elements is sympathetic to the scale of the surrounding residential houses and lower scale buildings. The combination of facade articulation and landcsaping successfully emphasize the building entry. The facades of the building define a hierarchy for the site. Rodley Ave facade is primary and the facades looking to the side setbacks mainta secondary role. However, through materials & facade articulation & co both facades pursue rationality, clarity, proportion and rhythm which results in a simple elegance (values frequently lost).	

ISS P	UE DA1 1 20-07-	TE AMENDMENT -2018 SUBMISSION		PROPOSED RESIDENTIAL FLAT BUILDING	MORSON NOMINATED ARCHITECT - P F MORSON REGISTRATION NUMBER 8100 ACN 159 480 056, ABN 41 159 480 056	SHEET SIZE: A1	SHEET SEPP 65 COMPLIANCE SUMMARY & DESIGN STATEMENT	DRAWING NUMBER	DA02
			COME DAD NOTH DOWN	ADDRESS 36-38 Rodley Avenue, Penrith, NSW, 2750 CLIENT Inglow Investments	Www.mcrsongroup.com (02) 9380 4946 PO Box 170, Potts Point, NSW 1335	SCALE DATE		ISSUE NO.	P1

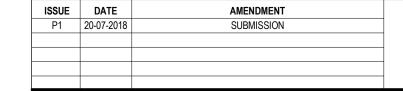


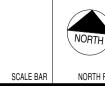


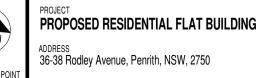


CLIENT Inglow Investments

CROSS VENTILATION	SOLAR & DAYLIGHT ACCESS	ADAPTABLE UNIT
CV - GROUND LEVEL	SA - GROUND LEVEL	AD - GROUND LEVEL
CV - LEVEL 1	SA - LEVEL 1	AD - LEVEL 1
CV - LEVEL 2	SA - LEVEL 2	
CV - LEVEL 3	SA - LEVEL 3	
CV - LEVEL 4	SA - LEVEL 4	
CV - LEVEL 5	SA - LEVEL 5	



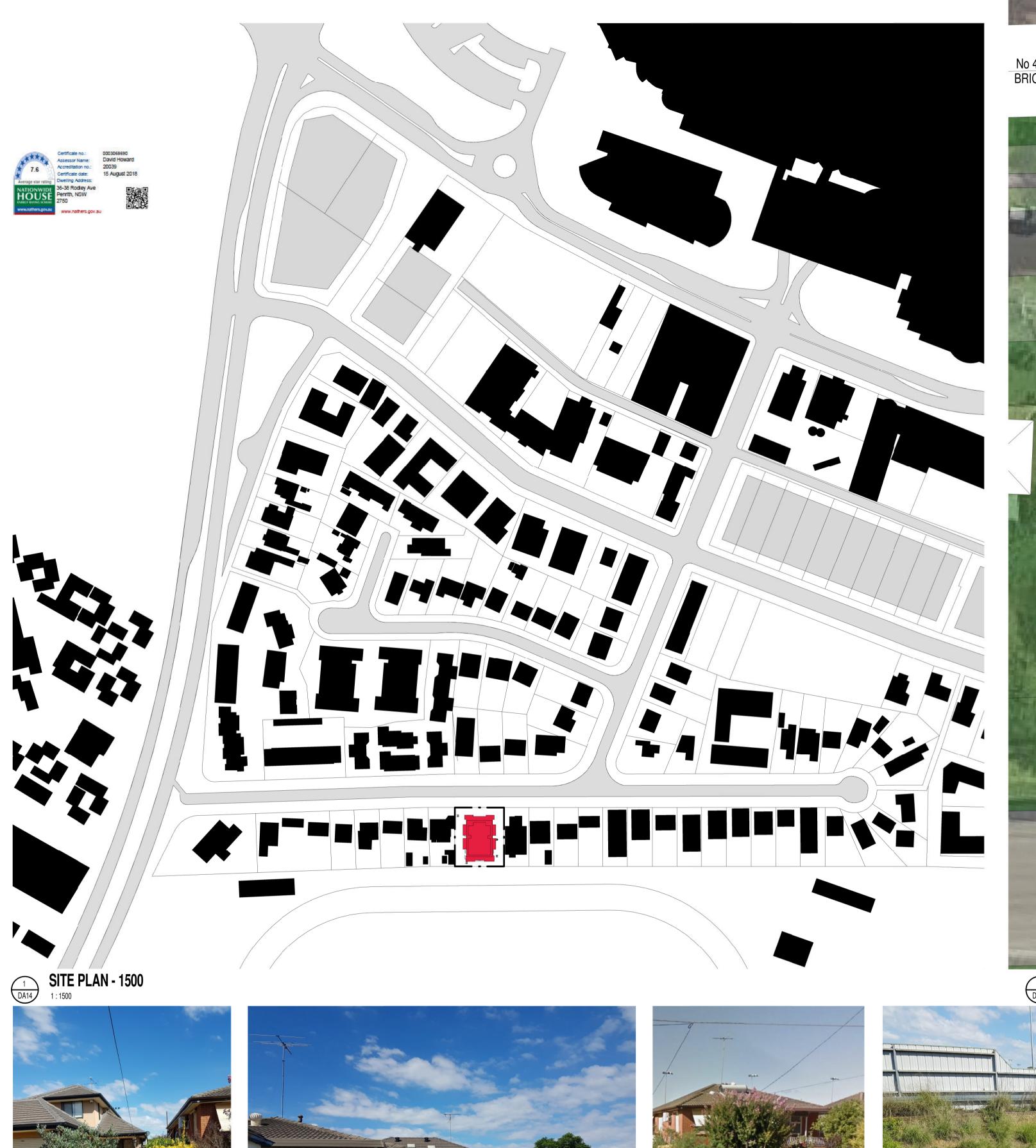






SEPP 65 COMPLIANCE SCHEDULE

DRAWING NUMBER DA03
ISSUE NO. P1



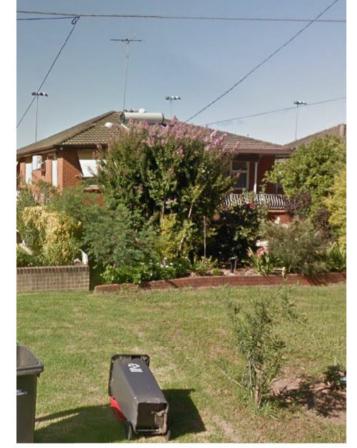
No 11 2 STOREY BRICK DWELLING No 33 SINGLE STOREY No 37 SINGLE DWELLING BRICK DWELLING No 35 2 STOREY BRICK DWELLING No 43 - 2 STOREY BRICK DWELLING No 43 - 2 STOREY BRICK DWELLING RODLEY AVE ASPECT TO PLEASANT, LEAFY STREET, DUE TO WIDE VERGE No 36-38 PROPOSED No 40 2 STOREY SINGLE STOREY BRICK No 32 SINGLE STOREY BRICK DWELLING RESIDENIAL FLAT BRICK BUILDING DWELLING DWELLING No 34 2 STOREY BRICK DUPLEX P.O.S. OF No 34 RODLEY CREEK / EASEMENT VIEWS & ASPECT TO REAR OF RACE TRACK, SPORTS PRECINCT \$ MOUNTAINS PENRITH PACEWAY SITE PLAN & ANALYSIS - 500

CLIENT Inglow Investments



AMENDMENT SUBMISSION









SHEET SIZE: A1

As indicated

SCALE DATE





No 36 & No 34 BOUNDARY

No 36 EASTERN BOUNDARY

No 36 FROM RODLEY ST

SCALE BAR

PROJECT
PROPOSED RESIDENTIAL FLAT BUILDING ADDRESS 36-38 Rodley Avenue, Penrith, NSW, 2750

