Water Commitments:

*Fixtures

- Must install 3 Star rating showerheads in all showers.(>4.5 but <=6L/min).
- Must install 4 Star rating toilet flushing system in each toilet.
- Must install 5 Star rating taps in each kitchen.
- Must install 5 Star rating taps in each bathroom.
- **Energy Commitments:**

*Hotwater

- Must install a gas instantaneous 6 star.

*Cooling/ Heating System

- Must install 5 Star (new rating) rated 1-phase air conditioning or higher to the living areas of each dwelling.

*Ventilated fridge space - Yes

*Ventilation

Must install ventilation systems in:

- Bathroom: individual fan, ducted to facade or roof; Operation control: manual switch on/off.
- Kitchen:individual fan, ducted to facade or roof; Operation control: manual switch on/off $\,$
- -Laundry: individual fan, ducted to facade or roof; Operation control: manual switch on/off

*Fixtures

Dishwasher - 4.5*, Clothes dryer 6*

*Lighting

- Must provide artificial lighting in each Kitchen, all Bathrooms/ toilets, each Laundary, all Hallways.

*Other

Must install gas cooktop and electric oven in the kitchen of all dwellings.
 Indoor clothes drying line

Common Areas

Water Commitments

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.
- Must install 3 Star rating taps.

Energy Commitments:

*Lighting

Must install lighting in:

- Lift cars : compact fluorescent ; Efficiency measure: connected to lift call button.
- Hallway/ Lobbies : compact fluorescent; Efficiency measure: daylight sensor and motion sensor.

*Central energy system

- Lift : Must install gearless traction with VVVF motor : Number of Levels (Including basement) :5
- -Must install a central hot water system solar gas boosted

BASIX Commitments- <u>Common Areas</u> (Non-Building Specific)

Water Commitments:

*Fixture

- Must install 3 Star rating toilet flushing system in any common toilet.
- Must install 3 Star rating taps.

Energy Commitments:

*Ventilation

Must install ventilation in:

- Basement 1- All Buildings: Ventilation (supply + exhaust); Efficiency measure: Carbon monoxide monitor + VSD fan.
- Plant or Service Room- No Mechanical Ventilation.

*Lighting

Must install lighting in:

- Basement : compact fluorescent; Efficiency measure: daylight sensors and motion sensor.
- Garbage rooms : compact fluorescent; Efficiency measure: manual on / manual off.
- Plant or Service room: compact fluorescent; Efficiency measure: manual on / manual off.

Proposed Residential Development at: 20 Robert Street, Penrith



Cito Aroo		1400m²
Site Area		1400m²
	Doguirod/allowed	Provided
Total Duilt up Area	Required/allowed	
Total Built-up Area	N/A	1830 m²
FSR Permissible Height	N/A 15m	1.3:1 13.5 (Parapet) 14.6 (Lift over-run
Front Street Setback	5.5 m	Building : 5.5 m Balcony : 5.0 m
Rear Setback	6 m	6 m
Side Setback	6m	6m
Car Spaces Residential	1 space / 1 Bed 1 spaces / 2 Bed 2 spaces / 3 Bed 21	21
Car Spaces Visitor	1 space / 5 Units	4
Car Spaces (Total)	25	25
Car wash bay	1	1
Communal Open Space	10% of the Landscape Area= 49 m2	250 m²
Total Landscape Area	35% Site area = 490m2	527m2
Deep Soil		388m2
Unit Breakdown		3 x 1 bedroom 16 x 2 bedroom 1 x 3 bedroom
Total Unit		20 units

	Sheet List
Sheet	
Number	Sheet Name

DA 000	Cover Page
DA 200	Site Plan
DA 202	Basement 1 Plan
DA 203	Ground Floor Plan
DA 204	Level 1 / 2 Plan
DA 205	Level 3 Plan
DA 206	Roof Plan
DA 300	Exterior Elevations 1/2
DA 301	Exterior Elevations 2/2
DA 302	Streetscape
DA 303	Sections
DA 600	SolarAccess & Cross Ventilation
DA 601	Shadow Diagrams
DA 700	ADG Key Compliance Schedule
UA 100	Site Analysis 1 of 2
UA 101	Site Analysis 2 of 2
UA 102	Average Front Setback

REVISIONS		
DESCRIPTION	DATE	BY
Issue for DA submission	7.9.18	MT
	REVISIONS DESCRIPTION Issue for DA submission	DESCRIPTION DATE

NOTE:
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DESIGN CUBICLE PTY LTD NOMINATED ARCHITECT - Sam Min-Han Lu (#8842)

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SHEET TITLE:
Cover Page

SHEET NO: DA 000

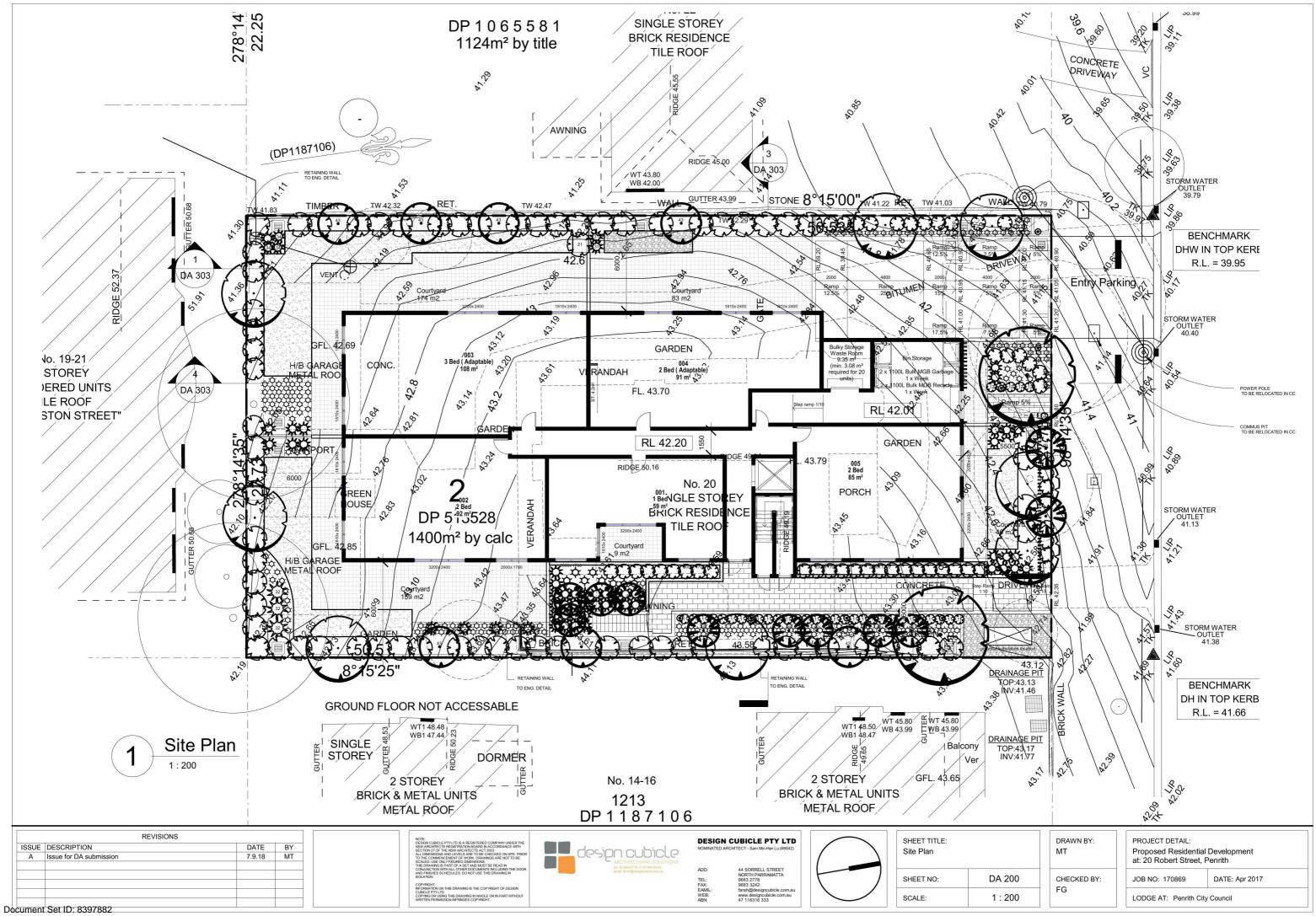
SCALE: 1:1

DRAWN BY: MT CHECKED BY: FG PROJECT DETAIL:
Proposed Residential Development
at: 20 Robert Street, Penrith

JOB NO: 170869 DATE: Apr 2017

LODGE AT: Penrith City Council

Document Set ID: 8397882



Version: 1, Version Date: 26/09/2018

Water Commitments:

*Fixtures

- Must install 3 Star rating showerheads in all showers.(>4.5 but <=6L/min).
- Must install 4 Star rating toilet flushing system in each toilet.
- Must install 5 Star rating taps in each kitchen.
- Must install 5 Star rating taps in each bathroom.

Energy Commitments:

*Hotwater

- Must install a gas instantaneous 6 star.

*Cooling/ Heating System

- Must install 5 Star (new rating) rated 1-phase air conditioning or higher to the living areas of each dwelling.

*Ventilated fridge space - Yes

*Ventilation

Must install ventilation systems in:

- Bathroom: individual fan, ducted to facade or roof; Operation control: manual switch on/off.
- Kitchen:individual fan, ducted to facade or roof; Operation control: manual switch on/off -Laundry: individual fan, ducted to facade or roof; Operation control: manual switch on/off

Fixtures Dishwasher - 4.5, Clothes dryer 6*

*Lighting

- Must provide artificial lighting in each Kitchen, all Bathrooms/ toilets, each Laundary, all Hallways.
- Must install gas cooktop and electric oven in the kitchen of all dwellings.
- Indoor clothes drying line

Common Areas

Water Commitments

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.
- Must install 3 Star rating taps.

Energy Commitments:

*Lighting

Must install lighting in:

- Lift cars : compact fluorescent ; Efficiency measure: connected to lift call button.
- Hallway/ Lobbies : compact fluorescent; Efficiency measure: daylight sensor and motion sensor. *Central energy system
- Lift : Must install gearless traction with VVVF motor : Number of Levels (Including basement) :5 -Must install a central hot water system solar gas boosted

BASIX Commitments- Common Areas (Non-Building Specific)

Water Commitments:

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.

- Must install 3 Star rating taps.

Energy Commitments:

*Ventilation Must install ventilation in:

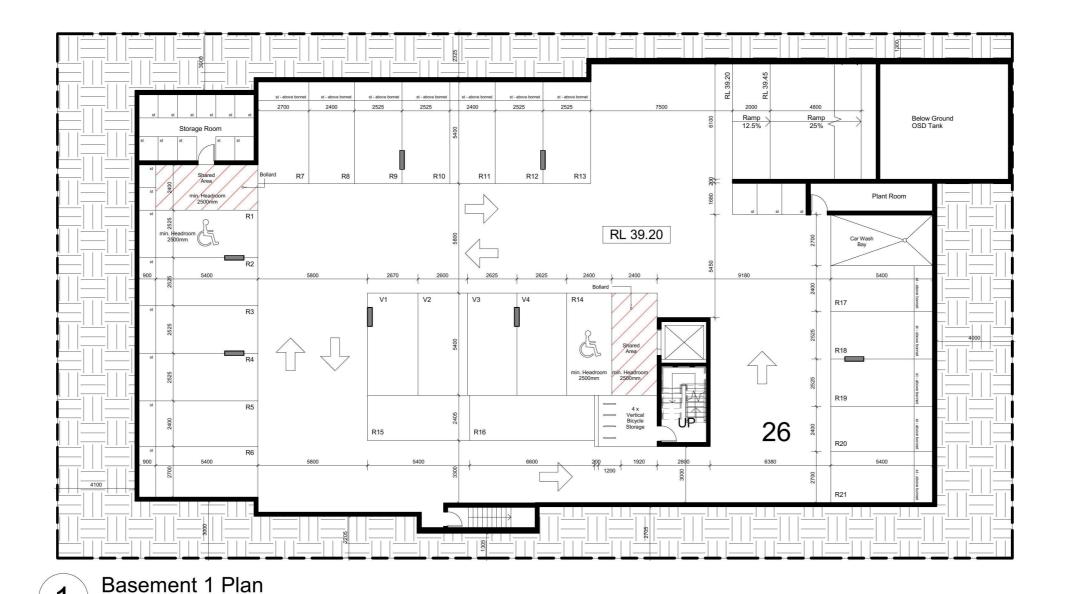
- Basement 1- All Buildings: Ventilation (supply + exhaust); Efficiency measure: Carbon monoxide monitor + VSD fan.

