## **Wollongong Local Planning Panel Assessment Report** | 3 July 2019

WLPP No.	Item No. 1
DA No.	DA-2018/1610
Proposal	Residential - Demolition of dwelling houses and tree removal, construction of multi dwelling housing - six (6) x townhouses and associated carparking, drainage and landscaping
Property	9 - 11 Bundarra Place, DAPTO NSW 2530
Applicant	Design Workshop Australia
Responsible Team	Development Assessment & Certification – City Wide Planning Team (RT)

#### ASSESSMENT REPORT AND RECOMMENDATION

#### **Executive Summary**

#### Reason for consideration by Wollongong Local Planning Panel (WLPP)

The proposal has been referred to the WLPP **for advice** pursuant to part 1 of Wollongong City Councils Submissions Policy, as the application includes multi-dwelling housing with a construction cost of more than \$1 Million and is the subject of more than five submissions by way of objection.

#### **Proposal**

The proposal seeks consent for the following:

- Demolition of the dwelling houses and tree removal; and
- Construction of multi-dwelling housing and associated carparking, drainage and landscaping.

#### Permissibility

The subject site is zoned R2 Low Density Residential pursuant to Wollongong Local Environmental Plan (WLEP) 2009. Multi-dwelling housing is permissible with consent in the R2 zone. Demolition and tree removal are ancillary works to facilitate the proposal and as such are also permissible.

#### Consultation

Details of the original proposal and subsequent amended plans were publicly exhibited in accordance with Appendix 1 of the Wollongong Development Control Plan (WDCP) 2009 over two (2) separate notification periods. Five (5) submissions were received from the first notification period.

A total of two (2) submissions were received from the second notification period. The second notification period was required following receipt of amended architectural plans that reoriented Units 4 to 6 on the site, reduced the size of Units 2,3 and 5 and increased the deep soil zone planting.

The issues identified are discussed at section 1.5 of this report

#### <u>Internal</u>

Details of the proposal were referred to Council's Stormwater, Traffic, Landscape, Environment and SCAT Officers for assessment. Satisfactory referral advice, comments and/or recommended conditions were provided in each instance. Assessment considerations of internal groups as relates to relevant Chapters of the WDCP 2009 are presented at section 2.3.1 of this report.

### **Main Issues**

The main issues resulting from the assessment process are:-

- Variation requests regarding the front setback development control in Chapter B1 Clause 5.3.2(1) and deep soil zone development control Chapter B1 Clause 5.9.2(2) of WDCP2009; and
- Car parking;

### **RECOMMENDATION**

DA-2018/1610 be approved subject to the conditions provided in **Attachment 5**.

#### 1.1 PLANNING CONTROLS

The following planning controls apply to the proposal:

#### **State Environmental Planning Policies:**

- SEPP No. 55 Remediation of Land
- SEPP (Building Sustainability Index: BASIX) 2004

#### Local Environmental Planning Policies:

Wollongong Local Environmental Plan (WLEP) 2009

#### **Development Control Plans:**

Wollongong Development Control Plan (WDCP) 2009

#### Other policies

Wollongong City Wide Development Contributions Plan 2018

#### 1.2 DETAILED DESCRIPTION OF PROPOSAL

The application comprises the following:

- Demolition of the existing dwellings and ancillary structures on the site and tree removals;
- Construction of multi-dwelling housing consisting of six (6) townhouses and associated drainage and carparking.

#### 1.3 BACKGROUND

The development history of the site is as follows:

PL-2018/22, Residential - dual occupancy and subdivision - torrens title -two lots - Completed

DA-2018/1071, Residential - demolition of garage and tree removals, Subdivision - Torrens title - two (2) lots, construction of dual occupancy on rear lot and Subdivision of dual occupancy - Torrens title - two (2) lots – Current Application

# Applications for 9 Bundarra Place, DAPTO NSW 2530 Status PL-2018/110, Residential - multi unit housing Completed

DA-2018/1610, Residential - Demolition of dwelling houses and tree removal, construction of multi dwelling housing - six (6) x townhouses and associated Current Application carparking, drainage and landscaping

# Applications for 11 Bundarra Place, DAPTO NSW 2530 BC-1990/705, Cottage PL-2018/110, Residential - multi unit housing Completed

DA-2018/1610, Residential - Demolition of dwelling houses and tree removal, construction of multi dwelling housing - six (6) x townhouses and associated Current Application carparking, drainage and landscaping

#### **Customer service actions:**

There are no outstanding customer service requests of relevance to the properties.

#### 1.4 SITE DESCRIPTION

The site is located at 9 and 11 Bundarra Place, DAPTO and the title reference is Lot 32 DP 32081 and Lot 31 DP 32081.

Situated on No.9 Bundarra Place is a single storey brick dwelling with a pitched iron roof. There is a detached garage to the rear of the dwelling. Situated on No.11 Bundarra Place is a single storey clad dwelling with a pitched iron roof. There is a small shed to the rear of the dwelling. The subject sites are accessed via driveways off Bundarra Place.

Both lots are irregular shaped allotments situated on the radius of a cul-de-sac. No.9 Bundarra Place has a site area of 739.8m<sup>2</sup> and No.11 Bundarra Place a site area of 853.7m<sup>2</sup> each making a combined site area of 1593.5m<sup>2</sup>. The site slopes to the front of the block.

The street scene in the immediate vicinity is characterised by low density residential dwellings predominantly of single storey construction. Adjoining development consists of single storey clad dwellings on either side.



Figure 1: Aerial photograph (2018)

#### **Property constraints**

Acid sulphate soils – Class 5

There are no restrictions on the title.

#### 1.5 SUBMISSIONS

Details of the original proposal and subsequent amended plans were publicly exhibited in accordance with Appendix 1 of the Wollongong Development Control Plan (WDCP) 2009 over two (2) separate notification periods. Five (5) submissions were received from the first notification period.

A total of two (2) submissions were received from the second notification period. The second notification period was required following receipt of amended architectural plans that reoriented Units 4 to 6 on the site, reduced the size of Units 2,3 and 5 and increased the deep soil zone planting. The main issues identified within the submissions are discussed below.

Table 1: Submissions	
Concern	Comment
1. Traffic and Parking	Consideration was given to traffic safety and parking in the assessment of the application. Details of the application were referred to Council's Traffic Officer for comment.
	Advice received indicates that the car parking, traffic generation, access and egress arrangements and manoeuvring are acceptable in this circumstance for the following reasons:
	<ul> <li>Council's DCP requires twelve (12) parking spaces for the proposed new development. The proposal provides twelve (12) onsite parking spaces.</li> </ul>
	<ul> <li>The proposed development satisfies Council's driveway cross over width controls thus minimising impacts on street parking spaces.</li> </ul>
	The proposed development will result in a maximum of 4 additional trips in and out in the a.m. and p.m. peak hours based on RMS rates. Therefore it is considered that the traffic generated by the proposed development will not be unreasonable in this circumstance, and is within the capacity of the local road network.
	<ul> <li>The proposed access arrangement will improve existing egress arrangements for the site by allowing vehicles to now leave the site in a forward facing direction.</li> </ul>
	<ul> <li>It is noted that during construction that workers will need to park near the site as with any development under construction. If there are any concerns the residents should consult with the Site Manager.</li> </ul>
	A condition as at <b>Attachment 5</b> accounts for all loading/unloading operations to take place at all times within the confines of the site or within the road reserve under an approved traffic control plan.
2. Impact on Services	With respect to concerns raised regarding impacts on the existing services, the water and sewer lines are a Sydney Water asset. Conditions as at <b>Attachment 5</b> account for documentary evidence of consultation with Sydney Water during the Construction Certificate and for the application to obtain a Section 73 Compliance Certificate from Sydney Water. These conditions allow Sydney Water to determine the availability of water and sewer services to the new development and if any works are required to extend, adjust or connect services and to protect Sydney Water assets.
	With respect to other services, conditions at

**Attachment 5** require the submission of documentary evidence from the relevant authorities relating to the

Con	ncern		Comment
			connection of electricity and telecommunications to service the proposed lots.
3.	Impact on Existing Landscaping	Trees and	Concerns were raised by Council's Landscape Officer with regard to impacts on existing trees to be retained including Tree 2 and the provision of deep soil zone planting. Amended Architectural Plans and Landscape Plans reducing impacts on trees considered worthy of retention through amendments to the footprint of the development and increasing the provision of deep soil zone planting on the site were provided by the applicant. These amended plans and documentation have been reviewed by Council's Landscape Officer and are considered to resolve concerns raised
			Landscaping conditions are included at <b>Attachment 5</b> specifying trees to be removed, trees to be retained, compensatory plantings and tree protection and management.
4.	Character of the Area		Chapter D1 indicates that The residential areas in Dapto are likely to experience some redevelopment with some older dwelling stock being replaced by larger contemporary single or two storey dwellings. Medium density villa or townhouse developments are supportable in areas within close proximity to the Dapto Town Centre.
			The proposal provides for replacement of older dwelling stock with medium density townhouse development with in close proximity to the Dapto Town Centre, approximately 450m from Dapto Mall.
			Development within the immediate vicinity of the subject site is characterised by low density residential development with some medium density development located on other streets within the vicinity.
			The proposed development satisfies Council's Floor Space Ratio and Building Height development standards as identified in the WLEP 2009. Overall the bulk and scale of the proposed development is considered acceptable in this circumstance.
			The proposed development is a permissible use in the R2 zone and satisfies controls for multi-dwelling housing development under Wollongong Development Control Plan 2009. The proposal is considered to not detract from the existing character of Dapto and is compatible with the desired future character for the locality.
5.	Waste		Council's street waste collection service is to be utilised. It is noted that a garbage compactor is proposed with this development so as to minimise the number of bins required for the development and impacts on street

Concern	Comment
	parking on garbage collection days. Council's Traffic Officer has reviewed the proposal providing conditionally satisfactory referral advice.
6. Garbage Compactor	Consideration was given to the proposed garbage compactor and its impacts on the adjoining residences.
	Additional information was requested by Council regarding the specifications and operational times of the proposed garbage compactor so as to enable a more complete assessment. The additional information has been reviewed by Council's Environment Officer and is considered to be conditionally satisfactory.
	Conditions as at <b>Attachment 5</b> specify hours of operation and compliance with NSW EPA Noise and/or acoustic treatment.
7. Stormwater	Concerns were raised by Council's Stormwater Officer regarding stormwater management on the site. Amended stormwater management and landscape plans were submitted and have been reviewed by Council's Stormwater Officer. Advice received indicates that the stormwater drainage design is considered to be conditionally acceptable. The stormwater drainage design is in accordance with WDCP2009 Chapter E14 and incorporates On Site Detention (OSD) so as to limit the flow rate and ensure there is no increase in flow rates from the site. The OSD will ensure that runoff volumes will discharge at a controlled rate.
	Conditions as at <b>Attachment 5</b> account for the OSD design and stormwater run-off from the proposed development such that is not directed so as to have an adverse effect on adjoining properties.
8. Size of Development (Yield)	The proposed development satisfies Council's Floor Space Ratio and Building Height development standards as identified in the WLEP 2009, and overall the bulk and scale of the proposed development is considered acceptable in this circumstance.
	The proposal it is considered satisfies the controls for multi-dwelling housing development under WDCP 2009.
	The development has been designed so as to minimise impacts on the site and surrounding properties. Inherent site constraints in the form existing mature vegetation have been considered such that significant trees on the subject site are retained and impacts on trees on adjoining properties are minimised.
	Therefore it is considered that the size of the development as proposed is acceptable in this circumstance.

Concern		Comment
9.	Safety and Security	An assessment of the proposal against Council's Crime Prevention Through Environmental Design principles was undertaken and the proposal considered satisfactory - see section <b>Attachment 3</b> .

Table 2: Number of concerns raised in submissions

Concern	1	2	3	4	5	6	7	8	9
Frequency	5	4	1	2	4	3	4	2	1

#### 1.6 CONSULTATION

#### 1.6.1 INTERNAL CONSULTATION

#### **Stormwater Engineer**

Council's Stormwater Officer has assessed the application submission and provided conditionally satisfactory advice.

#### **Traffic Engineer**

Council's Traffic Officer has assessed the application submission and provided conditionally satisfactory advice.

Concerns were raised by Council with regard to the number of parking spaces provided for the proposed development and the location of the bicycle parking spaces. Amended Architectural Plans were submitted reducing the Gross Floor Area of Units 2 to 5 thus reducing the number of parking spaces required and relocating the bicycle parking spaces internally to the garages. These amended plans have been reviewed by Council's Traffic Officer and are considered to resolve concerns raised.

Conditions are included at **Attachment 5** specifying the number of carparking spaces to be provided and access provisions and bicycle parking facilities.

#### **Landscape Officer**

Council's Landscape Officer has assessed the application submission and provided conditionally satisfactory advice.

It is noted that particular consideration was given to tree removal and impacts of the proposed development on trees to be retained by Council's Landscape Officer.

Concerns were raised by Council's Landscape Officer with regard to impacts on existing trees to be retained and the provision of deep soil zone planting. Amended Architectural Plans and Landscape Plans reducing impacts on trees considered worthy of retention through amendments to the footprint of the development and increasing the provision of deep soil zone planting on the site were provided by the applicant. These amended plans and documentation have been reviewed by Council's Landscape Officer and are considered to resolve concerns raised

Landscaping conditions are included at **Attachment 5** specifying trees to be removed, trees to be retained, compensatory plantings, tree protection and management.

#### **Environment Officer**

Council's Environment Officer has assessed the application submission with particular consideration given to noise impacts from the proposed garbage compactor and provided conditionally satisfactory advice.

Conditions are included at **Attachment 5** specifying noise and operational management measures for use of the garbage compactor.

#### Safer Community Action Team (SCAT) Officer

Council's SCAT officer has assessed the application submission and considered it conditionally satisfactory.

#### 1.6.1 EXTERNAL CONSULTATION

There was no external consultation required for the proposed development.

#### 2 ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979 – 4.15 EVALUATION

#### 2.1 SECTION 4.15(1)(A)(1) ANY ENVIRONMENTAL PLANNING INSTRUMENT

#### 2.1.1 STATE ENVIRONMENTAL PLANNING POLICY NO. 55 – REMEDIATION OF LAND

#### 7 Contamination and remediation to be considered in determining development application

- (1) A consent authority must not consent to the carrying out of any development on land unless:
  - (a) it has considered whether the land is contaminated, and
  - (b) if the land is contaminated, it is satisfied that the land is suitable in its contaminated state (or will be suitable, after remediation) for the purpose for which the development is proposed to be carried out, and
  - (c) if the land requires remediation to be made suitable for the purpose for which the development is proposed to be carried out, it is satisfied that the land will be remediated before the land is used for that purpose.

A desktop audit of the subject site revealed there is no previous history of land uses that could be considered to present as a contamination risk. The earthworks are considered minor, reflective of normal residential construction and the proposal does not comprise a change of use. A desktop audit of the subject site revealed there is no previous history of land uses that could be considered to present as a contamination risk. No concerns are raised in regard to contamination as relates to the intended use of the land and the requirements of clause 7.

The site is therefore considered suitable for the proposed development and consistent with the assessment considerations of SEPP 55.

#### 2.1.2 STATE ENVIRONMENTAL PLANNING POLICY (BUILDING SUSTAINABILITY INDEX: BASIX) 2004

SEPP BASIX applies to the development. In accordance with Schedule 1 of the Regulations and the requirements of the SEPP, a BASIX Certificate has been submitted in support of the application demonstrating that the proposed development achieves the BASIX targets.

#### 2.1.4 WOLLONGONG LOCAL ENVIRONMENTAL PLAN 2009

#### **Part 1 Preliminary**

#### Clause 1.4 Definitions

**Demolition:** In relation to a building means wholly or partly destroy, dismantle or deface the building.

**Multi dwelling housing** means 3 or more dwellings (whether attached or detached) on one lot of land, each with access at ground level, but does not include a residential flat building.

Note. Multi dwelling housing is a type of residential accommodation

#### Part 2 Permitted or prohibited development

#### Clause 2.2 – zoning of land to which Plan applies

The zoning map identifies the land as being zoned R2 Low Density Residential.



Figure 2: WLEP 2009 zoning map

### Clause 2.3 – Zone objectives and land use table

The objectives of the zone R2 Low Density Residential are as follows:

- To provide for the housing needs of the community within a low density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.

It is considered that the proposed dual occupancy is generally satisfactory with regards to the above objectives for Zone R2 Low Density Residential.

The land use table permits the following uses in the zone.

#### **ZONE R2 Low Density Residential permitted uses:**

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Boat launching ramps; Child care centres; Community facilities; Dual occupancies; Dwelling houses; Environmental facilities; Exhibition homes; Exhibition villages; Group homes; Health consulting rooms; Hospitals; Hostels; Information and education facilities; Jetties; **Multi dwelling housing**; Neighbourhood shops; Places of public worship; Recreation areas; Recreation facilities (indoor); Recreation facilities (outdoor); Residential flat buildings; Roads; Semi-detached dwellings; Seniors housing; Shop top housing; Signage; Veterinary hospitals

The proposal is categorised as multi-dwelling housing and is permissible in the R2 Low Density Residential zone with development consent. Demolition and tree removal are ancillary works to facilitate the proposal and as such are also permissible.

#### Clause 2.7 Demolition requires development consent

Demolition of a building may be carried out only with development consent. The demolition of the existing detached garage on the land is required to facilitate access to the development as proposed.

#### Part 4 Principal development standards

#### Clause 4.3 Height of buildings

The following proposed building heights do not exceed the maximum building height of 9m permitted for the site:

- Unit 1: 7.274m
- Unit 2: 7.052m
- Unit 3: 6.936m
- Unit 4: 6.734m.
- Unit 5: 6.671m
- Unit 6: 7.211m

#### Clause 4.4 Floor space ratio

Maximum FSR permitted for the site: 0.5:1

Resultant FSR provided for Site: 733..014m<sup>2</sup>/1593.5m<sup>2</sup> = 0.46:1

The proposed floor space ratio does not exceed the maximum permissible for the site.

#### Part 7 Local provisions - general

#### Clause 7.1 Public utility infrastructure

The proposal has been assessed against Clause 7.1 of WLEP2009 and it is considered that the subject site is already serviced by public utilities which can be augmented to service the new proposal.

#### Clause 7.5 Acid Sulfate Soils

The subject site is identified as being affected by Class 5 acid sulphate soils. However as the proposed works for the development are to be located at and above 18m A.H.D and are not likely to lower the water table beyond 1m it is considered that there is minimal impact.

#### Clause 7.6 Earthworks

Earthworks associated with the proposal are considered minor, reflective of normal residential construction and thus acceptable in this circumstance.

#### Clause 7.14 Minimum site width

The proposal involves multi-dwelling housing. The subject site consists of two (2) lots situated on the radius of a cul-de-sac with a combined overall frontage of approximately 27.432m at the front boundary and 46.03m at the rear boundary. A condition as **Attachment 5** will require the consolidation of these two (2) lots prior to the issue of the Occupation Certificate. Submitted plans indicate that no part of the proposed development is located on a part of the site with a minimum site width of less than 18m. Therefore the proposed development is considered to satisfy Part 7.14 of WLEP2009 in this circumstance.

#### 2.2 SECTION 4.15(1)(A)(II) ANY PROPOSED INSTRUMENT

None applicable to the site or proposed development.

#### 2.3 SECTION 4.15(1)(A)(III) ANY DEVELOPMENT CONTROL PLAN

#### 2.3.1 WOLLONGONG DEVELOPMENT CONTROL PLAN 2009

The development has been assessed against the relevant chapters of WDCP 2009. Compliance tables can be found at **Attachment 3** to this report. The proposal does involve variations to the front setback control for Unit 1 and the deep soil zone. Variation request statements with justification have been provided by the applicant in accordance with clause 8 of Chapter A1 of WDCP 2009 and

are included at **Attachment 4**. The variation has been considered and is capable of support in this instance as discussed within **Attachment 3** of this report.

#### 2.3.2 WOLLONGONG CITY WIDE DEVELOPMENT CONTRIBUTIONS PLAN 2018

The estimated cost of works is \$1,500,000 and a levy of 1% is applicable under this plan as the threshold value is \$100,000.

# 2.4 SECTION 4.15(1)(A)(IIIA) ANY PLANNING AGREEMENT THAT HAS BEEN ENTERED INTO UNDER SECTION 7.4, OR ANY DRAFT PLANNING AGREEMENT THAT A DEVELOPER HAS OFFERED TO ENTER INTO UNDER SECTION 7.4

There are no planning agreements entered into or any draft agreement offered to enter into under S7.4 which affect the development

# 2.5 SECTION 4.15(A)(IV) THE REGULATIONS (TO THE EXTENT THAT THEY PRESCRIBE MATTERS FOR THE PURPOSES OF THIS PARAGRAPH)

<u>92</u> What additional matters must a consent authority take into consideration in determining a development application?

A condition at Attachment 5 requires compliance with AS 2601 for demolition works.

#### 93 Fire safety and other considerations

Not applicable as there is no change of use proposal.

94 Consent authority may require buildings to be upgraded

Not applicable

#### 2.6 SECTION 4.15(1)(B) THE LIKELY IMPACTS OF DEVELOPMENT

#### Context and Setting:

In regard to the matter of context, the planning principle in Project Venture Developments v Pittwater Council [2005] NSWLEC 191 is relevant in that it provides guidance in the assessment of compatibility. The two major aspects of compatibility are physical impact and visual impact. In assessing each of these the following questions should be asked:

- Are the proposals physical impacts on surrounding development acceptable? The physical impacts include constraints on the development potential of surrounding sites.
- Is the proposals appearance in harmony with the buildings around it and the character of the street?

In response to the first question, matters such as overshadowing, privacy concerns, bulk scale and setbacks are relevant. The proposed development is for a development involving demolition of existing structures and multi-dwelling housing development. The proposed lots allow for reasonable siting of the proposed dwellings to satisfy the objectives of Council's boundary setback requirements so as to have minimal impact on the adjoining properties in terms of privacy and overshadowing and to allow reasonable solar access to the proposed dwellings.

In regard to the visual impact, the development is considered to be largely in harmony with the surrounding character the area. The immediate area surrounding the site is characterised by low density residential development of varying architectural styles. The proposed development satisfies Council's Floor Space Ratio and Building Height development standards as identified in the WLEP 2009, and overall the bulk and scale of the proposed development is considered acceptable in this circumstance.

The scale of the development as viewed from the street is considered comparable to the future

#### desired character of the locality.

In summary, the proposal has been assessed with regard to the amenity impacts from the development, the zoning, permissible lot size and existing and future character of the area, and is considered to be compatible with the local area.

#### Access, Transport and Traffic:

Access to the site will be via an approved driveway to Council's formed roadway which adjoins Council's Local Road. The development is considered not to result in an adverse impact on the traffic movement and access to the site. Council's Traffic Officer has no objections to the proposed access arrangements subject to conditions included at **Attachment 5**.

#### **Public Domain:**

The development is considered to be consistent with the amenity of the locality, the development is not considered to result in significant impact on the public domain.

#### **Utilities:**

The proposal is not envisaged to place an unreasonable demand on utilities supply. Existing utilities can be augmented to service the proposal.

#### Heritage:

No heritage items will be impacted by the proposal.

#### Other land resources:

The proposal is considered to contribute to orderly development of the site and is not envisaged to impact upon valuable land resources.

#### Water:

The site is presently serviced by Sydney Water, and the proposal is not envisaged to have unreasonable water consumption. A BASIX certificate has been provided for the proposal.

#### Soils:

It is expected that, with the use of appropriate erosion and sedimentation controls during construction, soil impacts will not be unreasonably adverse.

The soil profile is considered to be acceptable for the construction of the proposed development.

#### Air and Microclimate:

The proposal is not expected to have a negative impact on air or microclimate.

#### Flora and Fauna:

Trees are proposed to be removed as part of this proposal to make way for the proposed development. The proposal is not expected to adversely impact fauna. Council's Landscape and Environment Officers have reviewed the application submission including the Arborist report and Landscape Plan and raised no issues with the proposed removal of the trees subject to conditions at **Attachment 5** that specify trees to be removed, trees to be retained, tree protection and management and compensatory plantings.

Conditions are included at that account for inspection of trees for wildlife prior to removal, contacting WIRES for advice and protection of wildlife during tree removal.

#### Waste:

Waste management during construction can be managed through proper arrangements. A condition is proposed requiring the use of an appropriate receptacle for any waste generated during the construction and compliance with the Site Waste Management and Minimisation Plan provided with

#### the Application submission.

Council's street waste collection service is to be utilised for the development once occupied. A garbage compactor is proposed with this development so as to minimise the number of bins required for the development and impacts on street parking on garbage collection days. Council's Traffic and Environment Officers have reviewed the proposal providing conditionally satisfactory referral advice.

#### Energy:

The proposal is not envisaged to have unreasonable energy consumption. A BASIX certificate has been provided for the proposal.

#### Noise and vibration:

Noise and vibration impacts during demolition, excavation and construction are unavoidable. If the development is approved, a suite of conditions are recommended for imposition (see **Attachment 5**) to minimise nuisance during demolition and construction and operation of the garbage compactor.

#### Natural hazards:

There are no natural hazards affecting the site that would prevent the proposal.