CREEK

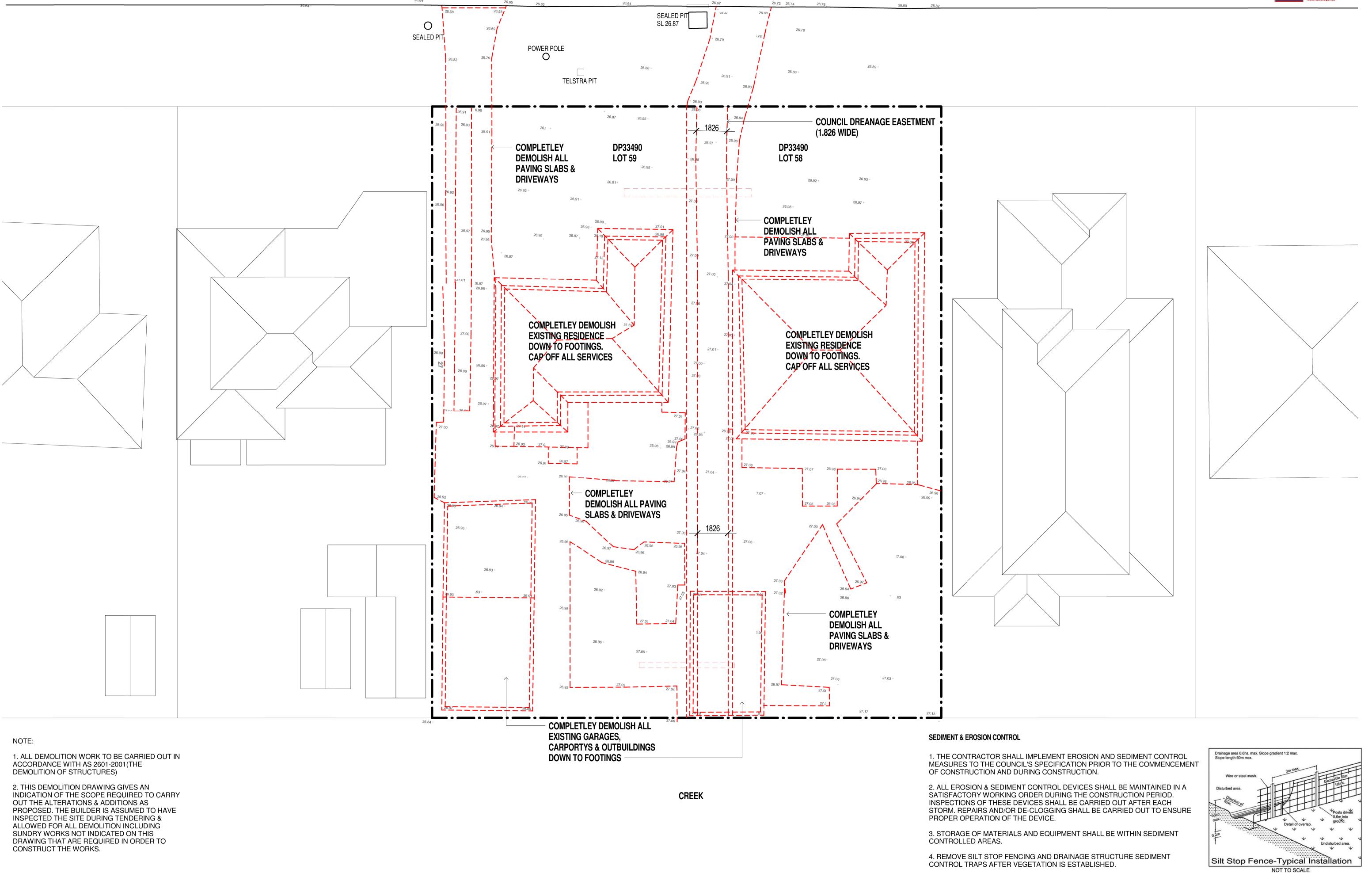
MORSON GROUP:

SHEET SITE PLAN

DA04 **P**1 ISSUE NO.

P1

ISSUE NO.



PROPOSED RESIDENTIAL FLAT BUILDING

ADDRESS 36-38 Rodley Avenue, Penrith, NSW, 2750

10m

SCALE BAR

MORSON GROUP:

Inglow Investments

SHEET SIZE: A1

SCALE DATE

SHEET DEMOLITION PLAN

P1 20-07-2018

AMENDMENT

SUBMISSION

NEW WALL/WORK

DEMOLITION

TREE TO BE REMOVED

NEW PLANTING

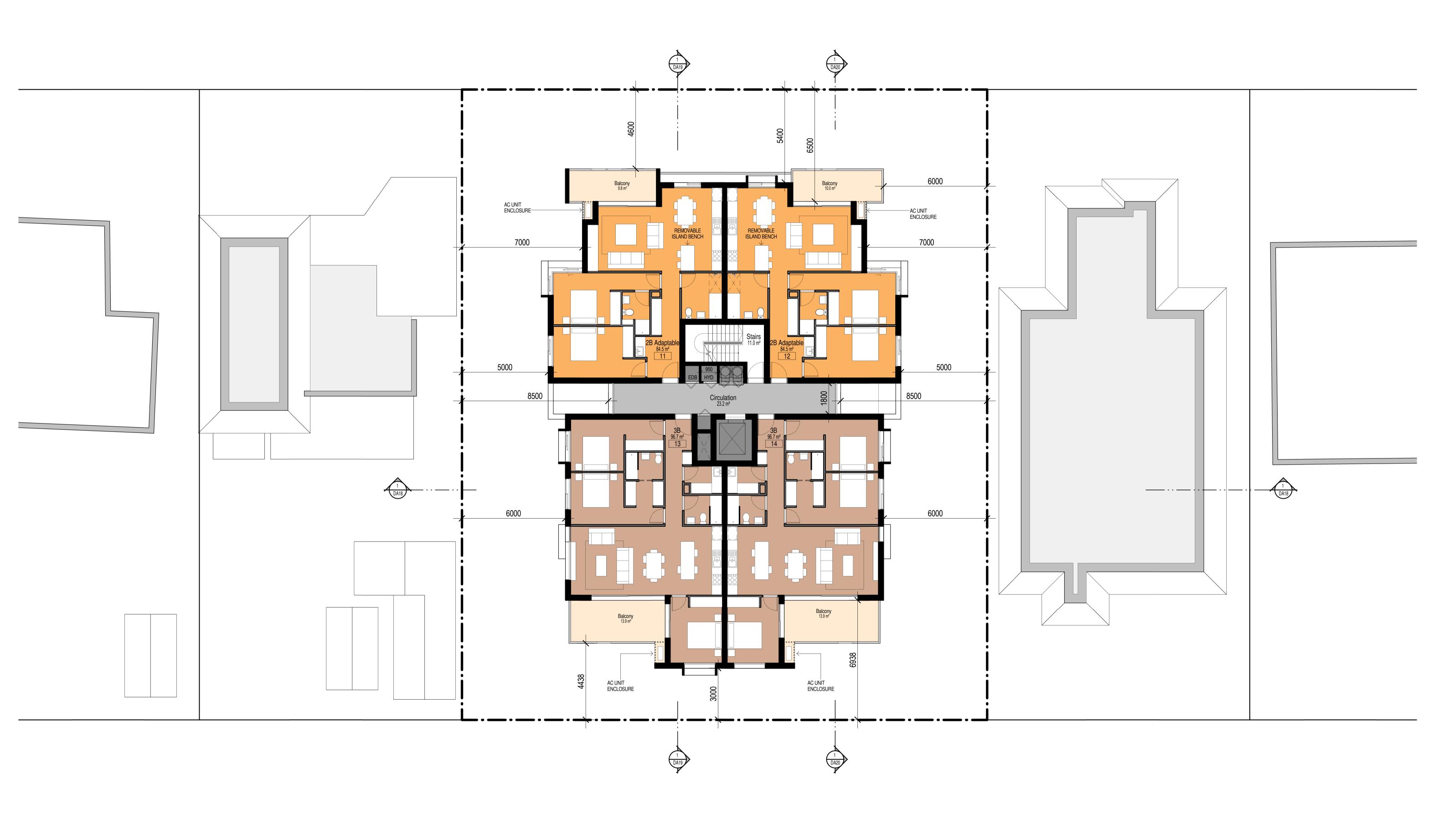
TREE TO BE RETAINED ROPOSED LEVEL

0 1 2 3 4 5

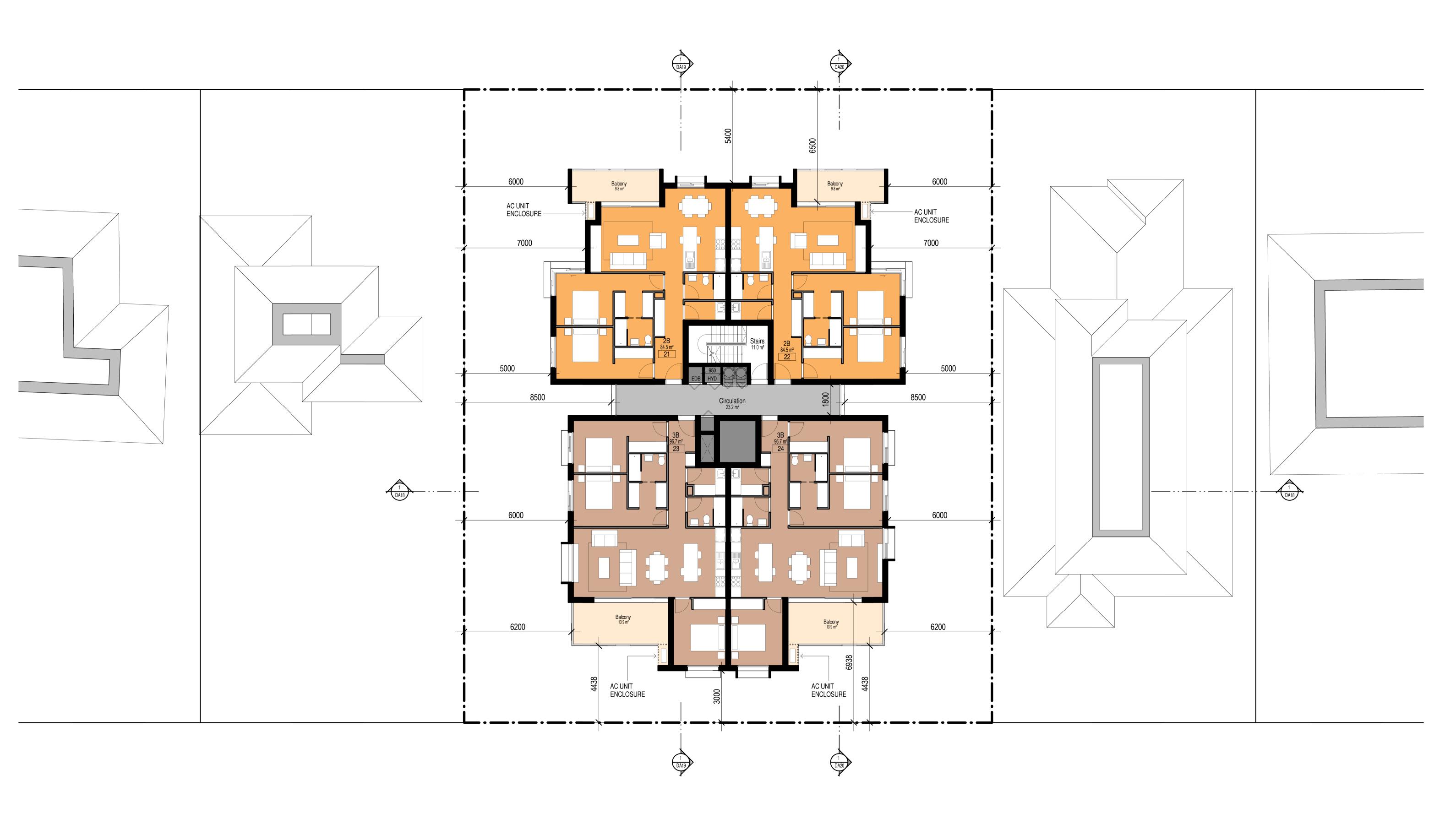


ISSUE DATE	AMENDMENT SUBMISSION	LEGEND NEW WALL/WORK EXISTING WALL TREE TO BE REMOVED NEW PLANTING	NORTH	PROPOSED RESIDENTIAL FLAT BUILDING	MORSON REGISTRATION NUMBER 8100 ACN 157 480 056, 48th 41 159 480 056 www.morsongroup.com [02] 9380 4946 PO Box 170, Potts Point, NSW 1335	SHEET RAME GROUND LEVEL	DA06-1
		DEMOLITION TREE TO BE RETAINED RL PROPOSED LEVEL	0 1 2 3 4 5 7 10m SCALE BAR NORTH POINT	ADDRESS 36-38 Rodley Avenue, Penrith, NSW, 2750 CLIENT Inglow Investments	GROUP (02) 9380 4946 PO Box 170, Potts Point, NSW 1335 1	CALE DATE :100	ISSUE NO. P1