- Plant or Service Room- No Mechanical Ventilation.

*Lighting

Must install lighting in:

- Basement : compact fluorescent; Efficiency measure: daylight sensors and
- Garbage rooms : compact fluorescent; Efficiency measure: manual on / manual
- Plant or Service room: compact fluorescent; Efficiency measure: manual on / manual off



All over-bonnet storage to comply with Fig. 2.7 of AS2890.6

REVISIONS ISSUE DESCRIPTION DATE MT Issue for DA submission 7.9.18

1:200

design cubicle

DESIGN CUBICLE PTY LTD

SHEET TITLE: Basement 1 Plan	
basement i i ian	
SHEET NO:	DA 202
SCALE:	As indicated

DRAWN BY: MT CHECKED BY

FG

PROJECT DETAIL: Proposed Residential Development at: 20 Robert Street, Penrith DATE: Apr 2017 JOB NO: 170869

LODGE AT: Penrith City Council

Version: 1, Version Date: 26/09/2018

Document Set ID: 8397882

Water Commitments:

*Fixtures

- Must install 3 Star rating showerheads in all showers.(>4.5 but <=6L/min).
- Must install 4 Star rating toilet flushing system in each toilet.
- Must install 5 Star rating taps in each kitchen.
- Must install 5 Star rating taps in each bathroom.

Energy Commitments:

*Hotwater

- Must install a gas instantaneous 6 star.

*Cooling/ Heating System

- Must install 5 Star (new rating) rated 1-phase air conditioning or higher to the living areas of each dwelling.

*Ventilated fridge space - Yes

*Ventilation

Must install ventilation systems in:

- Bathroom: individual fan, ducted to facade or roof; Operation control: manual switch on/off.
- Kitchen:individual fan, ducted to facade or roof; Operation control: manual switch on/off -Laundry: individual fan, ducted to facade or roof; Operation control: manual switch on/off

<u>Fixtures</u> Dishwasher - 4.5, Clothes dryer 6*

*Lighting

- Must provide artificial lighting in each Kitchen, all Bathrooms/ toilets, each Laundary, all Hallways. *Other

- Must install gas cooktop and electric oven in the kitchen of all dwellings.

- Indoor clothes drying line

Common Areas

Water Commitments:

*Fixtures

Must install 3 Star rating toilet flushing system in any common toilet.

- Must install 3 Star rating taps.

Energy Commitments:

*Lighting

Must install lighting in:

- Lift cars : compact fluorescent ; Efficiency measure: connected to lift call button.
- Hallway/ Lobbies : compact fluorescent; Efficiency measure: daylight sensor and motion sensor.

*Central energy system

- Lift : Must install gearless traction with VVVF motor : Number of Levels (Including basement):5

-Must install a central hot water system solar gas boosted

BASIX Commitments- Common Areas (Non-Building Specific)

Water Commitments:

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.
- Must install 3 Star rating taps.

Energy Commitments:

*Ventilation

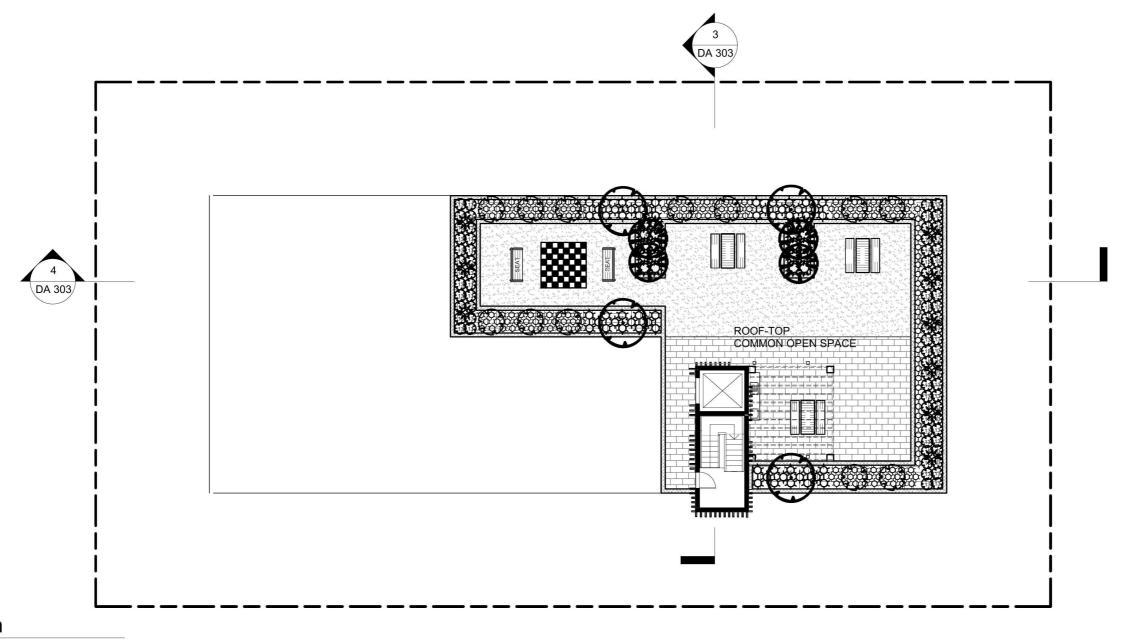
Must install ventilation in:

- Basement 1- All Buildings: Ventilation (supply + exhaust); Efficiency measure: Carbon monoxide monitor + VSD fan.
- Plant or Service Room- No Mechanical Ventilation.

*Lighting

Must install lighting in:

- Basement : compact fluorescent; Efficiency measure: daylight sensors and motion sensor.
- Garbage rooms : compact fluorescent; Efficiency measure: manual on / manual
- Plant or Service room: compact fluorescent; Efficiency measure: manual on / manual off.





Roof Plan

REVISIONS						
ISSUE	DESCRIPTION	DATE				
Α	Issue for DA submission	7.9.18	MT			

DESIGN CUBICLE PTY LTD



SHEET TITLE: Roof Plan SHEET NO: DA 206 As indicated

SCALE:

DRAWN BY: CHECKED BY

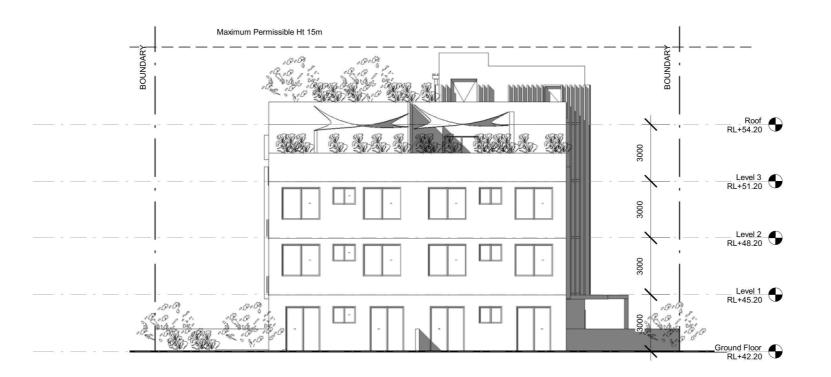
FG

PROJECT DETAIL: Proposed Residential Development at: 20 Robert Street, Penrith DATE: Apr 2017 JOB NO: 170869

LODGE AT: Penrith City Council



North Elevation



South Elevation 1:200

REVISIONS ISSUE DESCRIPTION DATE Issue for DA submission 7.9.18

Document Set ID: 8397882

Version: 1, Version Date: 26/09/2018



DESIGN CUBICLE PTY LTD

SHEET TITLE: DA 300 As indicated

DRAWN BY:

PROJECT DETAIL: Proposed Residential Development at: 20 Robert Street, Penrith DATE: Apr 2017 JOB NO: 170869 LODGE AT: Penrith City Council

BASIX Commitments

Water Commitments:

*Fixtures

- Must install 3 Star rating showerheads in all showers.(>4.5 but <=6L/min).
- Must install 4 Star rating toilet flushing system in each toilet.
- Must install 5 Star rating taps in each kitchen.
- Must install 5 Star rating taps in each bathroom.

Energy Commitments:

*Hotwater

- Must install a gas instantaneous 6 star.

*Cooling/ Heating System

- Must install 5 Star (new rating) rated 1-phase air conditioning or higher to the living areas of each dwelling.
- *Ventilated fridge space Yes

*Ventilation

Must install ventilation systems in:

- Bathroom: individual fan, ducted to facade or roof; Operation control: manual switch on/off.
- Kitchen:individual fan, ducted to facade or roof; Operation control: manual switch on/off
- -Laundry: individual fan, ducted to facade or roof; Operation control: manual switch on/off

*Fixtures

Dishwasher - 4.5*, Clothes dryer 6*

*Lighting

- Must provide artificial lighting in each Kitchen, all Bathrooms/ toilets, each Laundary, all Hallways.

*Other

- Must install gas cooktop and electric oven in the kitchen of all dwellings.

- Indoor clothes drying line

Common Areas

Water Commitments:

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.

- Must install 3 Star rating taps.

Energy Commitments:

*Lighting Must install lighting in:

- Lift cars : compact fluorescent ; Efficiency measure: connected to lift call
- Hallway/ Lobbies : compact fluorescent; Efficiency measure: daylight sensor and motion sensor.

*Central energy system

- Lift : Must install gearless traction with VVVF motor : Number of Levels (Including basement):5

-Must install a central hot water system solar gas boosted

BASIX Commitments- Common Areas (Non-Building Specific)

Water Commitments:

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.
- Must install 3 Star rating taps.

Energy Commitments: *Ventilation

Must install ventilation in:

- Basement 1- All Buildings: Ventilation (supply + exhaust); Efficiency measure: Carbon monoxide monitor + VSD fan.
- Plant or Service Room- No Mechanical Ventilation.

*Lighting

Must install lighting in:

- Basement : compact fluorescent; Efficiency measure: daylight sensors and motion sensor.
- Garbage rooms : compact fluorescent; Efficiency measure: manual on / manual off.
- Plant or Service room: compact fluorescent; Efficiency measure: manual on / manual off.

Exterior Elevations 1/2 SHEET NO: SCALE:

CHECKED BY



East Elevation 1:200



West Elevation



DESIGN CUBICLE PTY LTD

SHEET TITLE: Exterior Elevations 2/2 SHEET NO: DA 301 As indicated SCALE:

DRAWN BY: CHECKED BY

PROJECT DETAIL: Proposed Residential Development at: 20 Robert Street, Penrith DATE: Apr 2017 JOB NO: 170869

*Fixtures - Must install 3 Star rating showerheads in all showers.(>4.5 but <=6L/min).

