



## **Proposed Residential Development at 20 Robert Street, Penrith**

### **Waste Management Plan**

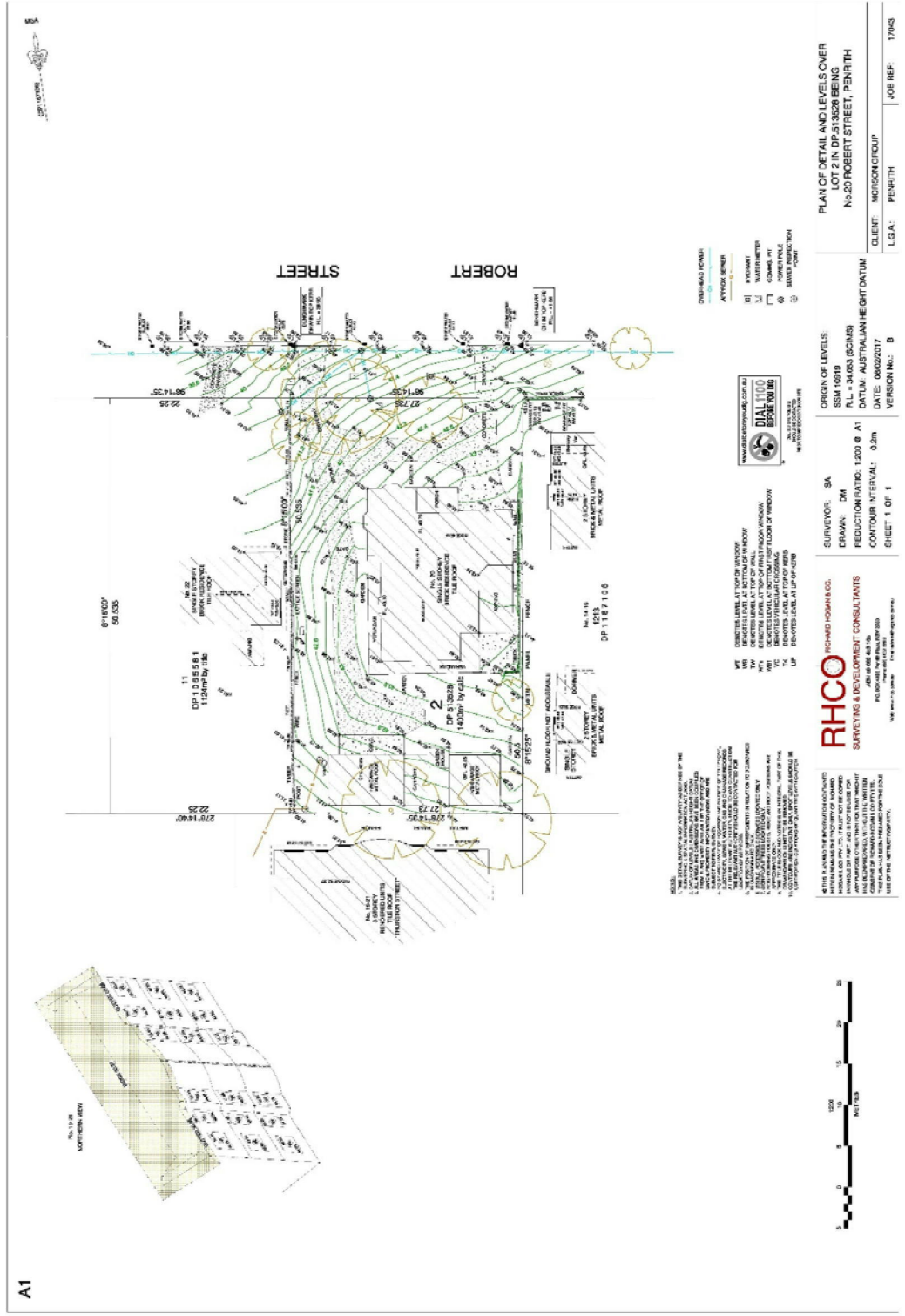
Prepared by: Design Cubicle Pty Ltd  
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Nominated Architect: Sam Min-Han Lu (#8842) • ABN: 47 116 316 333

# 1. EXISTING SURVEY PLAN



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## 2. OUTLINE OF PROPOSAL

Site Address: 20 Robert Street, Penrith

Applicant: R20 Pty Ltd, Penrith Robert Pty Ltd, Miaz Group Pty Ltd  
Mr Tony Isaac  
c/o Design Cubicle Pty Ltd  
44 Sorrell Street, North Parramatta, 2151