## Technological hazards:

There are no technological hazards affecting the site that would prevent the proposal.

The proposal is identified as being affected by class 5 acid sulphate soils. The application submission has been assessed in this regard and is considered satisfactory. It is considered that there is minimal impact and threat presented by Acid Sulphate Soils.

#### <u>Safety, Security and Crime Prevention:</u>

This application does not result in greater opportunities for criminal or antisocial behaviour.

#### Social Impact:

The proposal is not expected to create negative social impacts.

#### **Economic Impact:**

The proposal is not expected to create negative economic impacts.

#### Site Design and Internal Design:

The application does not result in any departures from WLEP 2009 development standards. The application identifies variations to the front setback development control in Chapter B1 Clause 5.3.2(1) and\_deep soil zone development control Chapter B1 Clause 5.9.2(2)\_of WDCP2009. These variations have been considered in section 2.3.1 as being adequately justified and are thus capable of support.

#### **Construction:**

Conditions of consent are recommended in relation to construction impacts such as hours of work, erosion and sedimentation controls, works in the road reserve, excavation, demolition and use of any crane, hoist, plant or scaffolding.

A condition will be attached to any consent granted that all works are to be in compliance with the Building Code of Australia.

#### **Cumulative Impacts:**

The development is considered consistent with the amenity of the neighbourhood and to be consistent with the surrounding development.

## 2.8 SECTION 4.15(1)(C) THE SUITABILITY OF THE SITE FOR DEVELOPMENT

Does the proposal fit in the locality?

The proposal is considered appropriate with regard to the zoning of the site and is not expected to result in negative impacts on the amenity of the locality or adjoining developments.

Are the site attributes conducive to development?

There are no site constraints that would prevent the proposal.

## 2.9 SECTION 4.15(1)(D) ANY SUBMISSIONS MADE IN ACCORDANCE WITH THIS ACT OR THE REGULATIONS

See section 1.5 of this report.

#### 2.10 SECTION 4.15(1)(E) THE PUBLIC INTEREST

The proposal is not expected to result in unreasonable impacts on the environment or the amenity of the locality. It is considered appropriate with consideration to the zoning and the character of the area and is therefore considered to be in the public interest.

#### 3 CONCLUSION

The proposed development has been assessed with regard to the relevant prescribed matters for consideration outlined in Section 4.15 of the Environmental Planning & Assessment Act 1979, the provisions of Wollongong Local Environmental Plan 2009 and all relevant Council DCPs, Codes and Policies and found to be satisfactory.

Multi-dwelling housing is permitted in the R2 land use zone with development consent pursuant to the WLEP 2009. The proposal does not result in exceptions to development standards.

The proposal does involve a variation to the front control for Units 1 and deep soil zone control. Variation request statements with justification have been provided by the applicant in accordance with clause 8 of Chapter A1 of WDCP 2009. The variations have been considered and are capable of support in this instance as discussed within section 2.3.1 of this report.

The design of the development is appropriate with regard to the controls outlined in the Wollongong DCP 2009.

Some of the issues raised in the public submissions have been resolved by the applicant in the submission of amended plans/additional information. Any unresolved issues are not considered sufficient to warrant refusal of the application.

All internal referrals are conditionally satisfactory and there are no outstanding issues.

It is considered that the proposed development is unlikely to result in adverse impacts on the character or amenity of the surrounding area, environment and adjoining development.

#### 4 RECOMMENDATION

DA-2018/1610 be approved pursuant to Section 4.16(1) of the Environmental Planning & Assessment Act 1979 subject to the conditions provided at **Attachment 5**.

#### **5 ATTACHMENTS**

1	Plans and Arborist Report
2	Site Inspection Photos
3	Compliance table for Wollongong Development Control Plan 2009
4	Clause 8 Variation to Development Control Statements
5	Conditions

# PN1752 - 9-11 BUNDERRA PLACE, DAPTO

## **BUCHANAN/PERRETT**

## SITE ADDRESS

LOT 31 & 32, 9-11 BUNDERRA PLACE, DAPTO

## **SITE AREA**

1593.4sqm TOTAL

## **SUMMARY**

GFA	TOTAL ALLOWABLE	796.70 sgm	UNIT - 1	129.5m2
ai A	TOTAL PROPOSED	720.6 sgm	UNIT - 2	109.9m2
	TOTALTHOTOGED	720.0 3qm	UNIT - 3	109.6m2
FSR	ALLOWABLE	0.50: 1	UNIT - 4	109.9m2
1 011	PROPOSED	0.45 : 1	UNIT - 5	109.9m2
	THOTOGED	0.43 . 1	UNIT - 6	132.6m2

LANDSCAPED AREA PROPOSED 628.5 sqm (39%) PROPOSED 384 sqm (24%) DEEP SOIL AREA

CARPARKING REQUIRED RESIDENTIAL

(1.0 SPACES PER UNIT <70sqm) (1.5 SPACES PER UNIT 70-110sqm) UNIT 70-110sqm)

(2.0 SPACES PER UNIT 110>sqm)

(0.2 SPACES PER UNIT)

CARPARKING PROVIDED 10 RESIDENTIAL

VISITORS

MOTORBIKE SPACES PROVIDED RESIDENTIAL

BICYCLE SPACES PROVIDED RESIDENTIAL VISITOR

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GEOTECHNICAL	DOUGLAS PARTNERS	ARTHUR CASTRISSIOS	02 4271 1836	arthur.castrissios@douglaspartners.com.au
LANDSCAPE	BILL MUIR LANDSCAPE ARCHITECT	BILL MUIR	0411 774 051	bill.la@optusnet.com.au
TRAFFIC CONSULTANT	ATB CONSULTING ENGINEERS	GORAN UGRINOVSKI	4226 6646	goran@atbconsulting.com.au
PLANNING CONSULTANT	MMJ	LUKE ROLLINSON		luke.rollinson@mmj.com.au

WARWICK VARLEY

0402 763 414

**ARBORIST** 

Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, relevant consultant information as per council DA requirements. Feasibility completed based on information provided by client.

ALLIED TREES CONSULTING

All parking and ramps to traffic engineers details.					
REF. DATE AMENDMENT Q 16.04.2019 Consultants  DISCLAIMER All dimensions are in millimeters. Verify all dimensions on site prior to commencement of any work. Copyright of DWA.	Legend:   RENDERED BRICKWORK   S STONEWORK   RB02 RENDERED BRICKWORK   R ROOF   RENDERED BRICKWORK   DP DOWNPIPES   RB02 FACE BRICKWORK   DP DOWNPIPES   RB02 FACE BRICKWORK   D DOOR   DOOR   CL01 CLADDING   GD GARAGE DOOR   CL02 CLADDING   SLD SLIDING DOOR   RW RETAINING WALL   BFD BI-FOLD DOOR	SLW SLIDING WINDOW P POST FW FIXED WINDOW T TIMBER FLOORS OB OBSCURE WINDOW CT CERAMIC TILES AW AWNING WINDOW CPT CARPET SK SKYLIGHT PC POLISHED CONCRETE WH WINDOW HOOD SP FEATURE SCREENING LV LOUVRES LV LOUVRES	Wollongong 81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661 P.O. Box 3091, Balgownie NSW 2519  Sydney Suite 704, 31 Market Street, Sydney	MEDIUM DENSITY	DATE: APRIL 18 DRAWN: NT, DL SCALE: 1:100 QA: RG  PROJECT No. 1752 DWG No. 00 Q

admin@alliedtrees.com.au

DRAWING LIST								
SHEET NO.	SHEET NAME	REV.						
00	COVERSHEET	Q						
06	DEMOLITION PLAN	Q						
10	SITE PLAN	Q						
11	GROUND FLOOR	Q						
12	FIRST FLOOR	Q						
13	FSR PLANS	Q						
20	ELEVATIONS	Q						
21	ELEVATIONS	Q						
22	INTERNAL ELEVATIONS	Q						
30	SECTIONS	Q						
40	SHADOWS - JUNE	Q						
41	SHADOWS - JUNE	Q						
42	SHADOWS - JUNE	Q						
43	SHADOWS - DEC	Q						
50	3D VIEW	Q						
60	WINDOW SCHEDULE	Q						



SITE LOCATION

SITE LOCATION

**BUILDING ZONE** 

R2 LOW RESIDENTAIL ZONE

MINIMUM LOT SIZE

449 SQUARE PER METER

FLOOR SPACE RATIO

0:5.1



SITE LOCATION



**BUILDING HEIGHTS** 

9 METERS LIMIT

**ACID SULFATE SOIL** 

CLASS 5

STREET VIEW

9-11 BUNDARRA PLACE, DAPTO

DISCLAIMER
Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, relevant consultant information as per council DA requirements. Feasibility completed based on information provided by client.

relevant co	Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, relevant consultant information as per council DA requirements. Feasibility completed based on information provided by client.  All parking and ramps to traffic engineers details.									PLICATION			
REF. M	DATE 04.12.2018	AMENDMENT DEVELOPMENT APPLICATION	Legend:  RB01 RENDERED BRICKWORK RB02 RENDERED BRICKWORK FB01 FACE BRICKWORK FB02 FACE BRICKWORK BL BLOCKWORK	S STONEWORK R ROOF DP DOWNPIPES TB TIMBER BATTENS D DOOR	SLW SLIDING WINDOW FW FIXED WINDOW OB OBSCURE WINDOW AW AWNING WINDOW SK SKYLIGHT	CPT CARPET PC POLISHED CONCRETE	DESIGN	Wollongong 81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661 P.O. Box 3091, Balgownie NSW 2519 Web: http://www.desigi	nworkshop.com.au	CLIENT: ADDRESS:	BUCHANAN/ PERRETT MEDIUM DENSITY 9-11 BUNDARRA PLACE, DAPTO	DATE: APRIL 18  DRAWN: TN  SCALE:	PROJECT No. 1752 DWG 01 M
DISCLAIM All dimensions a any work. Copyr	re in millimeters. Verify all d	imensions on site prior to commencement of	CL01 CLADDING CL02 CLADDING RW RETAINING WALL	GD GARAGE DOOR SLD SLIDING DOOR BFD BI-FOLD DOOR	WH WINDOW HOOD LV LOUVRES RWT RAINWATER TANK	SP FEATURE SCREENING	AUSTRALIA	Sydney Suite 704, 31 Market Street, Sydney		DRAWING NA	ME: DCP ANALYSIS	QA: RG	



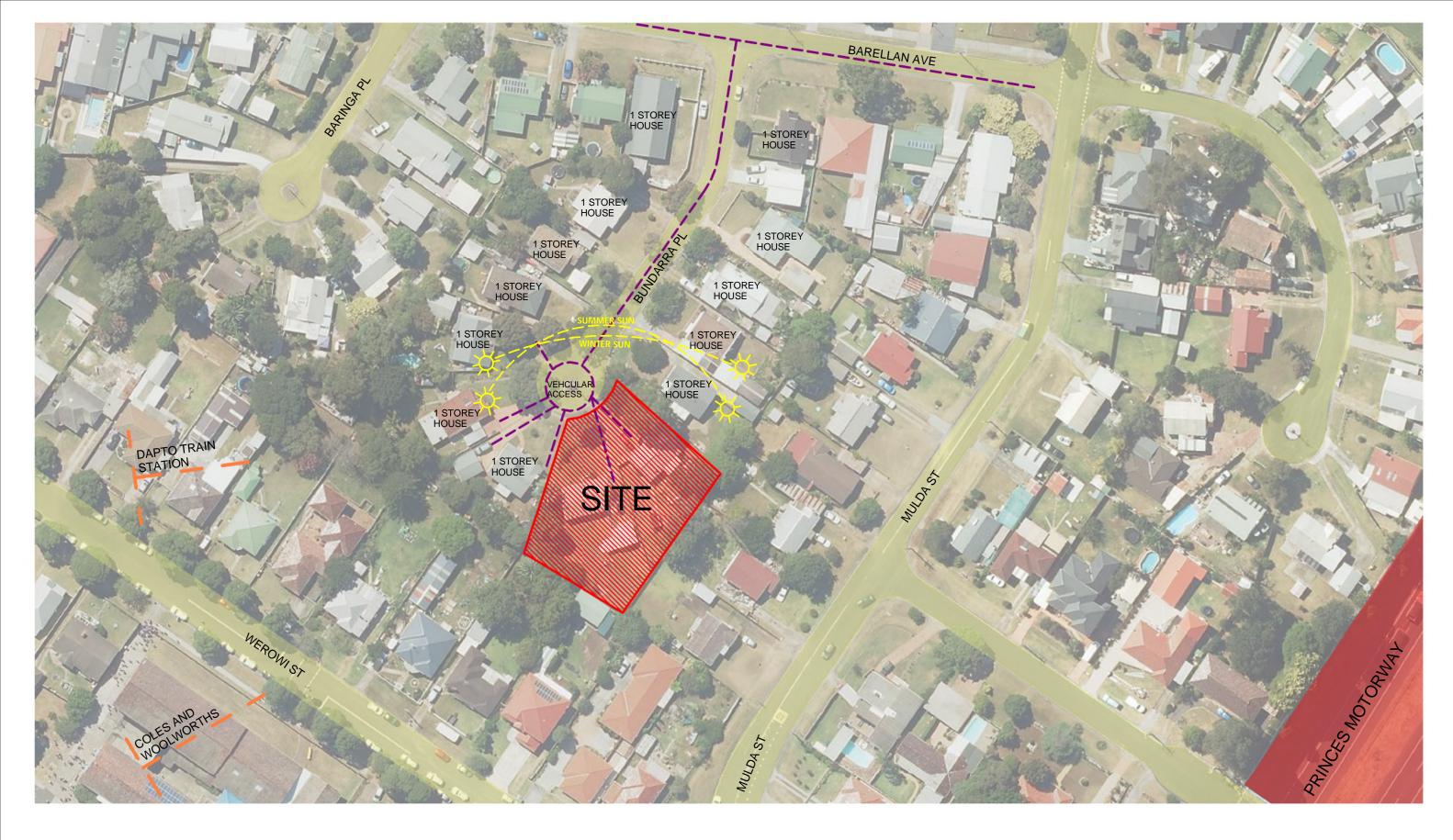
## **URBAN CONTEXT**

DISCLAIMER
Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, relevant consultant information as per council DA requirements. Feasibility completed based on information provided by client.

All nextrion and ramps to traffic engineers details.

All par	king and ramps to traffi	c engineers details.											
REF M	DATE 04.12.2018	AMENDMENT DEVELOPMENT APPLICATION	Legend: RB01 RENDERED BRICKWORK RB02 RENDERED BRICKWORK FB01 FACE BRICKWORK FB02 FACE BRICKWORK	S STONEWORK R ROOF DP DOWNPIPES TB TIMBER BATTENS	SLW SLIDING WINDOW FW FIXED WINDOW OB OBSCURE WINDOW AW AWNING WINDOW	P POST T TIMBER FLOORS CT CERAMIC TILES CPT CARPET		Wollongong 81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661  Email: info@designworkshop.com.au Web: http://www.designworkshop.com.au		CLIENT:	BUCHANAN/ PERRETT MEDIUM DENSITY 9-11 BUNDARRA PLACE, DAPTO	DATE: APRIL 18 DRAWN: TN	PROJECT No. 1752
DISCI All dimer any work		dimensions on site prior to commencement of	BL BLOCKWORK CL01 CLADDING CL02 CLADDING RW RETAINING WALL	D DOOR GD GARAGE DOOR SLD SLIDING DOOR BFD BI-FOLD DOOR	SK SKYLIGHT WH WINDOW HOOD LV LOUVRES RWT RAINWATER TANK	PC POLISHED CONCRETE SP FEATURE SCREENING	<b>DESIGN</b> WORKSHOP AUSTRALIA	P.O. Box 3091, Balgownie NSW 2519 Nominated Architect: Robert Gizzi (Reg. 8286)  Sydney  Suite 704, 31 Market Street, Sydney	/		E: URBAN CONTEXT	SCALE: NTS QA: RG	No. UZ IVI

DEVELOPMENT APPLICATION



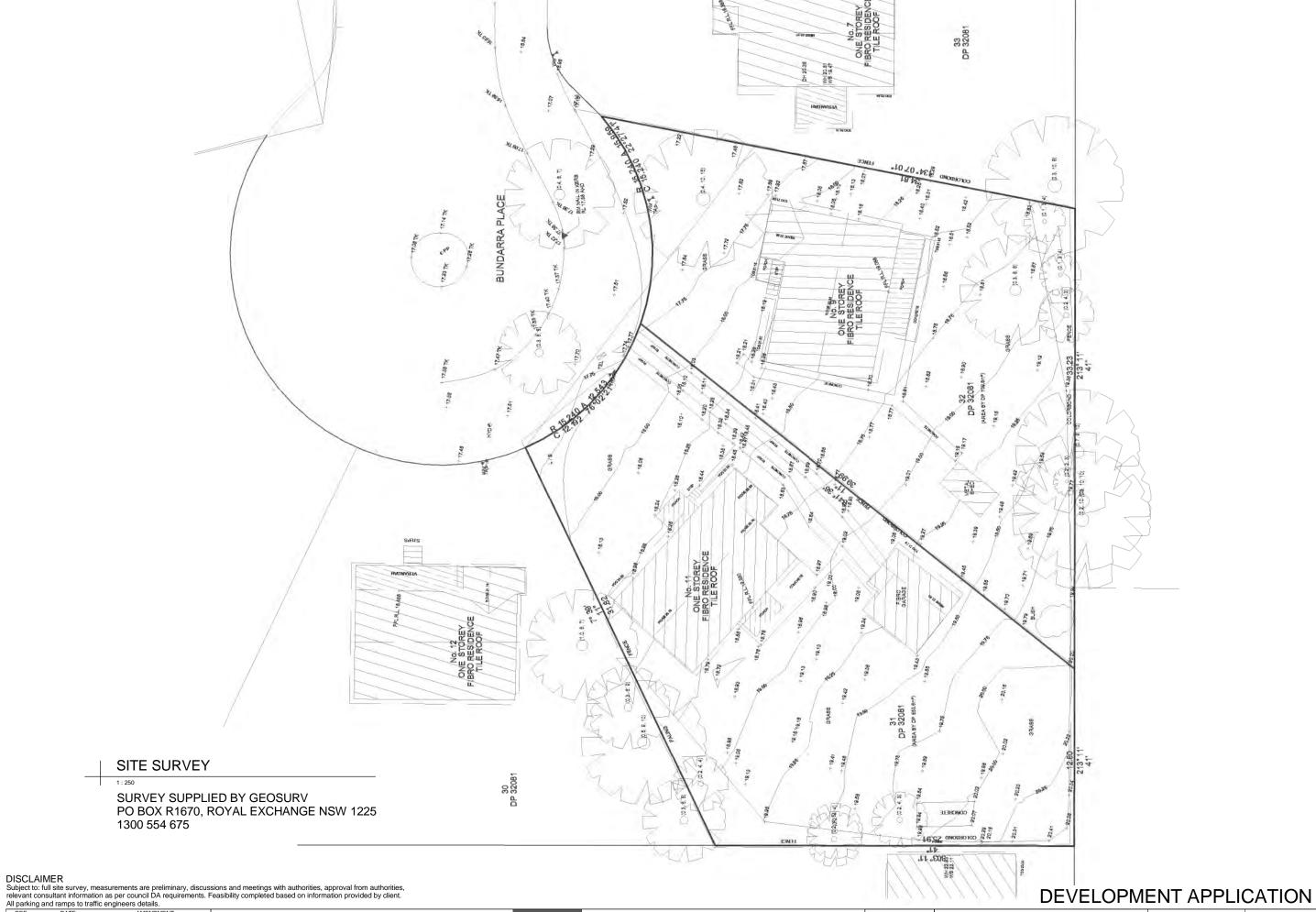
## STREET MAP

NTS

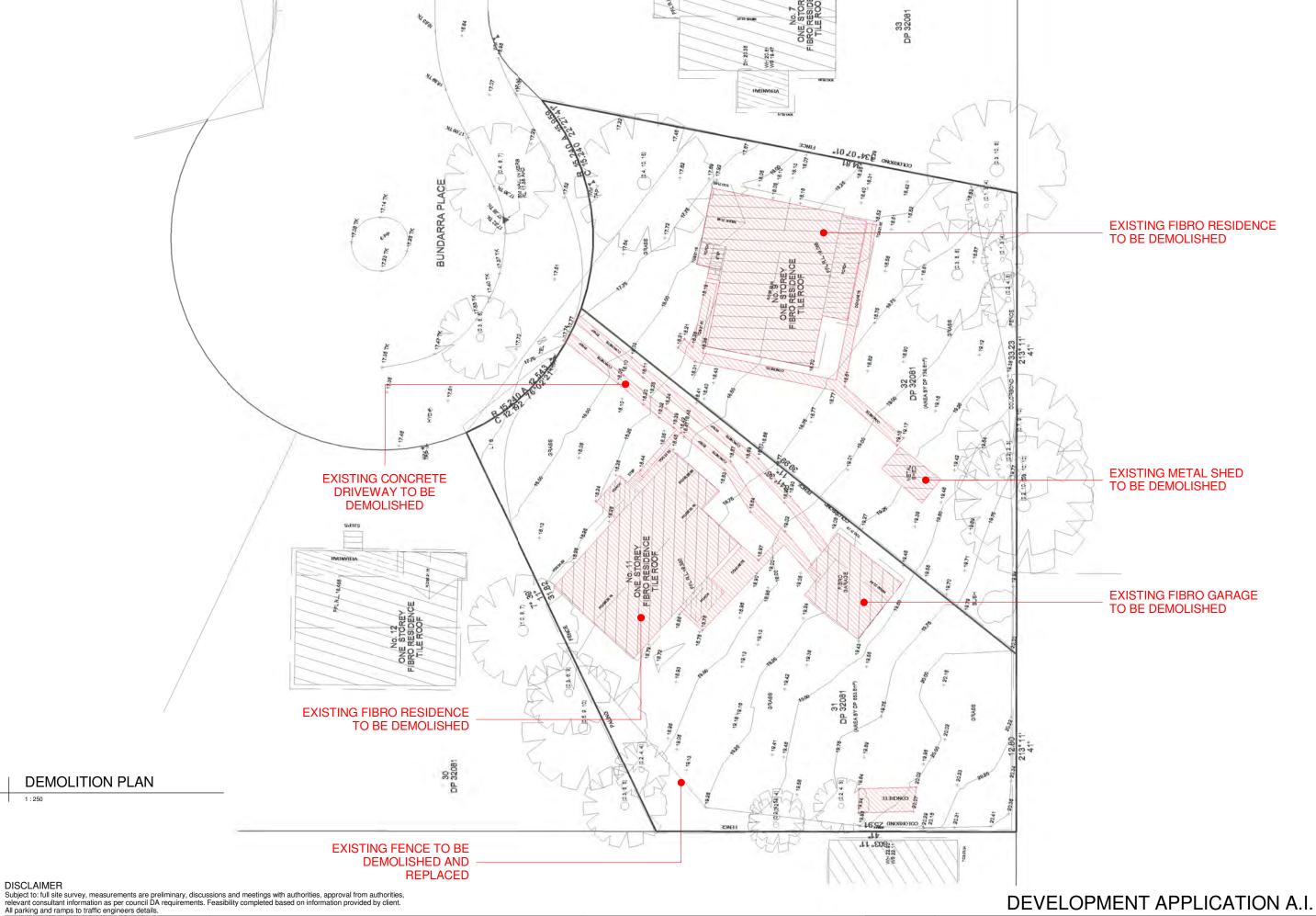
DISCLAIMER
Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, relevant consultant information as per council DA requirements. Feasibility completed based on information provided by client.