- Must install 4 Star rating toilet flushing system in each toilet.

- Must install 5 Star rating taps in each kitchen.

- Must install 5 Star rating taps in each bathroom.

BASIX Commitments

Energy Commitments: *Hotwater

Water Commitments:

- Must install a gas instantaneous 6 star.

*Cooling/ Heating System

- Must install 5 Star (new rating) rated 1-phase air conditioning or higher to the living areas of each dwelling.

*Ventilated fridge space - Yes

*Ventilation

Must install ventilation systems in:

- Bathroom: individual fan, ducted to facade or roof; Operation control: manual switch on/off.

- Kitchen:individual fan, ducted to facade or roof; Operation control: manual switch on/off

-Laundry: individual fan, ducted to facade or roof; Operation control: manual switch on/off

<u>Fixtures</u> Dishwasher - 4.5, Clothes dryer 6*

*Lighting

- Must provide artificial lighting in each Kitchen, all Bathrooms/ toilets, each Laundary, all Hallways.

*Other

- Must install gas cooktop and electric oven in the kitchen of all dwellings. - Indoor clothes drying line

Common Areas

Water Commitments:

- Must install 3 Star rating toilet flushing system in any common toilet.

- Must install 3 Star rating taps. **Energy Commitments:**

*Lighting

Must install lighting in:

- Lift cars : compact fluorescent ; Efficiency measure: connected to lift call

- Hallway/ Lobbies : compact fluorescent; Efficiency measure: daylight sensor and motion sensor.

*Central energy system

- Lift: Must install gearless traction with VVVF motor: Number of Levels (Including basement):5

-Must install a central hot water system solar gas boosted

BASIX Commitments- Common Areas (Non-Building Specific)

Water Commitments:

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.

- Must install 3 Star rating taps. Energy Commitments:

*Ventilation

Must install ventilation in:

- Basement 1- All Buildings: Ventilation (supply + exhaust); Efficiency measure: Carbon monoxide monitor + VSD fan.

- Plant or Service Room- No Mechanical Ventilation.

*Lighting

Must install lighting in:

- Basement : compact fluorescent; Efficiency measure: daylight sensors and motion sensor.

- Garbage rooms : compact fluorescent; Efficiency measure: manual on / manual off.

- Plant or Service room: compact fluorescent; Efficiency measure: manual on / manual off.

	REVISIONS		
ISSUE	DESCRIPTION	DATE	BY
Α	Issue for DA submission	7.9.18	MT

FG

LODGE AT: Penrith City Council



ROBERT STREET ROBERT STREET



	REVISIONS		
ISSUE	DESCRIPTION	DATE	BY
Α	Issue for DA submission	7.9.18	MT

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DESIGN CUBICLE PTY LTD

NOMINATED ARCHITECT - Sam Min-Han Lu (#8842)

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NORTH PARRAMATTA

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VEB: www.designoubicle.com.au

47 118318 ABN 47 118318 ABN

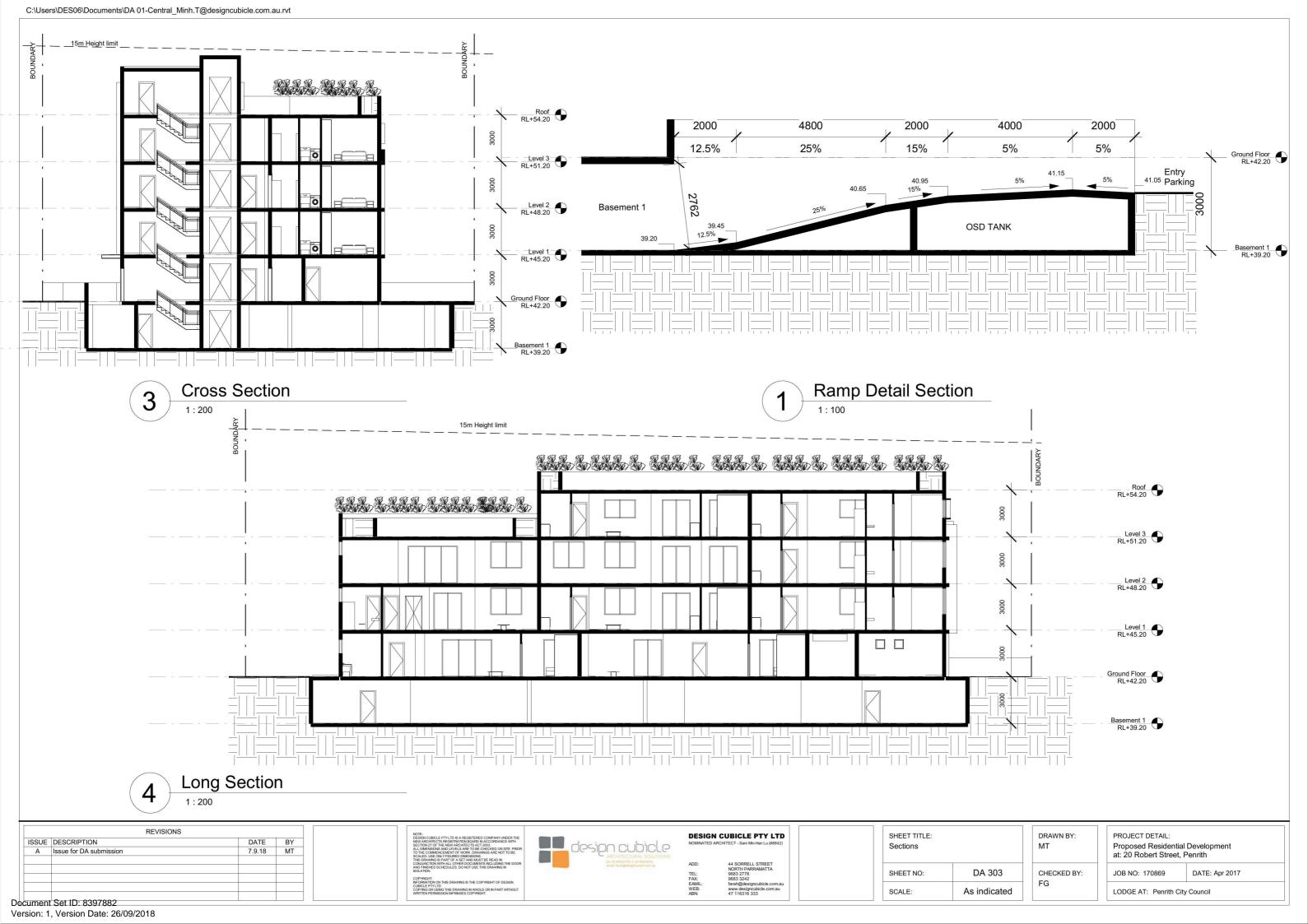
Streetscape	
SHEET NO:	DA 302
SCALE:	1 : 500

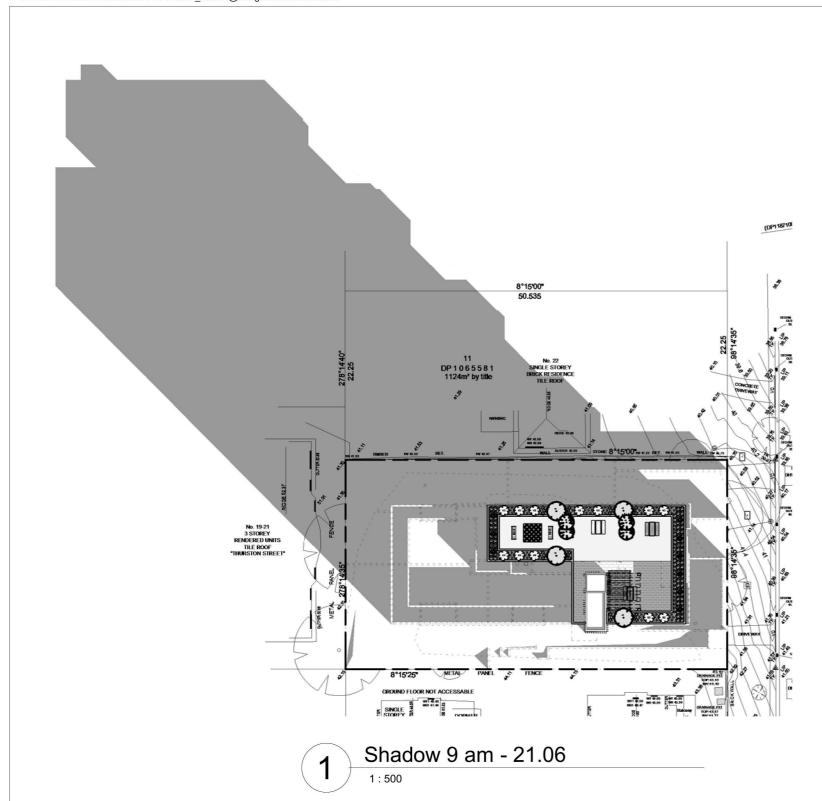
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MT
CHECKED BY:

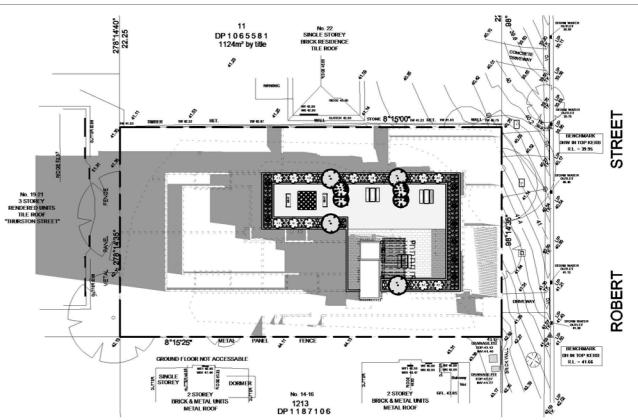
PROJECT DETAIL:
Proposed Residential Development
at: 20 Robert Street, Penrith

JOB NO: 170869 DATE: Apr 2017

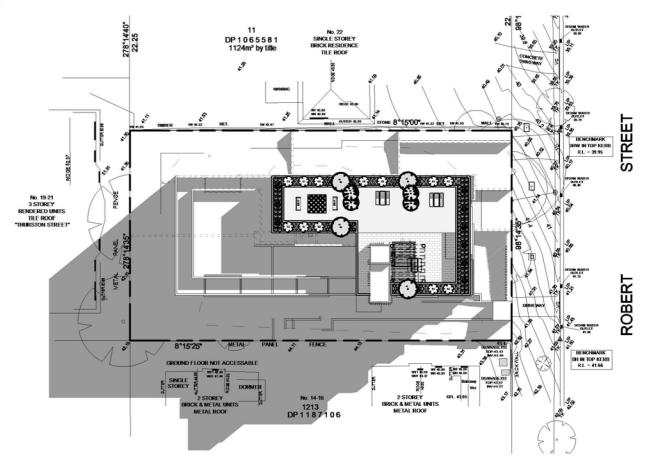
LODGE AT: Penrith City Council







Shadow 12 pm - 21.06

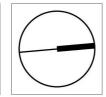


3 Shadow 3 pm - 21.06

	REVISIONS		
ISSUE	DESCRIPTION	DATE	BY
Α	Issue for DA submission	7.9.18	MT

NOTE: DESIGN CUBICLE PTYLTD IS A REGISTERED COMPANY LIDGER THE DESIGN ARCHITECTS REGISTRATION BOARD IN ACCORDANCE WITH SECTION 27 OF THE NEW MICHIECTS ACT 2001. TO THE COMMENCEMENT OF WORK DAWNINGS ARE DON SITE PRORY. TO THE COMMENCEMENT OF WORK DAWNINGS ARE DON'S TO BE SOLIED USE ON FEMILED DIMENSIONS. TO COMMENT DIMENSIONS OF THE PROPERTY OF THE PROP





