

# Statement of Environmental Effects January 2018

### 87-91Nuwarra Road, Moorebank

Demolition of all Existing Structures and the Development of a six (6) Storey Residential Flat Building Comprising of 9 x 1 Bedroom Units and 33 x 2 Bedroom Units to be Used Wholly for the Purposes of Affordable Rental Housing.

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# **Table of Contents**

1.	Introduction	5
2.	Site context	9
3.	Proposal	14
4.	Section 79C Considerations	18
4.1	Relevant State, Regional and Local Environmental Planning Instruments	18
4.1.1	Greater Metropolitan Regional Environmental Plan No 2 – Georges River Catchment	18
4.1.2	State Environmental Planning Policy – Building Sustainability Index (BASIX)	18
4.1.3	State Environmental Planning Policy (Affordable Rental Housing) 2009	18
4.1.4	State Environmental Planning Policy No. 55 – Remediation of Land	21
4.1.5	State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development	21
4.1.6	Liverpool Local Environmental Plan 2008	28
4.2	Draft Relevant State, Regional and Local Environmental Planning Instruments	31
4.3	Development Control Plans	31
4.3.1	Liverpool Development Control Plan 2008	31
4.4	Regulations	32
4.5	Likely Impacts	32
4.5.1	Impact on the Natural Environment	32
4.5.2	Impact on the Built Environment	32
4.5.3	Social and Economic Impacts on the Locality	33
4.6	Suitability of the Site	33
4.7	Submissions made in accordance with this Act or the regulations	33
4.8	The Public Interest	33
5.	Conclusion	34



## **List of Appendices**

Appendix A	State Environmental Planning Policy (Affordable Rental Housing) 2009	35
Appendix B	9 Principles of State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development	39
Appendix C	State Environmental Planning Policy No. 65 – Apartment Design Guide	44
Appendix D	Liverpool Local Environmental Plan 2008	53
Appendix E	Liverpool Development Control Plan 2008	56
Appendix F	Clause 4.6 Variation to Clause 4.3 of the Liverpool Local Environmental Plan 2008  – Height of Buildings	
Appendix G	Pre – Development Application Minutes	81
Appendix H	Design Excellence Panel Meeting Minutes	82
Appendix I	Shadows 93 Nuwarra Road, Moorebank	83



## **List of Figures**

Figure 1 Site Location Map	9
Figure 2 No. 87 Nuwarra Road, Moorebank	10
Figure 3 No. 89 Nuwarra Road, Moorebank	11
Figure 4 No. 91 Nuwarra Road, Moorebank	11
Figure 5 No. 85 Nuwarra Road, Moorebank	12
Figure 6 No. 93 Nuwarra Road, Moorebank	12
Figure 7 Nos. 96-98 Nuwarra Road, Moorebank	
Figure 8 Ground Level Setback	24
Figure 9 Level 1-3 Northern & Southern Setback	
Figure 10 Level 4 & 5 North & South Setback	26
Figure 11 Level 4 & 5 Rear Setback	
Figure 12 Land Zoning Map	
Figure 13 Section 01	
Figure 14 Section 02	
Figure 15 Section 03	



#### 1. INTRODUCTION

This Statement of Environmental Effects (SEE) has been prepared in support of an application for the proposed demolition of all existing structures and the construction of a six (6) storey residential flat building on land known as 87-91 Nuwarra Road, Moorebank. The proposal will provide for 42 units pursuant to the provisions of the State Environmental Planning Policy (Affordable Rental Housing) 2009. Upon its completion, the development will be managed by St George Community Housing who are also the owners of the land.

Our clients are a dedicated not for profit organisation who seek to provide high quality, affordable residential housing options. In their research, they have identified a growing demand for affordable residential accommodation within the Liverpool local government area.

GAT & Associates have been engaged by St George Community Housing to prepare a Statement of Environmental Effects to accompany the development application for Council's consideration.

A Pre-Development Application meeting was held with Council on the 22 November 2017 (PL-136/2017). Refer to Appendix G for a copy of these minutes. In response to the notes provided by Council in their letter of advice, the following comments are made.

It was noted that the communal open space in the front setback was too disconnected from the majority of this space. This communal open space as previously shown within the front setback has since been removed and a more meaningful and usable space is provided. An enclosed bin storage area has been proposed which screens their visibility of the bins from the public domain. A substation is proposed and has been situated in manner which does not present visual amenity impacts for the proposal as viewed from the streetscape as it has been well integrated into the overall development proposed at the subject site.

The proposal was referred to Council's Design Excellence Panel meeting held on 16 November 2017 (PL-136/2017). Refer to Appendix H for a copy of these minutes. The concerns raised by the Panel have been consciously mitigated and addressed in the as detailed within this report. In response to the minutes received from Council regarding this Design Excellence Panel meeting, the following comments are made.

The deep soil area throughout the site has now been increased by 221m<sup>2</sup> to provide for a total area measuring 575m<sup>2</sup>.

The communal open space areas have been clearly defined, delineating this space from the public domain through the use of fencing and a secure gate in the front setback. A section of glass wall or a glass door, as suggested to be provided by the Panel is no longer considered necessary as the lobby area has been since reconfigured and addresses these concerns. The lift has been redesigned to open directly into the communal open space, providing improved connectivity.

Justification for any numeric non-compliances regarding separation have been provided within this Statement of Environmental Effects, demonstrating that the proposal does not negatively impact the amenity and/or development potential of adjoining sites. The DEP commented that the provision of blank walls facing north is not acceptable in satisfying separation concerns. This has been mitigated through the provision of glazing along this northern setback which is largely recessed behind the minimum setback requirement. Where blank walls are proposed these are



notably within the required setback and are generally not used as a means to justify any separation non-compliances.

The proposed development provides adequate solar access to 69% of units. It was noted by the Panel that the proposed reduction of 1% is considered acceptable given the development will be used solely as affordable housing.

The Panel indicated that the street elevation of the building from the entry down to the southern end of the building was considered to lack articulation. Higher planting is proposed to in the front setback to address these concerns, whilst also assisting to soften the proposed built form. This revised planting has been detailed on the accompanying Landscape Plan. The substation has been appropriately located, to avoid any undue visual amenity impact, to address to panels concerns.

The materials which have been selected have been purposefully chosen to be robust and of low maintenance and are detailed on Drawing No. DD-A-900 Materials and Finishes, which forms part of the architectural set of plans.

All other relevant documentation required for this application has been and are attached under separate covers to this Statement of Environmental Effects.

This Statement of Environmental Effects is based on information and details shown on the following plans prepared by Smith & Tzannes, Project No. 17-060;

- Drawing No. DD-A-000 Title
- Drawing No. DD-A-001 Notes
- Drawing No. DD-A-010 Site Plan
- Drawing No. DD-A-011 Demolition and Site Management Plan
- Drawing No. DD-A-100 Level 0 (Ground)
- Drawing No. DD-A-101 Level 1
- Drawing No. DD-A-102 Levels 2 & 3
- Drawing No. DD-A-103 Level 4
- Drawing No. DD-A-104 Level 5
- Drawing No. DD-A-105 Roof
- Drawing No. DD-A-150 Adaptable Units
- Drawing No. DD-A-200 East Elevation
- Drawing No. DD-A-201 West Elevation
- Drawing No. DD-A-202 North & South Elevations
- Drawing No. DD-A-203 Section 01
- Drawing No. DD-A-204 Section 02
- Drawing No. DD-A-205 Section 03 (Stair)
- Drawing No. DD-A-800 GFA Calculations
- Drawing No. DD-A-801 Landscape Calculations
- Drawing No. DD-A-802 Cross Vent & Solar Access
- Drawing No. DD-A-803 Storage Calculations (1)
- Drawing No. DD-A-804 Storage Calculations (2)
- Drawing No. DD-A-851 Shadows Winter Solstice
- Drawing No. DD-A-852 Shadows Equinox September
- Drawing No. DD-A-853 Shadows Summer Solstice



- Drawing No. DD-A-854 Shadows Equinox March
- Drawing No. DD-A-854 Shadows 93 Nuwarra Rd
- Drawing No. DD-A-900 Materials and Finishes

In addition to the above plans, the following reports and documents have also been considered and should be read in conjunction with this Statement of Environmental Effects:

- Acoustic Report prepared by Acoustic Logic;
- Access Report prepared by Morris Goding Accessibility Consulting;
- Arborist Report prepared by tree iQ;
- BASIX certificate including ABSA Certificates, NatHERS Summary and NathERS Schedule prepared by Northrop;
- BCA Design Advice prepared by Technical Inner Sight;
- Cost Summary Report prepared by Mitchell Brandtman;
- Demolition Statement prepared by Smith and Tzannes;
- Demolition and Construction Waste Management Plan prepared by LID Consulting;
- Design Verification Statement prepared by Smith & Tzannes;
- Erosion and Sediment Control Plan prepared by Bonacci;
- Geotechnical and Contamination Report prepared by Geo-Environmental Engineering;
- Landscape Plan prepared by Stitch Design studio;
- Stormwater Concept Plan prepared by Bonacci;
- Survey Plan prepared by Peak Surveying;
- Traffic Report prepared by Colston Budd Rogers and Kafes; and
- Waste Management Plan prepared by Elephant's Foot Recycling Solutions.

This Statement of Environmental Effects has been prepared in support of the proposed application. This report is based on the submitted plans, inspections of the site and general knowledge of the site and locality, with the aim of:

- Assessing the proposal against relevant statutory controls.
- Determining whether the proposal is acceptable within the existing and likely future context of the area.
- Considering whether the proposal is acceptable within the broader planning controls.
- Addressing any likely environmental and external impacts (positive and negative).

The proposed development has been assessed in relation to:

• Section 79C Considerations under the Environmental Planning & Assessment Act, 1979.



- Greater Metropolitan Regional Environmental Plan No 2 Georges River Catchment.
- State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004.
- State Environmental Planning Policy (Affordable Rental Housing) 2009.
- State Environment Planning Policy No.55 Remediation of Land.
- State Environmental Planning Policy No. 65 Design Quality of Residential Apartment Development.
- Liverpool Local Environmental Plan 2008.
- Liverpool Development Control Plan 2008.



#### 2. SITE CONTEXT

The subject site is commonly known as Nos. 87-91 Nuwarra Road, Moorebank and is legally defined as Lot 110 in Deposited Plan 235787 and Lots 6 and 5 in Deposited Plan 236405. The subject site is located on the western side of Nuwarra Road between Newbridge Road to the south and Maddecks Avenue to the south. The site provides for a fronatge of appproximately 66 metres and an overall site area of approximately 2,013m<sup>2</sup>. Refer to Figure 1 below.



Source: Six Maps, 2017

Figure 1 Site Location Map

Located on the subject site at present are detached dwellings with associated outbuildings. All existing structures will be demolished as part of the proposed works.

Development in the vicinity of the site is typically characterised by low to medium density residential development. In view of the R4 High Density Residential zone afforded to the site, the area will inevitably undergo a transition to higher density building forms with the proposed development representative of this desired future character.

The scale of the proposal is consistent with emerging development and recent development approvals in the area, namely:

• DA1314/2011: 96 – 98 Nuwarra Road, Moorebank. Demolition of existing structures and construction of a residential flat building comprising forty (40) residential units and two levels of basement car parking with vehicular access to be provided form Ikara Crescent and associated landscaping and service facilities.



• DA-131/2015: 93 Nuwarra Road, Moorebank. Demolition of existing structures and construction of a five (5) storey residential flat building containing 10 units and basement carparking. The proposal is lodged pursuant to State Environmental Planning Policy (Affordable Rental Housing) 2009.

The subject site is well located to local amenities and infrastructure with Moorebank Shopping Centre, Nuwarra Public School and Moorebank Library located to the west and to the south of the site, respectively. The site is also adequately serviced by public transport with regular bus services operating along Nuwarra Road, Newbridge Road and Maddecks Avenue, providing connections to a more expansive public transport network and linking the subject site to the suburbs of Moorebank, Liverpool, Bankstown, Strathfield and Burwood.

Refer to Figures below for a series of photographs of the site and surrounds.

#### No. 87 Nuwarra Road, Moorebank



Figure 2 No. 87 Nuwarra Road, Moorebank



#### No. 89 Nuwarra Road, Moorebank



Figure 3 No. 89 Nuwarra Road, Moorebank

#### No. 91 Nuwarra Road, Moorebank



Figure 4 No. 91 Nuwarra Road, Moorebank



Adjoining multi dwelling housing development to the north of the subject site.



Figure 5 No. 85 Nuwarra Road, Moorebank

Adjoining development to the south of the subject site which is also low density in scale. As mentioned earlier in this report, this site has an approval for a 5-storey residential flat building containing 10 units and basement car parking.



Figure 6 No. 93 Nuwarra Road, Moorebank



Higher density development at No. 96-98 Nuwarra Road, Moorebank containing a residential flat building consisting of 40 residential units along with two levels of basement car parking.

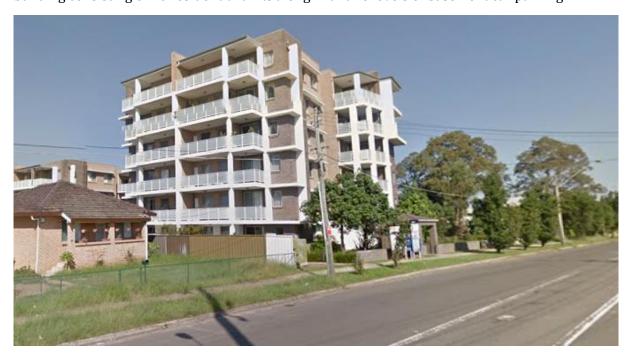


Figure 7 Nos. 96-98 Nuwarra Road, Moorebank



#### 3. PROPOSAL

The proposal before Council seeks the demolition of all existing structures over the subject land and the redevelopment of the site as a six (6) storey residential flat building. The proposal comprises a total of 42 units including  $9 \times 1$ -bedroom units and  $33 \times 2$ -bedroom unit layouts to be wholly used for the purposes of affordable rental housing. The subject site is currently under ownership of St George Community Housing who will manage the development upon its completion.