Phone: (02) 9683 2778

Buildings and other structures currently on the site:

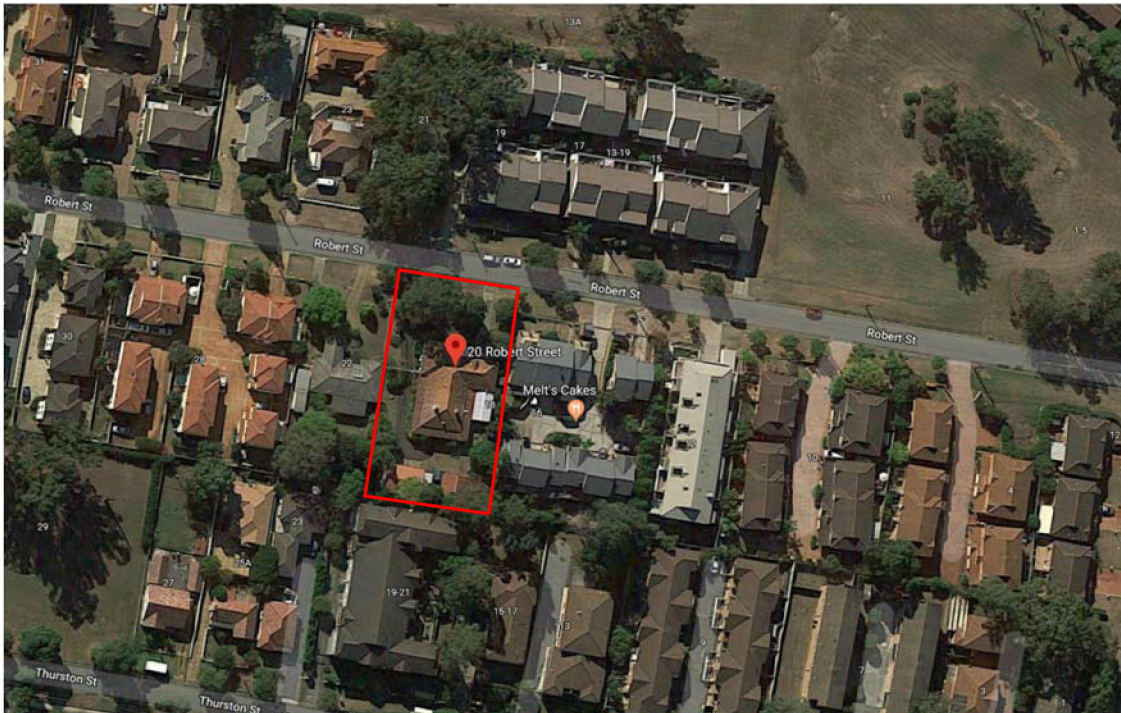
- 1 x single storey brick dwelling with tile roof
- 2 x weatherboard garages with metal roofs
- 1 x timber carport with plastic roof
- 1x timber greenhouse

Brief description of proposal:

Proposed part 3 / part 4 storey Residential Development complex with basement car parking. The building is comprised of 20 fully dedicated residential apartments.

The details provided on this form are for the intentions of managing waste relating to this project.

Signature of Applicant: \_\_\_\_\_ Date: \_\_\_\_\_



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### 3. DEMOLITION

This is the stage with the greatest potential for waste minimization, particularly in Sydney where there are high levels of development, relatively high tipping charges and where alternative quarry materials are located on the outskirts.

The application considers if it is possible to re-use existing building materials, or parts therefore, for the proposed use. With careful on-site sorting and storage and by staging work programs, it is possible to re-use many materials, either on-site or off. Instead of simply pulling down a building, this waste management plan encourages the practice of recycling on site. This could require a number of colour-coded or clearly labelled bins on-site rather than one size fits all.