SHEET TITLE: Shadow Diagrams	
SHEET NO:	DA 601
SCALE:	1:500

DRAWN BY: MT CHECKED BY: FG

PROJECT DETAIL:
Proposed Residential Development
at: 20 Robert Street, Penrith

JOB NO: 170869 DATE: Apr 2017

LODGE AT: Penrith City Council

									ADG	Key Comp		edule									
Units	Beds	Bathrooms	Units Area	P.O.S / Balcony Areas	Basement Storage Volume	Unit Storage Volume	Total Storage Volume	Width of Living Rooms or Living / Dining Room	Min. 2 Hours Solar Access 9am - 3pm Living & P.O.S	No Direct Solar Access 9am - 3pm	Naturally Cross Ventilated	Overall Depth of Cross-Through Apartment Does Not Exceed 18m	Apartments Achieve Min. Internal Areas Based on the Number of Bedrooms & Bathrooms	Min. Ceiling Height of 2.7m for Habitable Rooms & 2.4m for Non-Habitable Rooms	Every Habitable Room has a Window with Glass Area not Less than 10% of the Floor Area of the Room	Master Bedrooms have Min Area of 10m² & other Bedrooms 9m² (Excluding Wardrobe)	Bedrooms Achieve Min Dimensions of 3m (Excluding Wardrobes)	Living Rooms or Combined Living / Dining Rooms achieve Min Width Required Based on Number of Bedrooms	The Width of Cross-Through Apartments are at least 4m	Apartments Achieve Min. P.O.S / Balcony Areas & Depths Based on Nmber of Bedrooms	Apartments Achieve Min. Storage Volume Based on Numbe of Bedrooms
001	1	1	59m²	9m²	Min 3m³	3.1m³	6.1m³	3600mm	Yes	N/A	No	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
002	2	2	92m²	159m²	Min 4m³	4.2m³	8.2m³	8147mm	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
003	3	2	112m²	174m²	Min 5m³	7.7m³	12.7m³	6257mm	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
004	2	2	91m² 85m²	83m² 43m²	Min 4m³	4.2m³ 4.2m³	8.2m³ 8.2m³	4700mm 6575mm	Yes	N/A N/A	No Yes	N/A N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A N/A	Yes	Yes
003	-		85111	45111	Will 4iii	4.211	0.2111	63/311111				19/0	163	163	163	ies	163	163	19/0	163	ies
									Total: 5/5	Total 0/5	Total: 3/5										
										First	Floor										
Units	Beds	Bathrooms	Units Area	P.O.S / Balcony Areas	Basement Storage Volume	Unit Storage Volume	Total Storage Volume	Width of Living Rooms or Living / Dining Room	Min. 2 Hours Solar Access 9am - 3pm Living & P.O.S	No Direct Solar Access 9am - 3pm	Naturally Cross Ventilated	Overall Depth of Cross-Through Apartment Does Not Exceed 18m	Apartments Achieve Min. Internal Areas Based on the Number of Bedrooms & Bathrooms	Min. Ceiling Height of 2.7m for Habitable Rooms & 2.4m for Non-Habitable Rooms	Every Habitable Room has a Window with Glass Area not Less than 10% of the Floor Area of the Room	Master Bedrooms have Min Area of 10m² & other Bedrooms 9m² (Excluding Wardrobe)	Bedrooms Achieve Min Dimensions of 3m (Excluding Wardrobes)	Living Rooms or Combined Living / Dining Rooms achieve Min Width Required Based on Number of Bedrooms	The Width of Cross-Through Apartments are at least 4m	Apartments Achieve Min. P.O.S / Balcony Areas & Depths Based on Nmber of Bedrooms	Apartments Achieve Min. Storage Volume Based on Numbe of Bedrooms
101	1	1	59m²	8m²	Min 3m³	3.1m³	6.1m³	4000mm	Yes	N/A	No	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
102	2	2	79m²	10m²	Min 4m³	4.3m³	8.3m³	4000mm	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
103	2	2	83m² 81m²	10m²	Min 4m³	4.6m³ 4.7m³	8.6m ³ 8.7m ³	4000mm 4500mm	Yes	N/A N/A	Yes	N/A N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A N/A	Yes	Yes
105	2	2	77m²	10m ²	Min 4m³	5m³	9m³	6000mm	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
106	2	2	75m²	10m²	Min 4m³	5m³	9m³	4500mm	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
									Total: 6/6	Total 0/6	Total: 4/6										
Units	Beds	Bathrooms	Units Area	P.O.S / Balcony Areas	Basement Storage Volume	Unit Storage Volume	Total Storage Volume	Width of Living Rooms or Living / Dining Room	Min. 2 Hours Solar Access 9am - 3pm Living & P.O.S	No Direct Solar Access 9am - 3pm	Naturally Cross Ventilated	Overall Depth of Cross-Through Apartment Does Not Exceed 18m	Apartments Achieve Min. Internal Areas Based on the Number of Bedrooms & Bathrooms	Min. Ceiling Height of 2.7m for Habitable Rooms & 2.4m for Non-Habitable Rooms	Every Habitable Room has a Window with Glass Area not Less than 10% of the Floor Area of the Room	Master Bedrooms have Min Area of 10m² & other Bedrooms 9m² (Excluding Wardrobe)	Bedrooms Achieve Min Dimensions of 3m (Excluding Wardrobes)	Living Rooms or Combined Living / Dining Rooms achieve Min Width Required Based on Number of Bedrooms	The Width of Cross-Through Apartments are at least 4m	Apartments Achieve Min. P.O.S / Balcony Areas & Depths Based on Nmber of Bedrooms	Apartments Achieve Min. Storage Volume Based on Numbe of Bedrooms
201	1	1	59m²	8m²	Min 3m ³	3.1m³	6.1m³	4000mm	Yes	N/A	No	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
202	2	2	79m²	10m²	Min 4m³	4.3m³	8.3m ³	4000mm	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
203	2	2	83m² 81m²	10m²	Min 4m³	4.6m³ 4.7m³	8.6m ³ 8.7m ³	4000mm 4500mm	Yes	N/A N/A	Yes	N/A N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A N/A	Yes	Yes
205	2	2	77m²	10m ²	Min 4m ³	5m³	9m³	6000mm	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
206	2	2	75m²	10m²	Min 4m³	5m³	9m³	4500mm	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
									Total: 6/6	Total 0/6	Total: 4/6										
										Third	Floor										
										111114											
Units	Beds	Bathrooms	Units Area	P.O.S / Balcony Areas	Basement Storage Volume	Unit Storage Volume	Total Storage Volume	Width of Living Rooms or Living / Dining Room	Min. 2 Hours Solar Access 9am - 3pm Living & P.O.S	No Direct Solar Access 9am - 3pm	Naturally Cross Ventilated	Overall Depth of Cross-Through Apartment Does Not Exceed 18m	Apartments Achieve Min. Internal Areas Based on the Number of Bedrooms & Bathrooms	Min. Ceiling Height of 2.7m for Habitable Rooms & 2.4m for Non-Habitable Rooms	Every Habitable Room has a Window with Glass Area not Less than 10% of the Floor Area of the Room	Master Bedrooms have Min Area of 10m² & other Bedrooms 9m² (Excluding Wardrobe)	Bedrooms Achieve Min Dimensions of 3m (Excluding Wardrobes)	Living Rooms or Combined Living / Dining Rooms achieve Min Width Required Based on Number of Bedrooms	The Width of Cross-Through Apartments are at least 4m	Apartments Achieve Min. P.O.S / Balcony Areas & Depths Based on Nmber of Bedrooms	Apartments Achieve Min. Storage Volume Based on Numbe of Bedrooms
301	2	2	81m²	10m²	Min 4m³	4.7m³	8.7m³	4500mm	Yes	N/A	No	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
302	2	2	77m²	10m²	Min 4m³	5m³	9m³	6000mm	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes
303	2	2	75m²	10m²	Min 4m³	5m³	9m³	4500mm	Yes	N/A	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes	Yes

REVISIONS				
ISSUE	DESCRIPTION	DATE		BY
Α	Issue for DA submission		7.9.18	MT

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DESIGN CUBICLE PTY LTD NOMINATED ARCHITECT - Sam Min-Han Lu (#8842)

ADD: 44 SORRELL STREE

NORTH PARRAMATI,

1EL: 9683 2778

FAX: 9683 3242

EAMIL: farah@designcubicle.to

ABN: 47 116316 333

A	DG Key Compliand	ce Schedule
SI	HEET NO:	DA 700
SO	CALE:	1 : 120

SHEET TITLE:

DRAWN BY: MT CHECKED BY:

FG

PROJECT DETAIL:
Proposed Residential Development
at: 20 Robert Street, Penrith

JOB NO: 170869 DATE: Apr 2017

LODGE AT: Penrith City Council

Document Set ID: 8397882

Version: 1, Version Date: 26/09/2018



Legend

One Storey



Two Storey



Three Storey



Vehicular Circulation



01 - 15 -19 Robert Street, Penrith

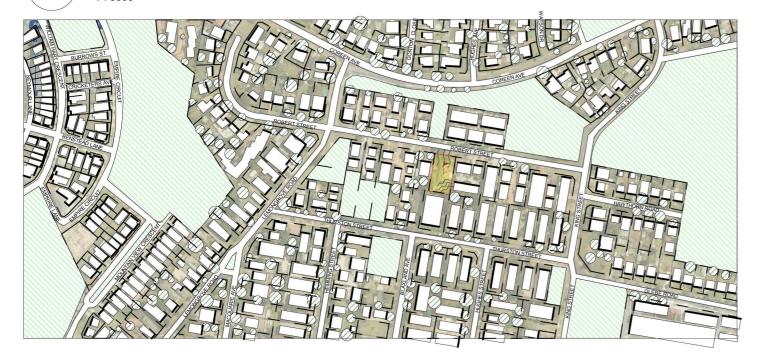


02 - 16-18 Robert Street, Penrith



03 - 22 Robert Street, Penrith

Building Use & Photo Location



Legend



Open Space



Major Trees



Noise



Prevailing Winds
North Easterly South Westerly

Open Space, Landform & Building Edge

	REVISIONS		
ISSUE	DESCRIPTION	DATE	BY
Α	Issue for DA submission	7.9.18	MT
	C-+ ID: 0207000		

NOTE:
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COPPRIGHT.



DESIGN CUBICLE PTY LTD

NOMINATED ARCHTECT - Sam Min-Han Lu (#8842)

ADD: 44 SORRELL STREET

NORTH PARRAMATTA

TEL: 9683 Z7RAMATTA

T - Sam Min-Han Lu (#8842)

SORRELL STREET
RTH PARRAMATTA
83 2778
83 3242
ah@designcubicle.com.au
w.designcubicle.com.au

ite Analysis 1 of 2	
HEET NO:	UA 100
CALE:	1:5000

DRAWN BY:
MT

CHECKED BY:

PROJECT DETAIL:
Proposed Residential Development
at: 20 Robert Street, Penrith

JOB NO: 170869 DATE: Apr 2017

LODGE AT: Penrith City Council





Figure Ground & Location

1:5000



06 - Perspective Looking Through Robert Street







04 - 24 - 28 Robert Street, Penrith

05 - 23 Robert Street, Penrith

07 - 20 Robert Street, Penrith

	REVISIONS		
ISSUE	DESCRIPTION	DATE	BY
Α	Issue for DA submission	7.9.18	MT

NOTE:

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NEW ARCHITECTS REGISTRATON BOARD IN ACCORDANCE WITH
SCOTION 20° FIRE NEW ARCHITECTS ACT 2003.