A detailed summary of the proposal is provided in the comments below.

#### **Ground Floor Plan/Level 0:**

- Vehicular access is proposed from the western site frontage to Nuwarra Road, providing access to an at grade car park located further to the west and south of the site. A total of 21 car spaces are proposed including 5 accessible spaces. 14 bicycle spaces are also proposed, along with 1 motorcycle space. The proposed car parking spaces will have minimal visual impact from the street given their setback from the front site boundary and are largely screened by the proposed residential units that are orientated to the street. Additionally, landscaping has also been proposed to offset this area and provide for an adequate visual balance.
- An area of communal open space is proposed to the northern corner of the site, wrapping around to the eastern setback. This space will be clearly delineated from the front setback.
- Two (2) residential units have been proposed at this level fronting Nuwarra Road. Each 2-bedroom unit has been designed to provide for direct access from the street.
- The remainder of the level will comprise of a lobby, plant/switch rooms, hydraulic pump room, bulky waste and waste areas. Two central lifts will service all levels of the buildings. Two sets of fire stairs are also proposed in accordance with BCA requirements.
- A substation is proposed in the south-eastern corner of the site.

#### Level 1:

• 6 x 2-bedroom units and 3 x 1-bedroom units are proposed.

#### Levels 2-3:

• 6 x 2-bedroom units are proposed at each level and 3 x 1-bedroom units at each level are proposed.

#### Level 4:

• 7 x 2-bedroom units are proposed.

#### Level 5:

• 6 x 2-bedroom units are proposed.



The majority of the balconies to each unit have been orientated to face either to the street or to the rear setback so as to minimise any overlooking between the subject site and adjoining properties. The rear setback is complaint with the provisions of the Apartment Design Guide, ensuring appropriate building separation is achieved. The balconies facing the street provide casual surveillance to the entrance of the building and communal spaces.

Drawing Nos. 200 – 202 show elevations of the proposed development and demonstrate the proposed finishes and materials, which are further detailed in Drawing No 900. The selected materials have been chosen to reflect a cost effective and attractive outcome on the site, with the primary focus being a low maintenance approach and timeless materiality. A neutral colour palette reinforces this design philosophy and enables a built form that ages well both aesthetically and physically.

The use of varied external wall materials including face brick, precast concrete panels and metal cladding reflect the modern design of the architecture and are complemented by aluminium screening to the balconies, translucent glass balustrades with powder coated grey framing.

As part of the submitted application, the 2-bedroom layouts have been designed to demonstrate how two single beds could be incorporated to accommodate a family. In this regard, the proposal promotes flexible living conditions to accommodate different households. All of the proposed residential units will be nominated as affordable housing.

Reference should be made to the submitted plans prepared by Smith & Tzannes.

Mailboxes servicing the development will be located at the centre of the site's frontage, adjacent to the main building entry path.

The proposal also seeks the removal of all trees currently located on the subject site(s). Reference should be made to Section 4.3.1 (a) of this report, the submitted Arborist Report and Landscape Plan for an assessment of these trees.

A BASIX certificate has been prepared with respect to the proposed residential units and nominates criteria to achieve the respective Water, Thermal and Energy targets. As part of the proposed development a 5000-litre rainwater tank has been nominated and will service common area landscaping on the site. A copy of the BASIX certificate and associated thermal documents are provided under a separate cover.

Reference should be made to the submitted plans prepared by Smith and Tzannes.

In reference to the submitted landscape plan, enhanced planting has been provided throughout the subject site offering a balance between hard and soft paved areas. New planting assists to soften the impression of built form when viewed from the streetscape and surrounding sites.

The following are objectives, which were considered in formulating the proposed development:

- □ To implement the outcomes of the following planning documents:
  - Section 79C Considerations under the Environmental Planning & Assessment Act, 1979.
  - Greater Metropolitan Regional Environmental Plan No 2 Georges River Catchment.
  - State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004.
  - State Environmental Planning Policy (Affordable Rental Housing) 2009.



- State Environment Planning Policy No.55 Remediation of Land.
- State Environmental Planning Policy No. 65 Design Quality of Residential Apartment Development.
- Liverpool Local Environmental Plan 2008.
- Liverpool Development Control Plan 2008.
- □ To provide for a high quality residential development that complements the desired future character of the area.
- □ To ensure that the proposed development does not create any unreasonable impacts to adjoining properties.

Technical reports have been prepared by the required consultants with their conclusions summarised below. Reference should be made to these accompanying reports attached under separate covers for a more detailed assessment of the proposal. The following comments with respect to these reports are provided.

#### **Arboricultural Impact Assessment**

The accompanying Arborist Report has noted that there are no trees which have been determined to have a Retention Value of *Priority for Retention*. The trees which have been proposed for removal as per this application are generally of a low landscape significance, of small proportions and are of low quality. Notably, no trees which are to be removed have been identified as having high or very high landscape significance. No objections are raised.

Source: Arborist Report prepared by tree iQ dated 30 January 2018.

#### **Access Report**

The accompanying Access Report has determined that the development provides accessible paths of travel which are continuous throughout the development. An appropriate degree of accessibility has been achieved and demonstrated, subject to a number of recommendations which can be readily accommodated. The development can readily achieve compliance with the relevant statutory requirements that relate to accommodation, site access and common area access.

Source: Access Review prepared by Morris-Goding Accessibility Consulting dated 25 January 2018.

#### **Acoustic Report**

The Acoustic Report, in its assessment of the proposed development, has concluded that based on the treatments set out within the report being adopted, the internal noise levels resulting from traffic noise impacts will comply with the relevant regulations and statutory requirements. The recommendations outlined within the report can be readily incorporated and therefore the proposal will satisfy the noise emission goals for the proposal.

Source: DA Stage Acoustic Assessment prepared by Acoustic Logic dated 25/01/18.



#### **Building Code of Australia Report**

The BCA assessment of the proposed development indicates compliance with the BCA 2016 provisions can be readily achieved without alterations that would require an amendment to the development consent.

Source: Building Code of Australia Report prepared by Technical Inner Sign dated 24 January 2018.

#### **Environmental Site Assessment Report**

The accompanying Environmental Site Assessment Report has concluded that based on the observations made as per conducted field investigations along with sampling and analysis, the site in its current condition is suitable for the proposed development and land use. It is recommended that after demolition works have been completed a licenced asbestos assessor or an occupational hygienist inspect the site and provide a clearance certificate.

Source: Stage 1 and 2 Environmental Site Assessment prepared by geo-environmental engineering dated 18 December 2017.

#### **Geotechnical Investigation Report**

It has been concluded in the accompanying Geotechnical Investigation Report that the proposed development is considered feasible based upon the results of the investigations. Should any unforeseen conditions be encountered it has been outlined in this report that geo-environmental engineering be advised so that the recommendations and conditions contained within this report can be reviewed, and alternatives be assessed.

Source: Geotechnical Investigation Report prepared by geo-environmental engineering dated 18 December 2017.

#### **Traffic Report**

The accompanying Traffic Report has examined the traffic implications of the proposed development. It has been concluded that a low generation of traffic volume would result from the proposal and would not have any noticeable effects on surrounding road networks. Internal layouts and access will be in accordance with the relevant Australian standards and that the parking provisions proposed are appropriate. Additionally, the proposal would increase residential densities nearby public transport services.

Source: Traffic Report prepared by Colston Budd rogers & Kafes Pty Ltd dated January 2018.

#### **Waste Management Plan**

It is noted that all waste management plans provided within this application will ensure compliance with the Council's relevant controls, specifications and statutory requirements.

Source: Waste management plan prepared by Elephants Foot dated 25/01/2018



#### 4. SECTION 79C CONSIDERATIONS

The following section provides an assessment of the proposed development in accordance with the provisions of Section 79C of the Environmental Planning and Assessment Act, 1979.

#### (1) Matters for consideration – general

In determining a development application, a consent authority is to take into consideration such of the following matters as are of relevance to the development, the subject of the development application.

The provisions of:

# 4.1 Relevant State, Regional and Local Environmental Planning Instruments

# 4.1.1 Greater Metropolitan Regional Environmental Plan No 2 – Georges River Catchment

The proposed development accords with the outcomes and objectives of the Greater Metropolitan Regional Environmental Plan No.2. Appropriate sediment and control devices will be placed on the site during site works to ensure that pollutants and runoff from the site will not impact upon the Georges River. Reference should be made to the Erosion and Sediment Control Plan prepared by Bonacci as part of this application.

# 4.1.2 State Environmental Planning Policy - Building Sustainability Index (BASIX)

The proposal has been assessed against the provisions of State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004. The proposal satisfies the targets set by the Policy in relation to water, thermal and energy.

A BASIX Certificate has been prepared by Northrop for the proposed residential flat building and is attached under a separate cover. The certificate demonstrates compliance with the required Water, Thermal and Energy provisions under BASIX.

#### 4.1.3 State Environmental Planning Policy (Affordable Rental Housing) 2009

This proposal has been designed to meet the provisions of the State Environmental Planning Policy (Affordable Rental Housing) 2009 (SEPP ARH). The subject site is located in an accessible area and demonstrates compliance with the accessible area criteria. Accordingly, Appendix A provides for an assessment of the proposal against the controls contained under Division 1 In-fill Affordable Housing.

Reference is to be made to Appendix A within this Statement of Environmental Effects.



#### 4.1.3.(a) Landscaped Area

The proposal has been prepared by St George Community Housing, a recognised social housing provider. Based on the provisions of Clause 14(c)(i), a landscaped area of  $35m^2$  per dwelling is to be provided. As the proposal seeks 42 units this is equivalent to a landscaped area of  $1,470m^2$ .

The proposal provides for 725m<sup>2</sup> of the subject site as landscaped area, representing a shortfall of 745m<sup>2</sup>.

To comply with the standard is considered to be completely unreasonable given that the required  $1,470\text{m}^2$  of landscaping is equivalent to 73% of the total site area. The irrationality of the standard is even more apparent when one considers that Clause 14(c)(ii) requires a private developer to set aside just 30% of a site as landscaping.

As the SEPP is not clear in this matter, we can only assume that the control therefore applies in the case of a townhouse development whereby the  $35m^2$  could be provided as a courtyard/rear yard to each dwelling. In the case of a residential flat building, particularly in a high-density zone such as the subject site, the control simply doesn't make sense.

The current proposal is notably compliant with the 30% requirement that would otherwise apply to a private developer, exceeding this standard by 122m². The application also includes various hard paved areas at ground level which although not technically landscaped area, positively contribute to the landscaped setting and communal open space. A variation is therefore considered to be reasonable in this instance.

#### 4.1.3.(b) Solar Access

As demonstrated in the submitted plans the proposal falls short of the 70% requirement by just 1% or 0.4 units. Given the minor variation sought, the proposed variation is considered to be reasonable in this instance. The variation is attributable to the north-south orientation of the site which has resulted in some south facing units. Where possible, units are provided with a dual aspect to maximise solar/daylight access. Notably, 15 units receive a minimum of 3hrs direct sunlight living areas at mid-winter.

The site is located within a high density residential zone and to a certain extent solar access is harder to achieve in these circumstances. The variation is equivalent to just 0.4 units and is considered reasonable given the context of the site.

It Is important to note that it would be unreasonable to apply a more onerous and different standard than that of the Apartment Design Guide. This is with regards to achieving a minimum of 3hrs solar access as prescribed under SEPP Affordable Rental Housing as opposed to the 2hr minimum prescribed by the Apartment Design Guide. It is not clear as to why an affordable housing scheme requires a greater level solar access and hence there is an unjustified discrepancy in this regard. In previous experiences, recent cases of the Land and Environment Court have adopted the 2hr solar access provisions as prescribed under ADG. This is reinforced by the fact that the SEPP Affordable Rental Housing requires the proposal to meet the standard in the Apartment Design Guide.



#### 4.1.3.(c) Character of Local Area

#### • Locality and Street Character:

The site is located within a high density residential zone, though development immediately adjoining the site to the north, east, south and west comprises of predominantly single and two storey fibro and brick dwellings that are of an older housing stock.

In view of the R4 High Density Residential zone afforded to the site, the area will inevitably undergo a transition to higher density building forms with the proposed development representative of this desired future character. This is evident in recent and proximate approvals at the sites Nos. 96-98 and 93 Nuwarra Road, Moorebank.

The site is situated in an area which is well serviced by local amenities and infrastructure with Moorebank shopping centre, Nuwarra Public School and Moorebank Library located to the west and south of the site, respectively. There are numerous bus stops located within walking distance from the site along Nuwarra Road that operate to adequately service the site. This public transport infrastructure provides valuable links to Moorebank, Liverpool, Bankstown, Strathfield and Burwood.

It is therefore considered that the proposed building is in keeping with the desired future character of the area.

#### • Landform:

The proposed built form has been relatively centred over the subject site allowing for landscaping and deep soil planting along the sites boundaries. Furthermore, the proposed built form will be provided with appropriate setbacks, further contributing to the provision of landscaping and deep soil planting.

#### Street patterns:

Existing street and subdivision patterns of the area are reflective of the areas initial character. The proposal satisfies Council's minimum allotment size and frontage controls through the consolidation of Nos. 87, 89 and 91 Nuwarra Road.