- Location of on-site storage space for materials (for re-use) and containers for recycling and disposal will be directed on site by the builder
- Vehicle access to the site and to storage and container areas will be directed on site by the builder

MATERIALS ON-SITE		DESTINATION		
Type of Material	Estimated Vol. (m3) or Area (m2)	RE-USE AND RECYCLING		DISPOSAL Proposed contractor/ landfill site
		ON-SITE	OFF-SITE	
Excavation material	Nil	Nil	Nil	Nil
Green waste	15.6m <sup>3</sup>	Separated. Some chipped and stored on-site for re-use on landscaping.	Remainder to Aust. Native Landscapes P/L Badgerys Creek	Nil
Bricks	25.5m <sup>3</sup>	Clean and re-use lime mortar bricks for fill	Concrete mortar bricks to Brandown Crushing & Recycling Co.	Nil
Concrete	78m <sup>3</sup>	Crush concrete for temporary driveway	Concrete to Brandown Crushing & Recycling Co.	Nil
Timber – hardwood / pine	41m <sup>3</sup>	Re-use for formwork and studwork. Chip remainder for use in landscaping.	To stockpile at Brandown transfer station, by approved waste contractor	Nil
Weatherboard/ Fibro	4m <sup>3</sup>	Break-up and remove from site	To Brandown Recycling Facilities	Nil
Plasterboard	13m <sup>3</sup>	Break-up and remove from site	To Brandown Recycling Facilities	Nil
Metals – zinc / aluminium	2m <sup>3</sup>	Nil	To Selland Parker Metal Recyclers	Nil
Tiles, glass, plastics (inc. roof tiles)	11.5m <sup>3</sup>	Broken tiles for fill on-site. Recycle glass.	Remainder to Brandown Recycling Facilities	Nil
Kitchen cupboards, sink, & stove	x 1	Nil	To Brandown Recycling Facilities	Nil
Bathtub vanity and closet pan	x 2	Nil	To Brandown Recycling Facilities	Nil
Asbestos	Where found	Nil	To Kari & Ghossayn Land Fill by approved waste contractor	Kari & Ghossayn Waste Depot Clifton Ave, Kemps Creek

**Note:** Details of site area to be used for on-site separation, treatment and storage (including weather protection) are to be directed on site by the builder.

## 4. CONSTRUCTION

The following measures should have been considered when looking to save resources and minimise waste at the construction stage:

- Purchasing Policy – considering measures such as ordering the right quantities of materials and prefabrication of materials where possible;
- Reusing formwork;
- Minimising site disturbance, limiting unnecessary excavation;
- Careful source separation of off-cuts to facilitate re-use, re-sale or efficient recycling; and
- Co-ordination / sequencing of various trades

The following details are to be directed by the builder on site:

- Location of temporary storage space
- Location of Waste Storage and recycling area(s), garbage and recycling room
- Site office
- Access for vehicles
- Lunch shed
- Amenities shed

The allocated Waste Storage and recycling Area can be flexible in size and layout to cater for future changes in use. The size can be calculated on the basis of estimated waste generation rates and proposed bin sizes.

MATERIALS ON-SITE		DESTINATION		
Type of Material	Estimated Vol. (m3) or Area (m2)	RE-USE AND RECYCLING		DISPOSAL
		ON-SITE	OFF-SITE	Proposed contractor/ landfill site
Excavation material	4,263m <sup>3</sup>	Covered in section as part of demolition	To Kari & Ghossayn Land Fill (excess excavation)	Nil
Green waste	2.5m <sup>3</sup>	Covered in section as part of demolition	Remainder to Aust. Native Landscapes P/L Badgerys Creek	Nil
Bricks	2m <sup>3</sup>	Use for fill behind retaining walls	Remainder to Brandown Crushing & Recycling Co.	Nil
Concrete	3m <sup>3</sup>	Use for fill behind retaining walls & temporary access pathways	Remainder to Brandown Crushing & Recycling Co.	Nil
Timber – oregon / pine / timber pallets / particle board finishes	1.5m <sup>3</sup>	Chip for use in landscaping	Remainder to Aust. Native Landscapes P/L Badgerys Creek	Nil
Plasterboard	1.5m <sup>3</sup>	Re-use where required	Remainder to Boral Recycling 3 Thackery St, Camellia 2142	Nil
Metals – copper / aluminium	2m <sup>3</sup>	Nil	To Selland Parker Metal Recyclers for re-use	Nil
Other – electrical fittings, reject trade-ins, PVC plastics, cardboard, etc	3m <sup>3</sup>	Nil	Nil	To Collex Recycling Waste Contractors

**Note:** Details of site area to be used for on-site separation, treatment and storage (including weather protection) are to be directed on site by the builder.