TO THE COMMENCE THE NEW ARCHITECTS ACT 2003.

TO THE COMMENCEMENT OF WORK CRAWNINGS ARE NOT TO BE
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Site Analysis 2 of 2	
SHEET NO:	UA 101
SCALE:	1:5000

DRAWN BY:
MT
CHECKED BY:

PROJECT DETAIL:
Proposed Residential Development
at: 20 Robert Street, Penrith

JOB NO: 170869 DATE: Apr 2017

LODGE AT: Penrith City Council





Average Front Setback

1:1000

REVISIONS			
ISSUE	DESCRIPTION	DATE	BY
Α	Issue for DA submission	7.9.18	MT

NOTE:
DESIGN CUBICLE PTYLTD IS A REGISTERED COMPANY LADER THE
NEW ARCHITECTS REGISTRATION BOARD IN ACCORDANCE WITH
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DESIGN CUBICLE PTY LTD

NOMINATED ARCHITECT - Sam Min-Han Lu (#8842)

ADD: 44 SORRELL STREET

NORTH PARRAMATTA

TEL: 9683 2778

FAX: 9683 32742

SHEET TITLE:
Average Front Setback

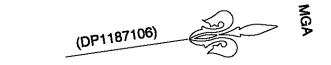
SHEET NO: UA 102

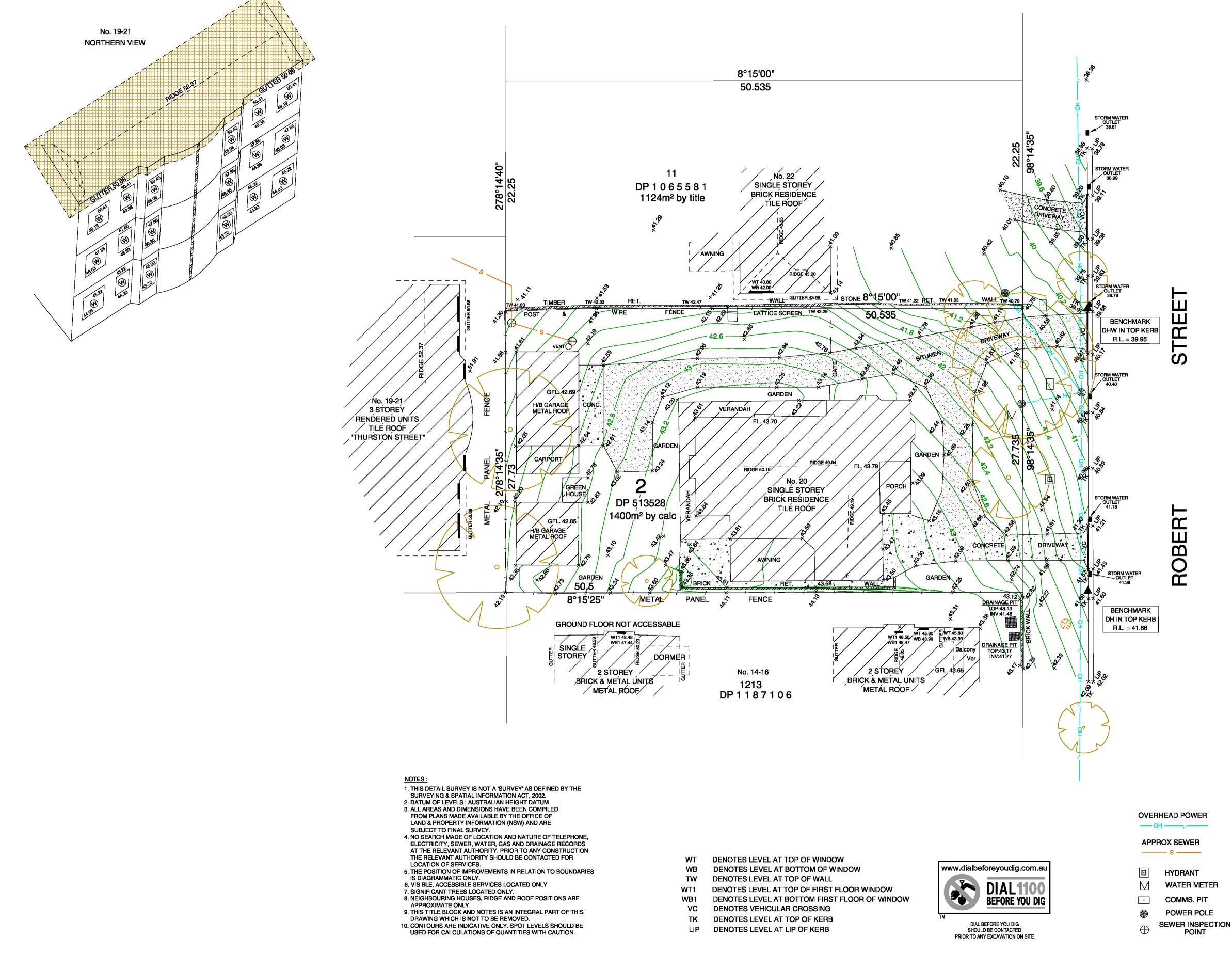
SCALE: 1:1000

DRAWN BY: MT CHECKED BY: PROJECT DETAIL:
Proposed Residential Development
at: 20 Robert Street, Penrith

JOB NO: 170869 DATE: Apr 2017

LODGE AT: Penrith City Council





1:200 5 10 15 20 25 METRES RICHARD HOGAN & CO.

SURVEYING & DEVELOPMENT CONSULTANTS

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EYING & DEVELOPMENT CONSULT

ABN 59 082 453 165

P.O. BOX 4365, Penrith Plaza, NSW 2750.

Phone: (02) 4732 6599

Web: www.rhco.com.au Email: admin@hoganco.com.au

SURVEYOR: SA

DRAWN: DM

REDUCTION RATIO: 1:200 @ A1

CONTOUR INTERVAL: 0.2m

SHEET 1 OF 1

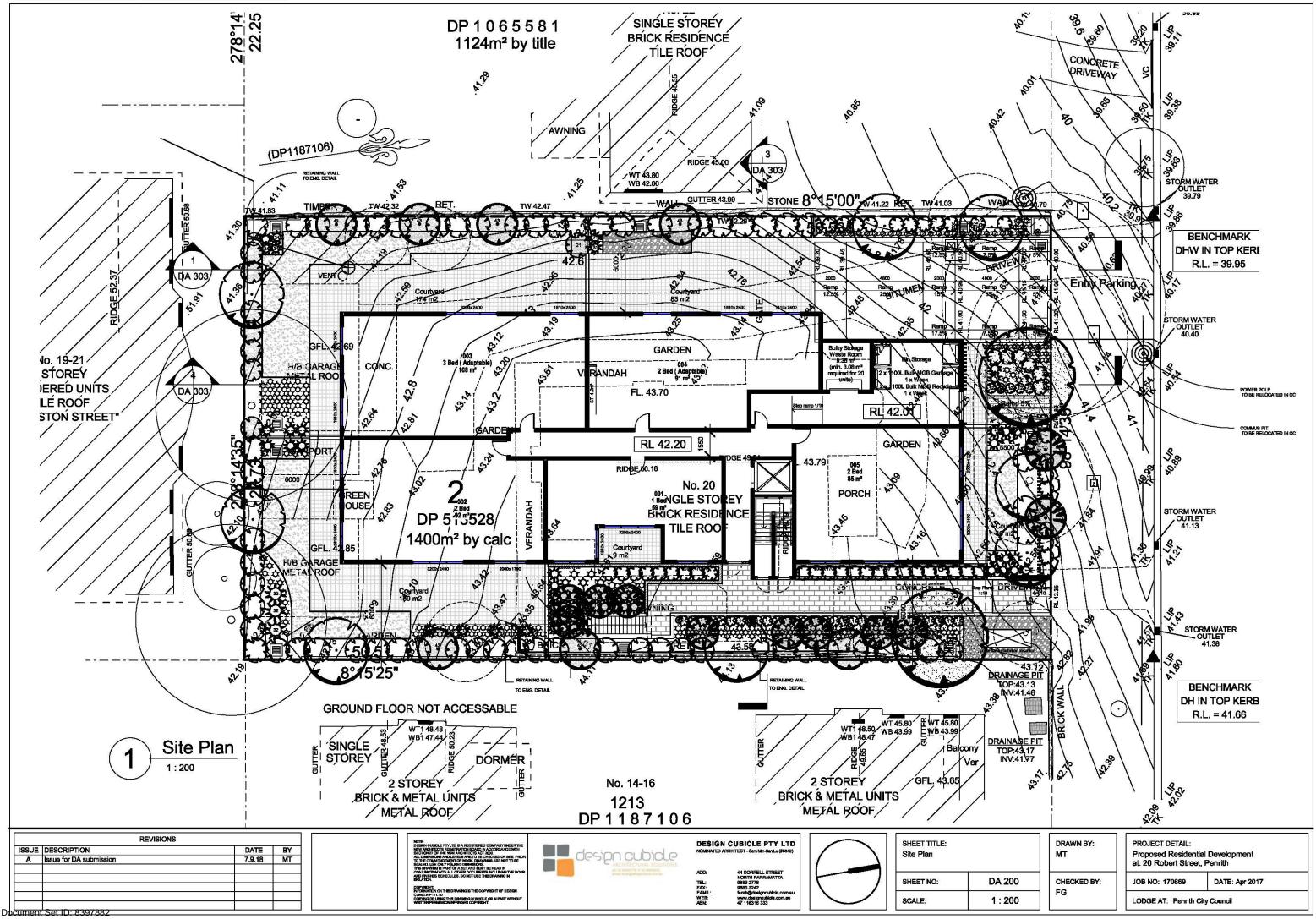
ORIGIN OF LEVELS:
SSM 10919
R.L. = 34.053 (SCIMS)
DATUM: AUSTRALIAN HEIGHT DATUM
DATE: 06/02/2017
VERSION No.: B

PLAN OF DETAIL AND LEVELS OVER LOT 2 IN DP.513528 BEING No.20 ROBERT STREET, PENRITH

CLIENT: MORSON GROUP

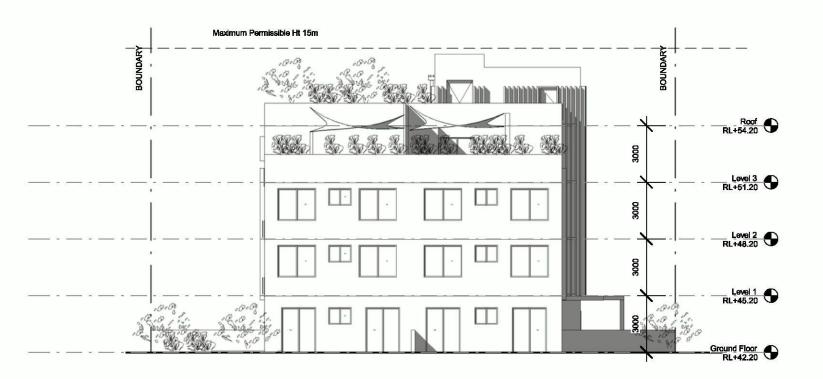
L.G.A.: PENRITH JOB REF:

17043





North Elevation



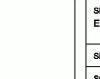
South Elevation 1:200

REVISIONS ISSUE DESCRIPTION DATE BY MT 7.9.18 Issue for DA submission









SHEET TITLE: Exterior Elevations 1/2 DA 300 As indicated SCALE:

DRAWN BY:

PROJECT DETAIL: Proposed Residential Development at: 20 Robert Street, Penrith JOB NO: 170869 DATE: Apr 2017 LODGE AT: Penrith City Council

BASIX Commitments

Water Commitments:

*Fixtures

- Must install 3 Star rating showerheads in all showers.(>4.5 but <=6L/min).
- Must install 4 Star rating toilet flushing system in each toilet.
- Must install 5 Star rating taps in each kitchen.
- Must install 5 Star rating taps in each bathroom.