All parking	and ramps to traffic	engineers details.										
REF. M	DATE 04.12.2018	AMENDMENT DEVELOPMENT APPLICATION	Legend: RB01 RENDERED BRICKWORK RB02 RENDERED BRICKWORK FB01 FACE BRICKWORK FB02 FACE BRICKWORK BL BLOCKWORK CL01 CLADDING	S STONEWORK R ROOF DP DOWNPIPES TB TIMBER BATTENS D DOOR GD GARAGE DOOR	SLW SLIDING WINDOW FW FIXED WINDOW OB OBSCURE WINDOW AW AWNING WINDOW SK SKYLIGHT WH WINDOW HOOD	P POST T TIMBER FLOORS CT CERAMIC TILES CPT CARPET PC POLISHED CONCRETE SP FEATURE SCREENING	D E S I G N WORKSHOP AUSTRALIA	Wollongong 81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661 P.O. Box 3091, Balgownie NSW 2519 Sydney  Email: info@designworkshop.com.au Web: http://www.designworkshop.com.au Nominated Architect: Robert Gizzi (Reg. 8286	CLIENT:  ADDRESS:	BUCHANAN/ PERRETT MEDIUM DENSITY 9-11 BUNDARRA PLACE, DAPTO	DATE: APRIL 18  DRAWN: TN  SCALE: NTS	PROJECT No. 1752 DWG No. 03 M
All dimensions any work. Copy	are in millimeters. Verify all dir	mensions on site prior to commencement of	CL02 CLADDING RW RETAINING WALL	SLD SLIDING DOOR BFD BI-FOLD DOOR	LV LOUVRES RWT RAINWATER TANK			Suite 704, 31 Market Street, Sydney	DRAWING NA	ME: LOCAL CONTEXT	QA: Checker	

**DEVELOPMENT APPLICATION** 



All p	arking ar	nd ramps to traffic	engineers details.								<i>D</i> _ 1		,
RI	EF. M	DATE 04.12.2018	AMENDMENT DEVELOPMENT APPLICATION	Legend:		SLW SLIDING WINDOW	P POST		Wollongong	CLIENT:	BUCHANAN/ PERRETT	DATE: APRIL 18	PROJECT No.
					DP DOWNPIPES TB TIMBER BATTENS D DOOR	FW FIXED WINDOW OB OBSCURE WINDOW AW AWNING WINDOW SK SKYLIGHT	T TIMBER FLOORS CT CERAMIC TILES CPT CARPET PC POLISHED CONCRETE	DESIGN	81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661 Web: http://www.designworkshop.com.au P.O. Box 3091, Balgownie NSW 2519 Nominated Architect: Robert Gizzi (Reg. 8286)	ADDRESS:	MEDIUM DENSITY 9-11 BUNDARRA PLACE, DAPTO	DRAWN: NT SCALE: 1:250	DWG No.
All din	CLAIME nensions are ork. Copyrigh	in millimeters. Verify all din	mensions on site prior to commencement of	CL01 CLADDING CL02 CLADDING RW RETAINING WALL	GD GARAGE DOOR SLD SLIDING DOOR BFD BI-FOLD DOOR	WH WINDOW HOOD LV LOUVRES RWT RAINWATER TANK	SP FEATURE SCREENING IWS INTEGRAL WALL	WORKSHOP AUSTRALIA	Sydney Suite 704, 31 Market Street, Sydney	DRAWING NAM	ME: SITE SURVEY	QA: RG	05 M



REF.	DATE	AMENDMENT	Ιe	gend:								Γ.,
Q	16.04.2019	Consultants	-	gena.						D007		I۷
							SLW	SLIDING WINDOW	Р	POST		
			FB01	FACE BRICKWORK TYPE 1	R	ROOF	FW	FIXED WINDOW	T	TIMBER FLOORS		81
			FB02	FACE BRICKWORK TYPE 2	DP	DOWNPIPES	OB	OBSCURE WINDOW	CT	CERAMIC TILES	VV	ΙTε
			FB03	FACE BRICKWORK TYPE 3	TB	TIMBER BATTENS	AW	AWNING WINDOW	CPT	CARPET		Ϊ́
			BL	BLOCKWORK	D	DOOR	SK	SKYLIGHT	PC	POLISHED CONCRETE	DESIGN	Ι'.
			01.04	OL ADDINO	0.0	CARACE DOOR	1401	WINDOWLIGOD		EE ATUDE GODEENING	WORKSHOP	

Sydney

Suite 704, 31 Market Street, Sydney



CLIENT:	BUCHANAN/ PERRETT MEDIUM DENSITY
ADDRESS:	9-11 BUNDARRA PLACE,

DRAWN: NT E, DAPTO DRAWING NAME: DEMOLITION PLAN

DATE: APRIL 18 PROJECT No. 1752 DWG SCALE: 1:250 No. 06 Q



## **BASIX INFORMATION**

GROUND FLOOR - CONCRETE FIRST FLOOR - TIMBER FLOORS:

GROUND FLOOR - BRICK VEENER FIRST FLOOR - TIMBER STUD EXTERNAL WALLS:

INTERNAL WALLS: TIMBER FRAME WITH PLASTERBOARD FINISH

PARTY WALLS: BORAL SHAFT WALLS

ROOF: COLOURBOND ROOFING WITH INSULATION

CEILING FANS: TO BE SUPPLIED TO ALL LIVING AREAS

LIGHTING:

ALL RECESSED DOWNLIGHTS IN THE THERMAL ENVELOPE TO BE SEALED

ALL EXHAUST FANS TO BE FIITED WITH DAMPER AND INSULATION UP TO COVER EXHAUST FANS:

SITE PLAN

Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, relevant consultant information as per council DA requirements. Feasibility completed based on information provided by client. All parking and ramps to traffic engineers details.

REF.	DATE	AMENDMENT	Ιρ	gend:				
Q	16.04.2019	Consultants	-	gona.			SLW	SLIDING WINDOW
			FB01	FACE BRICKWORK TYPE 1	R	ROOF	FW	FIXED WINDOW
			FB02	FACE BRICKWORK TYPE 2	DP	DOWNPIPES	OB	OBSCURE WINDOW
			FB03	FACE BRICKWORK TYPE 3	TB	TIMBER BATTENS	AW	AWNING WINDOW
			BL	BLOCKWORK	D	DOOR	SK	SKYLIGHT
DISCLAIM	IED		CL01	CLADDING	GD	GARAGE DOOR	WH	WINDOW HOOD
		dimensions on site prior to commencement of	CL02	CLADDING	SLD	SLIDING DOOR	LV	LOUVRES
any work Conv			RW	RETAINING WALL	BED	BI-FOLD DOOR	RWT	BAINWATER TANK

# P POST T TIMBER FLOORS CT CERAMIC TILES CARPET PC POLISHED CONCRETE SP FEATURE SCREENING IWS INTEGRAL WALL

Sydney Suite 704, 31 Market Street, Sydney



CI
ΑI

**DEVELOPMENT APPLICATION A.I.** LIENT: DDRESS:

DRAWING NAME: SITE PLAN

BUCHANAN/ PERRETT MEDIUM DENSITY 9-11 BUNDARRA PLACE, DAPTO

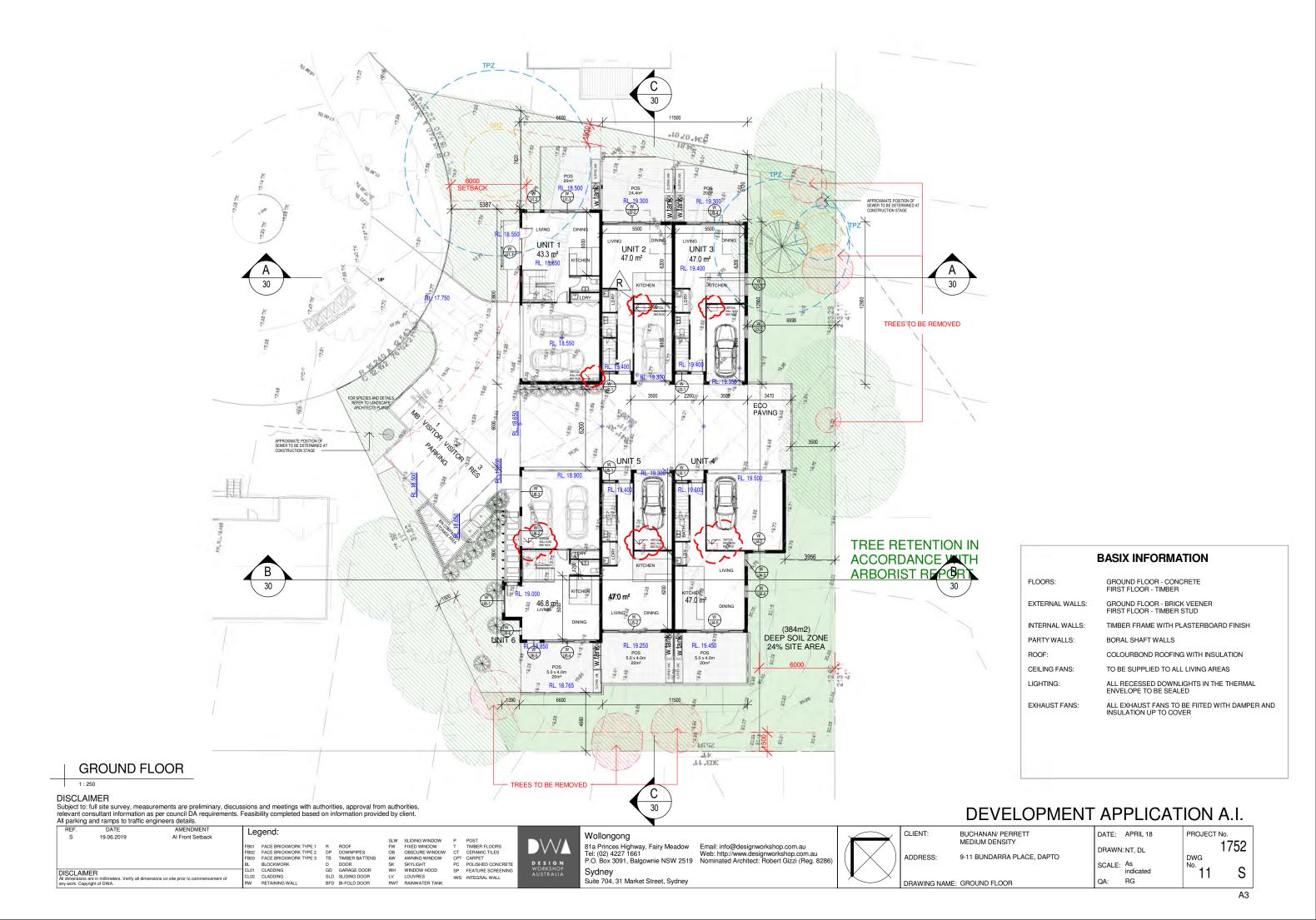
DATE: APRIL 18 DRAWN: NT, DL SCALE: As indicated

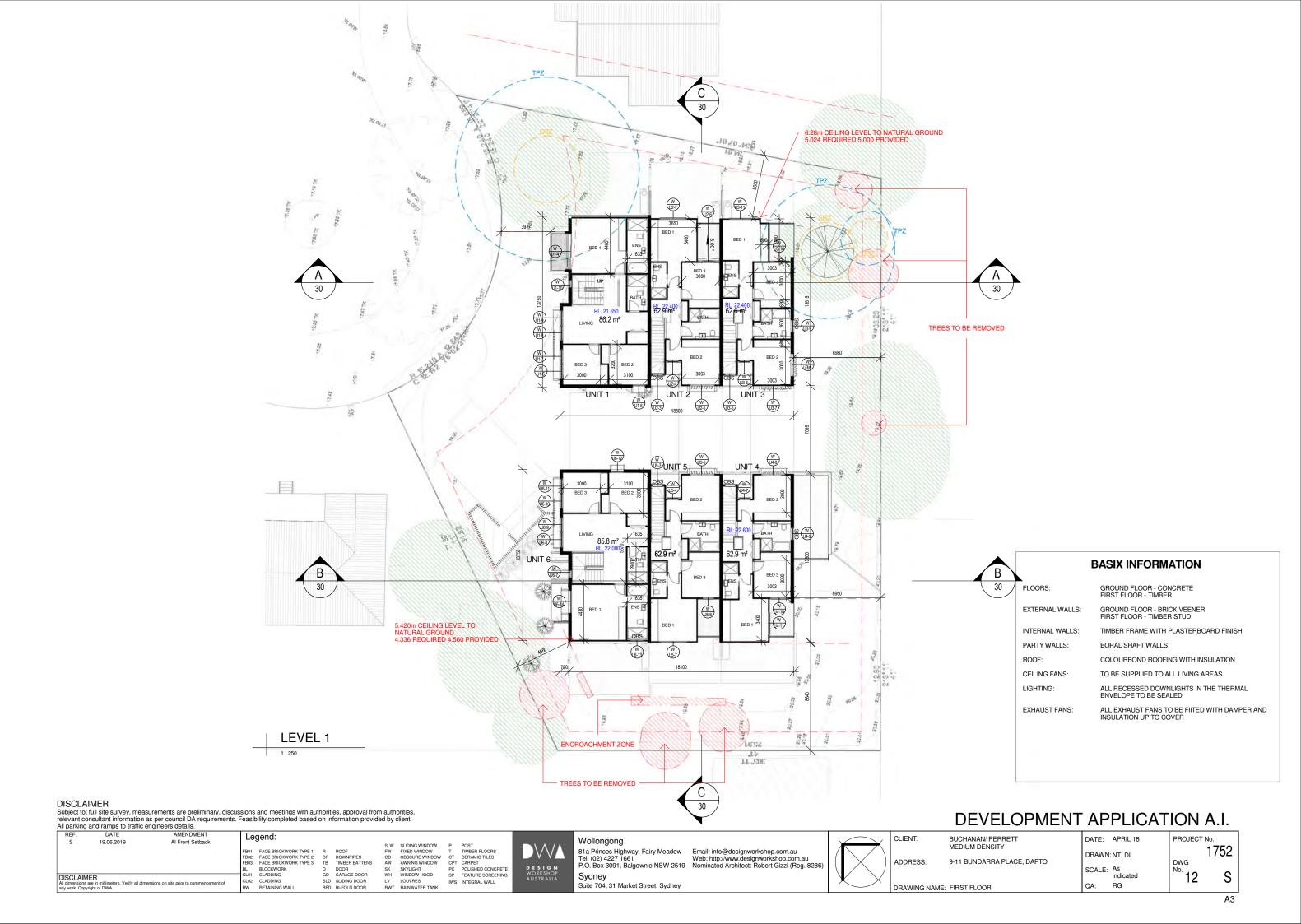
RG

PROJECT No. 1752 DWG 10

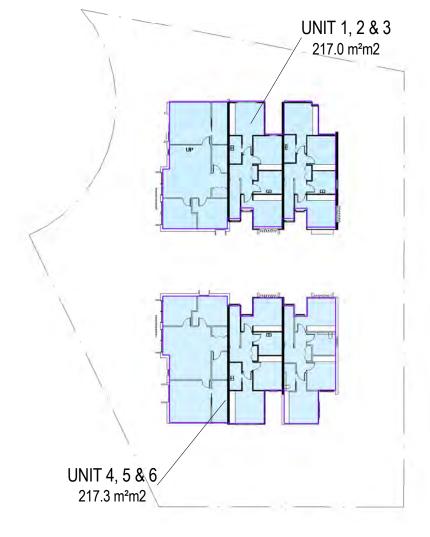
АЗ

Q









FSF	FSR SCHEDULE										
Name	AREA	FSR									
GROUND FLOOR											
UNIT 1, 2 & 3	141.9 m²	0.09									
UNIT 4, 5 & 6	144.3 m <sup>2</sup>	0.09									
LEVEL 1											
UNIT 1, 2 & 3	217.0 m <sup>2</sup>	0.14									
UNIT 4, 5 & 6	217.3 m <sup>2</sup>	0.14									
	720.6 m <sup>2</sup>	0.45									

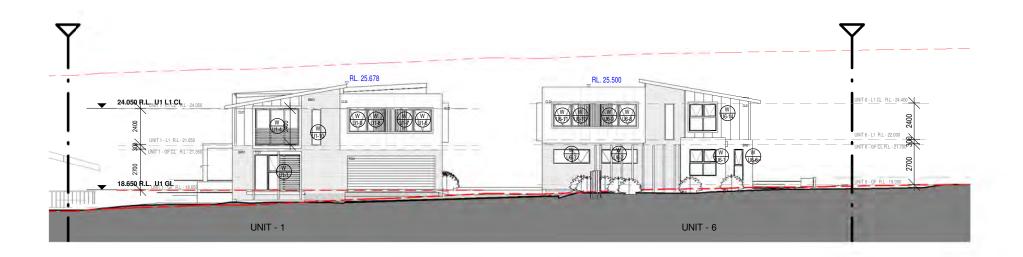
SITE AREA - 1593.4m<sup>2</sup> ALLOWABLE FSR - 0.5:1

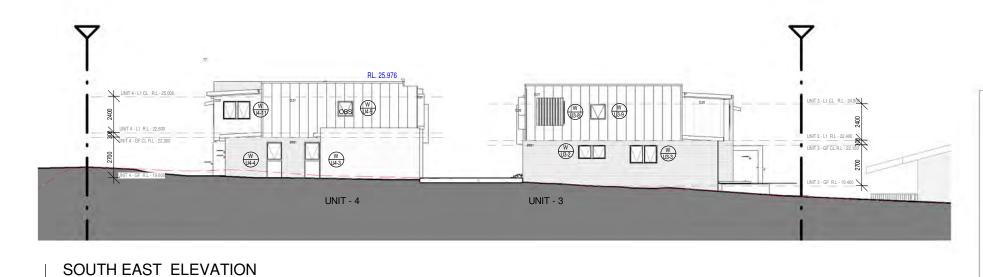
LEVEL 1	

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All parking and ramps to traffic engineers details.								
REF. DATE AMENDMENT Q 16.04.2019 Consultants	RB02         RENDERED BRICKWORK         R         F           FB01         FACE BRICKWORK         DP         D           FB02         FACE BRICKWORK         TB         T           BL         BLOCKWORK         D         D	DOOR SK SKYLIGHT	CT CERAMIC TILES	Wollongong 81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661 P.O. Box 3091, Balgownie NSW 2519  Email: info@designworkshop.com.au Web: http://www.designworkshop.com.au Nominated Architect: Robert Gizzi (Reg. 8286)	CLIENT: ADDRESS:	BUCHANAN/ PERRETT MEDIUM DENSITY 9-11 BUNDARRA PLACE, DAPTO	DATE: APRIL 18  DRAWN: NT, DL  SCALE: 1:400	PROJECT No. 1752 DWG No. 13 Q
DISCLAIMER All dimensions are in millimeters. Verify all dimensions on site prior to commencement of any work. Copyright of DWA.	CL02 CLADDING SLD S	SLIDING DOOR LV LOUVRES BI-FOLD DOOR RWT RAINWATER TANK	AUSTRALIA	Sydney Suite 704, 31 Market Street, Sydney	DRAWING NAM	IE: FSR PLANS	QA: RG	

## DEVELOPMENT APPLICATION A.I.





## **BASIX INFORMATION**

GROUND FLOOR - CONCRETE FIRST FLOOR - TIMBER FLOORS:

EXTERNAL WALLS:

GROUND FLOOR - BRICK VEENER FIRST FLOOR - TIMBER STUD

INTERNAL WALLS: TIMBER FRAME WITH PLASTERBOARD FINISH PARTY WALLS: BORAL SHAFT WALLS

ROOF: COLOURBOND ROOFING WITH INSULATION

CEILING FANS: TO BE SUPPLIED TO ALL LIVING AREAS

ALL RECESSED DOWNLIGHTS IN THE THERMAL ENVELOPE TO BE SEALED

ALL EXHAUST FANS TO BE FIITED WITH DAMPER AND INSULATION UP TO COVER

## EXHAUST FANS:

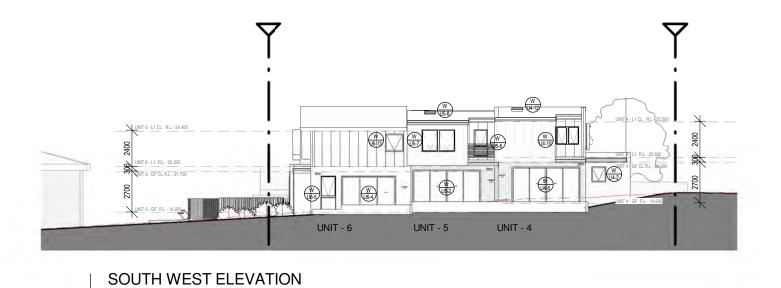
DEVELOPMENT APPLICATION A.I.

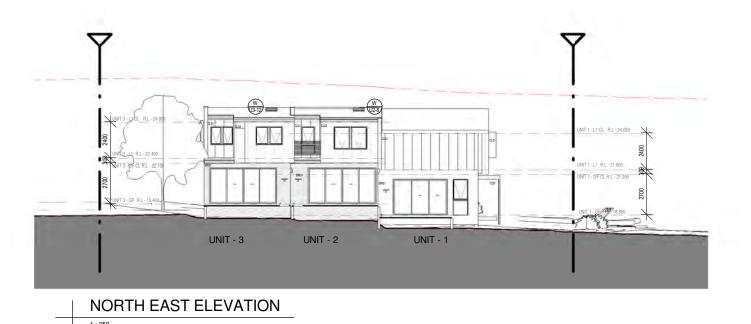
LIGHTING:

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NORTH WEST ELEVATION

All parking and	I ramps to traffic en	gineers details.									
DISCLAIMER		AMENDMENT Consultants	Legend: RB01 RENDERED BRICKWORK RB02 RENDERED BRICKWORK FB01 FACE BRICKWORK FB02 FACE BRICKWORK BL BLCCKWORK CL01 CLADDING CL02 CLADDING RW RETAINING WALL	S STONEWORK R ROOF P DOWNPIPES TB TIMBER BATTENS D DOOR GD GARAGE DOOR SLD SLIDING DOOR BFD BI-FOLD DOOR	SLW SLIDING WINDOW FW FIXED WINDOW OB OBSCURE WINDOW AW AWNING WINDOW SK SKYLIGHT WH WINDOW HOOD LV LOUVRES RWT RAINWATER TANK	P POST T TIMBER FLOORS CT CERAMIC TILES CPT CARPET PC POLISHED CONCRETE SP FEATURE SCREENING	Wollongong 81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661 P.O. Box 3091, Balgownie NSW 2519 Sydney Suite 704, 31 Market Street, Sydney	Email: info@designworkshop.com.au Web: http://www.designworkshop.com.au Nominated Architect: Robert Gizzi (Reg. 8286)	BUCHANAN/ PERRETT MEDIUM DENSITY  9-11 BUNDARRA PLACE, DAPTO  ME: ELEVATIONS	DATE: APRIL 18 DRAWN: NT, DL SCALE: As indicated QA: RG	PROJECT No. 1752 DWG No. 20 Q





## **BASIX INFORMATION**

GROUND FLOOR - CONCRETE FIRST FLOOR - TIMBER FLOORS:

GROUND FLOOR - BRICK VEENER FIRST FLOOR - TIMBER STUD EXTERNAL WALLS:

TIMBER FRAME WITH PLASTERBOARD FINISH INTERNAL WALLS: BORAL SHAFT WALLS PARTY WALLS:

COLOURBOND ROOFING WITH INSULATION ROOF:

CEILING FANS: TO BE SUPPLIED TO ALL LIVING AREAS LIGHTING:

ALL RECESSED DOWNLIGHTS IN THE THERMAL ENVELOPE TO BE SEALED

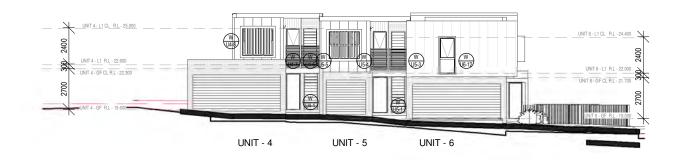
EXHAUST FANS:

ALL EXHAUST FANS TO BE FIITED WITH DAMPER AND INSULATION UP TO COVER

### DEVELOPMENT APPLICATION A L

DISCLAIMER
Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, approv

relevant consultant information as per council DA requirements. All parking and ramps to traffic engineers details.														
REF. DATE AMENDMENT Q 16.04.2019 Consultants  DISCLAIMER All dimensions are in millimeters. Verify all dimensions on site prior to commencement of any work. Copyright of DWA.	Legend:	SLW SLIDING WINDOW P POST TIMBER FLOORS OB OBSCURE WINDOW CT CERAMIC TILES SK SKUIGHT PC POLISHED CONCRET WH WINDOW HOOD SP FEATURE SCREENIN LV LOUVRES RWT RAINWATER TANK		CLIENT: BUCHANAN/ PERRETT MEDIUM DENSITY  ADDRESS: 9-11 BUNDARRA PLACE, DAPTO  DRAWING NAME: ELEVATIONS	DATE: APRIL 18 DRAWN: NT, DL SCALE: As indicated QA: RG  PROJECT No.  1752 DWG No. 21 Q									



## INTERNAL NORTH EAST ELEVATION



## INTERNAL SOUTH WEST ELEVATION

## **BASIX INFORMATION**

GROUND FLOOR - CONCRETE FIRST FLOOR - TIMBER FLOORS:

GROUND FLOOR - BRICK VEENER FIRST FLOOR - TIMBER STUD EXTERNAL WALLS:

INTERNAL WALLS: TIMBER FRAME WITH PLASTERBOARD FINISH

PARTY WALLS: BORAL SHAFT WALLS

EXHAUST FANS:

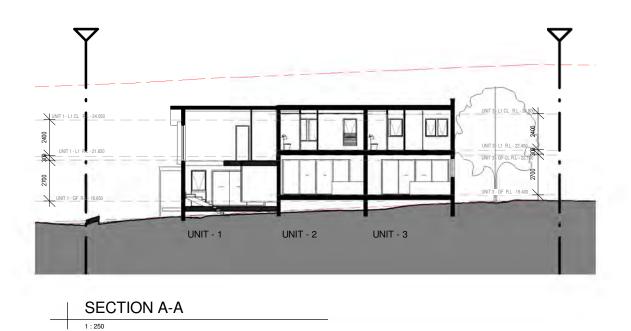
ROOF: COLOURBOND ROOFING WITH INSULATION CEILING FANS: TO BE SUPPLIED TO ALL LIVING AREAS

ALL RECESSED DOWNLIGHTS IN THE THERMAL ENVELOPE TO BE SEALED LIGHTING:

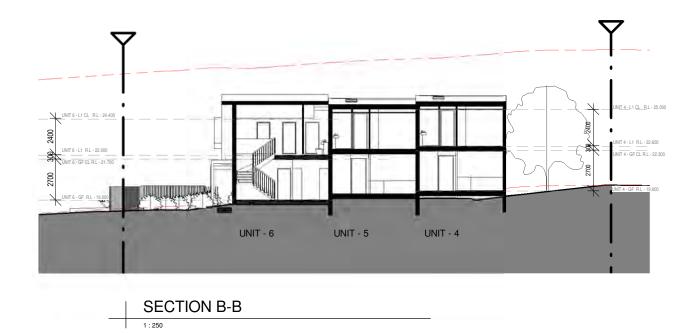
ALL EXHAUST FANS TO BE FIITED WITH DAMPER AND INSULATION UP TO COVER

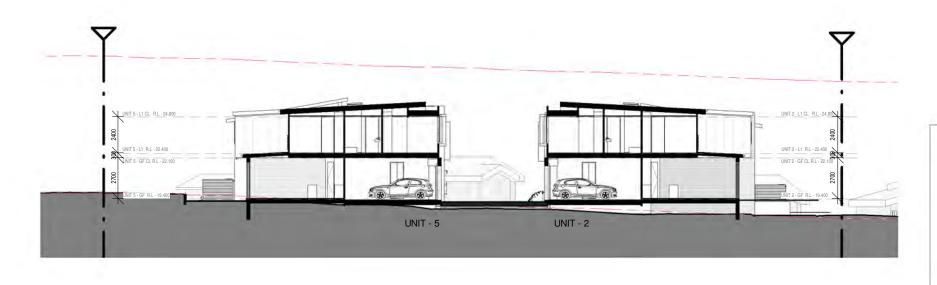
Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities.