Parking is proposed at grade, to the rear of the site and will generally be concealed from the street by the proposed built form. Landscaping works are proposed either side of the driveway to soften its appearance to the street.

#### • Views and Vistas:

There are no substantial views attainable from the subject site.

#### • Conclusion:

Based on the above, it is our view that the proposed development is in keeping with the existing and future character of the area.

The built forms presentation to the street, together with appropriate colours and materials, all respond to the desired future character of the area. As detailed under section 3 of this report, the proposed building has been designed with a timeless materiality and low maintenance outcome.



The proposal will be consistent with the desired future character of the area evident through its zoning and emerging development applications such as the recent approvals at Nos. 96-98 and 93 Nuwarra Road, Moorebank.

It is considered that the proposed development will greatly benefit the local community by providing for affordable rental housing in an area well serviced by local amenities and public transport facilities.

#### 4.1.4 State Environmental Planning Policy No. 55 - Remediation of Land

Clause 7 of the State Environmental Planning Policy No. 55 – Remediation of Land requires Council to consider whether land is contaminated prior to granting consent to the carrying out of any development on that land.

Should the land be contaminated Council must be satisfied that the land is suitable in a contaminated state for the proposed use. If the land requires remediation to be undertaken to make the land suitable for the proposed use, Council must be satisfied that the land will be remediated before the land is used for that purpose.

A Stage 1 and 2 Environmental Assessment was undertaken at the subject site. Based on the observations which were made during these investigations it was concluded that the site in its current condition is suitable for the proposed development and associated land use. It is recommended that a licenced asbestos assessor, or an occupational hygienist perform an inspection for the site after demolition works have been completed and provide a clearance certificate.

# 4.1.5 State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development

This State Policy aims to improve the design quality of residential flat buildings of three or more storeys, incorporating four or more dwellings.

The policy sets out a series of design principles for Local Council or other consent authorities to consider when assessing development proposals for flats.

The SEPP 65 underwent a comprehensive review and the changes were notified on the NSW legislation website on 19 June 2015 and will commence on 17 July 2015. For development applications lodged after 19 June 2015 and determined after 17 July 2015, the Apartment Design Guide, along with the changes to SEPP 65 will apply.

The proposed apartments are designed and accord with the design principles as stipulated in this State Environmental Planning Policy. All information and details shown within this Statement of Environmental Effects is based on the submitted plans prepared by Smith & Tzannes.

State Environmental Planning Policy No. 65 specifies nine design quality principles for residential flat buildings. These principles are as follows:

Principle 1 Context and Neighbourhood Character

Principle 2 Built Form and Scale

Principle 3 Density



- Principle 4 Sustainability
- Principle 5 Landscape
- Principle 6 Amenity
- Principle 7 Safety
- Principle 8 Housing Diversity and Social Interaction
- Principle 9 Aesthetics

The aims and objectives of this policy are:

- (1) "This policy aims to improve the design quality of residential apartment development in New South Wales.
- (2) This policy recognises that the design quality of residential apartment development is of significance for environmental planning for the state due to the economic, environmental, cultural and social benefits of high quality design.
- (3) Improving the design quality of residential apartment buildings aims:
  - (a) to ensure that they contribute to the sustainable development of New South Wales;
    - (i) by providing sustainable housing in social and environmental terms; and
    - (ii) by being a long term asset to their neighbourhood; and
    - (iii) by achieving the urban planning policies for their regional and local contexts; and
  - (b) to achieve better built form and aesthetics of buildings and the streetscapes and the public places they define; and
  - (c) to better satisfy the increasing demand, the changing social and demographic profile of the community, and the needs of the widest range of people from childhood to old age, including those with disabilities; and
  - (d) to maximise amenity, safety and security for the benefit of their occupants and the wider community; and
  - (e) to minimise the consumption of energy from non-renewable resources, to conserve the environment and to reduce greenhouse gas emissions, and
  - (f) to contribute to the provision of a variety of dwelling types to meet population growth, and
  - (g) to support housing affordability, and
  - (h) to facilitate the timely and efficient assessment of applications for development to which this Policy applies.
- (4) This Policy aims to provide:



- (a) consistency of policy and mechanisms across the State; and
- (b) a framework for local and regional planning to achieve identified outcomes for specific places."

The SEPP notes that good design is a creative process which, when applied to towns and cities, results in the development of great urban places, buildings, streets, square and parks.

Good design is inextricably linked to its site and locality, responding to the landscape, existing built form, culture and attitudes. It provides sustainable living environments, both in private and public areas.

Furthermore, good design serves the public interest and includes appropriate innovation to respond to technical, social, aesthetic, economic, and environmental challenges.

These nine design quality principles do not generate design solutions, but provide a guide to achieving good design and the means of evaluating the merit of proposed solutions. These principles are addressed under Appendix B of this report.

#### 4.1.5.(a) Residential Apartment Design Guidelines

Further to the above design quality principles, Clause 30(2) of SEPP No. 65 also requires residential apartment development to be designed in accordance with the Department of Planning's publication entitled Apartment Design Guide (ADG). Compliance with ADG is assessed under a table within Appendix C of this report. Refer to Appendix C for an assessment of the planning guidelines of Apartment Design Guide.

#### 4.1.5.(b) An Assessment of the Proposal Under the Apartment Design Guidelines

#### Orientation

The building has been designed so as to minimise any detrimental effect in terms of overshadowing to neighbouring properties. A drawing sheet has been prepared and is attached under Appendix F of this report demonstrating the impact of the proposed development on a recent approval at No. 93 Nuwarra Road. It has been demonstrated, through a shadow analysis, that the proposed building has a minimal impact upon the approved development to the south.

It should be noted that the largest detriment in terms of overshadowing is from the 6-storey development at No. 80-82 Lucas Avenue, which is currently under construction. As stated within this report the area has been afforded a R4 High Density Residential zoning, hence the area is currently experiencing a change in built form, with this trend expected to continue. Given the likely high-density nature of future development, a degree of overshadowing impacts is inevitable. The proposal, through its siting and design, has been designed to minimise adverse impacts, with the greater impact being from the development currently under construction at No. 80-82 Lucas Avenue. Refer to Appendix F of this SEE for further details.

Importantly, Drawing No. DA-A-855 has demonstrated that the shadows cast by the proposed development are essentially the same as what would be cast be a development that would otherwise strictly comply with the required ADG setbacks. This specifically refers to shadows cast to the adjoining site at No. 93 Nuwara Road. Therefore, it has been demonstrated that although the proposal does have minor setback breaches these have no implications in terms of additional shadows that would be cast if the development strictly complied in this regard.

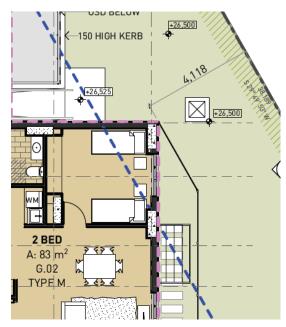


Therefore, given the orientation of the sites and that of the adjoining development, and orientation of balconies to the street and to the rear, adequate solar access would not be compromised in this regard. Thus, it is considered the proposed development has no negative implications in this regard when compared to a development contained within the minimum setback requirements.

#### **Separation Setbacks**

Minor variations are sought at each level. Where these minor breaches occur, these are limited to the eastern, western and northern parts of the development. The blue dotted lines shown on figures 8,9,10 and 11 demonstrate the required ADG Setbacks.

In accordance with the Apartment Design Guide, a minimum setback of 6m is required for habitable rooms and balconies up to 4 storeys. To the northern setback a minimum 4.118m setback is proposed. The setback varies in separation distance with the greatest separation measuring 9.084m. This minor breach of 1.882m is considered acceptable as the unit is sited at ground level the proposed side boundary fencing is considered to provide for adequate visual privacy. It should be noted that, part of this breach relates to a blank wall offering no visual privacy impact, with other parts of the building being contained within this 6m setback. The ground floor bedroom window to unit G.02 is screened by fencing to the private open space. This variation is also partly due due to the side boundary not running at 90 degrees from Nuwarra Road and the irregularity of the site. Therefore, setbacks cannot run parallel to the sites boundary, as this would result in irregular shaped rooms and building which does not offer a beneficial amenity for residents. Refer to Figure 8.



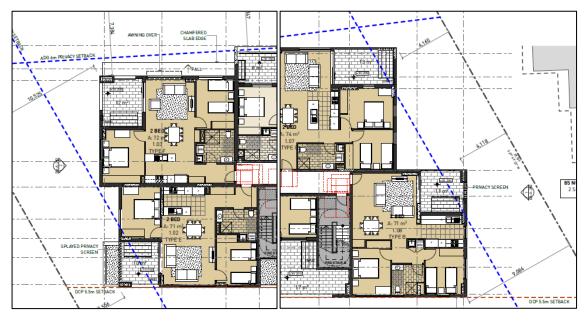
Source: Smith & Tzannes

Figure 8 Ground Level Setback

At level 1-3, a minimum 4.118m is proposed to the northern setback which primarily relates to portions of balconies. As mentioned previously, the Apartment Design Guide requires a 6m setback to habitable rooms and balconies for buildings up to 4 storeys, therefore variation of



1.882m is sought. Notably, separation distances vary along this setback with the greatest distance equalling 9.084m These balconies have been designed for orientation to the rear of the site, remaining consistent with design objectives. Privacy screening is provided to the encroaching balcony portions to mitigate any visual privacy concern. To the southern site setback where there are minor balcony encroachments into the setback, privacy screening is proposed to ensure adequate visual privacy is provided between neighbours. To portions of balconies, where privacy screens have not been provided, this is considered acceptable due to their orientation being predominantly to the street, which does not have visual privacy impacts on adjoining neighbours. The majority of the build form is sited within the required 6m setback, having a 6-9.084m setback. Refer to Figure 9.



Southern Setback

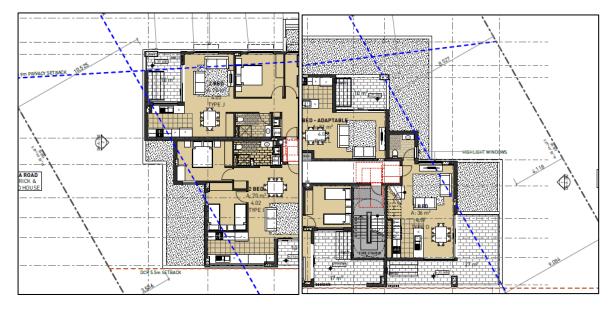
Northern Setback

Source: Smith & Tzannes

Figure 9 Level 1-3 Northern & Southern Setback

At levels 4 and 5, the Apartment Design Guide prescribes a 9m setback to habitable rooms and balconies. A variation is sought to the northern setback with the minor breaches relating solely to blank walls and minor parts of a balcony which has been provided with privacy screening. Therefore, appropriate visual privacy is maintained. Where bedroom windows to units 4.02 and 5.02 minimally breach the setback requirements these are not orientated to face adjoining sites rather provide for an outlook to the street, offering a degree of casual surveillance to the public domain. Majority of the built form is contained within the required 9m setback, with separation distances carrying between 6.362m up to 10.571m. Overall the development provides greater setbacks. As mentioned previously the sites side boundaries do not run at 90 degrees from Nuwarra Road, the development has consciously been designed to ensure that majority of the built form is contained within these minimums setback requirements. Refer to Figure 10.





Southern Setback (Level 4)

Northern Setback (Level 4)



Southern Setback (Level 5)

Northern Setback (Level 5)

Source: Smith & Tzannes

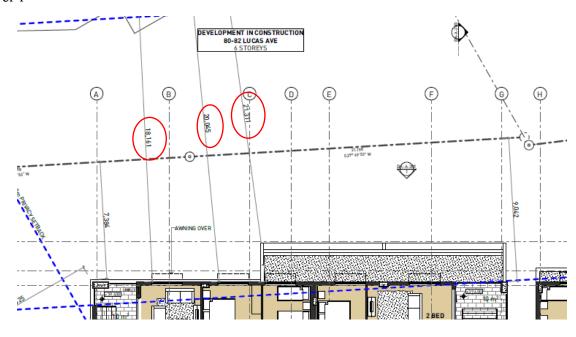
Figure 10 Level 4 & 5 North & South Setback

With regards to the western setback on levels 4 and 5, variations are limited to the south-western portion of the built form. These breaches are considered acceptable as there is more than adequate separation between adjoining built form. The Apartment Design Guide prescribes that a minimum of 18m separation be provided between buildings, between habitable rooms/balconies. The development achieves this standard providing a minimum separation distance of 18.161m.

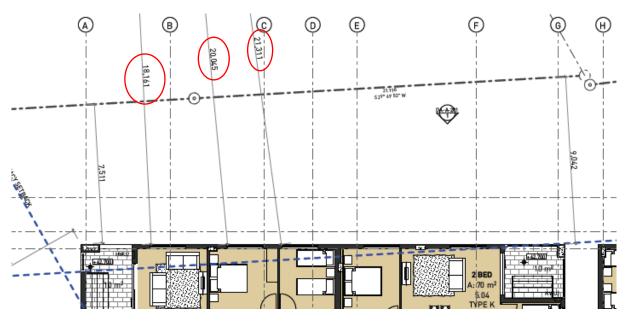


to the neighbouring development to the west of the site at No. 80-82 Lucas Avenue. Refer to Figure 11.

Level 4



Level 5



Source: Smith & Tzannes

Figure 11 Level 4 & 5 Rear Setback

Notwithstanding the variations to building separation sought, the development is considered to be well articulated in its design providing for steps in the building façade punctuated by areas of private open space or glazed elements. The contrasting materials sought to the external walls of



the development further provide for visual interest and complement the modern design of the development.