Energy Commitments:

*Hotwater

- Must install a gas instantaneous 6 star.

- *Cooling/ Heating System
 Must install 5 Star (new rating) rated 1-phase air conditioning or higher to the living areas of each dwelling.
- *Ventilated fridge space Yes

*Ventilation Must install ventilation systems in:

- Bathroom: individual fan, ducted to facade or roof; Operation control: manual switch on/off.
- Kitchen:individual fan, ducted to facade or roof; Operation control: manual switch on/off
- -Laundry: individual fan, ducted to facade or roof; Operation control: manual switch on/off

Fixtures Dishwasher - 4.5, Clothes dryer 6*

*Lighting

- Must provide artificial lighting in each Kitchen, all Bathrooms/ toilets, each Laundary, all Hallways.

- *Other
 Must install gas cooktop and electric oven in the kitchen of all dwellings.

Common Areas Water Commitments:

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.
- Must install 3 Star rating taps.

Energy Commitments:

*Lighting

Must install lighting in:

- Lift cars : compact fluorescent ; Efficiency measure: connected to lift call
- Hallway/ Lobbies : compact fluorescent; Efficiency measure: daylight sensor and motion sensor.

- *Central energy system
 Lift: Must install gearless traction with VVVF motor: Number of Levels (Including basement):5
- -Must install a central hot water system solar gas boosted

BASIX Commitments- Common Areas (Non-Building Specific)

Water Commitments:

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.
- Must install 3 Star rating taps.

Energy Commitments: *Ventilation

Must install ventilation in:

- Basement 1- All Buildings: Ventilation (supply + exhaust); Efficiency measure: Carbon monoxide monitor + VSD fan.
- Plant or Service Room- No Mechanical Ventilation.

*Lighting

Must install lighting in:

- Basement : compact fluorescent; Efficiency measure: daylight sensors and motion sensor.
- Garbage rooms : compact fluorescent; Efficiency measure: manual on / manual off.
- Plant or Service room: compact fluorescent; Efficiency measure: manual on / manual off.

Document Set ID: 8397882

SHEET NO:

CHECKED BY: FG



Water Commitments:

*Fixtures

- Must install 3 Star rating showerheads in all showers.(>4.5 but <=6L/min).
- Must install 4 Star rating toilet flushing system in each toilet.
- Must install 5 Star rating taps in each kitchen.
- Must install 5 Star rating taps in each bathroom.

Energy Commitments:

*Hotwater

- Must install a gas instantaneous 6 star.
- *Cooling/ Heating System
 Must install 5 Star (new rating) rated 1-phase air conditioning or higher to the living areas of each dwelling.

 *Ventilated fridge space - Yes

*Ventilation

- Must install ventilation systems in:
 Bathroom: individual fan, ducted to facade or roof; Operation control: manual switch on/off.
- Kitchen:individual fan, ducted to facade or roof; Operation control: manual switch on/off
- -Laundry: individual fan, ducted to facade or roof; Operation control: manual switch on/off

*Fixtures
Dishwasher - 4.5*, Clothes dryer 6*

*Lighting

- Must provide artificial lighting in each Kitchen, all Bathrooms/ toilets, each Laundary, all Hallways.

- *Other
 Must install gas cooktop and electric oven in the kitchen of all dwellings.
- Indoor clothes drying line

Common Areas

Water Commitments:

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.
- Must install 3 Star rating taps.

Energy Commitments:

*Lighting Must install lighting in:

- Lift cars : compact fluorescent ; Efficiency measure: connected to lift call
- Hallway/ Lobbies : compact fluorescent; Efficiency measure: daylight sensor and motion sensor.

- *Central energy system
 Lift: Must install gearless traction with VVVF motor: Number of Levels (Including basement):5
- Must install a central hot water system solar gas boosted

BASIX Commitments- Common Areas (Non-Building Specific)

Water Commitments:

*Fixtures

- Must install 3 Star rating toilet flushing system in any common toilet.
- Must install 3 Star rating taps.

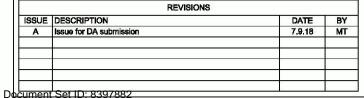
Energy Commitments: *Ventilation

Must install ventilation in:

- Basement 1- All Buildings: Ventilation (supply + exhaust); Efficiency measure: Carbon monoxide monitor + VSD fan.
- Plant or Service Room- No Mechanical Ventilation.

*Lighting Must install lighting in:

- Basement : compact fluorescent; Efficiency measure: daylight sensors and motion sensor.
- Garbage rooms : compact fluorescent; Efficiency measure: manual on / manual off.
- Plant or Service room: compact fluorescent; Efficiency measure: manual on / manual off.





SCALE:

SHEET NO: DA 301 As indicated DRAWN BY: MT CHECKED BY:

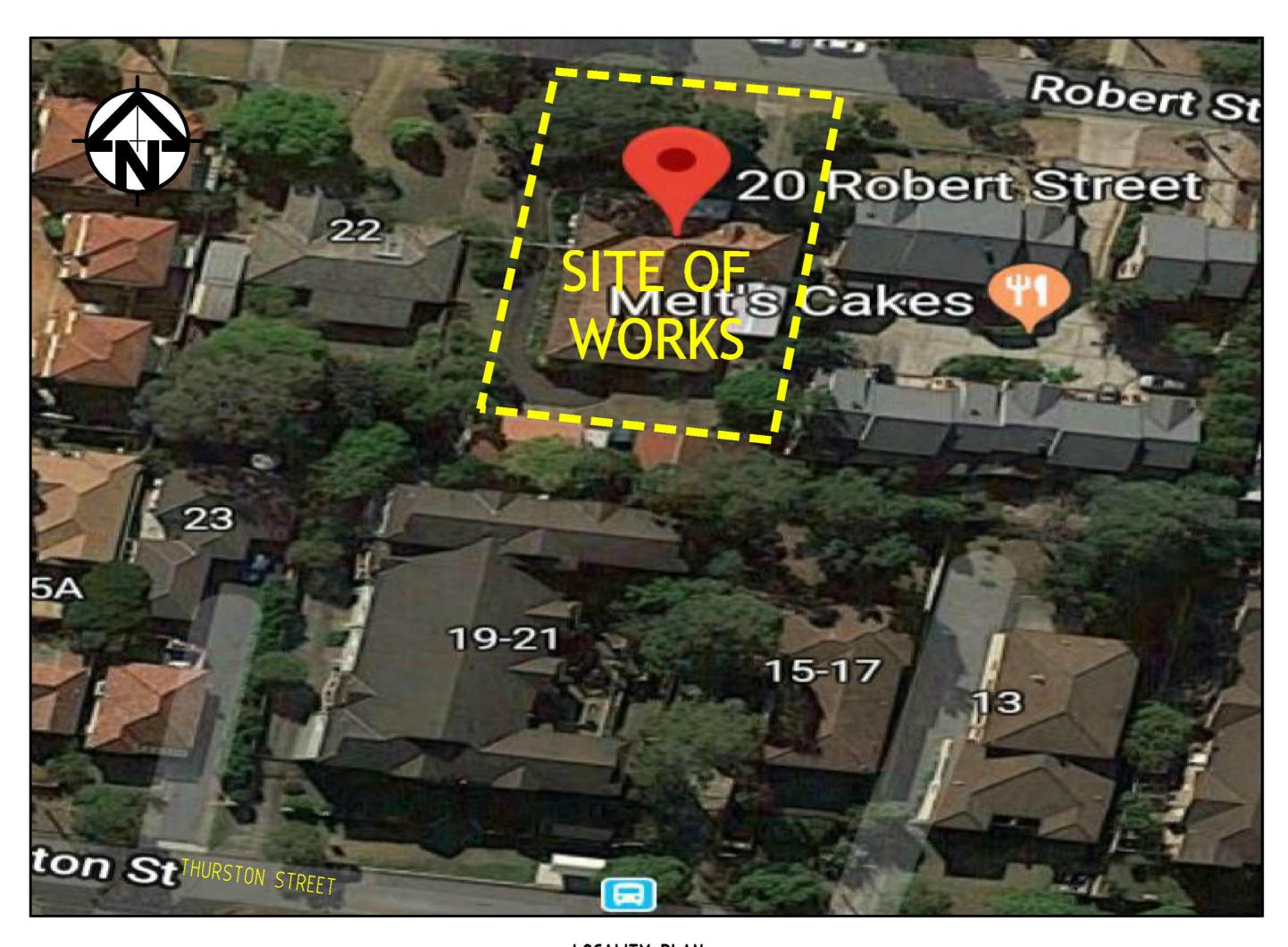
FG

PROJECT DETAIL: Proposed Residential Development at: 20 Robert Street, Penrith JOB NO: 170869 DATE: Apr 2017

LODGE AT: Penrith City Council

Version: 1, Version Date: 26/09/2018

PROPOSED RESIDENTIAL DEVELOPMENT 20 ROBERT STREET, PENRITH STORMWATER CONCEPT DESIGN



	DRAWING REGISTER		
SHEET No.	No.	TITLE	REV
1	SW100	COVER SHEET	Α
2	SW200	STORMWATER CONCEPT DESIGN - BASEMENT PLAN	A
3	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN	A
4	SW202	STORMWATER CONCEPT DESIGN - ROOF PLAN	A
5	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET	A
6	SW400	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	A
7	SW500	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN	A

LOCALITY PLAN

NOT TO SCALE

COPYRIGHT OF GOOGLE MAP, VERSION 3



PREPARED BY:

SGC Consulting Engineers
Suite 5.03, Level 5
156 Pacific Highway
St Leonards, NSW 2065
T: +61 2 8883 4239
F: +61 2 9672 6977
Email: office@sgce.com.au
Web: www.sgce.com.au