Subject to: full site survey, mea relevant consultant information All parking and ramps to traffic	as per council DA requiremen									DEVELO	PMENT APPLI	CATION A.I.
REF. DATE Q 16.04.2019  DISCLAIMER All dimensions are in millimeters. Verify all dir any work. Copyright of DWA.	AMENDMENT Consultants  ensions on site prior to commencement of	Legend:  RB01 RENDERED BRICKWORK RB02 RENDERED BRICKWORK FB01 FACE BRICKWORK FB02 FACE BRICKWORK BL BLOCKWORK CL01 CLADDING CL02 CLADDING RW RETAINING WALL	S STONEWORK R ROOF DP DOWNPIPES TB TIMBER BATTENS D DOOR GD GARAGE DOOR SLD SLIDING DOOR BFD BIFOLD DOOR	SLW SLIDING WINDOW FW FIXED WINDOW OB OBSCURE WINDOW AW AWNING WINDOW SK SKYLIGHT WH WINDOW HOOD LV LOUVRES BWT BAINWATER TANK	P POST T TIMBER FLOORS CT CERAMIC TILES CPT CARPET PC POLISHED CONCRETE SP FEATURE SCREENING	DESIGN WORKSHOP AUSTRALIA	Tel: (02) 4227 1661	Email: info@designworkshop.com.au Web: http://www.designworkshop.com.au Nominated Architect: Robert Gizzi (Reg. 8286)	CLIENT:  ADDRESS:	BUCHANAN/ PERRETT MEDIUM DENSITY  9-11 BUNDARRA PLACE, DAPTO  ME: INTERNAL ELEVATIONS	DATE: APRIL 18  DRAWN: NT, DL  SCALE: As indicated  QA: RG	PROJECT No. 1752 DWG No. 22 Q



**SECTION C-C** 





## **BASIX INFORMATION**

GROUND FLOOR - CONCRETE FIRST FLOOR - TIMBER FLOORS:

GROUND FLOOR - BRICK VEENER FIRST FLOOR - TIMBER STUD EXTERNAL WALLS:

INTERNAL WALLS: TIMBER FRAME WITH PLASTERBOARD FINISH

PARTY WALLS: BORAL SHAFT WALLS

EXHAUST FANS:

ROOF: COLOURBOND ROOFING WITH INSULATION

TO BE SUPPLIED TO ALL LIVING AREAS CEILING FANS:

ALL RECESSED DOWNLIGHTS IN THE THERMAL ENVELOPE TO BE SEALED LIGHTING:

ALL EXHAUST FANS TO BE FIITED WITH DAMPER AND INSULATION UP TO COVER

DISCLAIMER
Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, relavant consultant information as per council DA requirements. Feasibility completed based on information provided by client.

relevant cor		per council DA requirement	cussions and meetings with a s. Feasibility completed base								DEVELO	PMENT APPLIC	CATIO	N A.I.
REF. Q	DATE 16.04.2019	AMENDMENT Consultants	Legend:  RB01 RENDERED BRICKWORK RB02 RENDERED BRICKWORK FB01 FACE BRICKWORK FB02 FACE BRICKWORK BL BLOCKWORK	S STONEWORK R ROOF DP DOWNPIPES TB TIMBER BATTENS D DOOR	SLW SLIDING WINDOW FW FIXED WINDOW OB OBSCURE WINDOW AW AWNING WINDOW SK SKYLIGHT	P POST T TIMBER FLOORS CT CERAMIC TILES CPT CARPET PC POLISHED CONCRETE	D V A	Wollongong 81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661 P.O. Box 3091, Balgownie NSW 2519	Email: info@designworkshop.com.au Web: http://www.designworkshop.com.au Nominated Architect: Robert Gizzi (Reg. 8286)	CLIENT: ADDRESS:	BUCHANAN/ PERRETT MEDIUM DENSITY 9-11 BUNDARRA PLACE, DAPTO	DATE: APRIL 18  DRAWN: NT, DL  SCALE: As	PROJECT DWG No.	1752 30 Q
DISCLAIMI All dimensions a any work. Copyri	re in millimeters. Verify all dimens	sions on site prior to commencement of	CL01 CLADDING CL02 CLADDING RW RETAINING WALL	GD GARAGE DOOR SLD SLIDING DOOR BFD BI-FOLD DOOR	WH WINDOW HOOD LV LOUVRES RWT RAINWATER TANK	SP FEATURE SCREENING		Sydney Suite 704, 31 Market Street, Sydney		DRAWING NAI	ME: SECTIONS	indicated QA: RG	No.	



DISCLAIMER
Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, relevant consultant information as per council DA requirements. Feasibility completed based on information provided by client.

All parking	and ramps to traffic e	ngineers details.						
REF.	DATE	AMENDMENT	Ιρ	gend:				
Q	16.04.2019	Consultants	RB01 RB02 FB01 FB02 BL	RENDERED BRICKWORK RENDERED BRICKWORK FACE BRICKWORK FACE BRICKWORK BLOCKWORK	S R DP TB D	STONEWORK ROOF DOWNPIPES TIMBER BATTENS DOOR	SLW FW OB AW SK	SLIDING WI FIXED WIND OBSCURE V AWNING WI SKYLIGHT
DISCLAIM All dimensions a any work. Copyr	are in millimeters. Verify all dime	ensions on site prior to commencement of	CL01 CL02 RW	CLADDING CLADDING RETAINING WALL		GARAGE DOOR SLIDING DOOR BI-FOLD DOOR	WH LV RWT	WINDOW HI LOUVRES RAINWATER

# P POST T TIMBER FLOORS CT CERAMIC TILES CPT CARPET PC POLISHED CONCRETE SP FEATURE SCREENING

## Wollongong

Sydney

Suite 704, 31 Market Street, Sydney

Ha Princes Highway, Fairy Meadow
Tel: (02) 4227 1661
P.O. Box 3091, Balgownie NSW 2519
Web: http://www.designworkshop.com.au
Nominated Architect: Robert Gizzi (Reg. 8286)



		DEVELOP	MENT APPLIC	ATION A.I.
LIENT:	BUCHANAN/ PERRETT MEDIUM DENSITY		DATE: APRIL 18	PROJECT No.
DDDECC.	0 11 PUNDARRA DI ACE		DRAWN: NT, DL	1752

PROJECT No. 1752 DWG No. 40 Q SCALE: 1:400 QA: RG DRAWING NAME: SHADOWS - JUNE



			Lec	geno
Q	16.04.2019	Consultants	RB01 RB02 FB01 FB02 BL	REND REND FACE FACE BLOCK
DISCLAIMER All dimensions are in Copyright of DWA.	millimeters. Verify all	dimensions on site prior to commencement of any work.	CL01 CL02 RW	CLADI

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## S STONEWORK R ROOF DP DOWNPIPES TB TIMBER BATTENS D DOOR GD GARAGE DOOR SLD SLIDING DOOR BFD BI-FOLD DOOR SLW SLIDING WINDOW FW FIXED WINDOW OB OBSCURE WINDOW AW AWNING WINDOW SK SKYLIGHT WH WINDOW HOOD LV LOUVRES RWT RAINWATER TANK P POST T TIMBER FLOORS CT CERAMIC TILES CPT CARPET PC POLISHED CONCRETE SP FEATURE SCREENING

## Wollongong

#### 81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661 Email: info@designworkshop.com.au Web: http://www.designworkshop.com.au

#### Sydney Level 2, 77 King Street, Sydney Tel: 0406 432 560 Email: info@designworkshop.com.au Web: http://www.designworkshop.com.au

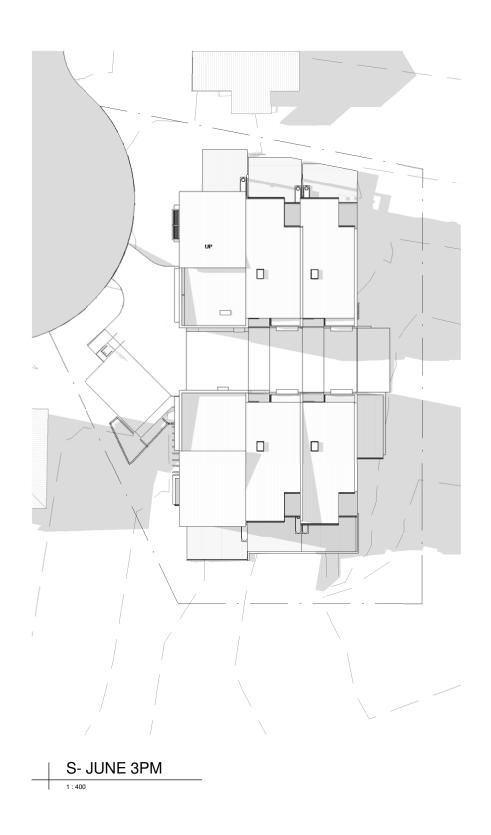
ADDRESS:

DRAWING NAME: SHADOWS - JUNE

	DEVELOPMENT AP	PLI	CATI	ON A.I.	
CLIENT:	BUCHANAN/ PERRETT MEDIUM DENSITY	DATE:	APRIL 18	PROJECT No. 175	2
	MEDIOM BENOTI	DDAWN	· NT DI		

QA:

9-11 BUNDARRA PLACE, DAPTO





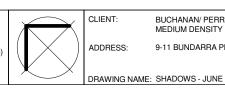
Subject to: full site survey, measurements are preliminary, discussions and meetings with authorities, approval from authorities, relevant consultant information as per council DA requirements. Feasibility completed based on information provided by client.

	and ramps to traffic e	as per councii DA requireme Ingineers details.	nts. Feasi	ollity completed based	i on in	tormation provid	ea by a
REF.	DATE 16.04.2019	AMENDMENT Consultants	Le	gend:			
l u	16.04.2019	Consultants	RB01	RENDERED BRICKWORK	S	STONEWORK	SLW
			RB02	RENDERED BRICKWORK	R	ROOF	FW
			FB01	FACE BRICKWORK	DP	DOWNPIPES	OB
			FR02	FACE BRICKWORK	TR	TIMBER BATTENS	ΔW

P POST
T TIMBER FLOORS
CT CERAMIC TILES
CPT CARPET
PC POLISHED CONCRETE
SP FEATURE SCREENING

Suite 704, 31 Market Street, Sydney

Wollongong
81a Princes Highway, Fairy Meadow
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Web: http://www.designworkshop.com.au
Nominated Architect: Robert Gizzi (Reg. 8286) Sydney



BUCHANAN/ PERRETT MEDIUM DENSITY CLIENT: ADDRESS: 9-11 BUNDARRA PLACE, DAPTO

DEVELOPMENT APPLICATION A.I. DATE: APRIL 18 PROJECT No. 1752 DRAWN: NT, DL DWG No. 42 Q SCALE: 1:400



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All parking and ramps to traffic engineers details.

REF.	16.04.2019	AMENDMEN I Consultants	Le	gend:				
u	16.04.2019	Consultants					SLW	SLIDING WINDOW
			FB01	FACE BRICKWORK TYPE 1	R	ROOF	FW	FIXED WINDOW
			FB02	FACE BRICKWORK TYPE 2	DP	DOWNPIPES	OB	OBSCURE WINDOW
			FB03	FACE BRICKWORK TYPE 3	TB	TIMBER BATTENS	AW	AWNING WINDOW
			BL	BLOCKWORK	D	DOOR	SK	SKYLIGHT
DISCLAIMER	)		CL01	CLADDING	GD	GARAGE DOOR	WH	WINDOW HOOD
		sions on site prior to commencement of	CL02	CLADDING	SLD	SLIDING DOOR	LV	LOUVRES
any work. Copyright		Solid on one prior to commencement of	RW	RETAINING WALL	BFD	BI-FOLD DOOR	RWT	RAINWATER TANK

# P POST T TIMBER FLOORS CT CERAMIC TILES CARPET PC POLISHED CONCRETE SP FEATURE SCREENING IWS INTEGRAL WALL

# Wollongong

# Sydney Suite 704, 31 Market Street, Sydney

Ha Princes Highway, Fairy Meadow
Tel: (02) 4227 1661
P.O. Box 3091, Balgownie NSW 2519
Web: http://www.designworkshop.com.au
Nominated Architect: Robert Gizzi (Reg. 8286)

	DEVELOPMENT	APPLICAT	ION A.I.
CLIENT:	BUCHANAN/ PERRETT MEDIUM DENSITY	DATE: APRIL 18	PROJECT No. 1752
ADDRESS:	9-11 BUNDARRA PLACE, DAPTO	DRAWN: NT, DL	DWG

ROJECT No. 1752 DWG No. 43 9-11 BUNDARRA PLACE, DAPTO SCALE: 1:400 Q QA: RG DRAWING NAME: SHADOWS - DEC



## 3D VIEW

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r	relevant consultan	e survey, measure nt information as p amps to traffic engi	ements are preliminary, discus per council DA requirements. F ineers details.	sions and meetings with a easibility completed base	uthorities, approval fro d on information provid	m authorities, led by client.					DEVELOPMEN	IT APPLICA	TION A.I.
		DATE .04.2019	AMENDMENT Consultants	Legend:  FB01 FACE BRICKWORK TYPE 1 FB02 FACE BRICKWORK TYPE 2		SLW SLIDING WINDOW FW FIXED WINDOW OB OBSCURE WINDOW	P POST T TIMBER FLOORS CT CERAMIC TILES		Email: info@designworkshop.com.au Web: http://www.designworkshop.com.au	CLIENT:	BUCHANAN/ PERRETT MEDIUM DENSITY	DATE: APRIL 18 DRAWN: NT, DL	PROJECT №. 1752
	DISCLAIMER All dimensions are in milling any work. Copyright of DW		ons on site prior to commencement of	FB03         FACE BRICKWORK TYPE 3           BL         BLOCKWORK           CL01         CLADDING           CL02         CLADDING           RW         RETAINING WALL	TB TIMBER BATTENS D DOOR GD GARAGE DOOR SLD SLIDING DOOR BFD BI-FOLD DOOR	AW AWNING WINDOW SK SKYLIGHT WH WINDOW HOOD LV LOUVRES RWT RAINWATER TANK	CPT CARPET PC POLISHED CONCRETE SP FEATURE SCREENING IWS INTEGRAL WALL	DESIGN WORKSHOP AUSTRALIA	Nominated Architect: Robert Gizzi (Reg. 8286)	ADDRESS:	9-11 BUNDARRA PLACE, DAPTO  1E: 3D VIEW	SCALE: QA: RG	No. 50 Q

	WINDOW SCHEDULE										
UNIT NO.	LEVEL	CODE	HEIGHT	WIDTH	SILL HEIGHT	WINDOW TYPE					
UNIT 1											
UNIT 1	U1 GL	U1-1	2400	2100	0	AWNING					
UNIT 1	U1 GL	U1-2	2400	1000	0	AWNING					
UNIT 1	U1 GL	U1-3	2400	3600	0	SLIDING DOOR					
UNIT 1	U1 L1	U1-4	2400	2800	0						
UNIT 1	U1 L1	U1-5	2400	1000	300	AWNING					
UNIT 1	U1 L1	U1-6	1500	1200	900	AWNING					
UNIT 1	U1 L1	U1-7	1500	1200	900	AWNING					
UNIT 1	U1 L1	U1-8	1500	1200	900	AWNING					
UNIT 1	U1 L1	U1-9	1500	1200	900	AWNING					
UNIT 1	U1 GL	U1-10	2400	600	3000	FIXED					
UNIT 2											
UNIT 2	GROUND FLOOR	U2-1	2400	900	0	LOUVRE					
UNIT 2	GROUND FLOOR	U2-2	2400	4500	0	SLIDING DOOR					
UNIT 2	LEVEL 1	U2-3	2400	900	0	AWNING					
UNIT 2	LEVEL 1	U2-4	2400	900	0						
UNIT 2	LEVEL 1	U2-5	1800	2000	600	AWNING					
UNIT 2	LEVEL 1	U2-6	1800	900	300	AWNING					
UNIT 2	LEVEL 1	U2-7	1500	2200	600	AWNING					
UNIT 2	LEVEL 1	U2-8	965	711		SKYLIGHT					
UNIT 3											
UNIT 3	GROUND FLOOR	U3-1	2400	900	0	LOUVRE					
UNIT 3	GROUND FLOOR	U3-2	900	1800	1500						
UNIT 3	GROUND FLOOR	U3-3	1200	1800	1200						
UNIT 3	GROUND FLOOR	U3-4	2400	4500	0	SLIDING DOOR					
UNIT 3	LEVEL 1	U3-5	2400	900	0	AWNING					
UNIT 3	LEVEL 1	U3-6	2400	900	0						
UNIT 3	LEVEL 1	U3-7	900	2000	1500	AWNING					
UNIT 3	LEVEL 1	U3-8	1500	1800	800						
UNIT 3	LEVEL 1	U3-9	1000	1000	1100						
UNIT 3	LEVEL 1	U3-10	1200	1500	900						
UNIT 3	LEVEL 1	U3-11	1200	1800	900	AWNING					
UNIT 3	LEVEL 1	U3-12	965	711		SKYLIGHT					

WINDOW SCHEDULE									
UNIT NO.	LEVEL	CODE	HEIGHT	WIDTH	SILL HEIGHT	WINDOW TYPE			
UNIT 4									
UNIT 4	GROUND FLOOR	U4-1	2400	900	0	LOUVRE			
UNIT 4	GROUND FLOOR	U4-2	1000	1000	1400				
UNIT 4	GROUND FLOOR	U4-3	2400	1000	0				
UNIT 4	GROUND FLOOR	U4-4	2400	1000	0				
UNIT 4	GROUND FLOOR	U4-5	2400	4500	0	SLIDING DOOR			
UNIT 4	LEVEL 1	U4-6	2400	900	0	AWNING			
UNIT 4	LEVEL 1	U4-7	2400	900	0				
UNIT 4	LEVEL 1	U4-8	1800	2000	600	AWNING			
UNIT 4	LEVEL 1	U4-9	1000	1000	1100				
UNIT 4	LEVEL 1	U4-10	1200	1500	900				
UNIT 4	LEVEL 1	U4-11	1200	1800	900	AWNING			
UNIT 4	LEVEL 1	U4-12	965	711		SKYLIGHT			
UNIT 5				I.		ORTEIGHT			
UNIT 5	GROUND FLOOR	U5-1	2400	900	0	LOUVRE			
UNIT 5	GROUND FLOOR	U5-2	2400	4500	0	SLIDING DOOR			
UNIT 5	LEVEL 1	U5-3	2400	900	0	AWNING			
UNIT 5	LEVEL 1	U5-4	2400	900	0				
UNIT 5	LEVEL 1	U5-5	1800	2000	600	AWNING			
UNIT 5	LEVEL 1	U5-6	1800	900	300	AWNING			
UNIT 5	LEVEL 1	U5-7	1500	2200	600	AWNING			
UNIT 5	LEVEL 1	U5-8	965	711		SKYLIGHT			
UNIT 6									
UNIT 6	U6 GL	U6-1	1800	1800	600				
UNIT 6	LEVEL 4	U6-2	940	2410	421				
UNIT 6	GROUND FLOOR	U6-3	940	2410	1460				
UNIT 6	U6 GL	U6-4	2400	3600	0	SLIDING DOOR			
UNIT 6	U6 GL	U6-5	2400	1000	0	AWNING			
UNIT 6	U6 GL	U6-6	2100	600	300				
UNIT 6	GROUND FLOOR	U6-7	2400	600	3000	FIXED			
UNIT 6	U6 L1	U6-8	1500	1200	900	AWNING			
UNIT 6	U6 L1	U6-9	1500	1200	900	AWNING			
UNIT 6	U6 L1	U6-10	1500	1200	900	AWNING			
UNIT 6	U6 L1	U6-11	1500	1200	900	AWNING			
UNIT 6	U6 L1	U6-12	2400	1000	0	AWNING			
UNIT 6	LEVEL 1	U6-13	1200	1200	900				
UNIT 6	U6 L1	U6-14	1800	1800	600				

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All parking and ramps to traffic engineers details.

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REF. DATE AMENDMENT Q 16.04.2019 Consultants  DISCLAIMER All dimensions are in millimeters. Verify all dimensions on site prior to commencement of any work. Copyright of DWA.	Legend:   FB01	SLW   SLIDING WINDOW   P   POST   T   TIMBER FLOORS	Wollongong 81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661 P.O. Box 3091, Balgownie NSW 2519  Sydney Suite 704, 31 Market Street, Sydney  Wollongong 81a Princes Highway, Fairy Meadow Tel: (02) 4227 1661 P.O. Box 3091, Balgownie NSW 2519  Sydney Suite 704, 31 Market Street, Sydney	CLIENT: BUCHANAN/ PERRETT MEDIUM DENSITY  ADDRESS: 9-11 BUNDARRA PLACE, DAPTO  DRAWING NAME: WINDOW SCHEDULE	DATE: APRIL 18 DRAWN: NT, DL SCALE:  OA: RG  PROJECT No.  1752  DWG No. 60 Q

# PN1752 – EXTERNAL COLOUR PALETTE – 9-11 BUNDERRA PLACE, DAPTO



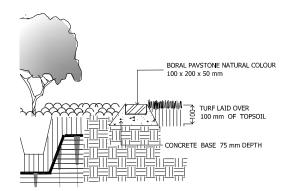




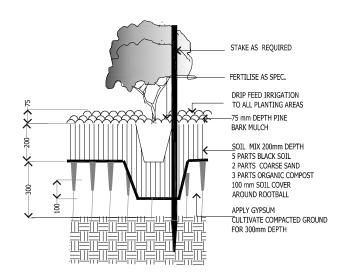
BW01 PGH 'OLYMPUS'













#### MAINTENANCE

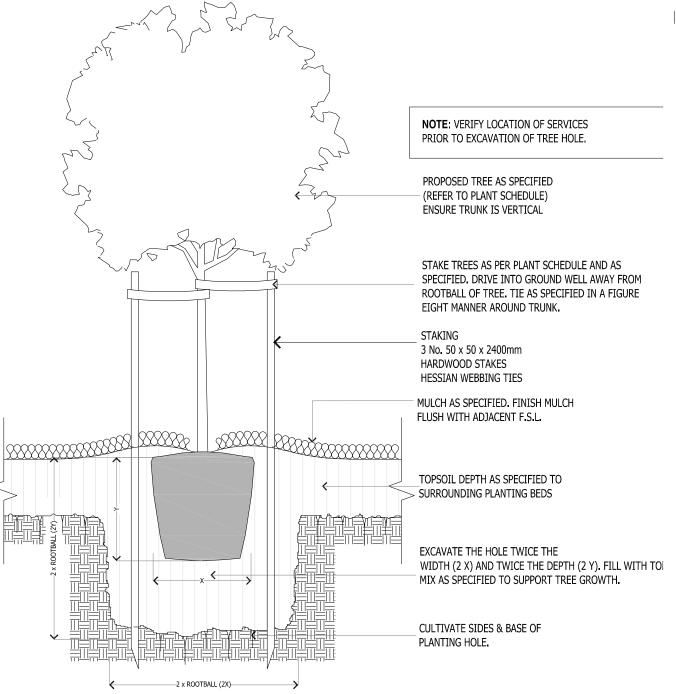
MAINTENANCE SHALL MEAN CONTINUING CARE OF THE LANDSCAPE AREAS BY ACCEPTED HORTICULTURAL PRACTICES, AS WELL AS RECTIFYING ANY DEFECTS THAT BECOME APPARENT IN THE WORKS UNDER NORMAL USE.

THE MAINTENANCE PERIOD SHALL BE IN TWO PARTS.

PLANTING ESTABLISHMENT PERIOD OF 13 WEEKS.
 CONTINUING CARE AND MAINTENANCE CORRESPONDING WITH THE DEFECTS LIABILITY

THE PLANTING ESTABLISHMENT PERIOD COMMENCES AT THE DATE OF PRACTICAL COMPLETION...