Overall, the breaches are considered minor in nature given the context of the proposed development and the irregular shaped nature of the subject site. In general, the development is considered to be complaint with any impacts from minor setback encroachments adequately mitigated.

#### **Common Circulation and Spaces**

Levels 2 and 3 will provide for a total of nine (9) units off a circulation core. Though a maximum of 8 units is specified under ADG, the design guidance notes that where this criteria is not achieved, no more than 12 units should be provided off a circulation core on a single level. The proposal therefore achieves the design guidance.

#### 4.1.6 Liverpool Local Environmental Plan 2008

A comprehensive assessment of the proposal against the controls can be found in Appendix C.

Additional comments are provided below.

#### 4.1.6.(a) Land Zoning & Objectives

The subject site is zoned R4 High Density Residential under the LLEP 08. Refer to Figure 8 below.

As residential flat buildings are listed as a permissible development, the proposal may be carried out with the consent of Council.

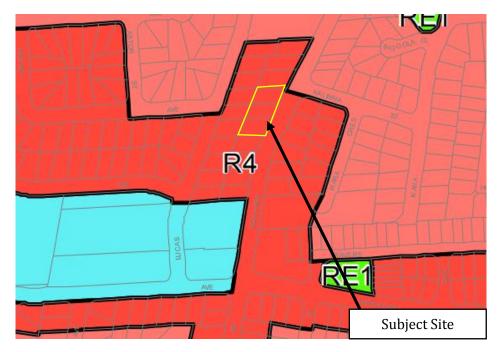
The objectives of the R4 High Density Residential Zone are as follows:

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To provide for a high concentration of housing with good access to transport, services and facilities.
- To minimise the fragmentation of land that would prevent the achievement of high density residential development.

The following comments are provided with respect to the zone objectives:

- The proposed residential flat building will replace the existing three dwellings on the site
  with 42 proposed units to provide for the housing needs of the community within a highdensity environment.
- The proposal comprises of a mix of 1 and 2-bedroom units, including adaptable designs ensuring a variety of housing types are available.
- No other land uses are proposed.
- The site is readily accessible by public transport with bus stops located within proximity from the development. The site is also located in proximity to Moorebank Shopping Centre to the south-west of the site.
- The proposal will not result in the fragmentation of land.





Source Liverpool Local Environmental Plan 2008

Figure 12 Land Zoning Map

#### 4.1.6.(b) Height of buildings

The proposal will result in a maximum building height of 19.981 metres, exceeding the control by 1.981m or 11%.

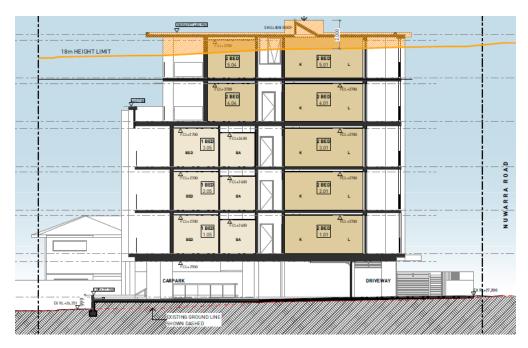
It is worthy to note that the greatest variation being 1.981m occurs to the north and south of the site and is in part attributable to the lift overrun and where the land experiences the greatest fall. The maximum height to the building parapet measures 18.781 metres, exceeding the control by 0.781m or 4.3%. This is considered a minor encroachment and does not provide for any adverse impacts as detailed within this report.

The proposal is notably compliant in terms of floor space ratio and in this respect reference is made to the decision of the Land & Environment Court: *Abdul-Rahman v Ashfield Council [2015] NSWLEC 112 (28 April 2015).* The case established that where additional FSR is proposed to facilitate the provision of affordable rental housing, an increased building envelope is likely. This is evident in the current proposal acknowledging compliance with the FSR control of 1.7 has been achieved, with the proposal having an FSR of 1.65:1.

The current floor level of RL27.10 has been set to allow for an adequate freeboard to stormwater flow and for an emergency flow path around the building, as the site falls away from the road. Consequently, this has resulted in the building being raised by an additional 100mm. Raising the building to this extent is required to ensure and allow for an emergency flow path, allowing water to drain from the front of the building towards to sites rear, should drainage infrastructure become completely blocked.

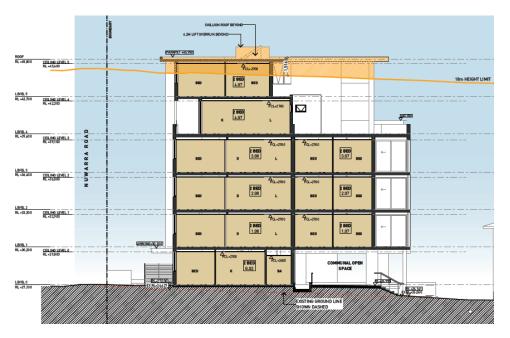
The images below detail the breaches in height.





Source: Smith & Tzannes

Figure 13 Section 01



Source: Smith & Tzannes

Figure 14 Section 02





Source: Smith & Tzannes

Figure 15 Section 03

Further, it is widely recognised that housing affordability in Sydney is becoming increasingly difficult to achieve. Our client is a not-for-profit organisation seeking to address a prevalent issue in Sydney's housing market. Our client is committed to providing a development that is 100% affordable and social housing far surpassing the requirements of SEPP (Affordable Rental Housing) 2009, which only requires between 20 – 50% of dwellings be provided as affordable rental housing.

The additional height sought on the site will enable increased residential accommodation to be provided on site without exceeding the floor space ratio control.

Reference should be made to the submitted Clause 4.6 Variation Statement under Appendix F.

# 4.2 Draft Relevant State, Regional and Local Environmental Planning Instruments

The site falls outside the scope of the *Draft Liverpool LEP 2008 Amendment No. 52 and Draft Liverpool DCP 2008 Part 4 Liverpool City Centre 16-06-16.* 

Therefore, there are no draft plans to be considered.

#### 4.3 Development Control Plans

#### 4.3.1 Liverpool Development Control Plan 2008

A comprehensive assessment of the proposal against the controls can be found in Appendix D.



#### 4.3.1.(a) Social Impact Assessment

LDCP08 identifies the proposed development as one which requires a Social Impact Comment (SIC). This is due to the number of residential units proposed (42) being above the threshold (20) requiring a Social Impact Comment/Assessment. Accordingly, we make the following comments:

#### Accommodation:

The proposal will provide for 42 well designed units which will appeal to a range of different sized family groups. As part of the submitted application, the 2-bedroom layouts have been designed to demonstrate how 2 single beds could be incorporated to accommodate a family. In this regard, the proposal promotes flexible living conditions to accommodate different households.

#### **Health and Wellbeing:**

The units will provide for good amenity in terms of solar access and natural ventilation. The proposal achieves good levels of both solar access and natural ventilation.

The close proximity of this site to public transport will reduce the reliance upon private vehicles.

#### **Security and Safety:**

As detailed within this report, there are ample opportunities within the development for casual surveillance of public areas which is to the public benefit.

#### **Values and Expressions:**

The proposed development is of a high architectural standard and will set a high-quality tone for this neighbourhood. In this regard, the attention to detail in the design of the building facade particularly defining the communal and private open spaces conveys a sense of 'ownership' and connection between the future occupants and precinct.

#### 4.4 Regulations

There are no prescribed matters which hinder the development.

#### 4.5 Likely Impacts

Consideration must be made to the likely impacts of the development, including environmental impacts on both the natural and built environments, and social and economic impacts in the locality.

#### 4.5.1 Impact on the Natural Environment

The proposed development will not have an adverse impact on the natural environment. New plantings will be introduced in accordance with the proposed landscape plan. The proposed landscape plan will improve the amenity of the site and the surrounding streetscape.

#### 4.5.2 Impact on the Built Environment

The works proposed are consistent with the built form and desired future character of the area.



#### 4.5.3 Social and Economic Impacts on the Locality

Housing affordability in Sydney is becoming increasingly difficult to acheive. Our client is a recognised social housing provider who strive to provide for quality affordable housing developments.

It is important to acknowledge that unlike SEPP (Affordable Rental Housing) 2009, which requires that up to 50% of the dwellings be offered as affordable housing for a period of 10 years, all of the proposed 42 units will be nominated as affordable housing to be managed by our client, St George Community Housing.

The proposal therefore provides a social benefit to the community providing new, affordable accommodation in an area well serviced by public transport services and local infrastructure.

The proposed development is considered to be of a high architectural standard promoting solar access and cross ventilation. A mix of units are proposed, ranging between one and two-bedroom units including adaptable designs. The proposal therefore addresses lifestyle and affordability issues of the immediate area.

The proposal will therefore provide a positive economic impact as the site is in a location that is close to good public transport infrastructure, businesses, schools, shops and services, which benefits the future residents of the property who want to live, study, work and play in the South Western Sydney area.

#### 4.6 Suitability of the Site

The land is appropriately zoned to permit the proposed development and meets the long-term objectives of the zone and the objectives of the Liverpool Local Environmental Plan 2008.

#### 4.7 Submissions made in accordance with this Act or the regulations

Not relevant.

#### 4.8 The Public Interest

The interest of the public will be served by approval of this development.

As stated, the proposed development will increase the housing choice available in this location, a location which is well serviced by public transport, services and shops. The proposal provides for a mix of one and two-bedroom apartments, as well as adaptable apartments. The proposal will provide for a development that will consist of all 42 being nominated as affordable housing to be managed by our client St George Community Housing assisting in addressing the growing issue if housing affordability in the Sydney Area.

The site is well serviced by public transport, making access to and from the site easy for the future occupants. Notwithstanding this, the site also provides for adequate on-site parking.



#### 5. CONCLUSION

The proposed development has made regard to the surrounding land uses. It is considered that all reasonable measures to mitigate any adverse environmental effects have been taken into consideration in relation to the proposed residential flat building.

The proposal has been assessed in accordance with the provisions of Section 79C of the Environmental Planning and Assessment Act, 1979, and found to be satisfactory. The proposal is permissible with the consent of Council.

The beneficial aspects of the proposal include:

- The proposed residential units will contribute to the supply of affordable rental housing within the Liverpool local government area;
- The proposed units are well designed and provide for excellent internal amenity and outlook, whilst maintaining privacy between neighbours.
- The proposal provides for off street car parking in accordance with the provisions of SEPP (ARH) 2009, reducing the reliance of on street car parking.
- The proposed development is considered to be of a scale and mass that is consistent with the future character of the area.
- The proposal is compatible with Council's planning objectives and controls for the site and locality.

The proposed development will have no significant impact on the air or water quality in the locality.

The proposed works do not result in any unreasonable impacts to adjoining properties and are conducive to Council's policies and accordingly, it is sought that Council approve the application.



## Appendix A State Environmental Planning Policy (Affordable Rental Housing) 2009

### Division 1 In-Fill Affordable Housing

CLAUSE	DEVELOPMENT STANDARD/CONTROL		COMPLIANCE	
10 Development to which Division applies	<ul> <li>This Division applies to development for the purposes of dual occupancies, multi dwelling housing or residential flat buildings if:         <ul> <li>(a) the development concerned is permitted with consent under another environmental planning instrument, and</li> <li>(b) the development is on land that does not contain a heritage item that is identified in an environmental planning instrument, or an interim heritage order or on the State Heritage Register under the Heritage Act 1977.</li> </ul> </li> </ul>	•	Complies.	
	<ul> <li>Despite subclause (1), this Division does not apply to development on land in the Sydney region unless all or part of the development is within an accessible area.</li> <li>Despite subclause (1), this Division does not apply to development on land that is not in the Sydney region unless all or part of the development is within 400 metres walking distance of land within Zone B2 Local Centre or Zone B4 Mixed Use, or within a land use zone that is equivalent to any of those zones.</li> </ul>	•	The site is located 394m away from an appropriately serviced bus stop on Newbridge Road. Complies. This bus stop satisfies the accessible area criteria with the required bus services provided by the M90 bus route. N/A.	
11, 12	(Repealed)	•	N/A.	
13 Floor Space Ratios	<ul> <li>This clause applies to development to which this Division applies if the percentage of the gross floor area of the development that is to be used for the purposes of affordable housing is at least 20 per cent.</li> <li>The maximum floor space ratio for the development to which this clause applies is the existing maximum floor space ratio for any form of residential accommodation permitted on the land on which the development is to occur, plus:         <ul> <li>(a) if the existing maximum floor space ratio is 2.5:1 or less:</li> </ul> </li> </ul>	•	All of the proposed 42 units will be used as affordable housing. Complies.	
	(i) 0.5:1—if the percentage of the gross floor area of the development that is used for affordable housing is 50 per cent or higher, or	•	1.2:1 under LLEP 08. A bonus of 0.5:1 applies under SEPP	