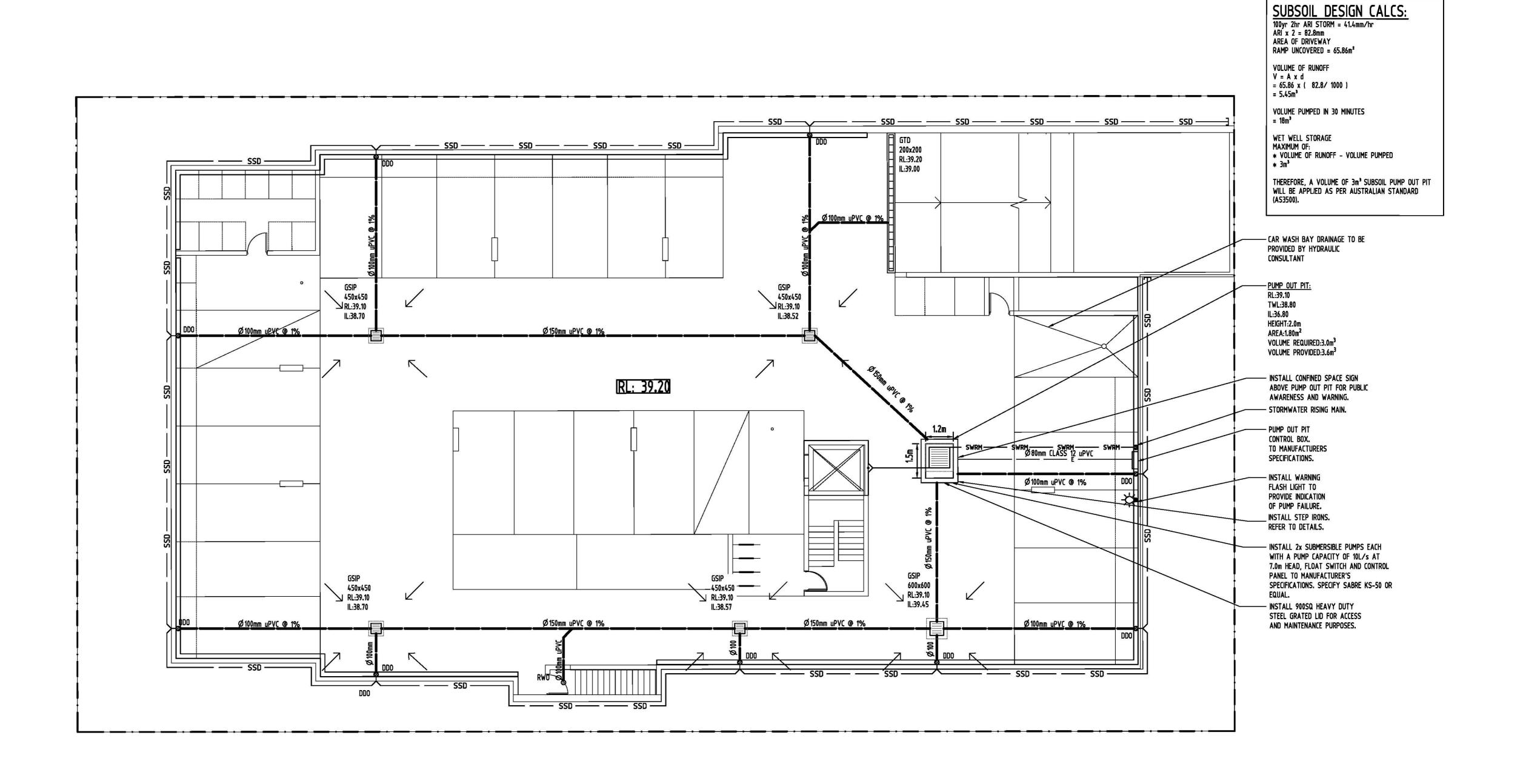
ARCHITECT:



CLIENT:

TONY ISAAC

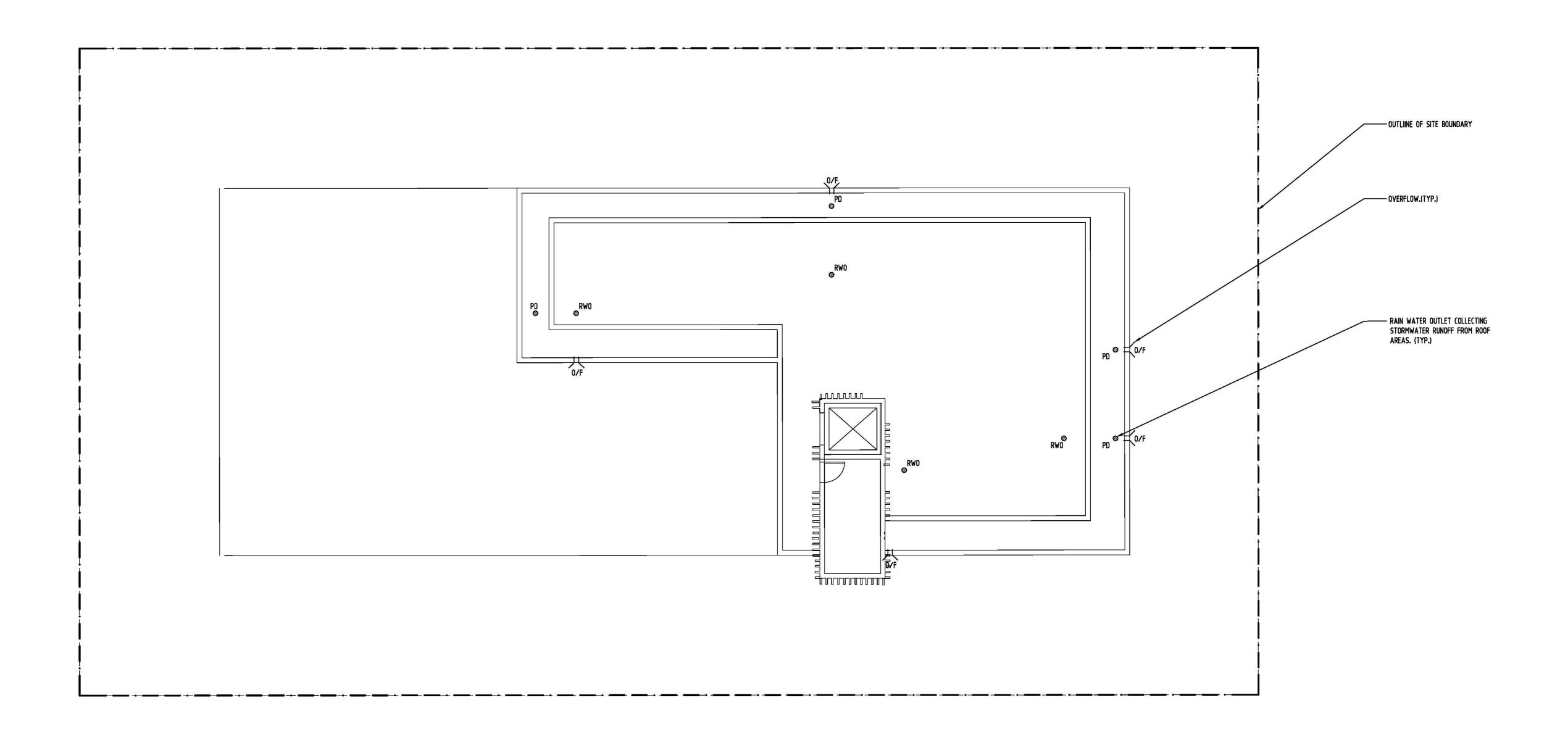






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POSITIONS OF AUTHORITIES MANIS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS. RESIDENTIAL DEVELOPMENT DATE 26.07.18 FZ 27.08.2018 2 MECH FZ 10.08.2018 1 ELEC T: +61 2 8883 4239 A SUBMISSION TO COUNCIL
P2 PRELIMINARY **BASEMENT PLAN** design cubicle 20 ROBERT STREET, PENRITH F: +61 2 9672 6977 DATE 26.07.18 Email: office@sgce.com.au FZ 26.07.2018 1 P1 PRELIMINARY Issue Last revision title by Date Status FIRE DATE 26.07.18 Web: www.sgce.com.au Issuer internal sequence and revision history Scale (at original size) DATE 26.07.18 APPROVED SH Engineering Value 3-construction certificate 2 of 7 1:100 @ A1 A.B.N. 21 118 222 530