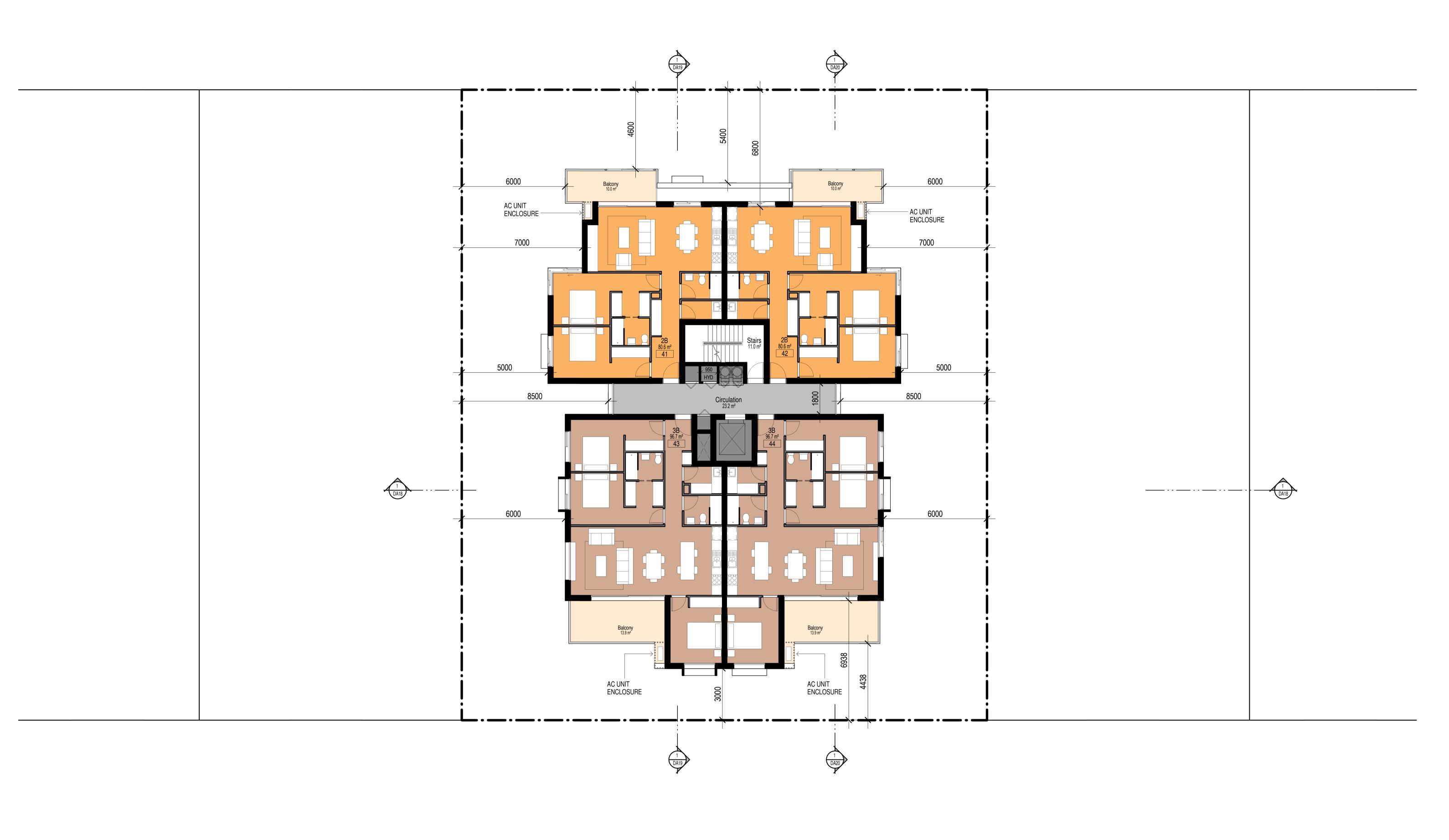


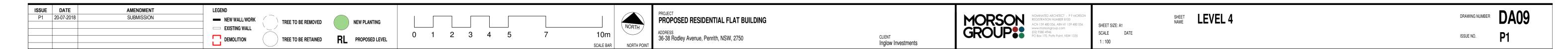
ISSUE P1	DATE 20-07-2018	AMENDMENT SUBMISSION	LEGEND NEW WALL/WORK TREE TO BE REMOVED	NEW PLANTING		NORTH	PROJECT PROPOSED RESIDENTIAL FLAT BUILDING	MORSON NOMINATED ARCHITECT - P F MORSO REGISTRATION NUMBER 8100 ACN 1.59 480 056, ABN 41 1.59 480 056	SHEET LEVEL 1 SHEET SIZE: A1	DA07
			DEMOLITION TREE TO BE RETAINED RL	PROPOSED LEVEL	0 1 2 3 4 5 7	10m SCALE BAR NORTH POINT	ADDRESS 36-38 Rodley Avenue, Penrith, NSW, 2750 CLIENT Inglow Investments	GROUP (02) 9380 4946 (PO Box 170, Potts Point, NSW 1335	SCALE DATE 1:100	ISSUE NO. P1



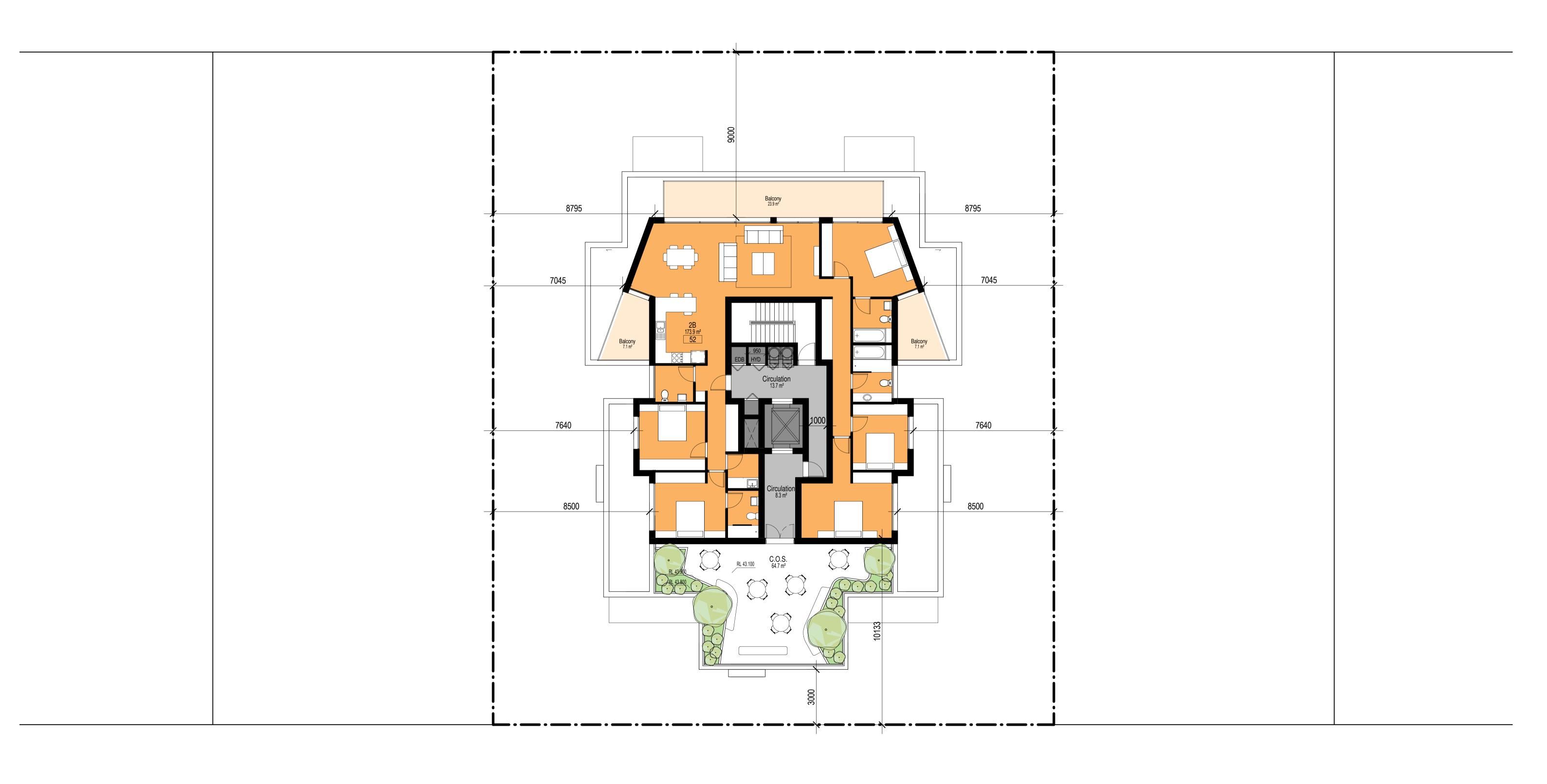
ISSUE DATE	AMENDMENT	LEGEND	PRO IFCT		D 4 0 0
P1 20-07-2018	SUBMISSION	— NEW WALL/WORK TREE TO BE REMOVED NEW PLANTING	PROPOSED RESIDENTIAL FLAT BUILDING	MORSON REGISTRATION NUMBER 8100 ACN 159 480 056, ABN 41 159 480 056 www.morsongroup.com (20) 9380 4946 PO Box 170, Potits Point, NSW 1335 NOMINATED ARCHITECT - P F MORSON REGISTRATION NUMBER 8100 SHEET SIZE: A1 SCALE DATE SHEET NAME LEVEL 2-3 SHEET NAME SHEET NAME LEVEL 2-3	DA08
		EXISTING WALL NORTH	ADDDC00	ACN 1.59 480 056, ABN 411 1.59 480 056 WWW.morsongroup.com (200 1	
		DEMOLITION TREE TO BE RETAINED RL PROPOSED LEVEL 0 1 2 3 4 5 7 10m	36-38 Rodley Avenue, Penrith, NSW, 2750	OROUP 6 102/9300 4940 PO Box 170, Potts Point, NSW 1335 SCALE DATE	ISSUE NO. P1
		SCALE BAR NORTH POINT	Inglow Investments	1.100	