87-91Nuwarra Road, Moorebank 35



CLAUSE	DEVELOPMENT STANDARD/CONTROL	COMPLIANCE
	<ul> <li>(ii) Y:1—if the percentage of the gross floor area of the development that is used for affordable housing is less than 50 per cent,</li> <li>where:</li> <li>AH is the percentage of the gross floor area of the development that is used for affordable housing.</li> <li>Y = AH ÷ 100</li> <li>or</li> </ul>	(ARH) 2009. Therefore maximum 1.7:1. Site area: 2,013m² Max GFA permissible: 3,422m² Proposed GFA: 3335m² or 1.65:1. Complies.
		• N/A.
440	<ul> <li>(b) if the existing maximum floor space ratio is greater than 2.5:1:         <ul> <li>(i) 20 per cent of the existing maximum floor space ratio—if the percentage of the gross floor area of the development that is used for affordable housing is 50 per cent or higher, or</li> <li>(ii) Z per cent of the existing maximum floor space ratio—if the percentage of the gross floor area of the development that is used for affordable housing is less than 50 per cent, where:</li></ul></li></ul>	
14 Standards that cannot be	• <b>Site and solar access requirements</b> : A consent authority must not refuse consent to development to which this Division applies on any of the following grounds:	
used to refuse consent	<ul> <li>(a) (Repealed)</li> <li>(b) site area: if the site area on which it is proposed to carry out the development is at least 450 square metres,</li> <li>(c) landscaped area if:</li> </ul>	• 2,013m <sup>2</sup> . Complies.
	<ul> <li>(i) in the case of a development application made by a social housing provider—at least 35 square metres of landscaped area per dwelling is provided, or</li> <li>(ii) in any other case—at least 30 per cent of the site area is to be landscaped,</li> <li>(d) deep soil zones if, in relation to that part of the site area (being the site, not only of that particular development, but also of any other associated development to which this Policy applies) that is not built on, paved or otherwise sealed:</li> </ul>	<ul> <li>Variation is sought. 1,470m² required. 725m² proposed. Refer to Part 4.1.3(a) of this SEE.</li> <li>N/A.</li> <li>575m² or 28.56%. Complies.</li> </ul>



CLAUSE	DEVELOPMENT STANDARD/CONTROL		COMPLIANCE
CENTOSE	<ul> <li>(i) there is soil of a sufficient depth to support the growth of trees and shrubs on an area of not less than 15 per cent of the site area (the deep soil zone), and</li> <li>(ii) each area forming part of the deep soil zone has a minimum dimension of 3 metres, and</li> <li>(iii) if practicable, at least two-thirds of the deep soil zone is located at the rear of the site area,</li> <li>(e) solar access if living rooms and private open spaces for a minimum of 70 per cent of the dwellings of the development receive a minimum of 3 hours direct sunlight between 9am and 3pm in mid-winter.</li> <li>General: A consent authority must not refuse consent to development to which this Division applies on any of the following grounds: <ul> <li>(a) Parking if:</li> <li>(i) in the case of a development application made by a social housing provider for development on land in an accessible area—at least 0.4 parking spaces are provided for each dwelling containing 1 bedroom, at least 0.5 parking spaces are provided for each dwelling containing 2 bedrooms and at least 1 parking space is provided for each dwelling containing 3 or more bedrooms, or</li> <li>(ii) in any other case—at least 0.5 parking spaces are provided for each dwelling containing 1 bedroom, at least 1 parking space is provided for each dwelling containing 2 bedrooms and at least 1.5 parking spaces are provided for each dwelling containing 3 or more bedrooms,</li> <li>(b) dwelling size if each dwelling has a gross floor area of at least: <ul> <li>(i) 35 square metres in the case of a dwelling having 1 bedroom, or</li> <li>(iii) 70 square metres in the case of a dwelling having 2 bedrooms, or</li> <li>(iii) 95 square metres in the case of a dwelling having 3 or more bedrooms.</li> </ul> </li> </ul></li></ul>	•	29/42 or 69%.  Refer to Part  4.1.3(b) of this SEE.  9x 1 bedroom = 3.6  33 x 2 bedroom = 13.2  TOTAL REQUIRED =  16.8  TOTAL PROPOSED =  21. Complies.  Refer also to submitted Traffic Report.  N/A.  Complies.
	A consent authority may consent to development to which this Division applies whether or not the development complies with the standards set out in subclause (1) or (2).	•	Noted.
15 Design Requirements	• A consent authority must not consent to development to which this Division applies unless it has taken into consideration the provisions of the Seniors Living Policy: Urban Design Guidelines for Infill Development published by the Department of Infrastructure, Planning and Natural Resources in March 2004, to the extent that those provisions are consistent with this Policy.		N/A. Noted.
	• This clause does not apply to development to which clause 4 of the <i>State Environmental Planning Policy No 65 – Design Quality of Residential Apartment Development</i> applies.	•	noted.
16 Continued application of SEPP 65	Nothing in this policy affects the application of State Environmental Planning Policy No 65—Design Quality of Residential Flat Development to any development to which this Division applies.	•	Noted.
16A Character of local area	• A consent authority must not consent to development to which this Division applies unless it has taken into consideration whether the design of the development is compatible with the character of the local area.	•	Refer to Part 4.1.3(c) of this SEE.



CLAUSE	DEVELOPMENT STANDARD/CONTROL	COMPLIANCE
17 Must be used for affordable housing for 10 years	<ul> <li>A consent authority must not consent to development to which this Division applies unless conditions are imposed by the consent authority to the effect that:         <ul> <li>(a) for 10 years from the date of the issue of the occupation certificate:</li> <li>(i) the dwellings proposed to be used for the purposes of affordable housing will be used for the purposes of affordable housing, and</li> <li>(ii) all accommodation that is used for affordable housing will be managed by a registered community housing provider, and</li> <li>(b) a restriction will be registered, before the date of the issue of the occupation certificate, against the title of the property on which development is to be carried out, in accordance with section 88E of the Conveyancing Act 1919, that will ensure that the requirements of paragraph (a) are met.</li> </ul> </li> <li>Subclause (1) does not apply to development on land owned by the Land and Housing Corporation or to a development application made by, or on behalf of, a public authority.</li> </ul>	• Noted.
18 Subdivision	• Land on which development has been carried out under this Division may be subdivided with the consent of the consent authority.	Noted.



# Appendix B 9 Principles of State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development

The following comments are provided to address the 9 Design Principles:

# **Principle 1** Context and Neighbourhood Character

Good design responds and contributes to its context. Context is the key natural and built features of an area, their relationship and the character they create when combined. It also includes social, economic, health and environmental conditions.

Responding to context involves identifying the desirable elements of an area's existing or future character. Well-designed buildings respond to and enhance the qualities and identity of the area including the adjacent sites, streetscape and neighbourhood. Consideration of local context is important for all sites, including sites in established areas, those undergoing change or identified for change.

#### Comment:

The current proposal seeks the consolidation of Nos. 87, 89 and 91 Nuwarra Road to facilitate a proposed residential flat building development. The site is located on the western side of Nuwarra Road, between Newbridge Road to the to the north and Maddecks Avenue to the south.

Development in the area is typically low density in scale comprising a mixture single and two storey dwellings which are of an older housing stock. However, in view of the R\$ High Density Residnetail zoning afforded to the site, the area will inevitably undergo a transition to higher density building forms. This is reflected in recent development application submitted and approved with Liverpool Council including those at Nos. 93 and 96-98 Nuwarra Road, Moorebank.

The site is well located to local amenities and infrastructure with Moorebank Shopping Centre, Nuwarra Public School and Moorebank Library located to the west and to the south of the site, respectively. The site is also adequately serviced by public transport with regular bus services operating along Nuwarra Road, Newbridge Road and Maddecks Avenue, providing connections to a more expansive public transport network and linking the subject site to the suburbs of Moorebank, Liverpool, Bankstown, Strathfield and Burwood.

The proposal is considered to be an 'infill' development that responds to the desired future character of the area. Where possible, the proposal has made considerable effort to achieve the objectives and controls of the Apartment Design Guide as detailed in this report.

## **Principle 2 Built Form and Scale**

Good design achieves a scale, bulk and height appropriate to the existing or desired future character of the street and surrounding buildings.

Good design also achieves an appropriate built form for a site and the building's purpose in terms of building alignments, proportions, building type, articulation and the manipulation of building elements. Appropriate built form defines the public domain, contributes to the character of streetscapes and parks, including their views and vistas, and provides internal amenity and outlook.



#### Comment:

The scale of the proposed development has considered the desired future character of the area and the prescriptive controls as outlined by Liverpool's planning controls and the Apartment Design Guide. The proposal is notably compliant with the applicable floor space ratio control, though a variation statement has been prepared with respect to the overall building height. The most notable encroachment of height occurs with the lift overrun and this is strategically located at the centre of the building to reduce visual impact.

Development in the area is generally low density residential in nature comprising of predominantly single and two storey dwellings, being typically of an older housing stock. As mentioned earlier in this Statement of Environmental Effects, there have been proximate approvals issued for residential flat buildings similar in nature to that which is proposed. Those being at No. 96-98 Nuwarra Road (DA-1314/2011) and 93 Nuwarra Road (DA-131/2015)

Based on the above, the current proposal endeavours to represent a scale appropriate to the desired future character of the area as identified by the LEP and DCP. The scale of the proposal has also been carefully designed to provide a balance between the amenity for the future occupants and that of existing properties adjoining the site.

### **Principle 3 Density**

Good design achieves a high level of amenity for residents and each apartment, resulting in a density appropriate to the site and its context.

Appropriate densities are consistent with the area's existing or projected population. Appropriate densities can be sustained by existing or proposed infrastructure, public transport, access to jobs, community facilities and the environment.

#### Comment:

The subject site is afforded a maximum floor space ratio of 1:2 under the provisions of the Liverpool Local Environmental Plan 2008, with an additional 0.5:1 made available as per the development standards outlined by SEPP (Affordable Rental Housing) 2009. The proposal provides for an overall FSR of 1.65:1 which is in keeping with the numerical standard and representative of the higher densities sought within the R4 zone.

The proposed development comprises a total of 42 units, including a mix of  $9 \times 1$  bedroom units (21%) and  $33 \times 2$  bedroom units (79%), all of which will be made available as affordable rental housing.

The development provides for new residential accommodation in a location where there is a demand for such accommodation. The proposed 42 units sought on the site is considered to be suitable given the site is well located to public transport, shops, services and amenities and is consistent with Council's planning instruments. Recent approvals in the area namely, DA-131/2015 and DA-1314/2011 will also see redevelopment along Nuwarra Road in the coming years. Proximate bus stops service the site providing for connections to more expansive public transport networks and linking the site to the suburbs of Moorebank, Liverpool, Bankstown and Burwood as detailed in this report.

#### **Principle 4** Sustainability

Good design combines positive environmental, social and economic outcomes. Good sustainable design includes use of natural cross ventilation and sunlight for the amenity and liveability of residents and passive thermal design for ventilation, heating and cooling reducing reliance on



technology and operation costs. Other elements include recycling and reuse of materials and waste, use of sustainable materials, and deep soil zones for groundwater recharge and vegetation.

#### Comment:

The Water, Thermal and Energy performance of the proposed residential flat building has been assessed as part of the submitted BASIX certificate prepared by Northrop. Where possible, the principles of environmentally sensitive design have been incorporated into the development and is evident through the arrangement of floor plates to maximise north facing units, the prevalence of dual aspect units to obtain cross ventilation and built elements that promote natural daylight into apartments and projecting awnings/blade walls/screens that provide shading to recessed windows.

#### Principle 5 Landscape

Good design recognises that together landscape and buildings operate as an integrated and sustainable system, resulting in attractive developments with good amenity. A positive image and contextual fit of well-designed developments is achieved by contributing to the landscape character of the streetscape and neighbourhood.

Good landscape design enhances the development's environmental performance by retaining positive natural features which contribute to the local context, co-ordinating water and soil management, solar access, micro-climate, tree canopy, habitat values, and preserving green networks. Good landscape design optimises usability, privacy and opportunities for social interaction, equitable access, respect for neighbours' amenity, provides for practical establishment and long-term management.

#### Comment:

Landscape design should optimise useability, privacy and social opportunity, equitable access and respect for neighbours' amenity, and provide for practical establishment and long-term management.

A landscape plan has been prepared as part of this development application by Stitch design studio and is submitted under a separate cover to this Statement of Environmental Effects.

The proposal along with site appearance will be improved by the careful use of landscaping within and around the site. Deep soil areas have been incorporated throughout the perimeter if the site, allowing for plantings along the boundaries and providing for visual benefit to the street frontage. Overall, the landscaping provides for a balanced development between hard paved and soft landscaped areas throughout the site.

#### **Principle 6** Amenity

Good design positively influences internal and external amenity for residents and neighbours. Achieving good amenity contributes to positive living environments and resident wellbeing.

Good amenity combines appropriate room dimensions and shapes, access to sunlight, natural ventilation, outlook, visual and acoustic privacy, storage, indoor and outdoor space, efficient layouts and service areas, and ease of access for all age groups and degrees of mobility.

#### Comment:

Careful consideration has been given to the orientation and positioning of the development and the design and layout of units to ensure a high level of visual and acoustic privacy is maintained between neighbouring properties. This has been further demonstrated in the architectural plans prepared by Smith & Tzannes.



The proposal provides future occupants with a high level of amenity in terms of solar access and good outlook to habitable areas, as well as to balconies and private open space.

Careful planning of the proposed built form provides 64.3% of apartments to achieve cross ventilation due to their aspect, design and internal layout planning.

The development has been formed to achieve solar access to 69% of its units, this is considered acceptable as detailed earlier in this report. Living areas and balconies have been designed with a northern orientation as much as possible with passive shading measures, such as repetitive floor plans, designed to prevent excessive heat load on apartments during the summer period.

All apartments have private balconies adjacent to living areas, consistent with this policy.

Private open space areas meet minimum sizes as nominated by ADG and are configured to be functional and conducive to recreational use. All are accessed from living areas.

All dwellings achieve 2700mm ceiling heights to all habitable rooms. Generous amount of private storage is provided for each dwelling.

Other amenity issues include the provision of lifts servicing all floors of the development. Five (5) adaptable units with associated parking spaces are also provided.

## **Principle 7** Safety

Good design optimises safety and security, within the development and the public domain. It provides for quality public and private spaces that are clearly defined and fit for the intended purpose. Opportunities to maximise passive surveillance of public and communal areas promote safety.