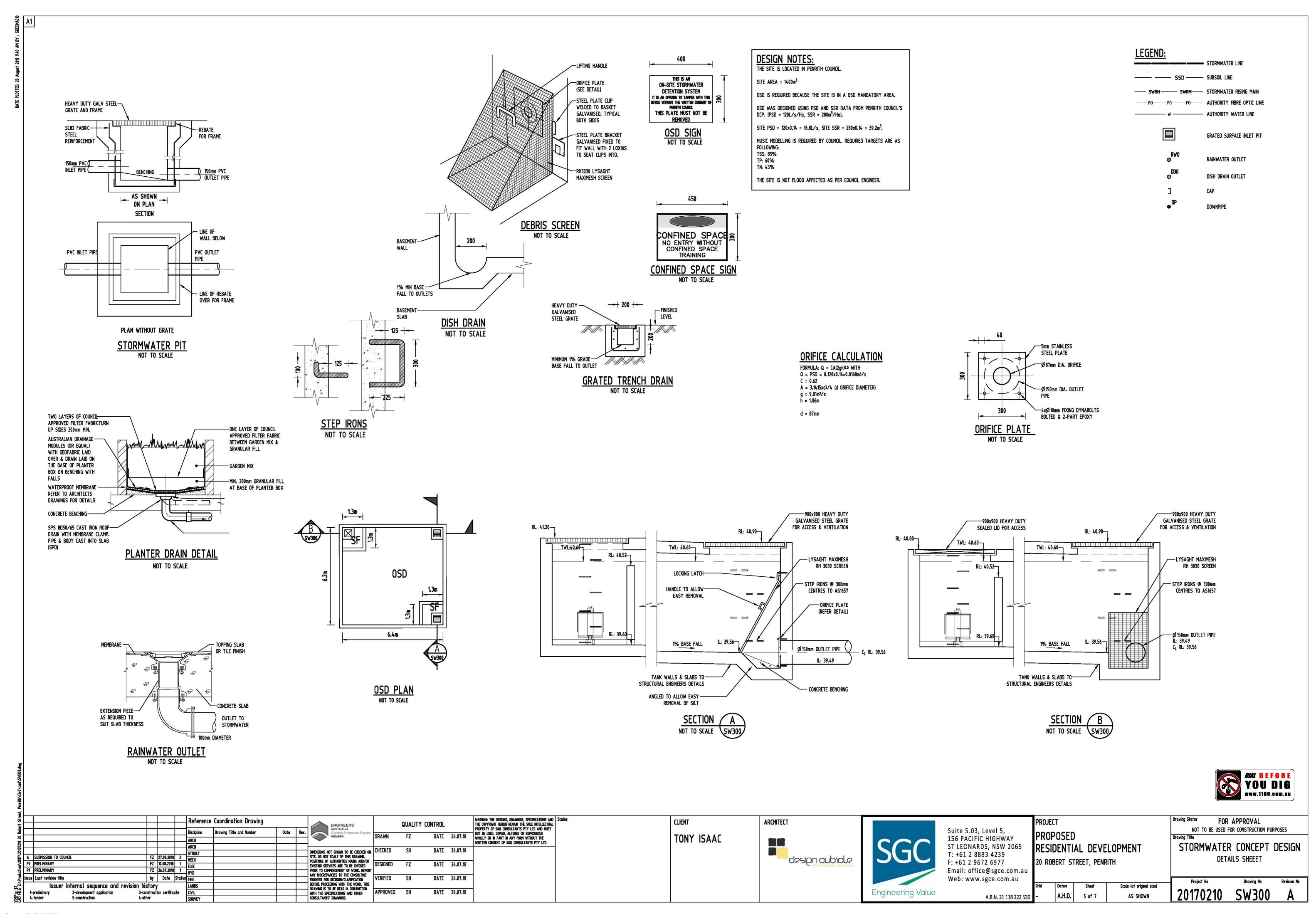


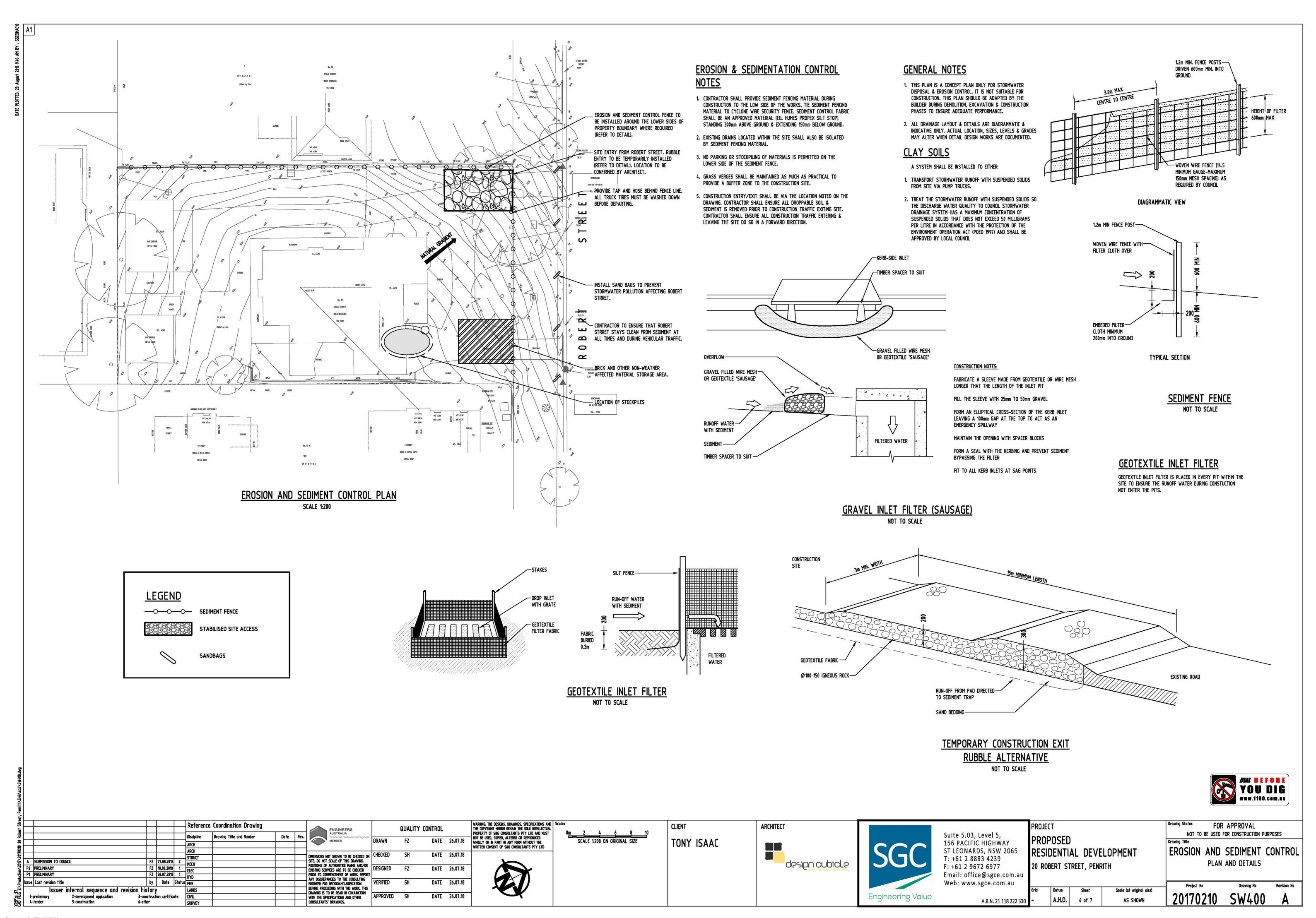


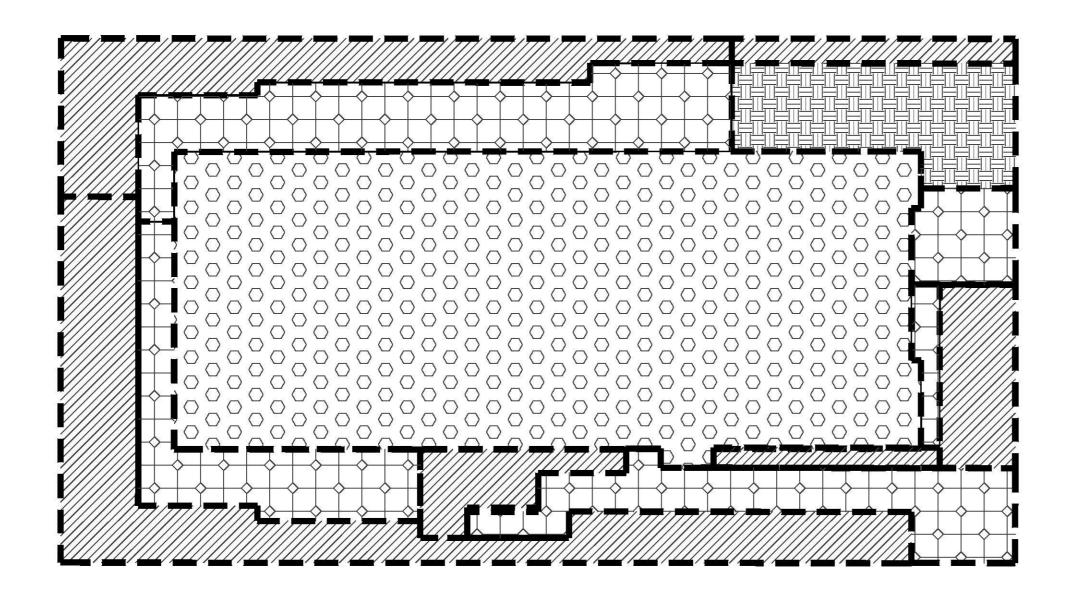


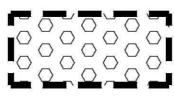
CONTROL

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POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK, REPORT ANY DISCREPANCES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS. RESIDENTIAL DEVELOPMENT FZ 27.08.2018 2 MECH
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FZ 26.07.2018 1 HYD DATE 26.07.18 T: +61 2 8883 4239 F: +61 2 9672 6977 A SUBMISSION TO COUNCIL
P2 PRELIMINARY
P1 PRELIMINARY **ROOF PLAN** design cubicle 20 ROBERT STREET, PENRITH DATE 26.07.18 Email: office@sgce.com.au Issue Last revision title by Date Status FIRE Web: www.sgce.com.au DATE 26.07.18 Issuer internal sequence and revision history Scale (at original size) Engineering Value DATE 26.07.18 4 of 7 1:100 @ A1 A.B.N. 21 118 222 530

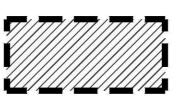




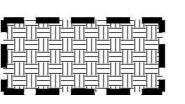




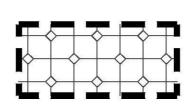
ROOF AREA (100% IMPERVIOUS,610m²) 310m² TO ENVIROPOD AND STORMWATER FILTER 310m² TO STORMWATER FILTER ONLY



LANDSCAPE AREA (100% PERVIOUS, 381m²) 258m² TO ENVIROPOD AND STORMWATER FILTER 123m² TO STORMWATER FILTER ONLY

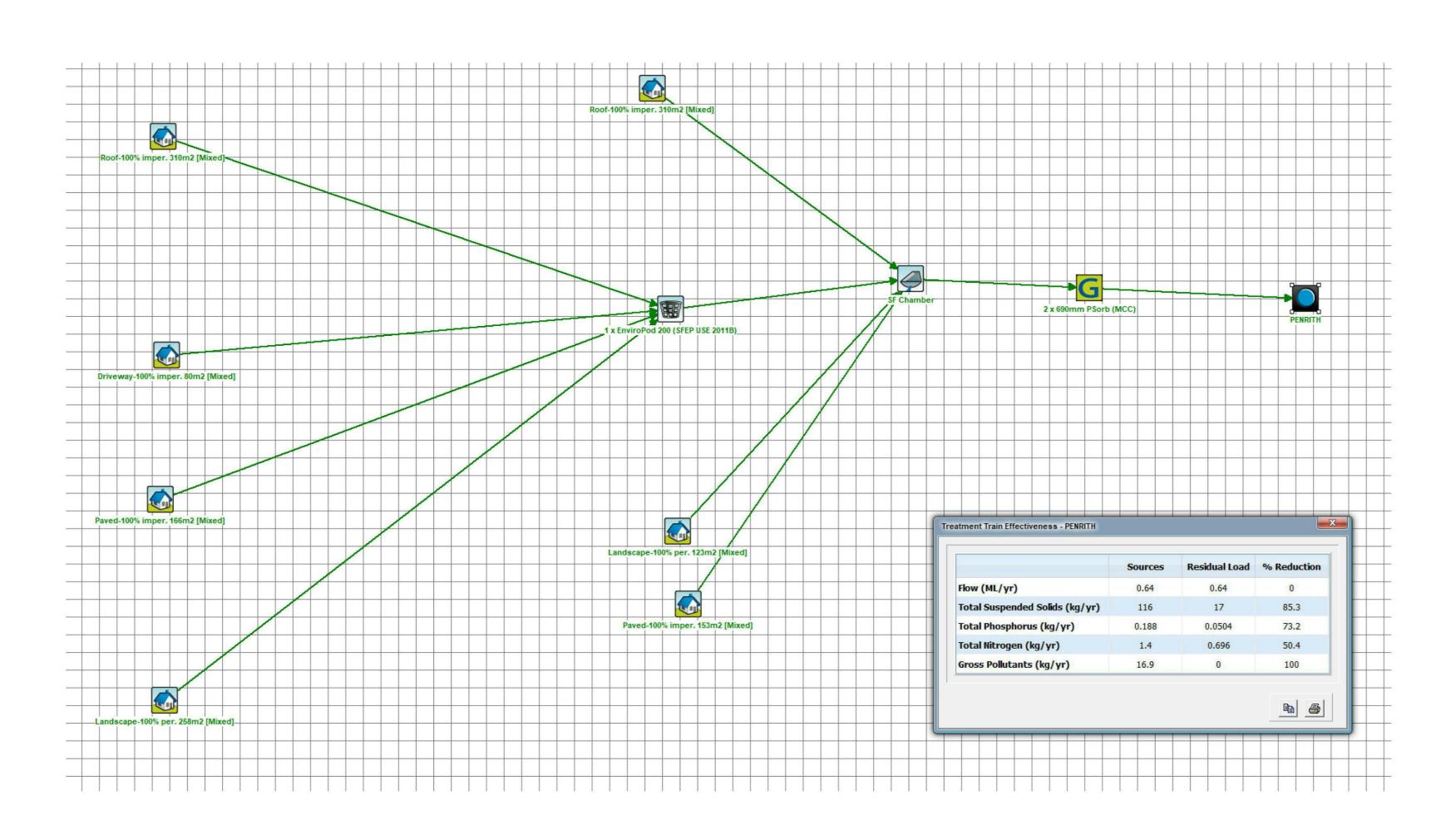


DRIVEWAY AREA TO ENVIROPOD AND STORMWATER FILTER (100% IMPERVIOUS, 80m²).



PAVED AREA (100% IMPERVIOUS, 319m²)
166m² TO ENVIROPOD AND STORMWATER FILTER
153m² TO STORMWATER FILTER ONLY

MUSIC MODEL SITE AREA BREAKUP SCALE 1:200





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POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK, REPORT ANY DISCREPANCES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION ENGINEER PROCEEDING WITH THE WORK, THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS. DATE 26.07.18 FZ 27.08.2018 2 MECH FZ 10.08.2018 1 ELEC T: +61 2 8883 4239 F: +61 2 9672 6977 A SUBMISSION TO COUNCIL
P2 PRELIMINARY MUSIC CATCHMENT PLAN design cubicle 20 ROBERT STREET, PENRITH DATE 26.07.18 Email: office@sgce.com.au P1 PRELIMINARY FZ 26.07.2018 1 Issue Last revision title by Date Status FIRE Web: www.sgce.com.au DATE 26.07.18 Issuer internal sequence and revision history Scale (at original size) Engineering Value DATE 26.07.18 APPROVED SH A.H.D. 7 of 7 1:100 @ A1 A.B.N. 21 118 222 530