THE MAINTENANCE PROGRAM SHALL INCLUDE THE FOLLOWING HORTICULTURAL ITEMS, WHERE AND AS REQUIRED: WATERING, MOWING, FERTILIZING, TURFING, EDGING, WEEDING, PEST AND DISEASE CONTROL, STAKING AND TYING, REPLANTING, CULTIVATION, PRUNING, TOP UP CONSOLIDATED MULCH DEPTHS, RECTIFY DRAINAGE DEFECTS, MAINTAIN SITE NEAT AND TIDY.





# MATURE TREE PLANTING DETAIL

SCALE 1:20 @ A3

# PLANTING SCHEDULE

	TREES				
	Symb.	Botanical Name	Common Name	Size	No.
	ER	Elaeocarpus reticulatus	Blueberry Ash	25 Litre	10
	GLf	Glochidion ferdinandi	Cheese Tree	25 Litre	8
	LI	Lagerstroemca indica	Crepe Myrtle	25 Litre	4
	TL	Tristaniopus laurina x Luscious	Water Gum	25 Litre	13
	WS	Waterhousia floribunda	'Sweeper' Waterhousia	25 Litre	4
	SHRUBS	5			
_	AM	Acmena smlthll var minor	Acmena Allyn Magic	5 Litre	8
	BJ	Buxus japonica	Japanese Buxus	5 Litre	35
	CL	Callistemon viminalis	Little John Bottlebrush	5 Litre	9
	GFw	Grevillea hybrid	Fireworks	5 Litre	116
_	GRo	Grevillea rosmarinifolia	Rosemary Grevillea	5 Litre	15
	LL	Lomandra longifolia	Swordgrass	140mm	35
	LR	Loropetalum rubrum	China Pink	5 Litre	11
	LT	Lomandra sp.	Tanika	140mm	301
	MF	Metrosiderous collina	FljI Flre	5 Litre	19
	MP	Murraya paniculata	Mock Orrange	5 Litre	44
	MT	Metrosiderous collina	Tahiti	5 Litre	37
	SC	Syzigium wilsonii 'Cascade"	Cascade Lilly Pilly	5 Litre	3
	SR	Syzigium australe	Resillience	5 Litre	83
	GROUN	D COVERS			
	GR	Grevilea poorinda	Grevillea Royal Mantle	140mm	114

#### NOTES

- FOR DRAINAGE POINTS IN PAVING AND PLANTER
- 800mm SOIL COVER MINIMUM OVER ALL CONCRETE STRUCTURES IN LANDSCAPE AREAS. GREATER WHERE INDICATED ON PLANS AND DETAILS
- INSTALL DRIPER FEED IRRIGATION TO PLANTING BEDS, PLANTING BOXES, AND TURF AREAS. SHOP DWG BY CONTRACTOR.
- FOR ALL HARD SURFACES AND DETAILING REFER TO ARCH. DRAWINGS.
- LANDSCAPE AND DRAINAGE DRAWINGS ARE

1	01	Preliminary	00-00-2014	WJM
ĺ	rev. no	description	date	drawn
- 1				

Project:

Proposed Medium Density Development 9-11 Bundarra Place, Dapto

Client: Buchanan / Perrett



ARCHITECT

16/105 Corrimal Street, WOLLONGONG MOBILE: 0411 774051 bil.la@optusnet.com.au

> Aug 2018 SHEET 2 OF 2

LA.DA.02 LANDSCAPE DETAILS

MEMBRANE BARRIER. VAPOUR BARRIER SHALL BE POLYETHYLENE SHEETING OF MIN. 0.2mm THICKNESS . LAPPING SHALL BE NOT LESS THAN 200mm AT JOINTS . PENETRATIONS BY PIPES SHALL BE TAPED.

SP6. BACKFILLING AND COMPACTION OF FILL SHALL BE CARRIED OUT SIMULTANEOUSLY ON EACH SIDE OF WALLS.

SP7. ALL FINISHED SURFACE LEVELS OF EARTHWORKS ARE TO GRADE AWAY FROM THE BUILDING & DIVERT RUNOFF INTO THE STORMWATER DRAINAGE SYSTEM IN ACCORDANCE WITH THE RELEVANT CONTRACT DRAWINGS.

SP8. ALL PAD FOOTING EXCAVATIONS ARE TO BE BACKFILLED UP TO FINISHED SURFACE LEVEL.

# **ENVIRONMENT**

THE BUILDERS ATTENTION IS CALLED TO OBSERVE ANY COUNCIL, E1 EPA, OTHER AUTHORITY'S OR CONTRACT CONDITIONS IN COMPLYING WITH MANAGEMENT OF EXCAVATION, SOIL MOVEMENT, SEDIMENT CONTROL AND DUST SUPPRESSION.

- 1. ALL WORK TO BE IN ACCORDANCE WITH THE DEVELOPMENT CONSTRUCTION SPECIFICATION OF THE WOLLONGONG CITY COUNCIL.
- 2. MAKE SMOOTH CONNECTION TO ALL EXISTING ENGINEERING WORK.
- ALL EXISTING SERVICES TO BE LOCATED AND LEVELED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
- 4. ALL SERVICES AFFECTED BY NEW WORK, TO BE ADJUSTED TO SUIT IN N4. THE FIELD, TO THE SATISFACTION OF THE RELEVANT SERVICE AUTHORITY.
- WHILE WORKING ON COUNCIL ROADS OR ROAD RESERVES, CONTRACTOR TO PROVIDE A TRAFFIC CONTROL PLAN WHICH COMPLIES WITH A.S. 1742.3–1996. A COPY OF THE PLAN SHOWING LAYOUT OF PROPOSED TRAFFIC CONTROL FOR THE COMMENCEMENT OF WORK AND CERTIFIED BY A SUITABLY QUALIFIED PERSON, IS TO BE SUBMITTED TO COUNCIL PRIOR TO THE COMMENCEMENT OF ANY WORK. FURTHER PLANS ARE TO BE SUBMITTED IF WORK SITE ALTERS.
- ANY ROAD RESTORATION REQUIRED SHALL BE IN 300mm LAYERS OF DGS 40 FROM THE BOTTOM OF TRENCH OR TOP OF SAND OVERLAY OVER ANY PIPES, COMPACTED TO A MINIMUM OF 100% STANDARD COMPACTION, WITH THE FINAL LAYER OF 100mm DGB 20 COMPACTED TO A MINIMUM OF 100% STANDARD COMPACTION AND FINISHED LEVEL WITH EXISTING ROAD SURFACE.
- 7. ALL DISTURBED SURFACES ARE TO BE REINSTATED TO AS NEARLY AS POSSIBLE TO THE PRE CONSTRUCTION CONDITION.

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- 29. HAND EXCAVATE STORMWATER PIPES IN VICINITY OF TREE ROOTS
- 30. FOOTPATH CROSSING LEVELS SHOWN ARE TO BE ADJUSTED TO FINAL COUNCIL'S ISSUED LEVELS
- 31. ALL FENCES MUST BE RAISED 150mm FROM FINISHED GROUND LEVELS SO THAT OVERLAND FLOWS FROM UPSTREAM PROPERTIES ARE NOT RESTRICTED OR BLOCKED.

# STORMWATER DRAINAGE CERTIFICATION:

- PROVIDE CERTIFICATION THAT THE WHOLE INSTALLATION MEETS THE STANDARDS REFERRED TO IN THESE SPECIFICATIONS AND THE REQUIREMENTS OF AUTHORITIES AS WELL AS THE SUPPLY UTILITY.
- ON COMPLETION OF DRAINAGE WORKS THE CONTRACTOR TO SUPPLY TO THE ENGINEER WORK AS EXECUTED DRAWINGS CERTIFIED BY A REGISTERED SURVEYOR.

- THAT THE AGGREGATE IS COMPATIBLE WITH THE INSITU MATERIAL. THE FABRIC SOCK CAN BE OMITTED UNDER THESE CIRCUMSTANCES.
- SUB-SOIL DRAINAGE TO BE PROVIDED BEHIND KERB AND GUTTER ON THE HIGHER SIDE OF ALL ROADS AND ELSEWHERE WHERE DEEMED NECESSARY BY COUNCILS INSPECTING OFFICER. SUBSOIL DRAINS TO BE DIRECTED TO THE NEAREST DOWNSTREAM PIT.
- SUB-SOIL DRAINS TO BE PROVIDED BEHIND KERB AND GUTTER. DRAINS TO CONSIST OF 100MM SOCKED SLOTTED SUB SOIL DRAINAGE PIPE IN A 600MM DEEP BY 300MM WIDE TRENCH, BACKFILLED WITH 7-20mm AGGREGATE. SUBSOIL DRAINAGE PIPES SHALL BE CONNECTED TO THE INVERT OF THE NEAREST OUT TO THE SURFACE WHERE SUITABLE.
- SUB-SOIL DRAINS SHOULD BE PROVIDED ALONG THE UPSLOPE PERIMETER OF THE PAVEMENTS ADIOINING OPEN GROUND OR WHERE OTHER CONDITIONS DEMAND. INVERTS SHOULD BE NOT LESS THAN 0.2M BELOW CLAY SUBGRADE LEVEL. THE DRAINAGE TRENCH SHOULD BE EXCAVATED WITH A LONGITUDINAL FALL TO APPROPRIATE DISCHARGE POINTS SO AS TO REDUCE THE RISK OF WATER PONDING. THE PAVEMENT SUBGRADE MAY NEED TO BE GRADED TO PROMOTE WATER FLOW OR INFILTRATION TOWARDS THE SUBSOIL DRAINS.

LEGEND		
AHD AG	AUSTRALIAN HIGH DATUM AGG PIPE	
ARI BG	AVERAGE RECURRENCE INTERVAL BOX GUTTER	
BP BWT	BASEMENT PIT. BOTTOM WATER LEVEL	
CL CO DP	COVER LEVEL CLEAN OUT INSPECTION OPENNING DOWNPIPE.	
EDP EG	EXISTING DOWN PIPE EAVES GUTTER	
EP FFL	EXISTING PIT. FINISHED FLOOR LEVEL	
GI GP	GALVANISED IRON GRATE. GROUND PIT.	
HDG IL	HEAVY DUTY CAST IRON GRATE. INVERT LEVEL	
IO JP	INSPECTION OPENING JUNCTION PIT.	
K KIP LDG	KERB. KERB INLET PIT. LIGHT DUTY CAST IRON GRATE.	
MDG NTS	MEDIUM DUTY CAST IRON GRATE.  NOT TO SCALE	
O/F OSD	OVER FLOW ONSITE DETENTION	
PE PD	EASEMENT PIT. PARKING DRAIN	
PSD RCP	PERMISSIBLE SITE DISCHARGE REINFORCED CONCRETE PIPE	
RHS RL	RECTANGULAR HOLLOW SECTION REDUCED LEVEL	
RRJ RWT RWO	RUBBER RING JOINTED RAINWATER TANK RIANWATER OUTLET	
RWH SFL	RAIN WATER HEAD SLAB FINISHED LEVEL	
SP SS	SPREADER. STAINLESS STEEL	
SU SWP	BOX GUTTER SUMP STORMWATER PIT	
TOK TW	TOP OF KERB TOP OF WALL	
TWL U/S VG	TOP WATER LEVEL UNDER SIDE OF SLAB VALLY GUTTER	
UNO	UNLESS NOTED OTHERWISE	

12

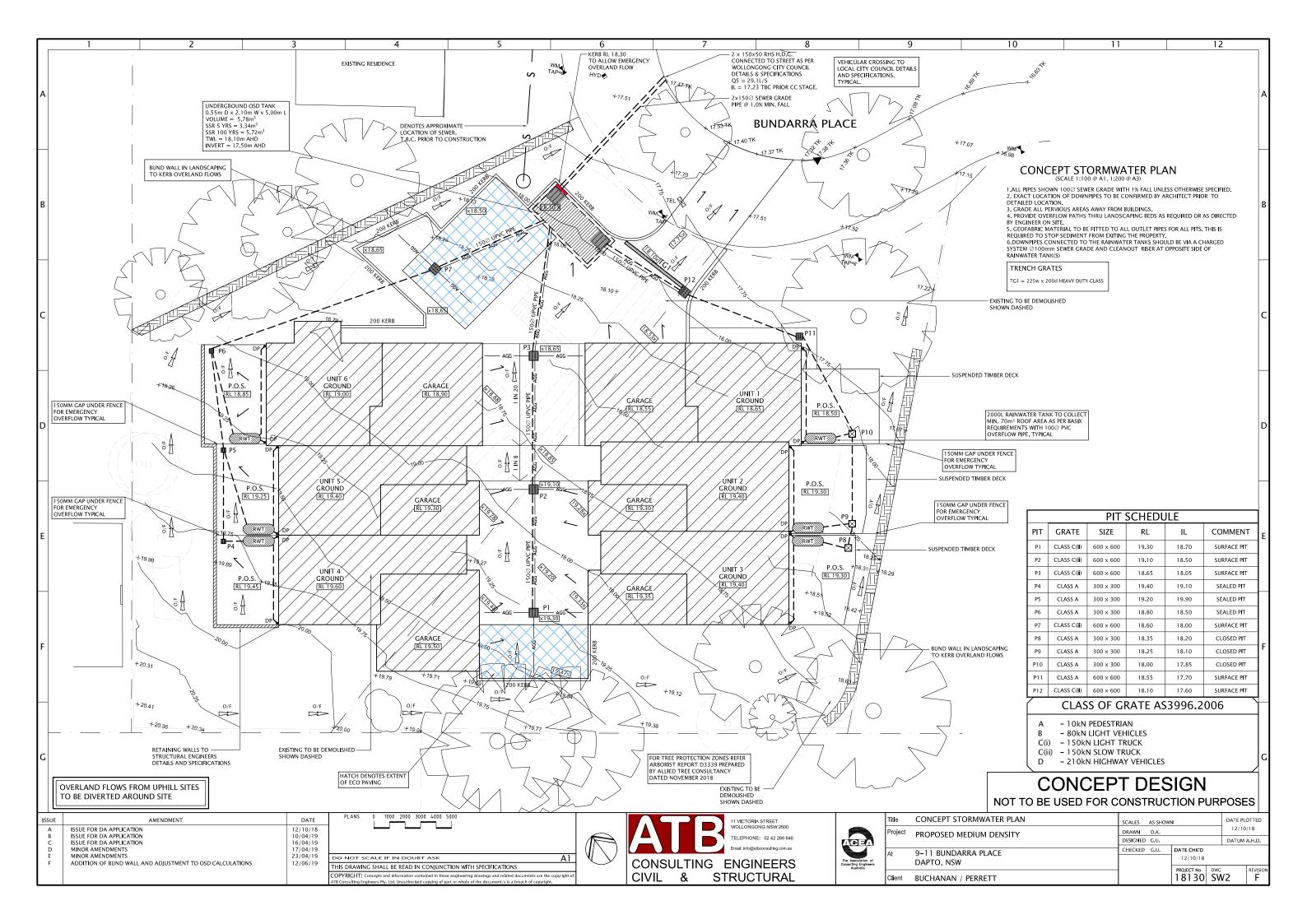
SERVICES CONFLICT: IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK FOR ANY CONFLICT OF SERVICES IN THE FOOTPATH & VERIFY LEVELS OF THE EXISTING STORM WATER CONNECTION BEFORE ANY COMMENCEMENT OF WORK

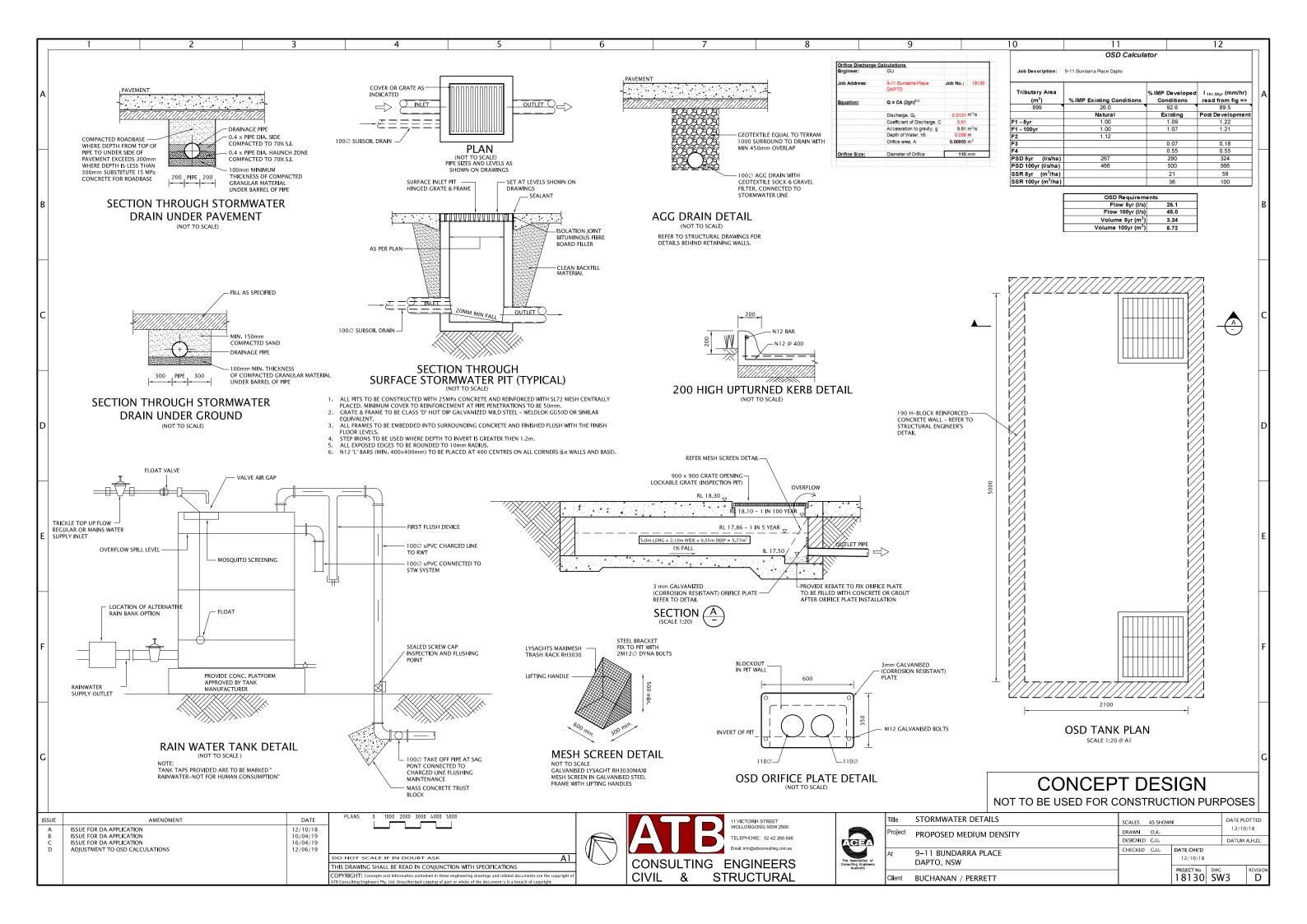
ATB CONSULTING ENGINEERS TAKES NO RESPONSIBILITY OR LIABILITY FOR ANY DAMAGES OR LOSSES INCURRED TO ANY PERSONS OR PROPERTY (INCLUDING THE DEVELOPMENT SITE) AS A RESULT OF MISINTERPRETATION OF THE RESULTS AND UNFORESEEN CIRCUMSTANCES SUCH AS POOR CONSTRUCTION, LACK OF MAINTENANCE AFTER CONSTRUCTION, ALTERATIONS TO GROUND LEVELS UPSTREAM, DOWNSTREAM OR ADJACENT TO THE DEVELOPMENT.

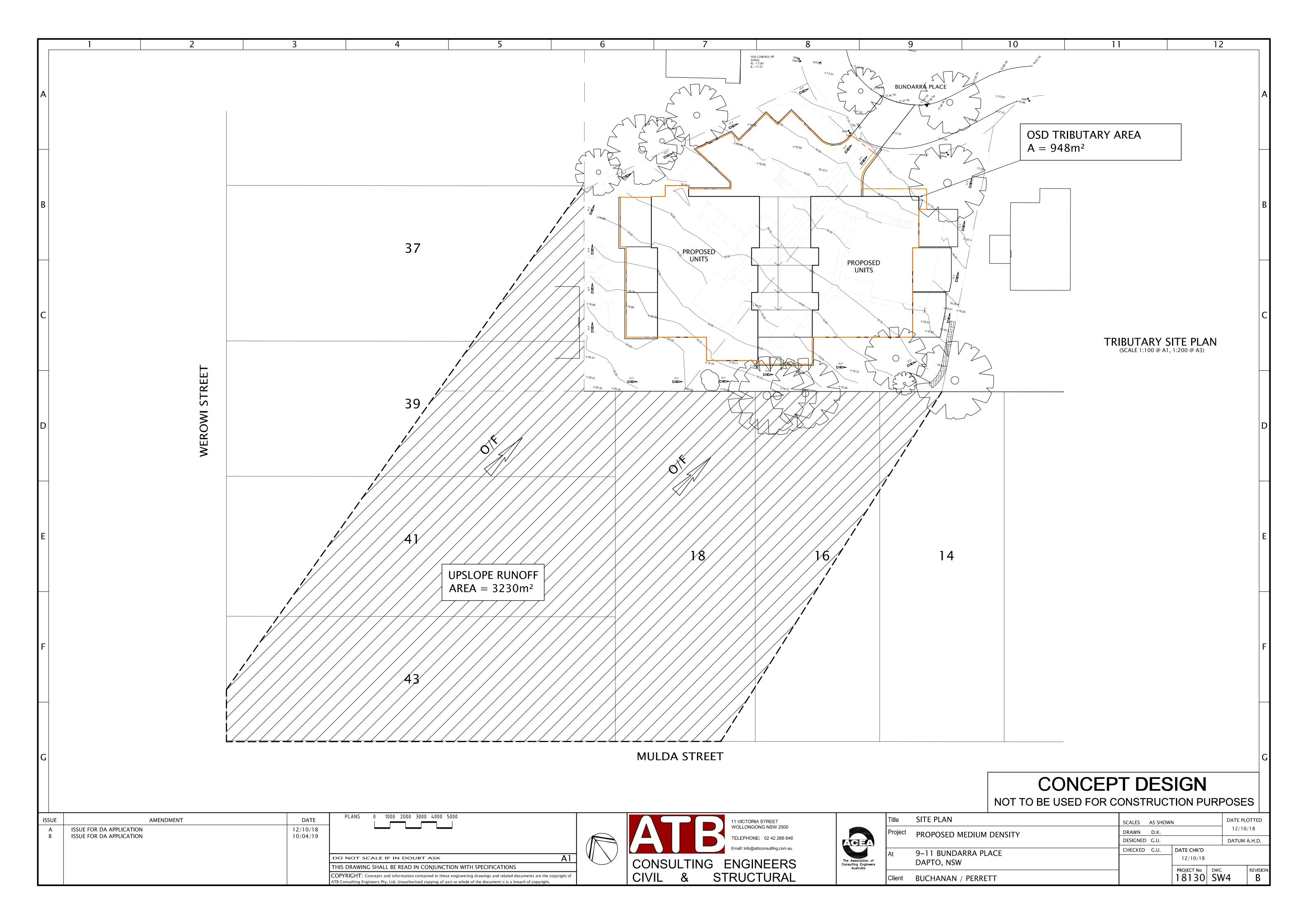
# CONCEPT DESIGN

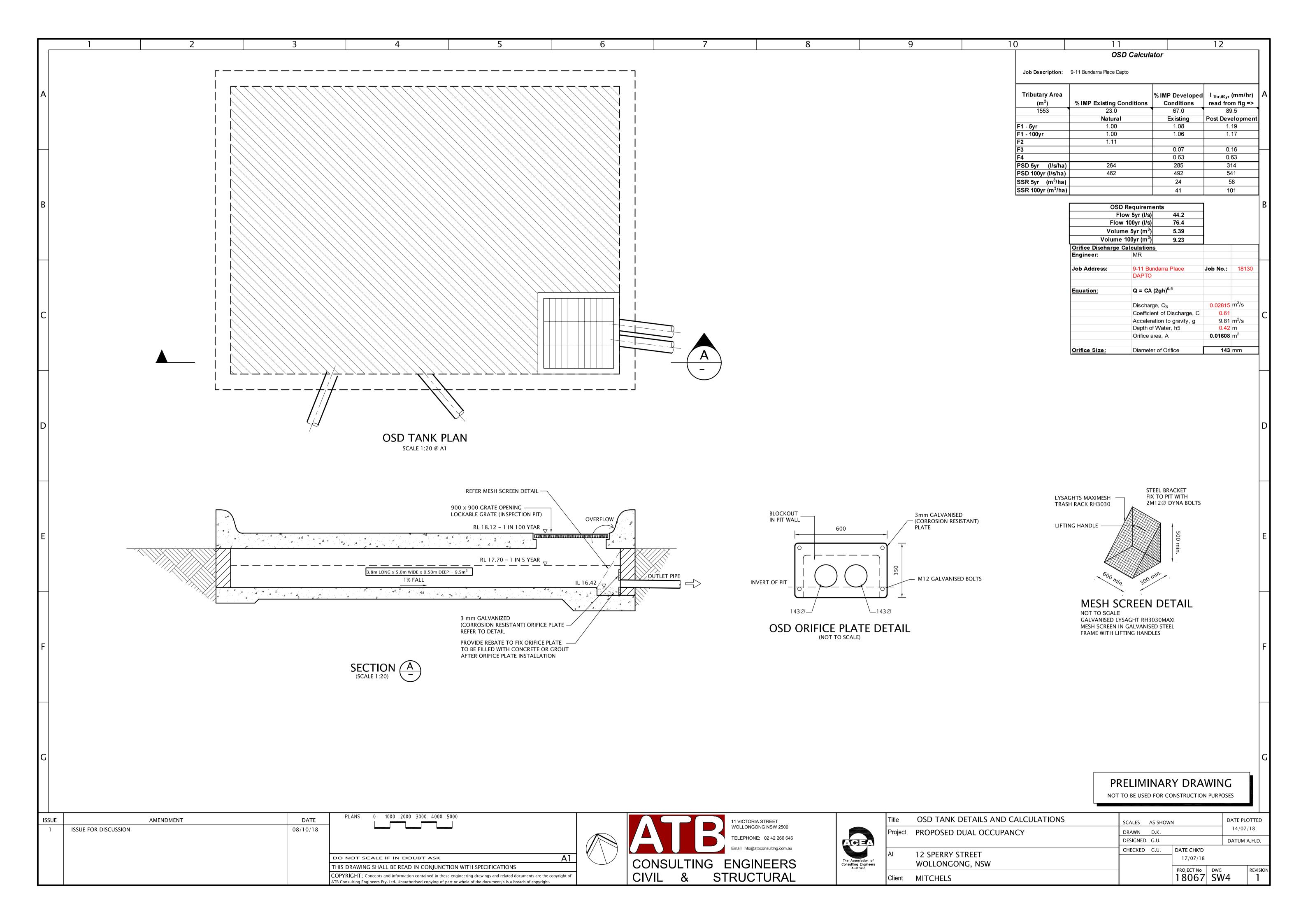
NOTES AND LEGENDS **ISSUE AMENDMENT** 11 VICTORIA STREET WOLLONGONG NSW 2500 ISSUE FOR DA APPLICATION PROPOSED MEDIUM DENSITY TELEPHONE: 02 42 266 646 Emall: Info@atbconsultIng.com.au 9–11 BUNDARRA PLACE DO NOT SCALE IF IN DOUBT ASK CONSULTING ENGINEERS DAPTO, NSW THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SPECIFICATIONS STRUCTURAL

NOT TO BE USED FOR CONSTRUCTION PURPOSES DATE PLOTTED SCALES AS SHOWN 12/10/18 DRAWN D.K. DESIGNED G.U. DATUM A.H.D. CHECKED G.U. DATE CHK'D 12/10/18 PROJECT No DWG REVISION 18130| SW1 BUCHANAN / PERRETT









Α1

CONSULTING ENGINEERS

STRUCTURAL

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WATER ACCUMULATING IN ANY SORT OF EXCAVATION WITHIN THE SITE

12

WATER FROM EXCAVATIONS MUST NOT BE DISCHARGED FROM THE SITE UNLESS IT CONTAINS LESS THAN 50MG/L OF SUSPENDED SOLIDS. FLOCCULATION SHOULD BE USED TO ACHIEVE THIS WHERE NECESSARY.