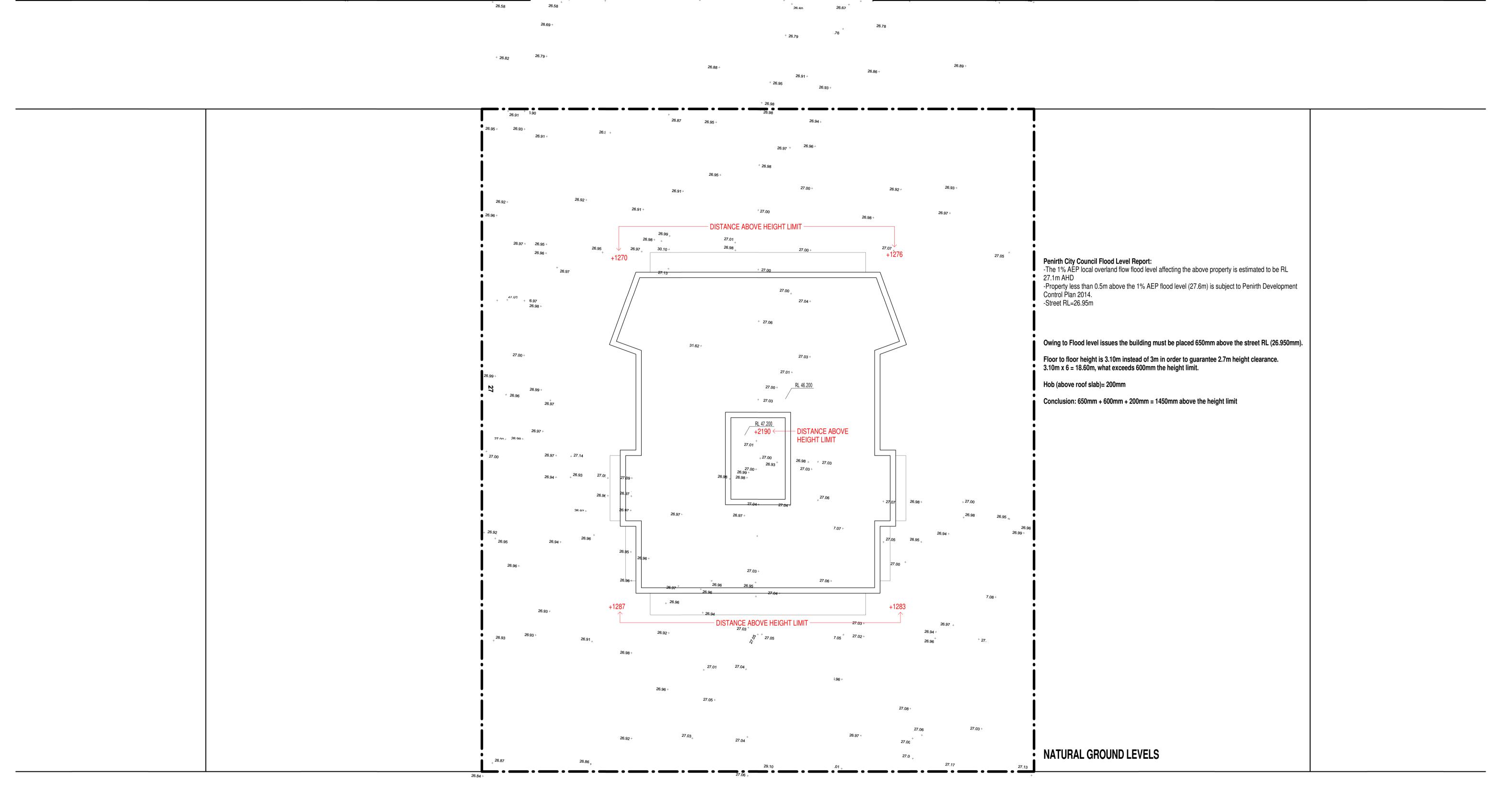






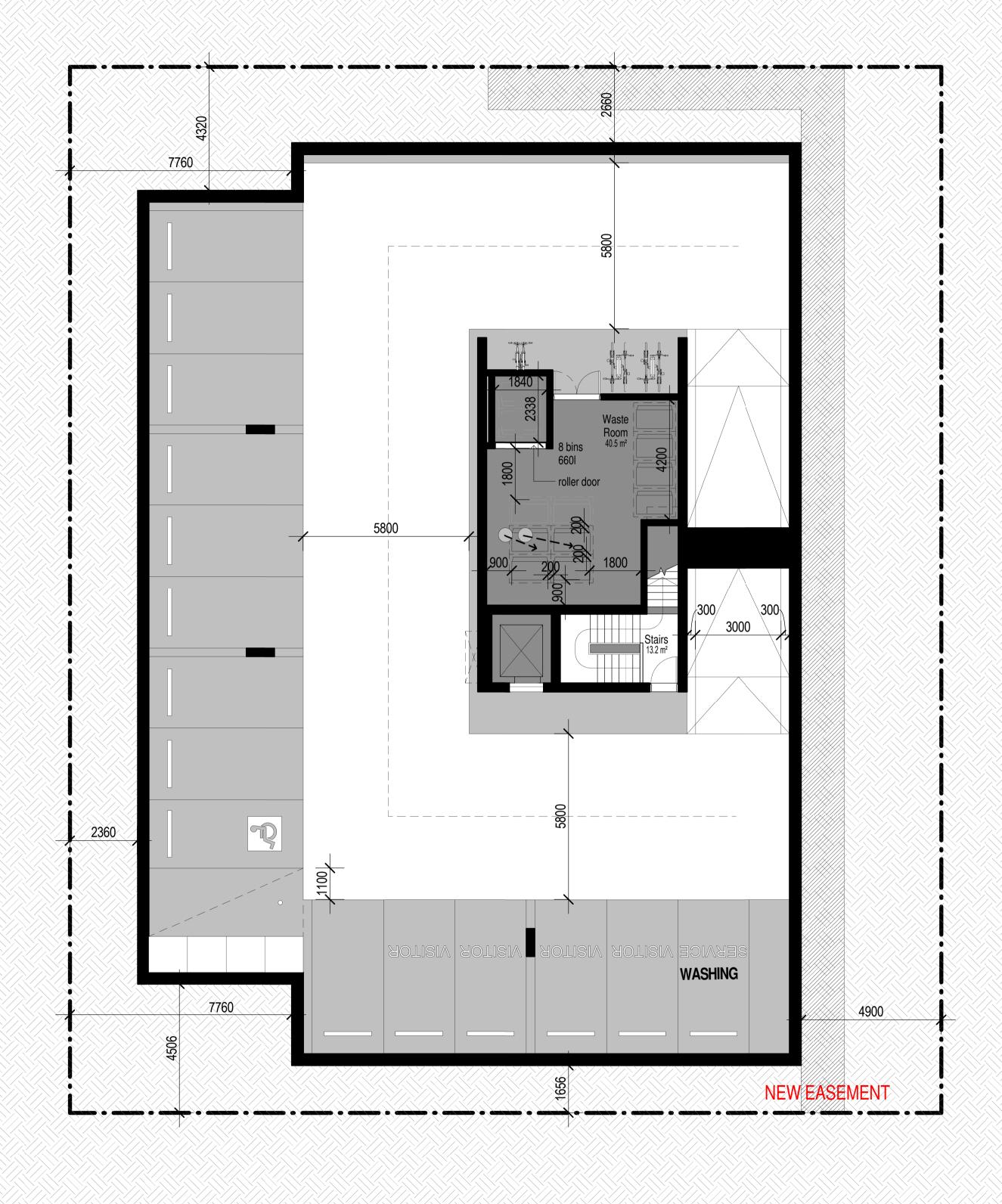
ISSUE DATE	AMENDMENT	PROIE	NECT			DA40
P5 29-05-2018	FEASIBILITY		ROPOSED RESIDENTIAL FLAT BUILDING	NOMINATED ARCHITECT - P F MORSON REGISTRATION NUMBER 8100	SHEET NAME LEVEL 5	DA10
P6 13-06-2018	FEASIBILITY	NORTH NORTH	IOF COLD REGIDER TIAL I EAT DOILDING	ACN 159 480 056, ABN 41 159 480 056	SHEET SIZE: A1	DAIV
P7 10-07-2018	FEASIBILITY	0 1 2 3 4 5 7 10m ADDRE	RESS	MORSON REGISTRATION NUMBER 8100 ACN 159 480 056, ABN 41 159 480 056 WWW.morsongroup.com (02) 9380 4946 PO Box 170, Potts Point, NSW 1335	SCALE DATE	ISSUE NO.
P8 11-07-2018	FEASIBILITY	36-38	-38 Rodley Avenue, Penrith, NSW, 2750	PO Box 170, Potts Point, NSW 1335	1:100	ISSUE NO. P9
P9 20-07-2018	SECTINO 96	SCALE BAR NORTH POINT	inglow investments		1.100	