## 5. PROPOSED ONGOING WASTE MANAGEMENT

Proposed design of facilities for ongoing waste and recycling management:

TYPE OF WASTE TO BE GENERATED	EXPECTED VOLUME PER WEEK	PROPOSED ON-SITE STORAGE & TREATMENT FACILITIES	DESTINATION
Example: glass, paper, food waste, off cuts, etc	Litre or m <sup>3</sup>	<ul style="list-style-type: none"> <li>Waste storage &amp; recycling area</li> </ul>	<ul style="list-style-type: none"> <li>Recycling</li> <li>Disposal</li> <li>Specify contractor</li> </ul>
<b>A. RECYCLABLES:</b> 1. Home paper / cardboard waste 2. Glass, aluminium and plastic (bottles)	18 dwellings per bin for an 1100L bin	There is to be a central garbage area located on the Ground Floor serviced by MGB storage, accessible to all tenants. The Private Waste Contractors will be responsible for transferring the bins from the central garbage area to their truck on the street for disposal on collection days, and back again to the Ground Floor bin room once emptied. There is to be no standing of bins on the kerb.	To be collected by Private Contractors
<b>B. NON-RECYCLABLES:</b> 1. Foodscraps, etc 2. Other plastics (eg. wrapping) 3. Unrecyclable waste	18 dwellings per bin for an 1100L bin	There is to be a central garbage area located on the Ground Floor serviced by MGB storage, accessible to all tenants. The Private Waste Contractors will be responsible for transferring the bins from the central garbage area to their truck on the street for disposal on collection days, and back again to the Ground Floor bin room once emptied. There is to be no standing of bins on the kerb.	To be collected by Private Contractors
<b>SUMMARY</b> (proposed 20 units) Required: <ul style="list-style-type: none"> <li>18 dwellings per bin for recycling (collected weekly)</li> <li>18 dwellings per bin for garbage (collected weekly)</li> </ul>	1.11 bins recycling  1.11 bins garbage	Provide: <ul style="list-style-type: none"> <li>2 x 1100 litre recycle MGB bins (weekly collection)</li> <li>2 x 1100 litre garbage MGB bins (weekly collection)</li> </ul>	To be collected by Private Contractors (weekly collection)  To be collected by Private Contractors (weekly collection)

**BULKY WASTE STORAGE:**

TYPE OF WASTE TO BE GENERATED	MIN. AREA REQUIRED	PROPOSED ON-SITE STORAGE & TREATMENT FACILITIES	DESTINATION
Example: glass, paper, food waste, off cuts, etc	m <sup>2</sup>	<ul style="list-style-type: none"> <li>▪ Waste storage &amp; recycling area</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recycling</li> <li>▪ Disposal</li> <li>▪ Specify contractor</li> </ul>
<p><b>BULKY WASTE:</b> For Larger items such as mattresses, as well as for bulky cardboard waste</p>	[Number of units x 8] / 52 (then rounded up)	There is to be a central fully enclosed bulky waste storage area located on the Ground Floor, with min. 1.8m wide doorway, 1.8m unobstructed access corridor & minimum room width of 1.8m to all internal walls.	To be collected by Private Contractors
<b>SUMMARY</b> (proposed 20 units)	Min. 3.08m <sup>2</sup> Rounded up to min. 4m <sup>2</sup>	There is to be a central fully enclosed bulky waste storage area located on the Ground Floor, with min. 1.8m wide doorway, 1.8m unobstructed access corridor & minimum room width of 1.8m to all internal walls.	To be collected by Private Contractors

**NOTE:** Details of on-site waste management facilities should be constructed or provided for as per plans and specifications, Council requirements & strata plan requirements.

In addition:

1. The Strata Management will prepare an Environmental Management System addressing home waste and recycling. This will include expectations and achievable objectives for sorting and separating waste. Also, a regular waste audit should be implemented.
2. An information kit for tenants followed up every 12 months.
3. The waste storage and recycling area will be located as approved by Council.
4. The tenant will be responsible for transferring refuse to the central garbage area on the Ground Floor, and the Strata Management will be responsible for keeping the area clean and tidy, through the Building Manager.
5. The Private Waste Contractors will be responsible for transferring the bins from the central garbage area on the Ground Floor to their truck on the street for disposal on collection days, and back again to the Ground Floor bin room once emptied. There is to be no standing of bins on the kerb.
6. The central garbage area located on the Ground Floor is to be accessible to tenants at all times.
7. Compost areas are to be maintained if & where allocated.
8. Rainwater tanks are to be regularly checked and maintained if & where provided.
9. Clear signage for sorting rubbish disposal is to be placed in bin storage areas.