HOWEVER, IF THE WATER IS GOING TO BE USED WITHIN THE CONSTRUCTION SITE FOR DUST-SUPPRESSION PURPOSES AND WILL DRAIN BACK INTO THE SEDIMENT CAPTURE SYSTEM IT WILL NOT

A SELF-AUDITING PROGRAM MUST BE INITIATED FOR THE SITE. THE SITE MANAGER IS TO INSPECT THE SITE AT LEAST WEEKLY AND

REMOVAL OF SPILLED SOILS OR OTHER MATERIALS FROM NEAR RIPARIAN

ENSURING BARRIER FENCING IS MAINTAINED AND EXCLUSION ZONES

CONSTRUCTING ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED WATER CONTROL IS ACHIEVED I.E. PREPARE PROGRESSIVE SWMP'S (PREFERABLY

MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES IN A

REMOVAL OF TRAPPED SEDIMENT AND DISPOSAL TO SAFE AREAS.

AREAS OF LOCALISED SOIL EROSION ARE TO BE IDENTIFIED AND APPROPRIATE PREVENTATIVE MEASURES IMPLEMENTED. THESE WILL

A. PLANTING ADDITIONAL STABILISLING VEGETATION OR WIND BRAKES. B. STABILSING SOILS WITH MULCHES OR ALTERNATIVE SOIL BINDERS. C. TAKING STEPS TO MINIMISE ANY CONCENTRATED STROMWATER

STOCKPILE LOCATIONS ARE SHOWN ON THE 11000136-SWMP02. THE SITE MANAGER IS TO DESIGNATE SAFE STOCKPILE SITES IN THESE LOCATIONS. THE LOCATIONS OF THE STOCKPILES CAN BE MOVED AT THE DISCRETION OF THE SITE MANAGER TO AN ALTERNATIVE LOCATION WITH THE WORKS (I.E. NOT THE NO-GO ZONES). HOWEVER, THEY SHOULD INCORPORATE CLEARLY DEFINED ACCESS CONTROLS AND

ALL STOCKPILES MUST BE CONSTRUCTED AND MAINTAINED AND THE

- ALL STOCKPILES MUST HAVE SEDIMENT FENCING INSTALLED AROUND

- MULCHED VEGETATION, TOPSOIL AND SUBSOIL (IF APPLICABLE) ARE TO BE STOCKPILED SEPARATELY. - STOCKPILES ARE TO BE TRIMMED. DEEP RIPPED TO 300MM, IMMEDIATELY SOWN WITH PERMANENT PASTURE

- STOCKPILES ARE TO BE STABILIZED TO ACHIEVE A C-FACTOR OF 0.1

- STABILIZATION MEASURES ON STOCKPILES MUST BE EMPLOYED AS PER THE REQUIREMENTS SET OUT IN TABLE 1 AND TABLE 2.

- STOCKPILES SHOULD BE CONSTRUCTED TO NO MORE THAN 2METRES

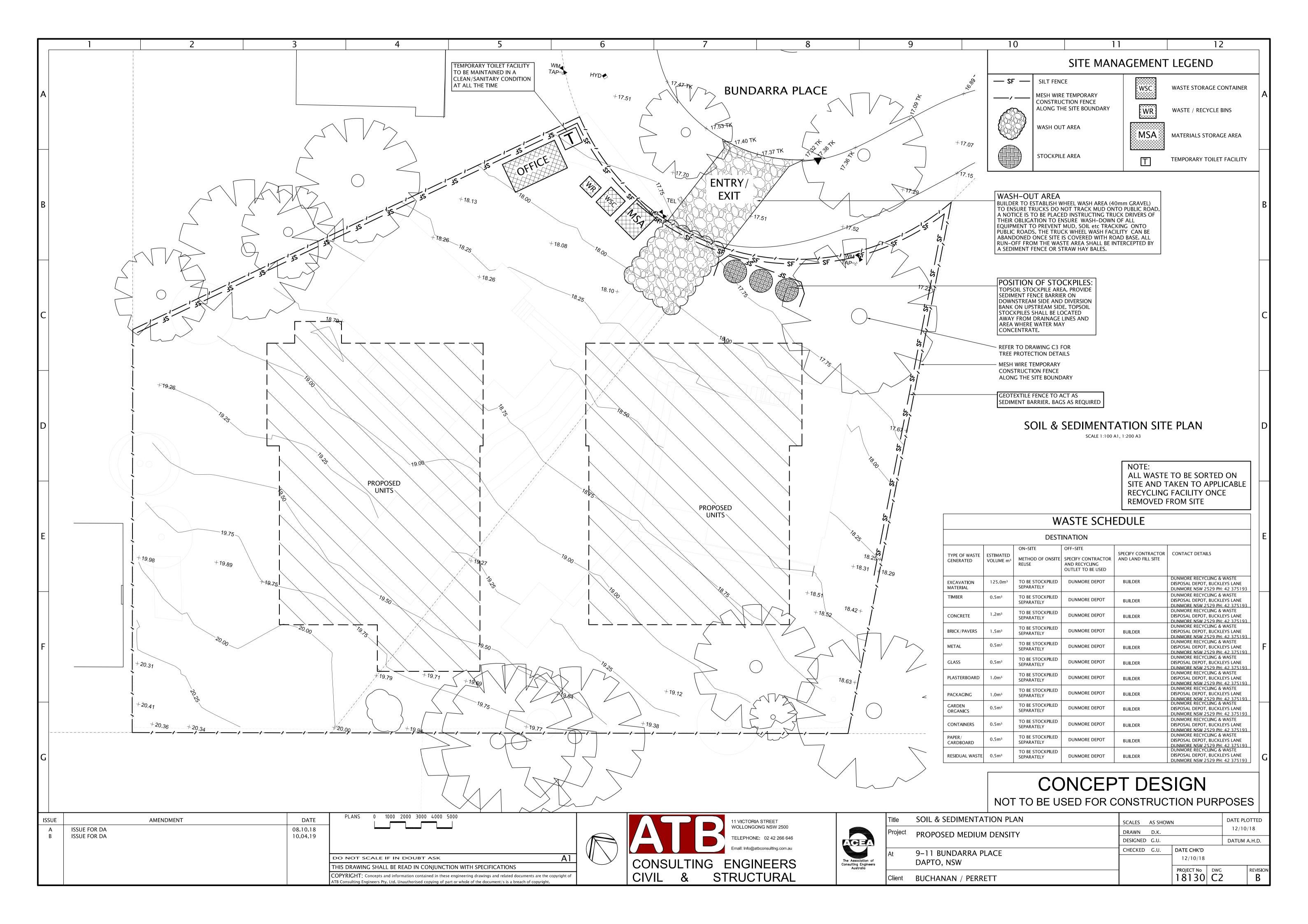
- THE WORKING FACE OF THE STOCKPILE SHOULD BE BATTERED DOWN

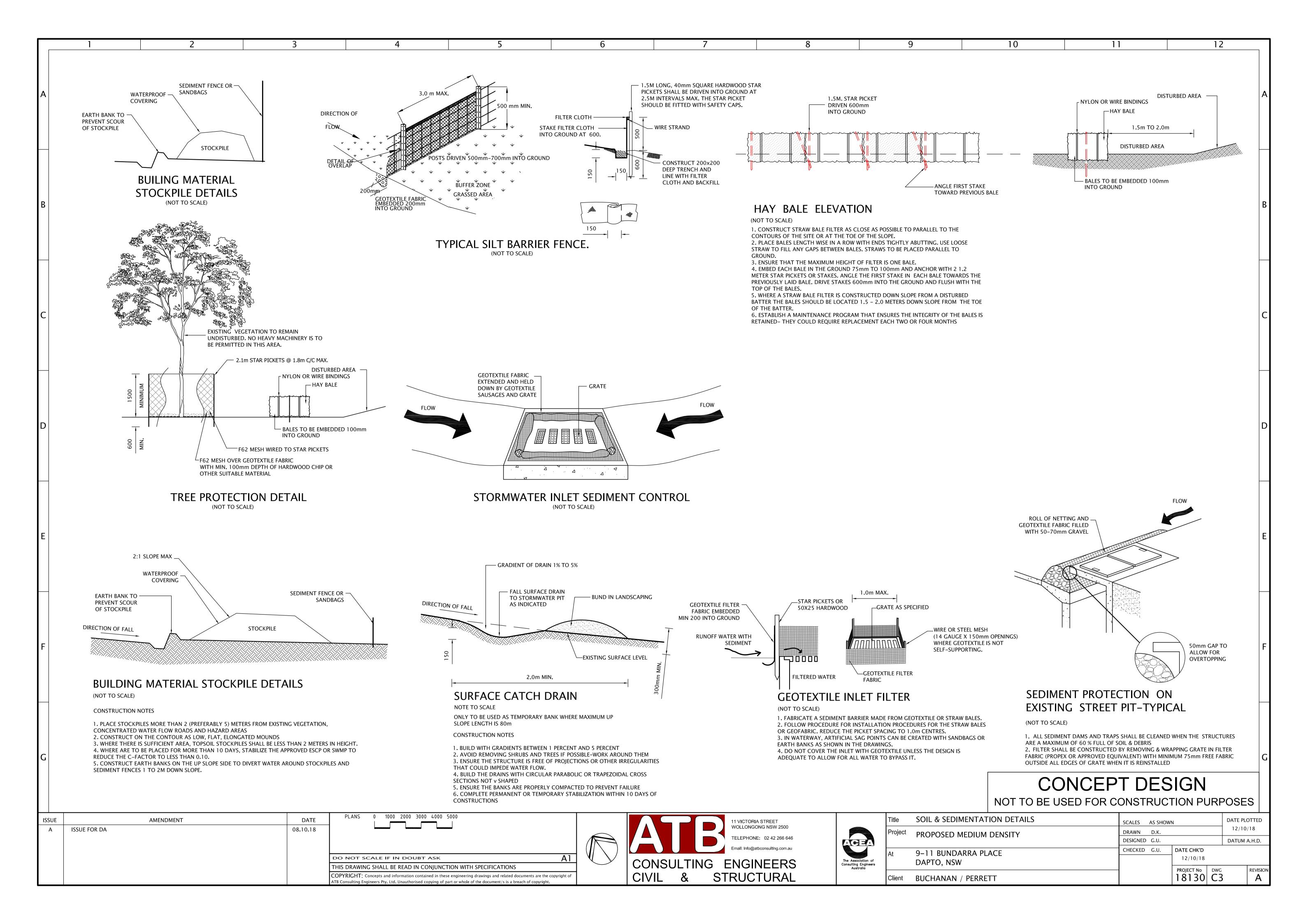
ENSURE SLOPE LENGTH ON DISTRIBUTED SURFACES IS LESS THAN 80M

DIVERSION BUNDS/DRAINS, LOW FLOW EARTH BANKS OR SANDBAGS/EQUIVALENT SHOULD BE INSTALLED PRIOR TO ANY

# CONCEPT DESIGN NOT TO BE USED FOR CONSTRUCTION PURPOSES

DATE PLOTTED SCALES AS SHOWN 12/10/18 DRAWN D.K. DESIGNED G.U. DATUM A.H.D. CHECKED G.U. DATE CHK'D 9–11 BUNDARRA PLACE 12/10/18 The Association of Consulting Engineers Australia DAPTO, NSW PROJECT No DWG REVISION 18130| C1 **BUCHANAN / PERRETT** 









Date: 1 February 2019

**Description:** View to the East of adjoining dwellings to the rear of No.9 Bundarra Place.

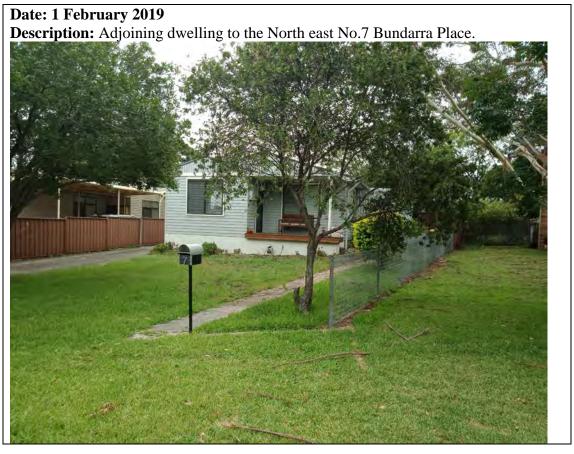


Date: 1 February 2019

**Description:** View to the rear of No.9 Bundarra Place. Photo shows shed to the rear of dwelling.















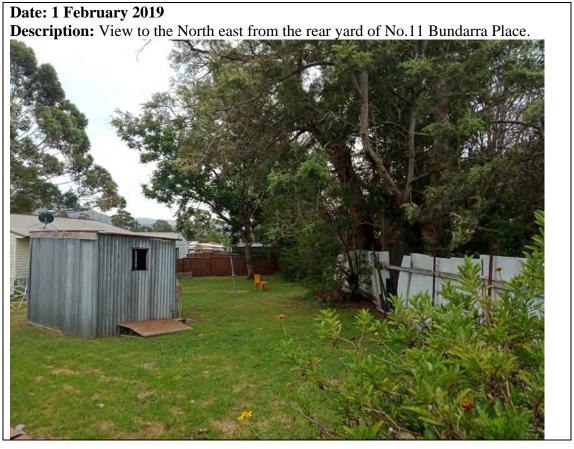
Date: 1 February 2019

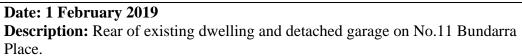
**Description:** Adjoining dwelling to the West No.12 Bundarra Place as viewed from the street forward of No.11 Bundarra Place.















Date: 1 February 2019

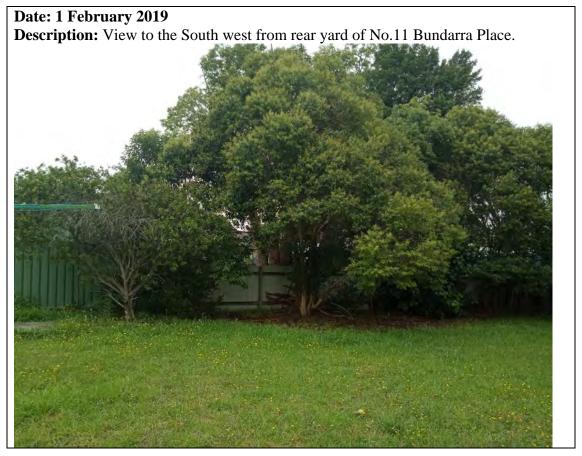
**Description:** View to South east of adjoining dwelling to the rear of No.11 Bundarra Place.



Date: 1 February 2019

**Description:** View to the South of adjoining development to the rear of No.11 Bundarra Place.









# Attachment 3: WDCP 2009 compliance table

#### **CHAPTER A1 – INTRODUCTION**

#### 8 Variations to development controls in the DCP

The applicant proposes variations to Clauses 4.1.2(1) of Chapter B1. The variation request is considered justified and supportable. See considerations at Chapter B1 Residential Development table below.

#### **CHAPTER A2: ECOLOGICALLY SUSTAINABLE DEVELOPMENT**

Development controls to improve the sustainability of development throughout Wollongong are integrated into the relevant chapters of this DCP.

Generally speaking, the proposal could be considered to be consistent with the principles of Ecologically Sustainable Development.

#### **CHAPTER B1 – RESIDENTIAL DEVELOPMENT**

#### 4.0 General Residential controls

Chapter B1 contains residential development controls for multi dwelling housing. Clause 5 applies to multi-dwelling housing and provides additional controls to those in Section 4 (excluding 4.1 to 4.11 and 4.19 to 4.22 that must also be taken into consideration.

#### 4.0 General Residential controls

Controls/objectives	Comment	Compliance
<ul> <li>4.11 Storage Facilities</li> <li>3 bedroom- 10m³ storage volume to 5m² storage area</li> </ul>	The proposed development will provide adequate storage facilities.	Yes
<ul> <li>4.12 Site Facilities</li> <li>letterboxes in an accessible location</li> <li>air-con, satellite dishes and other ancillary structures to be located away from street frontage, not in a place where they are a skyline feature and adequately setback</li> </ul>	The necessary site facilities have been provided and are acceptable in this circumstance.	Yes
<ul> <li>4.13 Fire Brigade Servicing</li> <li>All dwellings located within 60m of a fire hydrant</li> </ul>	The subject site can be adequately serviced by fire fighting vehicles in this circumstance.	Yes
<ul><li>4.14 Services</li><li>Encourage early consideration of servicing requirements</li></ul>	Water, electricity, sewage and telephone services are available to the site	Yes
<ul> <li>4.15 Development near the coastline</li> <li>Must minimise built intrusions into coastal landscape</li> <li>Retain views to the ocean from roads and public spaces</li> <li>Maintain buildings consistent with coastal character</li> </ul>	Not Applicable	N/A
<ul> <li>4.16 View sharing</li> <li>To protect and enhance view sharing, significant view corridors</li> </ul>	The proposed development will have minimal impact on view corridors of	Yes

• A range of view sharing measures to be considered for building design

existing development.

#### 4.17 Retaining walls

• To ensure well designed retaining walls that are structurally sound

The proposed retaining walls are considered acceptable in this circumstance as reasonable wall heights and setbacks to the site boundaries have been maintained. The proposed retaining walls are internal to the site and treatment at the North eastern and Western side boundaries consists of small earthen bund walls to prevent the concentration of overland flows onto adjoining properties. Treatment at all other site boundaries is at existing grade.

Yes

# 4.18 Swimming pools and spas

 To ensure relevant safety standards meet user's needs.

 To ensure site and design maintain the amenity of the area Not Applicable.

N/A

# 5 Attached dwellings and multi - dwelling housing

Controls/objectives	Comment	Compliance
5.1 Minimum Site Width Requirement		
18m for multi-dwelling	The proposal involves multi-dwelling housing. The subject site consists of two (2) lots situated on the radius of a cul-de-sac with a combined overall frontage of approximately 27.432m at the front boundary and 46.03m at the rear boundary. A condition as <b>Attachment 5</b> will require the consolidation of these two (2) lots prior to the issue of the Occupation Certificate. Submitted plans indicate that no part of the proposed development is located on a part of the site with a minimum site width of less than 18m. Therefore the proposed development satisfies the objectives of Council's Minimum Site Width controls and policies for multi-dwelling housing.	Yes
5.2 Number of Storeys		
Maximum 2 Storeys for Zone R2 Low Density Residential	All proposed units are two (2) storeys.  Maximum overall building heights of:	Yes
	• Unit 1: 7.274m	

- Unit 2: 7.052m
- Unit 3: 6.936m
- Unit 4: 6.734m.
- Unit 5: 6.671m
- Unit 6: 7.211m

#### 5.3 Front Setbacks

Infill 6m minimum

#### Proposed:

Unit 1: 5.4m to the front façade and 3.9m to front entry landing

Unit 6: 13.9m

# No -refer to considerations below

Yes

Variation request considered and capable of support

#### **Justification for Front Setback Variation:**

The applicant has proposed a front setback of 5.4m to the front façade and 3.9m to the front entry landing of Unit 1 requesting a variation to Council's controls. A copy of the variation request statement is provided at **Attachment 4**. It is considered that the variation can be supported for the following reasons:

 Council's setback controls indicate that the minimum front setback for the subject site is 6m. Therefore the proposed variation is considered minor point encroachment for 5m of the front façade with the remaining 8.8m of the front façade of Unit 1 complying with the 6m front setback control as can be seen in Figure 1 below.

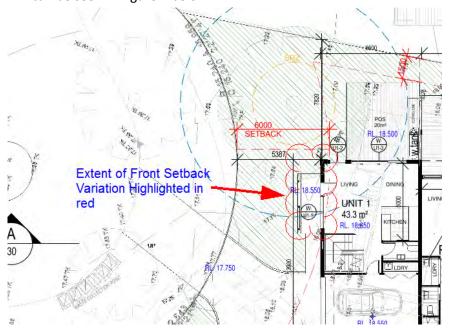


Figure 1: Extent of front setback variation highlighted in red.

- It is considered that the proposed front setback will have minimal impact
  on the existing character of the street and compatibility in front setbacks
  as the encroachment is minor and the building line within the street
  appears varied.
- It is considered that the dwelling has been sited with regards to site constraints minimising impacts on existing mature trees to be retained.

- The proposed front setback will have minimal impacts on view corridors from adjoining dwellings.
- Although the numerical requirements have not been strictly met in this circumstance it is considered that the objectives of the clause have been met ensuring minimal impact on the street scene and on the amenity of the adjoining dwellings.

# 5.4 Side and Rear Setbacks

- 0.8 x ceiling height min
- 1.0 x ceiling height where windows of living areas face the rear or side boundary at first floor level.

# **Required Side Setbacks**

Unit 1

Ground Floor: 2.9m (North east) First Floor: 5.1m (North east)

Ground Floor: 3.18m (North east) First Floor: 5.34m (North east)

Unit 3

Ground Floor: 3m (North east) First Floor: 5.08m (North east)

Unit 4

Ground Floor: 2.62m (South west) First Floor: 5.1m (South west)

Unit 5

Ground Floor: 2.62m (South west) First Floor: 5.1m (South west)

Unit 6

Ground Floor: 2.26m (West) First Floor: 4.42m (West)

# Required Rear Setbacks Units 3 and 4:

Unit 3

Ground Floor: 3m First Floor: 5.08m

Unit 4

Ground Floor: 2.62m First Floor: 5.1m

# 5.5 Building Character and Form

To design residential development to respond to the streetscape character. The Site and Context

# Proposed Side Setbacks

Unit 1

Ground Floor: 6.4m (North east) First Floor: 6.4m (North east)

Unit 2

Ground Floor: 6.38m (North east) First Floor: 6.38m (North east)

Unit 3

Ground Floor: 5.12m (North east) First Floor: 5.12m (North east)

Unit 4

Ground Floor: 9.47m (South west) First Floor: 8.64m (South west)

Unit 5

Ground Floor: 9.47m (South west) First Floor: 8.64m (South west)

Ground Floor: 4.56m (South west) First Floor: 4.56m (South west)

#### Rear Setbacks:

Unit 3

Ground Floor: 6.998m First Floor: 6.998m

Unit 4

Ground Floor: 3.956m First Floor: 6.95m

and siting of the proposed dwellings

Yes Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

It is considered that the design, height

Analysis must inform the development proposal.