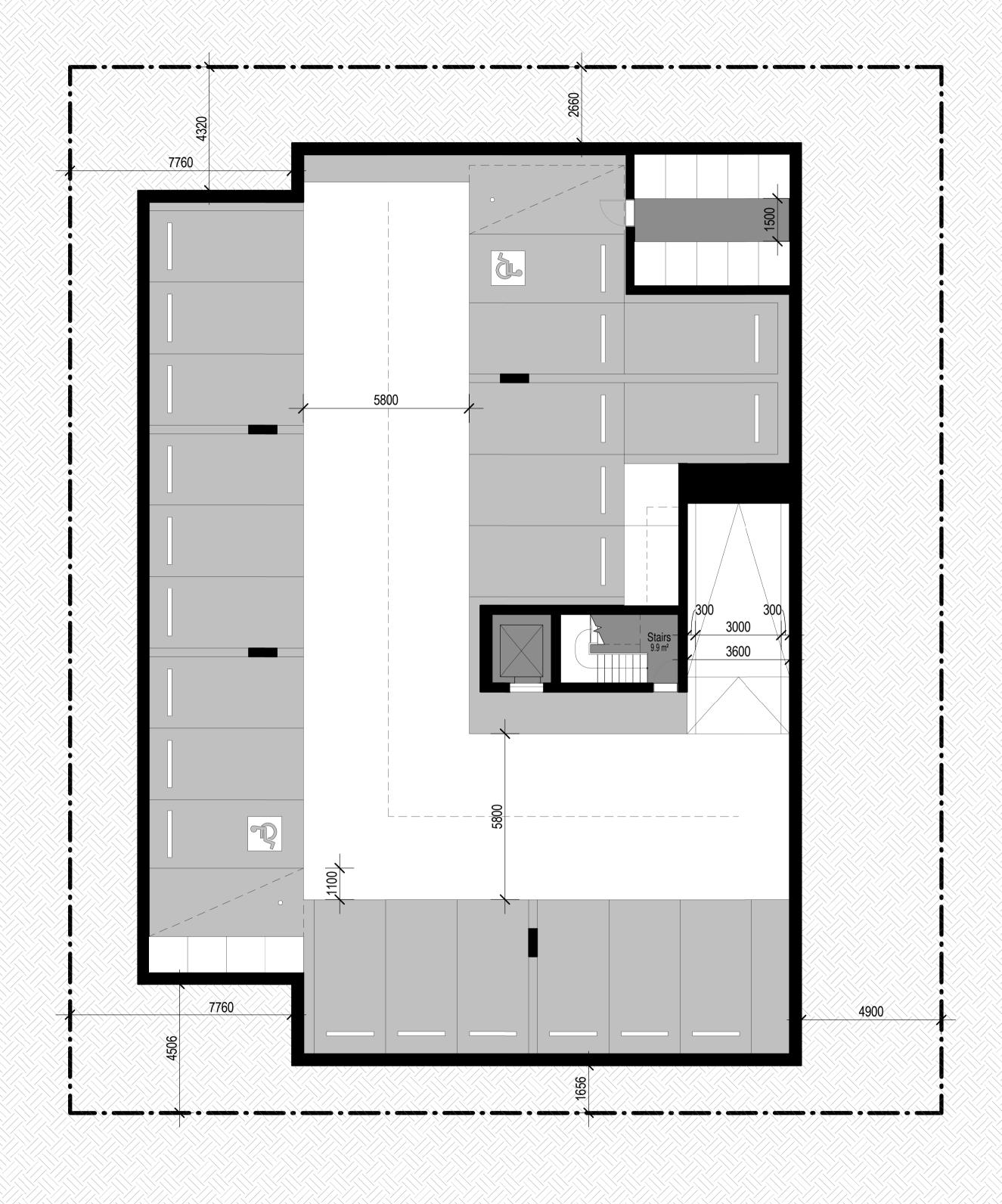
ISSUE DATE	AMENDMENT SUBMISSION	NORTH	PROPOSED RESIDENTIAL FLAT BUILDING	MORSON REGISTRATION NUMBER 8100 ACN 159 480 056, ABN 41 159 480 056 www.morsongroup.com (02) 9380 4946 PO Box 170, Potts Point, NSW 1335	SHEET NAME ROOF	DRAWING NUMBER DA11
		0 1 2 3 4 5 7 10m SCALE BAR NORTH POINT	ADDRESS 36-38 Rodley Avenue, Penrith, NSW, 2750 CLIENT Inglow Investments	GROUP (02) 9380 4946 PO Box 170, Potts Point, NSW 1335	SCALE DATE 1:100	ISSUE NO. P1





ISSUE DATE P1 20-07-2018	AMENDMENT SUBMISSION	NORTH	PROJECT PROPOSED RESIDENTIAL FLAT BUILDING	MORSON REGISTRATION NUMBER 8100 ACN 159 480 056, A8N 41 159 480 056 www.morsongroup.com (22) 9380 4946 PO Box 170, Potts Point, NSW 1335	SHEET NAME BASEMENT 1	DA12-1
		0 1 2 3 4 5 7 10m	ADDRESS 36-38 Rodley Avenue, Penrith, NSW, 2750 CLIENT Inglow Investments	GROUP (22) 9380 4946 PO Box 170, Potts Point, NSW 1335	SCALE DATE 1:100	ISSUE NO. P1





P1 20-07-2018 SUBMISSION MORSON	NOMINATED ARCHITECT - P F MORSON REGISTRATION NUMBER 8100 SHEET NAME BASEMENT 2	DA13
O 1 2 3 4 5 7 10m SCALE PAR SCALE PAR NORTH POINT ADDRESS 36-38 Rodley Avenue, Penrith, NSW, 2750 CLIENT Inglow Investments	(02) 9380 4946 SCALE DATE ISSUE NO. ISSUE NO	71