A positive relationship between public and private spaces is achieved through clearly defined secure access points and well lit and visible areas that are easily maintained and appropriate to the location and purpose.

#### Comment:

The proposed development has had regard to the principles of 'Safer by Design'. Aspects such as natural surveillance and controlled access have all been taken into consideration.

The proposed development has made provisions for natural surveillance for both communal and public areas. The common areas will be appropriately lit to ensure safety and visibility after dark.

The entrance to the development, including private entries to the ground floor dwellings, are clearly visible from the street. Access to the building will be through a controlled security system. An intercom system will be provided adjacent to the main entry lobby for visitor access.

The street numbering and the identification of the building will be clear to prevent unintended access and to assist persons trying to find the building.

## **Principle 8** Housing Diversity and Social Interaction

Good design achieves a mix of apartment sizes, providing housing choice for different demographics, living needs and household budgets.

Well designed apartment developments respond to social context by providing housing and facilities to suit the existing and future social mix. Good design involves practical and flexible features, including different types of communal spaces for a broad range of people, providing opportunities for social interaction amongst residents.



#### Comment:

Housing affordability in Sydney is becoming increasingly difficult. Our client is a recognised social housing provider who strive to provide for quality affordable housing developments.

The building itself integrates a number of sustainable features exceeding the minimum standards prescribed by BASIX.

It is important to acknowledge that unlike SEPP (Affordable Rental Housing) 2009, which requires that up to 50% of the dwellings be offered as affordable housing for a period of 10 years, all of the proposed 42 units will be nominated as affordable housing to be managed by our client, St George Community Housing.

The proposal therefore provides a social benefit to the community providing for new, affordable accommodation in an area well serviced by public transport services and local infrastructure.

The proposed development is considered to be of a high architectural standard promoting solar access and cross ventilation. A mix of units is proposed ranging between one and two-bedroom units.

As part of the submitted application, the 2-bedroom layouts have been designed to demonstrate how 2 single beds could be incorporated to accommodate a family. In this regard, the proposal promotes flexible living conditions to accommodate different households.

The proposal therefore addresses lifestyle and affordability issues of the immediate area.

#### **Principle 9** Aesthetics

Good design achieves a built form that has good proportions and a balanced composition of elements, reflecting the internal layout and structure. Good design uses a variety of materials, colours and textures.

The visual appearance of well-designed apartment development responds to the existing or future local context, particularly desirable elements and repetitions of the streetscape.

#### Comment:

It is considered that the proposed development incorporates the composition of building elements, textures, materials and finishes which all contribute to an overall high quality and aesthetically appealing development. The location of the site, and bulk and scale of surrounding existing and potential future developments have been considered in the design of the development. The internal functions and structure have been clearly expressed through the articulation and massing of the facades.

#### **Design Verification Statement:**

A Design Verification Statement has been prepared by Smith & Tzannes and is submitted with this development application in accordance with State Environmental Planning Policy No. 65.

Further to the above design quality principles, Clause 30(2) of State Environmental Planning Policy No. 65 also requires residential apartment development to be designed in accordance with the Department of Planning's publication entitled *Apartment Design Guide*. The following table outlines compliance with the Apartment Design Guide, where numerical requirements are specified.



# Appendix C State Environmental Planning Policy No. 65 – Apartment Design Guide

STANDARD	OBJECTIVE	COMPLIANCE
Site Analysis	3A-1 - Site analysis illustrates that design decisions have been based on opportunities and constraints of the site conditions and their relationship to the surrounding context.	Reference should be made to Drawing No. DD-A-010 prepared by Smith & Tzannes.
Orientation	3B-1 - Building types and layouts respond to the streetscape and site while optimising solar access within the development.	Complies.
	3B-2 - Overshadowing of neighbouring properties is minimised during mid-winter.	Complies. <b>Refer to Part 4.1.5 (b) of this SEE.</b>
Public Domain Interface	3C-1 – Transition between private and public domain is achieved without compromising safety and security.	Complies. Ground levels will be provided with direct access to Nuwarra Road.
	3C-2 – Amenity of the public domain is retained and enhanced.	Complies.
Communal And Public Open Space	3D-1 – An adequate area of communal open space is provided to enhance residential amenity and to provide opportunities for landscaping	
	Design criteria: Communal open space has a minimum area equal to 25% of the site (see figure 3D.3)  Developments achieve a minimum of 50% direct sunlight to the principal usable part of the communal open space for a minimum of 2 hours between 9 am and 3pm on 21 June (mid winter).	505m² or 25%. Complies. Complies. Refer to Shadow diagrams.
	3D-2 – Communal open space is design to allow for a range of activities, respond to site conditions and be attractive and inviting.	Complies.
	3D-3 – Communal open space is designed to maximise safety.	Complies.
	3D-4 – Public open space, where provided, is responsive to the existing pattern and uses of the neighbourhood.	N/A.



STANDARD				OBJECTIVE	COMPLIANCE		
Deep Soil Zones	3E-1 - Deep soil zones improve residential an	Minimum required: 140.91m², 6m dimension.					
	Design criteria: Deep soil zones are to n	At least 260m <sup>2</sup> is provided or 12.9% of the					
	Site area	Minimum De dimensions (%	site has been provided as deep soil planting with minimum dimension of				
	less than 650m²	-			6m. This located along		
	650m² - 1,500m²	3m			the northern setback.		
	greater than 1,500m²	6m	7%				
	greater than 1,500m² with significant existing tree cover	6m					
Visual Privacy	reasonable levels of ex			re shared equitably between neighbouring sites, to achieve privacy	Level 0: 4.118-9.084m (north), min 17m = (rear).		
				ovided to ensure visual privacy is achieved. Minimum required and rear boundaries are as follows:	Level 1 – 3: 4.118- 9.084m (north), 6.147- 7.384m (rear), 3.556-		
	Building height	rooms and balconies	habitable rooms		10.525m (south).		
	up to 12m (4 storeys)	6m	3m		Level 4: 6.5-9.084m		
	up to 25m (5-8 storeys)	9m	4.5m		(north), 7.384-10.517m (rear), 6-10m (south).		
	over 25m (9+ storeys)	12m	6m		(rear), 0-10iii (soutii).		
	Note: Separation distar depending on the type of	Level 5: 8-11.9 (north), 7.5-10.5m (rear), 6- 10.525m (south).					
	Gallery access circulation should be treated as habitable space when measuring privacy separation distances between neighbouring properties.						



STANDARD	OBJECTIVE	COMPLIANCE
	3F-2 - Site and building design elements increase privacy without compromising access to light and air and balance outlook and views from habitable rooms and private open space.	Complies.
Pedestrian Access And Entries	3G-1 - Building entries and pedestrian access connects to and addresses the public domain.	Complies. Ground levels will be provided with direct access from Nuwarra Road.
	3G-2 - Access, entries and pathways are accessible and easy to identify.	Complies.
	3G-3 - Large sites provide pedestrian links for access to streets and connection to destinations	N/A
Vehicle Access	3H-1 - Vehicle access points are designed and located to achieve safety, minimise conflicts between pedestrians and vehicles and create high quality streetscapes.	Complies.
Bicycle And Car Parking	3J-1 - Car parking is provided based on proximity to public transport in metropolitan Sydney and centres in regional areas  Design criteria: For development in the following locations: on sites that are within 800 metres of a railway station or light rail stop in the Sydney Metropolitan Area; or on land zoned, and sites within 400 metres of land zoned, b# Commercial Core, B4 Mixed Use or equivalent in a nominated regional centre the minimum car parking requirement for residents and visitors is set out in the Guide to Traffic Generating Developments, or the car parking requirement prescribed by the relevant council, whichever is less  The car parking needs for a development must be provided off street.	Yes. Refer to comments under SEPP (ARH) 2009 and the submitted Traffic Report attached under a separate cover.
	3J-2 – Parking and facilities are provided for other modes of transport	Complies. Bicycle parking is proposed in a secure location at ground level.
	3J-3 – Car park design and access is safe and secure.	Complies.
	3J-4 – Visual and environmental impacts of underground car parking are minimised.	N/A
	3J-5 – Visual and environmental impacts of on-grade car parking are minimised.	Complies.



STANDARD	OBJECTIVE	COMPLIANCE
	3J-6 – Visual and environmental impacts of above ground enclosed car parking are minimised	N/A
Solar And Daylight Access	4A-1 - To optimise the number of apartments receiving sunlight to habitable rooms, primary windows and private open space.	
	Design criteria: Living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 2 hours direct sunlight between 9 am and 3 pm at mid winter in the Sydney Metropolitan Area and in the Newcastle and Wollongong local government areas	29/42 or 69%. <b>Refer to Part 4.1.3(b) of this SEE.</b>
	In all other areas, living rooms and private open spaces of at least 70% of apartments in a building receive a minimum of 3 hours direct sunlight between 9 am and 3 pm at mid winter	N/A
	A maximum of 15% of apartments in a building receive no direct sunlight between 9 am and 3 pm at mid winter	Complies. 14.3%
	4A-2 – Daylight access is maximised where sunlight is limited.	Complies.
	4A-3 – Design incorporates shading and glare control, particularly for warmer months.	Complies. Refer to BASIX.
Natural	4B-1 – All habitable rooms are naturally ventilated.	Complies.
Ventilation	4B-2 – The layout and design of single aspect apartments maximises natural ventilation.	Complies.
	4B-3 - The number of apartments with natural cross ventilation is maximised to create a comfortable indoor environment for residents	27/42 or 64.3%. Complies.
	Design criteria: At least 60% of apartments are naturally cross ventilated in the first nine storeys of the building. Apartments at ten storeys or greater are deemed to be cross ventilated only if any enclosure of the balconies at these levels allows adequate natural ventilation and cannot be fully enclosed Overall depth of a cross-over or cross-through apartment does not exceed 18m, measured glass line to glass line.	
Ceiling Heights	4C-1 - Ceiling height achieves sufficient natural ventilation and daylight access	Complies.
neignes	Design criteria: Measured from finished floor level to finished ceiling level, minimum ceiling heights are:	



STANDARD			OBJECTIVE	COMPLIANCE
	Minimum ceiling for apartment and r			
	Habitable rooms	2.7m		
	Non-habitable	2.4m		
	For 2 storey	2.7m for main living area floor		
	apartments	2.4m for second floor, where its area does not exceed 50% of the apartment area		
	Attic spaces	1.8m at edge of room with a 30 degree minimum ceiling slope		
	If located in mixed used areas	3.3m for ground and first floor to promote future flexibility of use		
	These minimum			
	4C-2 - Ceiling he	Complies.		
	4C-3 - Ceiling ho	Complies.		
Apartment Size And Layout	4D-1 - The layout of rooms within an apartment is functional, well organised and provides a high standard of amenity.			Complies. Refer to comments under SEPP (ARH) 2009.
	Design criteria:			
	Apartment type	required to have the following	ng minimum incernal areas.	
	Studio	35m²		
	1 bedroom	50m²		
	2 bedroom	70m²		
	3 bedroom	90m²		
	5m² each. A fourth bedroo Every habitable	m and further additional bed room must have a window i	the bathroom. Additional bathrooms increase the minimum internal area by drooms increase the minimum internal area by 12m2 each. In an external wall with a total minimum glass area of not less than 10% of may not be borrowed from other rooms	
	4D-2 – Environi	mental performance of the a	apartment is maximised.	Refer to submitted plans.



STANDARD				OBJECTIVE	COMPLIANCE
	Design criteria: Habitable room dept In open plan layouts from a window.				
	4D-3 – Apartment la	youts are	designed to	accommodate a variety of household activities and needs	Refer to submitted plans.
	Design criteria: Master bedrooms ha Bedrooms have a mid Living rooms or com 3.6m for studio and a 4m for 2 and 3 bedroo The width of cross-on layouts.				
Private Open Space And Balconies	4E-1 – Apartments provide appropriately sized private open space and balconies to enhance residential amenity.  Design criteria: All apartments are required to have primary balconies as follows:			Complies.	
	Dwelling type	Minimum area	Minimum depth		
	Studio apartments	4m²	-		
	1 bedroom apartments	8m²	2m		
	2 bedroom apartments	10m²	2m		
	3+ bedroom apartments	12m²	2.4m		
	The minimum balcor For apartments at gr balcony. It must have				
	4E-2 - Primary priva	Complies.			
	4E-3 - Private open and detail of the bui	Complies.			



STANDARD		OBJECTIVE					
	4E-4 - Private open	space and balcony de	esign maximises safety	Complies.			
Common Circulation And Spaces	4F-1 - Common circo  Design criteria: The maximum numb For buildings of 10 s	Variation is sought.  Refer to Part 4.1.5(b) of this SEE					
	4F-2 - Common circ	ulation spaces prom	ote safety and provide for social interaction between residents	Complies.			
Storage	4G-1 - Adequate, we  Design criteria: In addition to storag  Dwelling type	Complies. Adequate storage is provided for each unit, with at least 50% of the required storage located within the apartment.					
	Studio apartments	Storage size volume  4m³					
	1 bedroom apartments	6m³					
	2 bedroom apartments	8m³					
	3+ bedroom apartments	10m³					
	At least 50% of the r	required storage is to	be located within the apartment.				
	4G-2 - Additional sto	Complies.					
Acoustic Privacy	4H-1 - Noise transfe	Complies.					
	4H-2 - Noise impact	s are mitigated withi	in apartments through layout and acoustic treatments.	Complies. Refer to Acoustic Report.			
Noise And Pollution	4J-1 - In noisy or hos	Complies. Refer to Acoustic Report.					
	4J-2 - Appropriate n materials are used to	Complies. Refer to Acoustic Report.					