 To complement and enhance the visual character of the street and neighbourhood through appropriate building scale, form and detail.

## 5.6 Access / Driveway Requirements

# 5.7 Car Parking Requirements

- 1 car parking spaces per dwelling with a GFA of less than 70m<sup>2</sup>
- 1.5 parking spaces per dwelling with a GFA between 70m<sup>2</sup> and 110m<sup>2</sup>.
- 2 car parking spaces per dwelling with a GFA of greater than 110m<sup>2</sup>.
- Plus 0.2 car parking spaces per dwelling

Required Parking:

Units 1 and 6

2 spaces per dwelling = 4 spaces

Units 2-5

1.5 spaces per dwelling = 6 spaces

0.2 x 6 dwellings = 1.2 Spaces

Therefore a total of twelve (12) spaces are required for the proposed development.

respond to the site context.

The proposal defines the street edge and allows for surveillance of the street, with all units clearly addressing the street frontage. Significant articulation is provided on all elevations and the proposal does not present as inappropriate in scale or form when considered in relation to the zoning of the site and desired future character.

The proposed development satisfies the objectives of Council's Access/Driveway Requirements controls and policies.

Council's Traffic Officer has no objections to the proposed access arrangements.

#### Proposed Parking:

The proposal provides a double garage for Units 1 and 6.

- A double garage has been provided for Unit 4 and single garages for 2, 3 and 5.
- A further one (1) resident parking space and two (2) visitor parking spaces have been provided forward of Unit 6.

Therefore a total twelve (12) onsite parking spaces are proposed.

The visitor and resident spaces are proposed forward of the building façade of Unit 6 which has been setback 13.6m from the front boundary due to the irregular shape of the allotment being locate d on the radius of a cul-de-sac and to allow vehicular manoeuvring to the rear units. It is noted that the proposed spaces are largely setback behind the 6m building line with exception of a minor point encroachment required under Clause 5.3 of Chapter B1. It is considered that the proposed landscaping minimises the impacts of Yes

Yes

the proposed visitor parking space on the street scape. Therefore the location of the proposed visitor space is considered acceptable in this circumstance.

Council's Traffic Officer has raised no objections to the proposed car parking.

The proposed development satisfies the objectives of Council's Car Parking Requirements controls and policies.

# 5.8 Landscaping Requirements

A minimum of 30% of the total site must be provided landscaped area.

Landscaped Area Proposed: 38%

The proposed development satisfies the objectives of Council's landscaped area controls and policies.

Council's Landscape Officer has raised no objections to the proposed landscaping.

# 5.9 Deep Soil Planting

- A minimum of half of the landscaped area (i.e. 15% of the site) must be provided as a deep soil zone, where the deep soil zone is not located at the rear of the site.
- The deep soil zone may be located in any position on the site, other than forward of the building line, subject to this area having a minimum dimension of 6m.
- No structures, basement carparks, driveways, hard paving, decks, balconies or drying areas are permitted within the deep soil zone.
- The deep soil zone shall be densely planted with trees and shrubs.

The proposal provides for 384m<sup>2</sup> (24% of site area) of deep soil zone planting along the rear and South western side boundary. A continuous 6m width for the deep soil zone, however has not been maintained for the entire deep soil zone

The proposed development satisfies the objectives of Council's Deep Soil Planting controls and policies.

No -refer to considerations below

Yes

#### Justification for Front Setback Variation:

The applicant has proposed a deep soil zone that does not maintain a continuous 6m width for the entire deep soil zone proposing areas with a width of 3.5m and 4.684m requesting a variation to Council's controls. A copy of the variation request statement is provided at Attachment 4. It is considered that the variation can be supported for the following reasons:

The proposed amount of deep soil zone planting is approximately 384m<sup>2</sup> which equates to approximately 24% of the site area exceeding the minimum 15% required under Clause 5.9.2(2). It is noted that Chapter B1

request capable

Variation considered and support

Clause 4.23.2(1) permits deep soil zones to have minimum dimension of 3m. The proposed encroachments on the 6m deep soil zone width are to enable vehicular manoeuvring. Permeable paving has been used in this area so as to enable water infiltration.

- It is considered that the proposed development allows for increased water infiltration on the site. Council's Stormwater Officer has no objections to the onsite stormwater management.
- It is considered that the proposed deep soil has been sited and designed so as to protect existing mature trees on both the subject site and adjoining properties whilst encouraging the planting of significant trees.
- Council's Landscape Officer has no objections to the proposed deep soil planting.
- Although the numerical requirements have not been strictly met in this
  circumstance it is considered that the objectives of the clause have been
  met ensuring minimal impact on the environment and on the amenity of
  the adjoining dwellings.

# 5.10 Communal Open Space

Required for greater than ten (10) dwellings

The proposal is for a six (6) unit multidwelling housing development only. N/A

Yes

Yes

# 5.11 Private Open Space

All units have private open space with a minimum area of 4m x 5m separated from the boundary by a vegetated landscape bed. Reasonable solar access is afforded.

#### 5.12 Solar Access Requirements

The proposed development will have minimal impact on adjoining properties in terms of Solar Access as reasonable setbacks and building heights have been maintained.

The units have been oriented on the lot so as to maximise the amount of sunlight received by the living areas and private open space.

It is considered that the proposed development can receive a reasonable amount of sunlight to private open space areas.

# 5.13 Additional Control for Multi Dwelling Housing - Dwelling Mix and Layout

Required for greater than ten (10) dwellings.

The proposal is for a six (6) unit multidwelling housing development only. N/A

Controls/objectives	Comment	Compliance
5.14 Additional Control for Multi Dwelling Housing - Adaptable Housing Required for greater than six (6) dwellings.	The proposal is for a six (6) unit multi-dwelling housing development only.	N/A
5.15 Additional Control for Multi Dwelling  Housing – Crime Prevention through  Environmental Design		
	The proposed development satisfies the objectives of Council's Crime Prevention Through Environmental Design controls and policies in this circumstance, minimising areas for entrapment and concealment. See chapter E2 comments below.	Yes

#### **CHAPTER D1: DAPTO**

Chapter D1 indicates that The residential areas in Dapto are likely to experience some redevelopment with some older dwelling stock being replaced by larger contemporary single or two storey dwellings. Medium density villa or townhouse developments are supportable in areas within close proximity to the Dapto Town Centre.

The proposal provides for replacement of older dwelling stock with medium density townhouse development with in close proximity to the Dapto Town Centre, approximately 450m from Dapto Mall.

Development within the immediate vicinity of the subject site is characterised by low density residential development with some medium density development located on other streets within the vicinity as can be seen at **Figure 1** - Aerial Photograph (2018) of the assessment report.

The proposed development is a permissible use in the R2 zone and reasonably satisfies controls for multi-dwelling housing development under Wollongong Development Control Plan 2009. The proposal is considered to not detract from the existing character of Dapto and is compatible with the desired future character for the locality.

# **CHAPTER E2: CRIME PREVENTION THROUGH ENVIRONMENTAL DESIGN**

Control/objective	Comment	Compliance
3.1 Lighting		
	It is considered that the proposed development will improve existing lighting conditions on the subject site which is currently vacant. A condition as at <b>Attachment 5</b> is proposed in regards to providing adequate general area lighting.	Yes
3.2 Natural surveillance and sightlines		
	The proposed development will improve natural surveillance and sight lines of adjoining properties and the street.	Yes

Control/objective	Comment	Compliance
3.3 Signage	No signage is proposed with this application and the proposed development will have minimal impact on the existing signage within the vicinity.	Yes
3.4 Building design		
	The proposal is for a six (6) unit multi-dwelling housing development. Unit 1 is generally centrally located to the site frontage and has been designed to address the Street. It is considered that the proposed development satisfies Council's building design policies and controls for Crime Prevention Through Environmental Design as relates to minimising areas of entrapment.	Yes
3.5 Landscaping		
	The proposal is considered to satisfy the landscaping controls for CPTED in this circumstance as relates to minimising areas of concealment.  Council's Landscape Officer has reviewed the proposed landscaping including the submitted arborist report and raised no objections.	Yes
3.6 Public open space and parks.		
	The proposal is for a six (6) unit multi- dwelling housing development only on a privately owned lot.	N/A
3.7 Community facilities & Public Amenities		
	The proposal is for a six (6) unit multi- dwelling housing development only on a privately owned lot.	N/A
3.8 Bus stops and taxi ranks		
	The subject site is not adjacent to any major bus stops or taxi ranks.	Yes

# CHAPTER E3: CAR PARKING, ACCESS, SERVICING/LOADING FACILITIES AND TRAFFIC MANAGEMENT

Council's Traffic Officer has reviewed the proposal in relation to this chapter and provided a satisfactory response commenting that the number of parking spaces, access arrangements and manoeuvring are acceptable. Conditions have been included at **Attachment 5** relating to these matters.

#### **CHAPTER E6: LANDSCAPING**

The proposed landscape plan was referred to Council's Landscape Officer for comment with referral advice indicating the proposal as satisfactory subject to conditions.

#### **CHAPTER E7: WASTE MANAGEMENT**

It is considered that the proposed development satisfies the objectives of this Chapter. Council's street waste collection service is to be utilised. It is noted that a garbage compactor is proposed with this development so as to minimise the number of bins required for the development and impacts on street parking on garbage collection days. Council's Traffic Officer has reviewed the proposal providing conditionally satisfactory referral advice.

#### **CHAPTER E14 STORMWATER MANAGEMENT**

Council's Stormwater Officer has assessed the application in this regard against the submitted concept stormwater drainage plan and has not raised any issues subject to draft conditions.

#### **CHAPTER E17 PRESERVATION AND MANAGEMENT OF TREES AND VEGETATION**

The application proposes the removal of several trees to facilitate the proposal. Council's Landscape Officer has assessed the application submission, which included an Arborist Report. Conditionally satisfactory referral advice was received and conditions as at **Attachment 5** specify trees to be removed, trees to be retained, compensatory plantings and tree protection and management.

# **CHAPTER E19 EARTHWORKS (LAND RESHAPING WORKS)**

The proposal involves earthworks to facilitate the proposed development. A geotechnical report and information regarding the earthworks to reshape the land were submitted with the application.

The application submission was referred to Council's Stormwater Officer for comment and no objections were raised subject to conditions. It is considered that the earthworks will have minimal detrimental impact on environmental functions and processes, neighbouring uses items and features of the surrounding land.

#### **CHAPTER E21 DEMOLITION AND ASBESTOS MANAGEMENT**

The proposal will require demolition works. Appropriate conditions are included in **Attachment 5** of this report to minimise impacts and ensure that demolition is carried out to Council's and Work Safe NSW requirements.

#### **CHAPTER E22 SOIL EROSION AND SEDIMENT CONTROL**

Conditions are included in **Attachment 5** in this regard so as to minimise the impacts of the proposed works on the environment.

# **Attachment 4: Clause 8 Variation to Development Control Statements**

## Front Setbacks (Section 5.3)

Council's DCP requires a minimum front setback of 6m measured to the front façade. In this regard, the proposed development seeks to vary this as a result of a minor encroachment associated with Unit 1. As suggested, the nature of the encroachment is relatively minor considering the variation results in only some 2.5% of Unit 1 been non-compliant with the front setback requirement. Numerically, the variation being sought includes a reduced setback of 4.684 m measured to the primary building façade and a 3.6 m setback to the associated porch of Unit 1. In acknowledging the existing character and building setbacks, whilst the proposed dwelling is forward of adjoining properties the nature of the cul-de-sac frontage along with the minor encroachment proposed it is considered that the proposed reduction to the front setback will not be detrimental to the surrounding streetscape or adversely impact adjoining properties. This is reinforced by the fact proposed Unit 1 located some 7.8 m from the adjoining north-east side boundary and a further 4.5m to the adjoining dwelling located at No. 7 Bundarra Place. This will be further mitigated by the proposed landscape planning scheme and vegetated buffer that will be established as part of the proposed development. Therefore, assessed on its merits it is considered the front setback variation can be supported.

# Deep Soil Planting (Section 5.9)

As proposed, the proposed development seeks to include all areas with a minimum 3.5 m width as deep soil planting, contradictory to the 6 m minimum dimension as required under the DCP. In nominating a minimum 3.5 m width, it is considered there is a degree of acceptance within the local and state planning guidelines that a 3 m width has the capacity to accommodate for deep soil planting. This includes the *NSW Apartment Design Guide* criteria for residential flat buildings and *Wollongong City Council DCP* requirement for deep soil planting in a dual occupancy development. Although the proposed development falls outside these development forms, the acceptance that 3 m in width is sufficient for deep soil planting is what is being sought to be applied in this instance.

Furthermore, the proposed deep soil area exceeds the minimum requirement of 15% of the site area and satisfies the relevant objectives of *Section 5.9.1* which seek to encourage vegetated linkages to provide habitat for native plants and birds, which will contribute to biodiversity and allow for increased water filtration. Notably, in the proposed development implementing a densely planted perimeter (including approximately 24% deep soil planting to the rear boundaries, and side boundaries landscaping in excess of the minimum 1.5m landscaping), it is considered the proposed landscaping concept will provide us far superior continuously vegetated linkage to the entire periphery rather than solely the rear boundary. This is further justified by the fact that the subject development site has some seven (7) adjoining properties, all of which generally benefit from the densely planted perimeter as proposed.

Notwithstanding, despite the afore-mentioned non-compliance, the development satisfies the intent of the objectives controls and provides a continuous deep soil area that is suitable of accommodating a variety of mature trees and other significant vegetation including the retention of significantly established trees as proposed. In this regard, the proposal is considered to be worthy of support.

As such, this proposed minor variation will not contradict the intent or objectives of these development controls. Further, collectively the proposed variations do not result in cumulative impacts as a consequence of one another nor equate to overdevelopment of the site, rather individually they are considered relatively minor or in the circumstance of the deep soil planting are considered to be justified accordingly and able to be assessed on their individual merits.

# **Attachment 5: Conditions**

# Plans and Specifications

1) The development shall be implemented substantially in accordance with the details and specifications set out on Project No. 1752 Drawings 06-Q, 10-Q, 20-Q to 22-Q and 30-Q dated 16 April 2019 and 11-S to 12-S dated 19 June 2019 prepared by Design Workshop Australia and any details on the application form, and with any supporting information received, except as amended by the conditions specified and imposed hereunder.

#### **General Matters**

# 2) Building Work - Compliance with the Building Code of Australia

All building work must be carried out in compliance with the provisions of the Building Code of Australia.

#### 3) Construction Certificate

A Construction Certificate must be obtained from Council or an Accredited Certifier prior to work commencing.

A Construction Certificate certifies that the provisions of Clauses 139-148 of the Environmental Planning and Assessment Amendment Regulations, 2000 have been satisfied, including compliance with all relevant conditions of Development Consent and the Building Code of Australia.

**Note**: The certifying authority must cause notice of its determination to be given to the consent authority, and to the council, by forwarding to it, within two (2) days after the date of the determination, the plans and documentation referred to in clause 142 (2) of the Environmental Planning and Assessment Regulation 2000.

# 4) Mailboxes

The developer must install mailboxes along street frontage of the property boundary in accordance with Australia Post Guidelines. Prominent house numbers are to be displayed, with a minimum number size of 150 mm in height for each number and letter in the alphabet.

Mailboxes shall be individually keyed.

#### 5) Occupation Certificate

An Occupation Certificate must be issued by the Principal Certifying Authority prior to occupation or use of the development. In issuing an Occupation Certificate, the Principal Certifying Authority must be satisfied that the requirements of section 6.9 of the Environmental Planning and Assessment Act 1979, have been complied with as well as all of the conditions of the Development Consent.

#### 6) Tree Retention / Removal

The developer shall retain the existing tree(s) indicated on the Landscape Planting Plan, Bill Muir, 20-4-19 and Arboriculture Impact Assessment by Allied Tree Consultancy, dated November 2018 consisting of tree(s) numbered 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13 and 14.

Any branch pruning, which has been given approval, must be carried out by a qualified arborist in accordance with Australian Standard AS4373-2007.

All tree protection measures are to be installed in accordance with Australian standard AS4970-2009 Protection of Trees on development Sites.

All recommendations in Arborist's Report by Arboriculture Impact Assessment by Allied Tree Consultancy, dated November 2018 page no. 10 – 16 sections 7, 8 and 9 to be implemented including and not restricted to: remedial tree pruning, deadwooding, fencing and signage, sediment buffer, stem protection, establishing tree protection zones and watering and root hormone application if required.

This consent permits the removal of trees numbered 8 and 14 as indicated on the Landscape Planting Plan, Bill Muir, 20-4-19. No other trees shall be removed without prior written approval of Council.

#### Prior to the Issue of the Construction Certificate

# 7) Sizing of Drainage

All roof gutters, downpipes, pits, and pipelines draining roof areas and other impervious surfaces with no deliberate overflow path to the on-site stormwater detention (OSD) facility, shall be designed to cater for a 1 in 100 year ARI storm event in accordance with AS 3500.3 – Plumbing and Drainage (Stormwater Drainage). Details of gutter/downpipe/pipeline sizes and locations shall be reflected on the Construction Certificate plans.

# 8) Privacy Screen

A 1.8m high privacy screen shall be provided for the entire length of the North eastern elevation of the private open space decks for Units 1, 2 and 3.

These details shall be reflected on the Construction Certificate plans and supporting documentation for the endorsement of the Principal Certifying Authority prior to the issue of the Construction Certificate.

## 9) Acoustic Report for Garbage Compactor

The applicant shall engage an acoustic consultant to determine the impact of the garbage compactor operational noise on neighbouring residences. If noise levels do not comply with NSW EPA Noise Guideline, the consultant must recommend either a suitable acoustic enclosure to garbage compactor or acoustic treated dividing fence. A copy of the acoustic report with recommended attenuation measures must be submitted to Principal Certifying Authority prior to the issue of construction certificate.

# 10) Crime Prevention Through Environmental Design (CPTED) - Lighting

The proposed development shall incorporate 'low impact' lighting to ameliorate any light spillage and/or glare impacts upon surrounding properties in accordance with Council's CPTED principles. The final design details of the proposed lighting system shall be reflected on the Construction Certificate plans. The erection of the lighting system shall be in accordance with the approved final design.

# 11) Present Plans to Sydney Water

Approved plans must be submitted online using Sydney Water Tap, available through <a href="www.sydneywater.com.au">www.sydneywater.com.au</a> to determine whether the development will affect Sydney Water's sewer and water mains, stormwater drains and/or easements, and if further requirements need to be met.

The Certifying Authority must ensure that Sydney Water has issued an approval receipt prior to the issue of a Construction Certificate.

Visit www.sydneywater.com.au or telephone 13 20 92 for further information.

# 12) Endeavour Energy Requirements

The submission of documentary evidence from Endeavour Energy to the Principal Certifying Authority is required confirming that satisfactory arrangements have been made with Endeavour Energy for the provision of electricity supplies to the development, prior to the release of the Construction Certificate.

**Note**: Applications should be made to Customer Connections – South Coast, Endeavour Energy PO Box 811 Seven Hills NSW 1730.

#### 13) Telecommunications

The submission of documentary evidence from an approved telecommunications carrier to the Principal Certifying Authority confirming that underground telecommunication services are available for this development is required prior to the issue of the Construction Certificate.

# 14) Obscure Glazing for all Bathroom and WC windows

The bathroom and WC windows for each dwelling in the development shall be frosted or opaque glass. This requirement shall be reflected on the Construction Certificate plans.

# 15) Fencing

The development is to be provided with fencing and screen walls at full cost to the applicant/developer as follows:

- where a screen wall faces the road, pedestrian walkway, reserve or public place that wall shall be constructed of the same brickwork as that used in the external wall of the building;
- b rear and side property boundaries (behind the building line) where not currently provided with minimum 1.8 metre high brick, timber lapped and capped, palisade or colorbond fences are to be provided with minimum 1.8 metre high brick, timber lapped and capped, palisade or colorbond fences;
- c any new fences or screens constructed on the site shall be of a type that will not obstruct the free flow of surface runoff from adjoining properties and be compatible with stormwater drainage requirements; and
- d fencing to suit character of local area.

This requirement is to be reflected on the Construction Certificate plans.

# 16) Crime Prevention through Environmental Design (CPTED) - Landscaping

In order to reduce the opportunities for "hiding places" the proposed landscaping must:

- a) use shrubs/plants which are no higher than 1 metre adjacent to pathways.
- b) the type of trees proposed must have a sufficiently high canopy, when installed and fully grown, so that pedestrian vision is not impeded.
- c) Shrub planting to be set back min. 1 metres from the edge of the pathway. Groundcover planting acceptable.

This requirement shall be reflected on the Construction Certificate plans.

## 17) Car Parking and Access

The development shall make provision for a total of 12 car parking spaces, a minimum of 2 secure (Class B) residential bicycle spaces, a minimum of 1 (Class C) visitor bicycle space and 1 motorcycle parking space. This requirement shall be reflected on the Construction Certificate plans. Any change in above parking numbers shown on the approved DA plans shall be dealt with via a section 4.55 modification to the development. The approved car parking spaces shall be maintained to the satisfaction of Council, at all times.

- 18) The parking dimensions, internal circulation, aisle widths, kerb splay corners, head clearance heights, ramp widths and grades of the car parking areas are to be in conformity with the current relevant Australian Standard AS2890.1, except where amended by other conditions of this consent. Details of such compliance are to be reflected on the Construction Certificate plans.
- 19) The depth and location of all services (ie gas, water, sewer, electricity, telephone, traffic lights, etc) must be ascertained and reflected on the Construction Certificate plans and supporting documentation.

# 20) Landscaping

The submission of a final Landscape Plan will be required in accordance with the requirements of Wollongong City Council DCP 2009 Chapter E6 and the approved Landscape Plan (ie as part of this consent) for the approval by the Principal Certifying Authority, prior to the release of the Construction Certificate.

- 21) The submission of certification from a suitably qualified and experienced landscape designer and drainage consultant to the Principal Certifying Authority prior to the release of the Construction Certificate, confirming that the landscape plan and the drainage plan are compatible.
- 22) The implementation of a landscape maintenance program in accordance with the approved Landscape Plan for a minimum period of 12 months to ensure that all landscape work becomes

well established by regular maintenance. Details of the program must be submitted with the Landscape Plan to the Principal Certifying Authority prior to release of the Construction Certificate.

# 23) Tree Protection and Management

The existing trees are to be retained upon the subject property and any trees on adjoining properties shall not be impacted upon during the excavation or construction phases of the development. This will require the installation and maintenance of appropriate tree protection measures, including (but not necessarily limited to) the following:

- Installation of Tree Protection Fencing Protective fencing shall be 1.8 metre cyclone chainmesh fence, with posts and portable concrete footings. Details and location of protective fencing must be indicated on the architectural and engineering plans to be submitted to the Principal Certifying Authority prior to release of the Construction Certificate.
- Installation of Tree Protection Fencing A one (1) metre high exclusion fence must be installed around the extremity of the dripline of the tree/trees to be retained prior to any site works commencing. The minimum acceptable standard is a 3 strand wire fence with star pickets at 1.8 metre centres. This fence must be maintained throughout the period of construction to prevent any access within the tree protection area. Details of tree protection and its locations must be indicated on the architectural and engineering plans to be submitted to the Principal Certifying Authority prior to release of the Construction Certificate.
- Mulch Tree Protection Zone: Areas within a Tree Protection Zone are to be mulched with minimum 75 mm thick 100% recycled hardwood chip/leaf litter mulch.
- Irrigate: Areas within the Tree Protection Zone are to be regularly watered in accordance with the arborist's recommendations.

# 24) Engineering Plans and Specifications - Retaining Wall Structures Greater than 1m

The submission of engineering plans and supporting documentation of all proposed retaining walls greater than 1m to the Principal Certifying Authority for approval prior to the issue of the Construction Certificate. The retaining walls shall be designed by a suitably qualified and experienced civil and/or structural engineer. The required engineering plans and supporting documentation shall include the following:

- 24.1 A plan of the wall showing location and proximity to property boundaries;
- 24.2 Sn elevation of the wall showing ground levels, maximum height of the wall, materials to be used and details of the footing design and longitudinal steps that may be required along the length of the wall;
- 24.3 Details of fencing or handrails to be erected on top of the wall;
- 24.4 Sections of the wall showing wall and footing design, property boundaries and backfill material. Sections shall be provided at sufficient intervals to determine the impact of the wall on existing ground levels. The developer shall note that the retaining wall and footing structure must be contained wholly within the subject property;
- 24.5 The proposed method of subsurface and surface drainage, including water disposal;
- 24.6 Reinforcing and joining details of any bend in the wall;
- 24.7 The assumed loading used by the engineer for the wall design.
- 24.8 Flows from adjoining properties shall be accepted and catered for within the site. Finished ground and top of retaining wall levels on the boundary shall be no higher than the existing upslope adjacent ground levels.
- Bicycle parking facilities must have adequate weather protection and provide the appropriate level of security as required by the current relevant Australian Standard AS2890.3 Bicycle Parking Facilities. This requirement shall be reflected on the Construction Certificate plans.