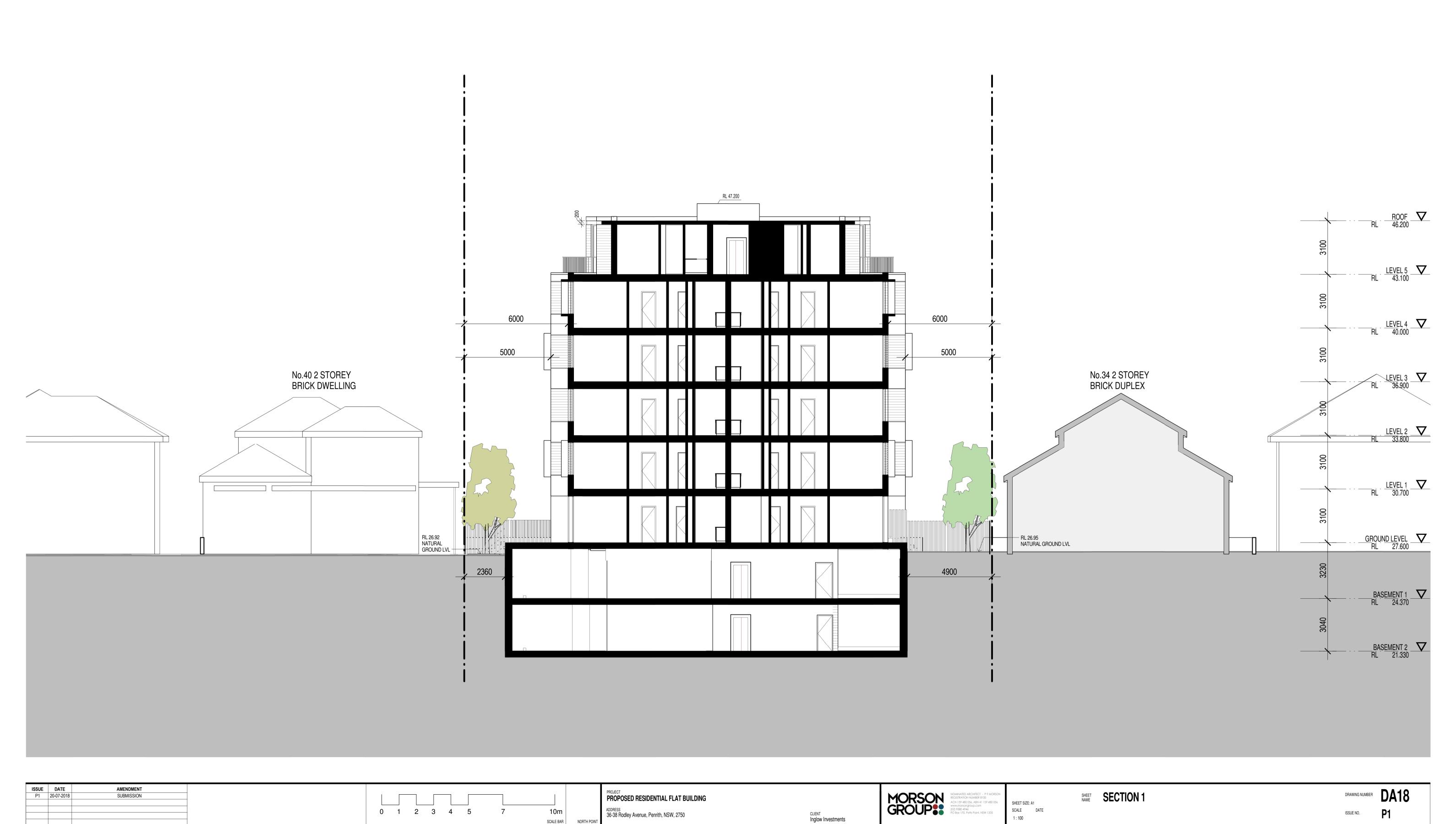




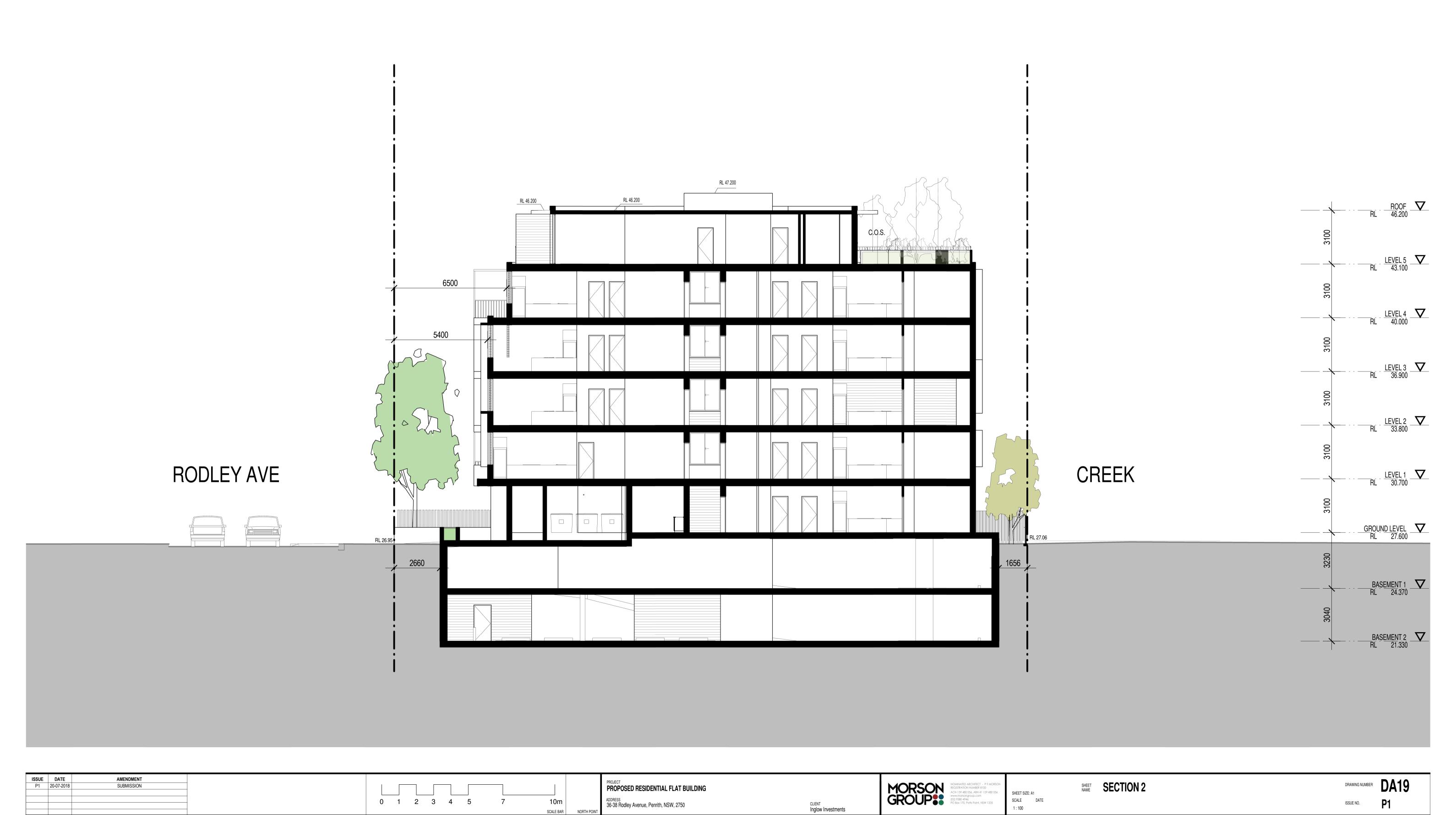




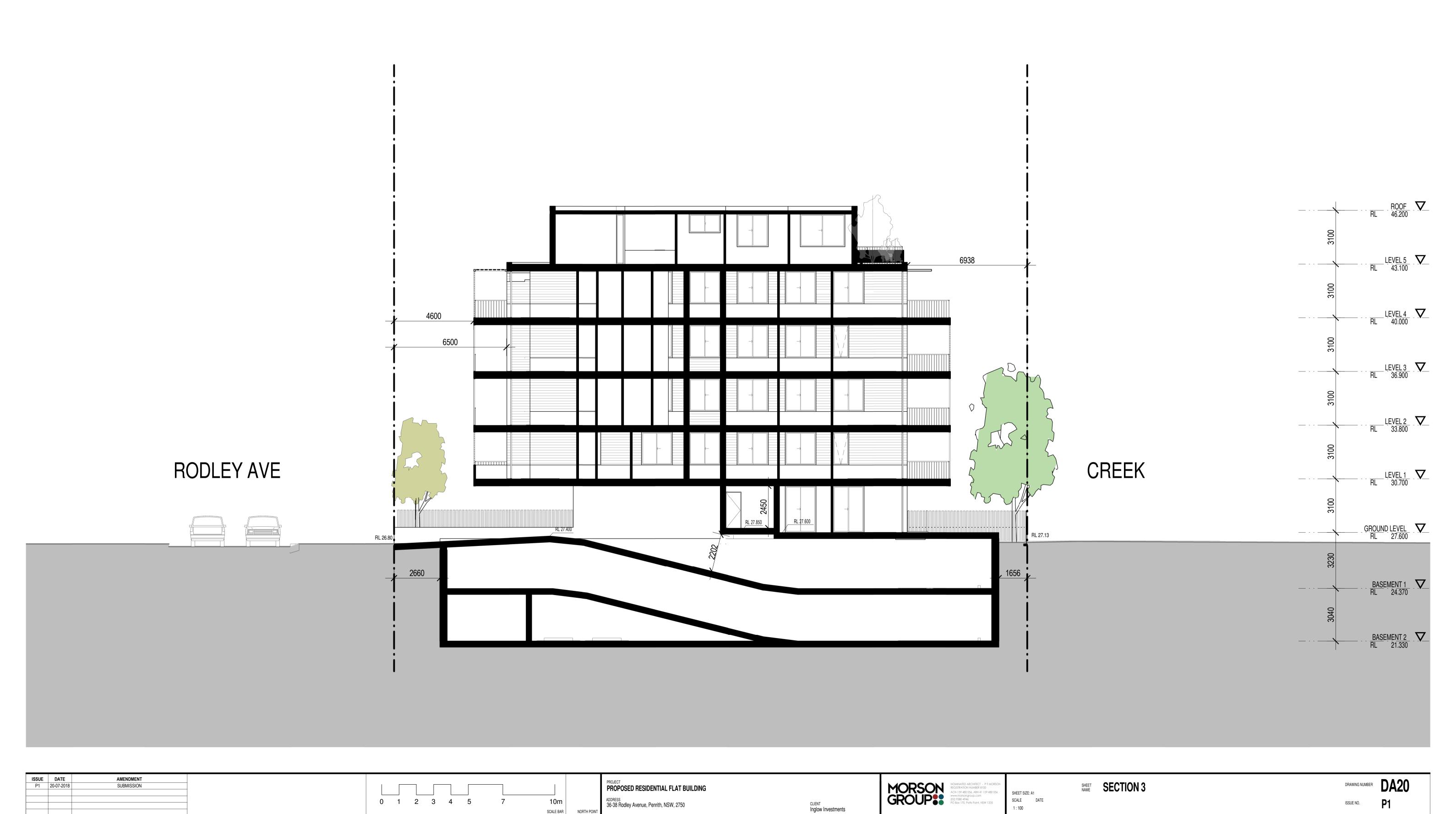




















ISSUE DATE	AMENDMENT SUBMISSION		PROJECT PROPOSED RESIDENTIAL FLAT BUILDING	NOMINATED ARCHITECT - P F MORSON REGISTRATION NUMBER 8100 ACN 159 480 056, ABN 41 159 480 056 www.morsongroup.com (02) 9380 4946 PO Box 170, Potts Point, NSW 1335	SHEET NAME VIEWS	DRAWING NUMBER DA22
		SCALE DAD NODTH DOINT	ADDRESS 36-38 Rodley Avenue, Penrith, NSW, 2750 CLIENT Inglow Investments	GROUP (02) 9380 4946 PO Box 170, Potts Point, NSW 1335	SCALE DATE	ISSUE NO. P1

THERMAL PERFORMANCE SPECIFICATIONS:

(20331 – 36 Rodley Ave)

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. 1, at the time of building. This includes New South Wales Part J(A). Specifically:

- Building thermal construction is in accordance with part J1.2
- loss of ceiling insulation is compensated for by increased roof insulation in accordance with Part J1.3(c)
- where metal frames are used that thermal breaks are installed in accordance with Part J1.3(d) and J1.5(c)
- Any roof lights, windows, doors and exhaust fans are sealed in accordance Part J3
- Any new air-conditioning system is installed in accordance with Parts J5.2(a), J5.2(b), J5.2(c), J5.2(d), J5.2(f) & J5.2(g)
- Any new mechanical ventilation system is installed in accordance with Part J5.3
- Any new miscellaneous exhaust system is installed in accordance with Part J5.4
- Any new heated water system is installed in accordance Part J7.2
- Energy monitoring equipment is installed in accordance Part J8.3

WINDOWS (total product specification – glass + frame)

U-value 6.70 (or less than) & SHGC 0.70 (+/-5%) (Default: Plain Glass in AL. frame)

EXTERNAL WALL (Medium colour)

Brick Veneer – R2.5 – 90mm thick Bulk insulation with reflective airgap

INTERNAL WALL

Cavity Panel/Concrete – No Insulation

Partition walls – No thermal insulation required

EXTERNAL FLOOR

Concrete Slab on Ground – No insulation

Suspended Concrete (above Basement areas) – R1.3 Bulk insulation

EXTERNAL CEILING/ROOF (Medium colour)

Concrete / Plasterboard – R1.3 bulk insulation (where roofspace or balcony above)