STANDARD	OBJECTIVE	COMPLIANCE
Apartment Mix	4K-1 - A range of apartment types and sizes is provided to cater for different household types now and into the future.	Complies. The two bedroom units have been designed to show how 2 single beds can be accommodated demonstrating a family arrangement.
	4K-2 - The apartment mix is distributed to suitable locations within the building.	Complies.
Ground Floor Apartments	4L-1 - Street frontage activity is maximised where ground floor apartments are located	Complies.
	4L-2 - Design of ground floor apartments deliver amenity and safety for residents	Complies.
Facades	4M-1 - Building facades provide visual interest along the street while respecting the character of the local area.	Complies.
	4M-2 - Building functions are expressed by the façade.	Complies.
Roof Design	4N-1 – Roof treatments are integrated into the building design and positively respond to the street.	Complies.
	4N-2 - Opportunities to use roof space for residential accommodation and open space are maximised	N/A
	4N-3 – Roof design incorporates sustainability features.	None proposed.
Landscape Design	40-1 – Landscape design is viable and sustainable	Complies. Refer to Landscape Plan.
	40-2 – Landscape design contributes to the streetscape and amenity.	Complies. Refer to Landscape Plan.
Planting On Structures	4P-1 – Appropriate soil profiles are provided.	Complies. Refer to Landscape Plan
	4P-2 – Plant growth is optimised with appropriate selection and maintenance.	Complies. Refer to Landscape Plan
	4P-3 - Planting on structures contributes to the quality and amenity of communal and public open spaces	Complies.



STANDARD	OBJECTIVE	COMPLIANCE
		Refer to Landscape Plan.
Universal Design	4Q-1 - Universal design features are included in apartment design to promote flexible housing for all community members.	Complies. Refer to Access Report
	4Q-2 - A variety of apartments with adaptable designs are provided.	Five (5) adaptable units are proposed in total (spread over Levels 2, 3 and 4).
	4Q-3 - Apartment layouts are flexible and accommodate a range of lifestyle needs.	As detailed, the proposed two-bedroom apartments have been shown to accommodate two single beds to cater to families.
Adaptive Reuse	4R-1 - New additions to existing buildings are contemporary and complementary and enhance an area's identity and sense of place.	N/A
	4R-2 - Adapted buildings provide residential amenity while not precluding future adaptive reuse.	N/A
Mixed Use	4S-1 - Mixed use developments are provided in appropriate locations and provide active street frontages that encourage pedestrian movement.	N/A
	4S-2 - Residential levels of the building are integrated within the development, and safety and amenity is maximised for residents.	N/A
Awnings And	4T-1 - Awnings are well located and complement and integrate with the building design.	N/A
Signage	4T-2 - Signage responds to the context and desired streetscape character.	N/A
Energy Efficiency	4U-1 - Development incorporates passive environmental design.	Complies.
	4U-2 - Development incorporates passive solar design to optimise heat storage in winter and reduce heat transfer in summer.	Complies.
	4U-3 - Adequate natural ventilation minimises the need for mechanical ventilation.	Complies.



STANDARD	OBJECTIVE	COMPLIANCE
Water Management And Conservation	4V-1 - Potable water use is minimised.	Water efficient fixtures are specified by the submitted BASIX certificate.
	4V-2 - Urban stormwater is treated on site before being discharged to receiving waters.	Complies Refer to Stormwater Plans.
	4V-3 – Flood management systems are integrated into site design.	Complies. Refer to Stormwater Plans.
Waste Management	4W-1 - Waste storage facilities are designed to minimise impacts on the streetscape, building entry and amenity of residents.	Complies. Refer to Waste Management Plan.
	4W-2 - Domestic waste is minimised by providing safe and convenient source separation and recycling.	Complies. Refer to Waste Management Plan.
Building	4X-1 – Building design detail provides protection from weathering.	Complies.
Maintenance	4X-2 – Systems and access enable ease of maintenance.	Complies.
	4X-3 – Material selection reduces ongoing maintenance costs.	Complies.

# Appendix D Liverpool Local Environmental Plan 2008

CLAUSE	DEVELOPMENT STANDARD/CONTROL	COMPLIANCE
Zoning	Zone R4 High Density Residential	Residential flat building is proposed.
	"2 Permitted without consent	Complies.
	Home-based child care; Home occupations	Refer to Part 4.1.3(a) of this SEE.
	3 Permitted with consent	



CLAUSE	DEVELOPMENT STANDARD/CONTROL	COMPLIANCE
	Attached dwellings; Bed and breakfast accommodation; Boarding houses; Building identification signs; Business identification signs; Centre-based child care facilities; Community facilities; Dwelling houses; Educational establishments; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Flood mitigation works; Home businesses; Home industries; Hostels; Hotel or motel accommodation; Kiosks; Multi dwelling housing; Neighbourhood shops; Places of public worship; Public administration buildings; Recreation areas; Residential care facilities; Residential flat buildings; Respite day care centres; Roads; Secondary dwellings; Serviced apartments; Shop top housing  4 Prohibited	
	Any development not specified in item 2 or 3".	
Clause 2.7 Demolition	Development consent required.	Demolition of all existing structures is proposed.
Clause 4.1 Minimum Subdivision Lot Size	• 1,000m <sup>2</sup>	2,013m <sup>2</sup> Complies.
Cl 4.3 Height of Buildings	• 18m.	Maximum 19.981m proposed. Variation is sought. Refer to Part 4.1.3(b) of this SEE.
Cl 4.4 Floor Space Ratio	• 1.2:1 under LLEP 08.  A bonus of 0.5:1 applies under SEPP (ARH) 2009. Therefore maximum 1.7:1.	Site area: 2,013m <sup>2</sup> Max GFA permissible: 3,422m <sup>2</sup> Proposed GFA: 3,335m <sup>2</sup> or 1.65:1. Complies.
Cl 5.10 Heritage Conservation	<ul> <li>The objectives of this clause are as follows:         <ul> <li>to conserve the environmental heritage of Liverpool,</li> <li>to conserve the heritage significance of heritage items and heritage conservation areas, including associated fabric, settings and views,</li> <li>to conserve archaeological sites,</li> <li>to conserve Aboriginal objects and Aboriginal places of heritage significance.</li> </ul> </li> </ul>	N/A.



CLAUSE	DEVELOPMENT STANDARD/CONTROL	COMPLIANCE
Cl 7.6 Environmentally Significant Land	<ul> <li>Before determining an application to carry out development on environmentally significant land, the consent authority must consider such of the following as are relevant: <ul> <li>(a) the condition and significance of the vegetation on the land and whether it should be substantially retained in that location,</li> <li>(b) the importance of the vegetation in that particular location to native fauna,</li> <li>(c) the sensitivity of the land and the effect of clearing vegetation,</li> <li>(d) the relative stability of the bed and banks of any waterbody that may be affected by the development, whether on the site, upstream or downstream,</li> <li>(e) the effect of the development on water quality, stream flow and the functions of aquatic ecosystems (such as habitat and connectivity),</li> <li>(f) the effect of the development on public access to, and use of, any waterbody and its foreshores.</li> </ul> </li> </ul>	N/A.
Cl 7.7 Acid Sulfate Soils	• The objective of this clause is to ensure that development not disturb, expose or drain acid sulfate soils and cause environmental damage.	N/A.
Cl 7.8 Flood Planning	This clause applies to land at or below the flood planning level.	N/A.
Cl 7.14 Minimum building street frontage	• A residential flat building requires a street frontage of at least 24 metres to a public street (excluding service lanes).	Approximately 66 metres along Nuwarra Road. Complies.



# Appendix E Liverpool Development Control Plan 2008

CHAPTER/	DEVELOPMENT STANDARD/CONTROL	COMPLY
PLANNING		
GUIDELINE		
Part 1 General Cont	rols for all Development	
Tree Preservation	<ul> <li>Any approvals to remove or prune trees issued with a development consent shall lapse when the development consent lapses or becomes invalid or void.</li> <li>Council may refuse an application to remove a tree(s) under certain circumstances (refer to clause) but may give conditional consent for the appropriate remedial "branch or root pruning" for that tree(s).</li> <li>An application to remove a tree may consented to by Council under certain circumstances (refer to clause).</li> </ul>	<ul> <li>Complies. Refer to Arborist Report and Landscape Plan.</li> </ul>
	<ul> <li>Applications for trees that have Aboriginal marking and/or constitute an item of Aboriginal significance shall be referred to DECC.</li> <li>Pruning must accord with AS 4373/2007.</li> <li>All existing indigenous trees shall be retained or replaced. Where approval is given to remove trees, appropriate replacement planting will be required.</li> </ul>	
	Significant trees that are identified as having habitat value shall not be relocated or removed.	
Landscaping And Incorporation Of	• Existing trees and native vegetation are to be retained, protected and incorporated into the development proposal.	Complies. Refer to Arborist Report and
Existing Trees	• Prior to the commencement of the design of a development existing trees should be identified. The design of the development should consider options to retain existing trees	Landscape Plan.
	• Existing indigenous trees within any building setback should be retained where possible, as an integral component of the site's landscaping, and to protect local habitats.	
	• Prior to the commencement of the design of a development existing street trees should be identified. The design of a development should consider options to retain existing street trees.	
Bushland And Fauna Habitat Preservation	Refer to DCP.	• N/A.
Bushfire Risk	• Construction of single dwellings on or adjacent to bushfire prone land is to be carried out in accordance NSW Rural Fire Service's Single Dwelling Application Kit	• N/A.
	<ul> <li>All development shall comply with provisions of the Rural Fires and Assessment Act 2002 and Planning for Bushfire Protection 2006</li> </ul>	
	<ul> <li>Asset Protection Zones shall be provided within the boundary of the land on which a development is proposed but may include public streets located between the land and bushland.</li> </ul>	



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
Water Cycle Management	• For developments that require construction of stormwater drainage, a SDCP shall be submitted with the Development Application demonstrating the feasibility of the proposed drainage system within the site and connection to Council's system.	Complies. Refer to Stormwater Plans.
Development Near A Watercourse	• If any works are proposed near a water course, the Water Management Act 2000 may apply, and you may be required to seek controlled activity approval from the NSW Office of Water.	N/A.
Erosion And Sediment Control	• The development application shall be accompanied by either a Soil and Water Management Plan (SWMP) or an Erosion and Sediment Control Plan (ESCP) as shown in Table 1.	Complies. Refer to Erosion & Sediment Control Plan.
Flooding Risk	• Reduce the risk to human life and damage to property caused by flooding through controlling development on land affected by potential floods.	N/A.
Contaminated Land Risk	<ul> <li>To identify the presence of contamination at an early stage of the development process and to manage the issues of land contamination to ensure protection of the environment and that of human health is maintained.</li> <li>Ensure that proposed developments or changes of land use will not increase the risk to human health or the environment</li> </ul>	Complies. Refer to Section 4.1.4 of this report.
Salinity Risk	• To prevent further spread of urban salinity and remedy, where possible, existing areas of salinity.	N/A
Acid Sulfate Soils Risk	Identify areas of acid sulfate soil risk to prevent any unnecessary impact on the environment.	N/A
Demolition Of Existing Developments	• All demolition work must comply with the <i>Australian Standard AS2601 – 1991, The Demolition of Structures</i> .	Complies.
Aboriginal Archaeology	• Identify and where possible preserve relics of the occupation of the land by Aboriginal communities	N/A
Heritage And Archaeological Sites	• Conserve the heritage significance of heritage items and heritage conservation areas of Liverpool including associated fabric, setting, curtilage and views; and conserve archaeological sites.	N/A
Subdivision Of Land And Buildings	Refer to DCP.	N/A
Water Conservation	• New dwellings, including a residential component within a mixed-use building and serviced apartments intended or capable of being strata titled, are to demonstrate compliance with <i>State Environmental Planning Policy – Building Sustainability Index (BASIX)</i> .	Refer to submitted BASIX Certificate.



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY	
Energy Conservation	• Dwellings, including multi-unit development within a mixed use building and serviced apartments intended or capable of being strata titled, are to demonstrate compliance with <i>State Environmental Planning Policy – Building Sustainability Index (BASIX)</i> . A complying BASIX report is to be submitted with all development applications containing residential activities.	BASIX Certific	
Waste Disposal & Re-Use Facilities	<ul> <li>A Waste Management Plan (WMP) shall be submitted with a Development Application for any activities generating waste, and be provided in three sections: <ul> <li>Demolition</li> <li>Construction</li> <li>On-going waste management.</li> </ul> </li> <li>In the case of multi dwelling housing of 9 or more dwellings and residential flat buildings one or more garbage and recycling enclosures (bin bays) are to be provided within the site.</li> <li>Bin bays or waste service rooms are to be sufficiently open and well lit.</li> <li>A hose cock for hosing the garbage bin bay and a sewered drainage point are to be provided in or adjacent to the bin storage area.</li> <li>Bin bays are to be adjacent to a street frontage, or if not possible then at a designated point adjacent to the common access driveway provided sufficient level areas (&lt;5% grade) is available for bin collection. The bin bay is to be located so that distance from bin bay to the nearest waste collection point accessible by the collection vehicle is no further than 15m. The bin bay position is to minimise noise impacts on residents from the usage of bins and waste or recycling collection.</li> </ul>	Reference sh made to submitted Management	the Waste
Outdoor Advertising And Signage	Refer to DCP provisions.	• N/A.	
Social Impact Assessment	• A social impact assessment shall be submitted with a development application for all types of development listed in Table 21. The social impact assessment shall take the form of a Social Impact Comment or a Comprehensive Social Impact Assessment, as specified in Table 21.	• Refer to 4.3.1(a) of th	Part is SEE.
	Flat Buildings in the R4 Zone (Outside of Liverpool City Centre)	T	
Frontage And Site Area	<ul> <li>Minimum lot width: 24m.</li> <li>Minimum site area: Refer to LLEP08.</li> </ul>		imately. equired. roposed.