# 26) Property Addressing Policy Compliance

Prior to the issue of any construction certificate, the developer must ensure that any site addressing complies with Council's **Property Addressing Policy** (as amended). Where appropriate, the developer must also lodge a written request to Council's **Infrastructure Systems & Support – Property Addressing (propertyaddressing@wollongong.nsw.gov.au)**, for the site addressing prior to the issue of the construction certificate. Please allow up to 3-5 business days for a reply. Enquiries regarding property addressing may be made by calling 4227 8660.

# 27) Stormwater Drainage Design

A detailed drainage design for the development must be submitted to and approved by the Principal Certifying Authority prior to the release of the Construction Certificate. The detailed drainage design must satisfy the following requirements:

- a Be prepared by a suitably qualified civil engineer in accordance with Chapter E14 of Wollongong City Council's Development Control Plan 2009, Subdivision Policy, conditions listed under this consent, and generally in accordance with the concept stormwater plan lodged for development approval, prepared by ATB Consulting Engineers, Project No. 18130, Drawing No. SW2 (Revision F dated 12/06/2019).
- b Include details of the method of stormwater disposal. Stormwater from the development must be piped to Council's existing stormwater drainage system.
- c Engineering plans and supporting calculations for the stormwater drainage system are to be prepared by a suitably qualified engineer and be designed to ensure that stormwater runoff from upstream properties is conveyed through the site without adverse impact on the development or adjoining properties. The plan must indicate the method of disposal of all stormwater and must include rainwater tanks, existing ground levels, finished surface levels on all paved areas, estimated flow rates, invert levels and sizes of all pipelines.
- d Overflow paths shall be provided to allow for flows of water in excess of the capacity of the pipe/drainage system draining the land, as well as from any detention storage on the land. Blocked pipe situations with 1 in 100 year ARI events shall be incorporated in the design. Overflow paths shall also be provided in low points and depressions. Each overflow path shall be designed to ensure no entry of surface water flows into any building and no concentration of surface water flows onto any adjoining property. Details of each overflow path shall be shown on the detailed drainage design.

# 28) On-Site Stormwater Detention (OSD) Design

The developer must provide on-site stormwater detention (OSD) storage for stormwater runoff from the development. The design and details of the OSD system must be provided in conjunction with the detailed drainage design and approved by the Principal Certifying Authority prior to the release of the Construction Certificate. The OSD design and details must satisfy the following requirements:

- 1 Must be prepared by a suitable qualified engineer in accordance with Chapter E14 of the Wollongong DCP 2009.
- 2 Must include details of the Site Storage Requirement (SSR) and Permissible Site Discharge (PSD) values for the site in accordance with Section 12.2.4 of Chapter E14 of the Wollongong DCP2009.
- 3 The OSD facility must be designed to withstand the maximum loadings occurring from any combination of traffic (with consideration to residential and heavy vehicles), hydrostatic, earth, and buoyancy forces. Details must be provided demonstrating these requirements have been achieved.
- 4 The OSD facility shall incorporate a minimum 900mm x 900mm square lockable grate for access and maintenance purposes, provision for safety, debris control screen, and a suitably graded invert to the outlet to prevent ponding.

- 5 Must include discharge control calculations (i.e. orifice/weir calculations) generally in accordance with Section 12.2.6 and 12.5.4 of Chapter E14 of the Wollongong DCP2009.
- 6 Details of the orifice plate including diameter of orifice and method of fixing shall be provided.
- 7 Must include details of a corrosion resistant identification plaque for location on or close to the OSD facility. The plaque shall include the following information and shall be installed prior to the issue of the Occupation Certificate:
  - i. The structure is an OSD facility, being part of the stormwater drainage network, and is not to be tampered with.
  - ii. Identification number DA-2018/1610.
  - iii. Any specialist maintenance requirements.
- 8 Must include a maintenance schedule for the OSD system, generally in accordance with Chapter E14 of the Wollongong DCP2009.

# 29) Designated Overland Flow Paths

Designated overland flow paths (e.g. bund walls) shall be provided within the site along the north-eastern and western boundaries, generally in accordance with the concept stormwater plan lodged for development approval, prepared by ATB Consulting Engineers, Project No. 18130, Drawing No. SW2 (Revision F dated 12/06/2019). Each flow path shall be designed to ensure all upslope runoff contributing to the site (i.e. external to the development footprint) will be accepted, contained, and conveyed within the site to Bundarra Place in a controlled manner, ensuring no obstruction, diversion and/or concentration of surface water flows on any adjoining property. Details of each flow path shall be provided with the detailed drainage design. Each flow path shall be capable of catering for the 1 in 100 year storm event flows from the contributing catchment area and shall be free of any vegetation and/or structures that are likely to impede overland flow, or make provision for such obstructions, so there will be no adverse stormwater impacts upon the subject land and adjoining properties. Full details and hydrologic/hydraulic calculations shall be provided for each flow path, including contributing flows, cross-sectional flow area, and hydraulic capacity. These requirements shall be reflected on the detailed drainage design and Construction Certificate plans. Evidence that these requirements have been satisfied shall be submitted to the Principal Certifying Authority prior to the release of the Construction Certificate.

# 30) Council Footpath Reserve Works

All redundant vehicular crossings and laybacks rendered unnecessary by this development must be reconstructed to normal kerb and gutter or existing edge of carriageway treatment to match the existing. The verge from the back of kerb to the boundary must be removed and the area appropriately graded, topsoiled and turfed in a manner that conforms with adjoining road reserve. The area forward of the front boundary must be kept smooth, even and free from any trip hazards. All alterations of public infrastructure where necessary are at the developer's expense.

All new driveway laybacks and driveway crossings must be designed in accordance with Wollongong City Council Standards. Details and locations are to be shown on the Construction Certificate Plans.

#### 31) Scour Protection

All surface flow paths must be treated with appropriate scour/erosion protection measures designed in accordance with good engineering practice based on calculated 1 in 100 year ARI flow velocities. The final details of the proposed scour protection measures shall be reflected on the Construction Certificate plans.

# 32 Fire Hydrants

The development must be adequately serviced by a fire hydrant. Should the development not be adequately services by an existing fire hydrant a fire hydrant must be provided to the development in accordance with the Fire Hydrants for Minor Residential Development, Version 2 dated 1 September 2016 produced by NSW Fire & Rescue. The fire hydrant(s) must be shown on the construction certificate plans.

# 33) **Development Contributions**

Pursuant to Section 4.17 of the Environmental Planning and Assessment Act 1979 and the Wollongong City-Wide Development Contributions Plan (2018), a monetary contribution of \$15,000.00 (subject to indexation) must be paid to Council towards the provision of public amenities and services, prior to the release of any associated Construction Certificate.

This amount has been calculated based on the estimated cost of development and the applicable percentage rate.

The contribution amount will be subject to indexation until the date of payment. The formula for indexing the contribution is:

# Contribution at time of payment = $C \times (CP2/CP1)$

Where:

**\$C** is the original contribution as set out in the Consent

**CP1** is the Consumer Price Index; All Groups CPI; Sydney at the time the consent was issued

CP2 is the Consumer Price Index; All Groups CPI; Sydney at the time of payment

Details of CP1 and CP2 can be found in the Australian Bureau of Statistics website – Catalogue No. 6401.0 - Consumer Price Index, Australia.

The following payment methods are available:

METHOD	HOW	PAYMENT TYPE
Online	http://www.wollongong.nsw.gov.au/applicationpayments Your Payment Reference: 1066969	• Credit Card
In Person	Wollongong City Council Administration Building - Customer Service Centre Ground Floor 41 Burelli Street, WOLLONGONG	<ul><li>Cash</li><li>Credit Card</li><li>Bank Cheque</li></ul>
PLEASE MAKE BANK CHEQUE PAYABLE TO: Wollongong City Council (Personal or company cheques are not accepted)		

A copy of the Wollongong City-Wide Development Contributions Plan (2018) and accompanying Fact Sheet may be inspected or obtained from the Wollongong City Council Administration Building, 41 Burelli Street, Wollongong during business hours or on Council's web site at <a href="https://www.wollongong.nsw.gov.au">www.wollongong.nsw.gov.au</a>

#### Prior to the Commencement of Works

# 34) Appointment of Principal Certifying Authority

Prior to commencement of work, the person having the benefit of the Development Consent and a Construction Certificate must:

- a) Appoint a Principal Certifying Authority (PCA) and notify Council in writing of the appointment irrespective of whether Council or an accredited private certifier is appointed; and
- b) notify Council in writing of their intention to commence work (at least two days notice is required).

The Principal Certifying Authority must determine when inspections and compliance certificates are required.

# 35) Residential Building Work - Compliance with the Requirements of the Home Building Act 1989

Building work involving residential building work within the meaning of the Home Building Act 1989 must not be carried out unless the Principal Certifying Authority for the development to which the work relates

- a) in the case of work to be done by a licensee under that Act:
  - i) has been informed in writing of the licensee's name, contractor license number and contact address details (in the case of building work undertaken by a contractor under the Home Building Act 1989); and
  - ii) is satisfied that the licensee has complied with the requirements of Part 6 of the Home Building Act 1989; or
- b) in the case of work to be done by any other person:
  - i) has been informed in writing of the persons name, contact address details and owner-builder permit number; and
  - has been given a declaration signed by the property owner(s) of the land that states that the reasonable market cost of the labour and materials involved in the work is less than the amount prescribed for the purposes of the definition of owner-builder work in Section 29 of the Home Building Act 1989 and is given appropriate information and declarations under paragraphs (a) and (b) whenever arrangements for the doing of the work are changed in such a manner as to render out of date any information or declaration previously given under either of those paragraphs.

**Note**: A certificate issued by an approved insurer under Part 6 of the Home Building Act 1989 that states that the specific person or licensed contractor is the holder of an insurance policy issued for the purposes of that Part of the Act is, for the purposes of this condition, sufficient evidence that the person has complied with the requirements of that Part of the Act.

# 36) Sign – Supervisor Contact Details

Before commencement of any work, a sign must be erected in a prominent, visible position:

- a) stating that unauthorised entry to the work site is not permitted;
- b) showing the name, address and telephone number of the Principal Certifying Authority for the work; and
- c) showing the name and address of the principal contractor in charge of the work site and a telephone number at which that person can be contacted at any time for business purposes.

This sign shall be maintained while the work is being carried out and removed upon the completion of the construction works.

#### 37) Temporary Toilet/Closet Facilities

Toilet facilities are to be provided at or in the vicinity of the work site on which work involved in the erection or demolition of a building is being carried out at the rate of one toilet for every 20 persons or part of 20 persons employed at the site.

Each toilet provided must be:

- a) a standard flushing toilet; and
- b) connected to either:
  - i) the Sydney Water Corporation Ltd sewerage system or
  - ii) an accredited sewage management facility or
  - iii) an approved chemical closet.

The toilet facilities shall be provided on-site, prior to the commencement of any works.

#### 38) Structural Engineer's Details

Structural engineer's details for all structurally designed building works such as reinforced concrete footings, reinforced concrete slabs and structural steelwork must be submitted to the Principal Certifying Authority, prior to the commencement of any works on the site.

# 39) Enclosure of the Site

The site must be enclosed with a suitable security fence to prohibit unauthorised access, to be approved by the Principal Certifying Authority. No building work is to commence until the fence is erected.

#### 40) **Demolition Works**

The demolition works associated with this development shall be carried out in accordance with Australian Standard AS2601 (2001): The Demolition of Structures or any other subsequent relevant Australian Standard and the requirements of the NSW WorkCover Authority.

No demolition materials shall be burnt or buried on-site. The person responsible for the demolition works shall ensure that all vehicles leaving the site carrying demolition materials have their loads covered and do not track soil or waste materials onto the road. Any unforeseen hazardous and/or intractable wastes shall be disposed of to the satisfaction of the Principal Certifying Authority. In the event that the demolition works may involve the obstruction of any road reserve/footpath or other Council owned land, a separate application shall be made to Council to enclose the public place with a hoarding or fence over the footpath or other Council owned land.

## 41) Demolition Notification to Surrounding Residents

Demolition must not commence unless at least 2 days written notice has been given to adjoining residents of the date on which demolition works will commence.

#### 42) Consultation with SafeWork NSW – Prior to Asbestos Removal

A licensed asbestos removalist must give written notice to SafeWork NSW at least five (5) days before licensed asbestos removal work is commenced.

# 43) Supervising Arborist – Tree Inspection and Installation of Tree Protection Measures

Prior to the commencement of any demolition, excavation or construction works, the supervising arborist must certify in writing that tree protection measures have been inspected and installed in accordance with the arborist's recommendations and relevant conditions of this consent.

# 44) Certification from Arborist - Adequate Protection of Trees to be Retained

A qualified arborist is required to be engaged for the supervision of all on-site excavation or land clearing works. The submission of appropriate certification from the appointed arborist to the Principal Certifying Authority is required which confirms that all trees and other vegetation to be retained are protected by fencing and other measures, prior to the commencement of any such excavation or land clearing works.

#### Notification to Council of any Damage to Council's Infrastructure

Council must be notified in the event of any existing damage to any of Council's infrastructure including, but not limited to the road, kerb and gutter, road shoulder, footpath, drainage structures and street trees fronting the development prior to the commencement of work. Adequate protection must be provided to Council infrastructure prior to work commencing and during the construction period. Any damage to Council's assets shall be restored in a satisfactory manner prior to the issue of the Occupation Certificate.

#### 46) Application for Occupation, Use, Disturbance or Work on Footpath/Roadway

Any occupation, use, disturbance or work on the footpath or road reserve for construction purposes, which is likely to cause an interruption to existing pedestrian and / or vehicular traffic flows requires Council consent under Section 138 of the Roads Act 1993. An application must be submitted and approved by Council prior to the works commencing where it is proposed to carry out activities such as, but not limited to, the following:

- (a) Digging or disruption to footpath/road reserve surface;
- (b) Loading or unloading machinery/equipment/deliveries;
- (c) Installation of a fence or hoarding;
- (d) Stand mobile crane/plant/concrete pump/materials/waste storage containers;
- (e) Pumping stormwater from the site to Council's stormwater drains;
- (f) Installation of services, including water, sewer, gas, stormwater, telecommunications and power;
- (g) Construction of new vehicular crossings or footpaths;
- (h) Removal of street trees;

(i) Carrying out demolition works.

# 47) Works in Road Reserve - Minor Works

Approval, under Section 138 of the Roads Act must be obtained from Wollongong City Council's Development Engineering Team prior to any works commencing or any proposed interruption to pedestrian and/or vehicular traffic within the road reserve caused by the construction of this development.

The application form for Works within the Road Reserve – Section 138 Roads Act can be found on Council's website. The form outlines the requirements to be submitted with the application, to give approval to commence works under the roads act. It is advised that all applications are submitted and fees paid, 5 days prior to the works within the road reserve are intended to commence. The Applicant is responsible for the restoration of all Council assets within the road reserve which are impacted by the works/occupation. Restoration must be in accordance with the following requirements:

- a All restorations are at the cost of the Applicant and must be undertaken in accordance with Council's standard document, "Specification for work within Council's Road reserve"
- b Any existing damage within the immediate work area or caused as a result of the work/ occupation, must also be restored with the final works.

#### 48) Tree Protection

Prior to commencement of any work on the site, including any demolition, all trees not approved for removal as part of this consent that may be subjected to impacts of this approved development must be protected in accordance with Section 4 of the Australian Standard Protection of Trees on Development Sites (AS 4970-2009).

Tree protection zones must be established prior to the commencement of any work associated with this approved development.

No excavation, construction activity, grade changes, storage of materials stockpiling, siting of works sheds, preparation of mixes or cleaning of tools is permitted within Tree Protection Zones.

# During Demolition, Excavation or Construction

# 49) Supervision of Engineering Works

All engineering works associated with the development are to be carried out under the supervision of a practicing engineer.

# 50) Piping of Stormwater to Existing Stormwater Drainage System

Stormwater for the land must be piped to Council's existing stormwater drainage system.

# 51) No Adverse Run-off Impacts on Adjoining Properties

The construction of the development shall ensure there are no adverse effects to adjoining properties as a result of flood or stormwater run-off. Attention must be paid to ensure adequate protection for buildings against the ingress of surface run-off.

Allowance must be made for surface run-off from adjoining properties. Any redirection or treatment of that run-off must not adversely affect any other property.

#### 52) Copy of Consent to be in Possession of Person carrying out Tree Removal

The developer must ensure that any person carrying out tree removal clearance is in possession of this development consent and the approved landscape plan, in respect to the trees which have been given approval to be removed in accordance with this consent.

## 53) Restricted Hours of Construction Work

The developer must not carry out any work, other than emergency procedures, to control dust or sediment laden runoff outside the normal working hours, namely, 7.00 am to 5.00 pm, Monday to Saturday, without the prior written consent of the Principal Certifying Authority and Council. No work is permitted on public holidays or Sundays.

Any request to vary these hours shall be submitted to the **Council** in writing detailing:

- a the variation in hours required (length of duration);
- b the reason for that variation (scope of works);
- c the type of work and machinery to be used;
- d method of neighbour notification;
- e supervisor contact number;
- f any proposed measures required to mitigate the impacts of the works.

Note: The developer is advised that other legislation may control the activities for which Council has granted consent, including but not limited to, the Protection of the Environment Operations Act 1997.

- 54) If an excavation associated with the erection or demolition of a building extends below the level of the base of the footings of a building on adjoining allotment of land, the person causing the excavation to be made:
  - a) must preserve and protect the adjoining building from damage; and
  - b) if necessary, must underpin and support the building in an approved manner; and
  - c) must, at least seven (7) days before excavation below the level of the base of the footings of a building on an adjoining allotment of land, give notice of intention to do so to the owner of the adjoining allotment of land and furnish particulars of the excavation.

# Asbestos – Removal, Handling and Disposal Measures/Requirements Asbestos Removal by a Licensed Asbestos Removalist

The removal of any asbestos material must be carried out by a licensed asbestos removalist if over 10 square metres in area of non-friable asbestos, or if any type of friable asbestos in strict accordance with SafeWork NSW requirements (<a href="http://www.safework.nsw.gov.au">http://www.safework.nsw.gov.au</a>).

# 56) Asbestos Waste Collection, Transportation and Disposal

Asbestos waste must be prepared, contained, transported and disposed of in accordance with SafeWork NSW and NSW Environment Protection Authority requirements. Asbestos waste must only be disposed of at a landfill site that can lawfully receive this this type of waste. A receipt must be retained and submitted to the Principal Certifying Authority, and a copy submitted to Council (in the event that Council is not the Principal Certifying Authority), prior to commencement of the construction works.

# 57) **Provision of Waste Receptacle**

The developer must provide an adequate receptacle to store all waste generated by the development, pending disposal. The receptacle must be regularly emptied and waste must not be allowed to lie or accumulate on the property other than in the receptacle. Consideration should be given to the source separation of recyclable and re-usable materials.

#### 58) **BASIX**

All the commitments listed in each relevant BASIX Certificate for the development must be fulfilled in accordance with Clause 97A(2) of the Environmental Planning & Assessment Regulation 2000.

#### A relevant BASIX Certificate means:

A BASIX Certificate that was applicable to the development when this development consent was granted (or, if the development consent is modified under section 4.55 of the Environmental Planning & Assessment Act 1979, a BASIX Certificate that is applicable to the development when this development consent is modified); or

- a if a replacement BASIX Certificate accompanies any subsequent application for a construction certificate, the replacement BASIX Certificate; and
- b BASIX Certificate has the meaning given to that term in the Environmental Planning & Assessment Regulation 2000."

# 59) Provision of Taps/Irrigation System

The provision of common taps and/or an irrigation system is required to guarantee that all landscape works are adequately watered. The location of common taps and/or irrigation system must be implemented in accordance with the approved Landscape Plan.

# Prior to the Issue of the Occupation Certificate

# 60) Acoustic Compliance Report

Prior to issue of an Occupation Certificate, the applicant shall submit a noise compliance report to both the Principal Certifying Authority and Council prepared by an acoustic consultant who is a member of the Australian Acoustic Society (AAS) or the Association of Australian Acoustic Consultants (AAAC) in relation to the garbage compactor operational noise and its compliance with the NSW EPA Guidelines.

A Section 73 Certificate must be submitted to the Principal Certifying Authority prior to occupation of the development.

#### 62) **Drainage**

The developer must obtain a certificate of Hydraulic Compliance (using Council's M19 form) from a suitably qualified civil engineer, to confirm that all stormwater drainage and on-site detention works have been constructed in accordance with the approved plans. In addition, full works-as-executed plans, prepared and signed by a Registered Surveyor must be submitted. These plans and certification must satisfy all the stormwater requirements stated in Chapter E14 of the Wollongong DCP2009. This information must be submitted to the Principal Certifying Authority prior to the issue of the final Occupation Certificate.

# 63) Restriction on use – On-site Detention System

The applicant must create a restriction on use under the Conveyancing Act 1919 over the on-site detention system. The following terms must be included in an appropriate instrument created under the Conveyancing Act 1919 for approval of Council:

"The registered proprietor of the lot burdened must not make or permit or suffer the making of any alterations to any on-site stormwater detention system on the lot(s) burdened without the prior consent in writing of the authority benefited. The expression 'on-site stormwater detention system' shall include all ancillary gutters, pipes, drains, walls, kerbs, pits, grates, tanks, chambers, basins and surfaces designed to temporarily detain stormwater as well as all surfaces graded to direct stormwater to those structures.

Name of the authority having the power to release, vary or modify the restriction referred to is Wollongong City Council."

The instrument, showing the restriction, must be submitted to the Principal Certifying Authority for endorsement prior to the issue of the final Occupation Certificate and the use of the development.

# 64) Retaining Wall Certification

The submission of a certificate from a suitably qualified and experienced structural engineer or civil engineer to the Principal Certifying Authority is required, prior to the issue of the Occupation Certificate or commencement of the use. This certification is required to verify the structural adequacy of the retaining walls and that the retaining walls have been constructed in accordance with plans approved by the Principal Certifying Authority.

#### 65) Occupation Certificate

A Occupation Certificate must be issued by the Principal Certifying Authority prior to occupation or use of the development. In issuing an Occupation Certificate, the Principal Certifying Authority must be satisfied that the requirements of section 6.9 of the Environmental Planning and Assessment Act 1979, have been complied with as well as all of the conditions of the Development Consent.

# 66) **BASIX**

A final occupation certificate must not be issued unless accompanied by the BASIX Certificate applicable to the development. The Principal Certifying Authority must not issue the final

occupation certificate unless satisfied that selected commitments have been complied with as specified in the relevant BASIX Certificate. NOTE: Clause 154B of the Environmental Planning and Assessment Regulation 2000 provides for independent verification of compliance in relation to certain BASIX commitments.

#### 67) Positive Covenant – On-Site Detention Maintenance Schedule

A positive covenant shall be created under the Conveyancing Act 1919, requiring the property owner(s) to undertake maintenance in accordance with the Construction Certificate approved On-Site Stormwater Detention System and Maintenance Schedule (application number to be referenced).

The instrument, showing the positive covenant must be submitted to the Principal Certifying Authority for endorsement prior to the issue of the final Occupation Certificate and the use of the development.

#### 68) On-Site Detention – Structural Certification

The submission of a certificate from a suitably qualified practising civil and/or structural engineer to the Principal Certifying Authority is required prior to the issue of the final Occupation Certificate. This certification is required to verify the structural adequacy of the on-site detention facility and that the facility has been constructed in accordance with the approved Construction Certificate plans.

# 69) Completion of Landscape Works

The completion of the landscaping works as per the final approved Landscape Plan is required prior to the issue of Occupation Certificate.

# 70) **Drainage WAE**

The developer shall obtain written verification from a suitably qualified civil engineer, stating that all stormwater drainage and related work has been constructed in accordance with the approved Construction Certificate plans, including overland flow paths along the north-eastern and western boundary conveying upslope runoff to the Bundarra Place. In addition, full works-as-executed plans, prepared and signed by a Registered Surveyor shall be submitted. These plans shall include levels and location for all drainage structures and works, buildings (including floor levels), overland flow paths, and finished ground and pavement surface levels. This information shall be submitted to the Principal Certifying Authority prior to the issue of the final occupation certificate.

#### 71) Completion of Landscape Works on Council Owned or Controlled Land

The Developer must complete all landscape works required within Council's road reserve, or other Council owned or controlled land, in accordance with the conditions of this consent. The total cost of all such landscape works shall be fully borne by the Developer and any damage to Council's assets shall be the subject of restoration works sufficient to restore the asset to its previous state and configuration previous to the commencement of works. Evidence that this requirement has been met must be satisfied prior to the issue of the Occupation Certificate.

# Operational Phases of the Development/Use of the Site

#### 72) Restricted Hours of Operation – Garbage Compactor

The hours of operation for the garbage compactor shall be restricted to between the hours of 8:00am and 3:00pm only seven (7) days week.

# 73) Loading/Unloading Operations/Activities

All loading/unloading operations are to take place at all times wholly within the confines of the site or within the road reserve under an approved traffic control plan.