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

Nationwide House Energy Rating Scheme* — Class 2 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 v4.3.0.2c (3.13)

AAO: ABSA

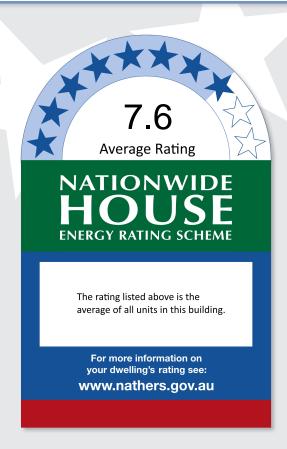
Dwelling details

Street: 36-38 Rodley Ave

Suburb: Penrith
State: NSW
Postcode: 2750

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





Summary of all dwellings

Certificate Details					
Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003068467	U1	32.7	26.6	59.2	7.4
0003068475	U2	49.1	29.6	78.7	6.4
0003068483	U3	41.8	28.0	69.8	6.9
0003068491	U11	14.8	25.6	40.4	8.2
0003068509	U12	8.2	26.0	34.3	8.4
0003068533	U13	34.6	31.4	66.0	6.9
0003068517	U14	21.3	28.1	49.4	7.8
0003068525	U21	15.3	25.3	40.7	8.2
0003068558	U22	8.6	25.7	34.3	8.4
0003068541	U23	35.6	31.0	66.6	6.9
0003068566-01	U24	22.1	27.6	49.7	7.8
0003068590	U31	15.7	25.0	40.7	8.2
0003068574	U32	8.8	25.5	34.3	8.4
0003068582	U33	36.0	30.8	66.8	6.9
0003068624	U34	22.4	27.4	49.8	7.8

^{*} 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: 8369395

Nationwide House Energy Rating Scheme* - Class 2 summary

Certificate number: **0003068690** Certificate Date: **15 Aug 2018**

★ Average Star rating: 7.6



Summary of all dwellings continued

Certificate number	Unit number	Heating load	Cooling load	Total load	Star Rating
0003068608	U41	18.0	22.9	41.0	8.2
0003068616	U42	10.5	22.8	33.3	8.6
0003068632	U43	38.9	27.3	66.2	6.9
0003068640	U44	24.9	25.7	50.6	7.8
0003068657	U51	50.5	34.5	85.1	6.1
0003068665	U52	37.2	37.9	75.1	6.6

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







NSW BASIX - New Dwelling

Payment Receipt

Dear Sir/Madam

Please retain this payment receipt issued by Westpac as proof that the payment was received, processed and accepted by Westpac on behalf of Planning & Infrastructure.

Planning & Infrastructure will attach a Tax Receipt to your Completed Project file in the BASIX Project Portfolio.

Project name 20331

Request number WCN 000287221 Payment amount \$480.00 AUD

Card holder michael t may Credit card number 455702...800 Expiry date (mm/yy) 05 / 19

Receipt number 2239457043

Timestamp 16 Aug 2018 20:28