CHAPTER/ PLANNING GUIDELINE				DEVELOPMENT	STANDARD/CONTROL		COMPLY
Site Planning	•	The building shoparking.	ould relate to	the site's topogr	raphy with minimal earthworks, except for basemer	nt car	<ul> <li>Minor cut and fill works are proposed. There is no proposed basement. Refer to geotechnical report.</li> </ul>
	•	Siting of building in the building de		ide usable and ef	ficient spaces, with consideration given to energy effic	iency	<ul> <li>Where possible, units are orientated to the north.</li> </ul>
	•	Site layout shoul	d provide safe	pedestrian, cycle	and vehicle access to and from the street.		<ul> <li>Separate vehicle and pedestrian access points are proposed.</li> </ul>
	•				surrounding development, taking specific account of cerials and visual amenity.	f the	• Complies as detailed in this SEE.
	•	Stormwater from it may be necess stormwater system on-site detention Part 1.					
	•	The development Design Quality of	• Refer to Appendix B of this report.				
	•	Note: A Site Anal	ysis Plan is req	uired for each dev	elopment application.		• Refer to Drawing No. DD-A-010.
Setbacks	Fr	ont and Seconda	ry Setbacks:				• A minimum Front setback of 5.15m is
		Table 1			_		proposed contained
		Road	Front Setback	Secondary Setback	_		to minor proportions of balconies fitted
		Classified Roads	7.0m	7.0m	_		with privacy screening.
		Other Streets	5.5m	5.5m	_		Cogondomy gotheral-
	•	Verandahs, eave 1m.	s and other su	n control devices	may encroach on the front and secondary setback by	up to	Secondary setback N/A.



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	The secondary setback is along the longest length boundary.  Side and Rear Setbacks:  Table 2	
	Item Side Setback Rear Setback	
	Boundary to land in R2 & R3 zones 10m 10m	<ul> <li>Refer to comments made under SEPP</li> </ul>
	Boundary to land in R2 & R3 zones (no windows to 10m 10m habitable rooms)	65/ADG.
	Boundary to land in R4 zone (First 10m in height, 3m 8m excluding roof/attic)	
	Boundary to land in R4 zone (Greater than 10m in 8m 8m height)	
	Boundary to public open space 6m 6m	
	Consideration will need to be given to existing and approved setbacks of residential flat buildings on adjoining buildings.	
Landscaped Area	Landscaped area (deep soil area):	
And Private Open Space	A minimum of 25% of the site area shall be landscaped area.	<ul> <li>Refer to comments under SEPP (ARH) 2009.</li> </ul>
	A minimum of 50% of the front setback area shall be landscaped area.	<ul> <li>Complies. Refer to Landscape Plan.</li> </ul>
	Optimise the provision of consolidated landscaped area within a site by:	
	o The design of basement and sub-basement car parking, so as not to fully cover the site.	<ul> <li>No basement level proposed.</li> </ul>
	o The use of front and side setbacks.	-
	<ul> <li>Optimise the extent of landscaped area beyond the site boundaries by locating them contiguous with the landscaped area of adjacent properties.</li> </ul>	<ul> <li>Complies. Refer to Landscape Plan.</li> </ul>
	Promote landscape health by supporting for a rich variety of vegetation type and size.	Complies. Refer to Landscape Plan.



CHAPTER/ PLANNING GUIDELINE		DEVELOPMENT	STANDARD/CONTR	ROL		COMPLY
	• Increase the permea materials.	ability of paved areas by li	imiting the area of	paving and/or using pervious paving	•	Complies. Refer to Landscape Plan.
	<ul> <li>Where communal op</li> <li>Locating it in rel</li> <li>Consolidating of landscape.</li> <li>Designing its siz</li> <li>Minimising over</li> <li>Carefully locating</li> </ul>	en space is provided, facilita ation to buildings to optimis pen space on the site into e and dimensions to allow for	ate its use for the design se solar access to dwo recognisable areas or the range of uses it to basement car particular to the range of uses it to basement car particular to the range of uses it to basement car particular to the range of uses it to basement car particular to the range of uses it to base to the range of uses it to the range	ellings. with reasonable space, facilities and twill contain.	•	Refer to comments under SEPP 65/ADG.
	Private Open Space Table 3				•	Refer to comments under SEPP 65/ADG.
	Dwelling Size	Private Open Space Area	Minimum Width			under our rooffiba.
	Small < 65 sqm	10sqm	2m			
	Medium 65 – 100	12sqm	2m			
	Large > 100 sqm	12sqm	2m			
	<ul><li>above the ground flo</li><li>Private open space accommodate seating</li></ul>	or areas should be an exten	sion of indoor livin	dwellings or as balconies for dwellings g areas and be functional in size to		



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	<ul> <li>Drying Areas</li> <li>Clothes drying facilities must be provided at a rate of 5 lineal m of line per unit. Clothes drying areas should not be visible from a public place and should have solar access.</li> </ul>	Refer to submitted plans. Drying areas are proposed to the balconies.
Building Design, Streetscape And Layout	Building Height  Refer to LLEP08.  Building Appearance and Streetscape	• Variation is sought. Refer to Part 4.1.6(b) of this SEE.
	<ul> <li>Residential Flat Buildings shall comply with State Environmental Planning Policy No 65 – Design Quality of Residential Flat Development, and should consider the Residential Flat Design Code.</li> <li>Building facades shall be articulated and roof form is to be varied to provide visual variety.</li> </ul>	<ul> <li>Refer to Appendix B of this report.</li> <li>Complies. Refer to Part 3 of this report.</li> </ul>
	• The pedestrian entrance to the building shall be emphasised.	A clearly defined landscaped path is proposed to the front lobby.
	A sidewall must be articulated if the wall has a continuous length of over 14 m.	No blank side wall will exceed 14m in length.
	• Where possible vehicular entrances to the basement car parking shall be from the side of the building. As an alternative a curved driveway to an entrance at the front of the building may be considered if the entrance is not readily visible from the street.	_
	• Driveway walls adjacent to the entrance of a basement car park are to be treated so that their appearance is consistent with the basement or podium walls.	• N/A.
	• Sensitive design of basement car parking areas can assist in ensuring that podiums and vehicle entry areas do not dominate the overall design of the building or the streetscape and optimise areas for deep soil planting.	• N/A.
	• The integration of podium design should be an integral part of the design of the development, and as far as possible should not visibly encroach beyond the building footprint.	Complies.
	• A master antenna shall be provided for any development of more than three dwellings and be located so that it is not visible from the street or any public open space.	conditioned.
	• Consider the relationship between the whole building form and the facade and /or building elements. The number and distribution of elements across a façade determine simplicity or complexity. Columns, beams,	• The proposed building is of a



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	floor slabs, balconies, window openings and fenestrations, doors, balustrades, roof forms and parapets are elements, which can be revealed or concealed and organised into simple or complex patterns.  Compose facades with an appropriate scale, rhythm and proportion, which respond to the building's use and the desired contextual character. This may include but are not limited to:  Defining a base, middle and top related to the overall proportion of the building.  Expressing key datum lines in the context using cornices, a change in materials or building set back  Expressing the internal layout of the building, for example, vertical bays or its structure, such as party wall-divisions.  Expressing the variation in floor-to-floor height, particularly at the lower levels.  Articulating building entries with awnings, porticos, recesses, blade walls and projecting bays.  Selecting balcony types which respond to the street context, building orientation and residential amenity.  Cantilevered, partially recessed, wholly recessed, or Juliet balconies will all create different facade profiles.  Detailing balustrades to reflect the type and location of the balcony and its relationship to the façade detail and materials.	modern design which has been reflected through material selection.  • Facades have been designed to perpetuate a rhythm and proportion which is compatible with the local context and modern development in the locality. Buildings have been well articulated, offering a degree of visual interest and providing delineation between levels.
	• Design facades to reflect the orientation of the site using elements such as sun shading, light shelves and bay windows as environmental controls, depending on the facade orientation.	<ul> <li>Refer to comments under Appendix C of this report.</li> </ul>
	<ul> <li>Express important corners by giving visual prominence to parts of the facade, for example, a change in building articulation, material or colour, roof expression or increased height.</li> <li>Co-ordinate and integrate building services, such as drainage pipes, with overall facade and balcony design.</li> </ul>	<ul> <li>The site is not a corner property.</li> <li>Capable of being complied with.</li> </ul>
	Co-ordinate security grills/screens, ventilation louvres and car park entry doors with the overall facade design	=
	<ul> <li>Roof Design</li> <li>Relate roof design to the desired built form. This may include:</li> </ul>	The proposal includes     a mix of flat and



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
•	<ul> <li>Articulating the roof, or breaking down its massing on large buildings, to minimise the apparent bulk or to relate to a context of smaller building forms.</li> <li>Using a similar roof pitch or material to adjacent buildings, particularly in existing special character areas or heritage conservation areas.</li> <li>Minimising the expression of roof forms gives prominence to a strong horizontal datum in the adjacent context, such as an existing parapet line.</li> <li>Using special roof features, which relate to the desired character of an area, to express important corners.</li> <li>Design the roof to relate to the size and scale of the building, the building elevations and three-dimensional building form. This includes the design of any parapet or terminating elements and the selection of roof materials.</li> <li>Design roofs to respond to the orientation of the site, for example, by using eaves and skillion roofs to respond to sun access.</li> </ul>	skillion roof forms to complement the modern form of the building.  The lift overrun will centred over the
•	Minimise the visual intrusiveness of service elements by integrating them into the design of the roof. These elements include lift over-runs, service plants, chimneys, vent stacks, telecommunication infrastructures, gutters, downpipes and signage.  Where habitable space is provided within the roof optimise residential amenity in the form of attics or penthouse dwellings.	building to minimise its visibility.
•	<ul> <li>Improve the presentation of the development to the street by:</li> <li>Locating entries so that they relate to the existing street and subdivision pattern, street tree planting and pedestrian access network.</li> <li>Designing the entry as a clearly identifiable element of the building in the street.</li> <li>Utilising multiple entries-main entry plus private ground floor dwelling entries-where it is desirable to activate the street edge or reinforce a rhythm of entries along a street.</li> <li>Provide as direct a physical and visual connection as possible between the street and the entry.</li> </ul>	<ul> <li>The development provides for multiple entries including private entrance to ground floor dwellings.</li> <li>Pedestrian paths are clearly defined through paved pathways and breaks</li> </ul>
•	Achieve clear lines of transition between the public street, the shared private, circulation spaces and the dwelling unit.	in the landscaping.  The proposed landscaping and building finishes will



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	development from the street by: <ul> <li>Locating them adjacent to the major entrance and integrated into a wall, where possible.</li> <li>Setting them at 90 degrees to the street, rather than along the front boundary.</li> </ul>	clearly articulate the different zones across the site.  The proposal includes two lifts servicing all levels.  Communal areas may be accessed via clear, direct paths and will be well lit.  Complies.  Complies.
	<ul> <li>Balconies</li> <li>Balconies may project up to 1m from the façade of a building.</li> </ul>	Balconies have been designed in accordance with ADG
	Balustrades must be compatible with the façade of the building.	requirements.  Glass balustrades with powder coated grey framing are proposed in keeping with the modern architecture of the building.



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
•	Ensure balconies are not so deep that they prevent sunlight entering the dwelling below.	Varied floor plates are provided with the exception of Levels 2 and 3.
•	Design balustrades to allow views and casual surveillance of the street.	Complies.
•	Balustrades on balconies at lower levels shall be of solid construction.	• Refer to comments above.
•	Balconies should where possible should be located above ground level to maximise privacy for occupants, particularly from the street.	Complies. Only two units provide for ground level courtyards.
•	Solid or semi solid louvres are permitted.	Complies.
•	Noise attenuation measures on balconies facing a Classified Road should be considered.	• N/A.
•	Balconies should be located on the street frontage, boundaries with views and onto a substantial communal open space.	Balconies are predominantly orientated to the front and rear of the site.
•	Primary balconies should be:	
	<ul> <li>Located adjacent to the main living areas, such as living room, dining room or kitchen to extend the dwelling living space;</li> </ul>	Complies.
	<ul> <li>Sufficiently large and well proportioned to be functional and promote indoor/outdoor living. A dining table and two chairs (smaller dwelling) and four chairs (larger dwelling) should fit on the majority of balconies in any development.</li> </ul>	Balconies are designed as per ADG requirements.
•	Consider secondary balconies, including Juliet balconies or operable walls with balustrades, for additional amenity and choice in larger dwellings, adjacent to bedrooms or for clothes drying, site balconies off laundries or bathrooms.	None proposed.
•	Design and detail balconies in response to the local climate and context thereby increasing the usefulness of balconies. This may be achieved by:	• Complies. Some south facing balconies are
	<ul> <li>Locating balconies facing predominantly north, east or west to provide solar access.</li> </ul>	proposed as a result
	<ul> <li>Utilising sunscreens, pergolas, shutters and operable walls to control sunlight and wind.</li> <li>Providing balconies with operable screens, Juliet balconies or operable walls/sliding doors with a balustrade in special locations where noise or high winds prohibit other solutions - along rail corridors,</li> </ul>	of sites orientation.



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	on busy roads or in tower buildings - choose cantilevered balconies, partially cantilevered balconies and/or recessed balconies in response to daylight, wind, acoustic privacy and visual privacy.  Provide primary balconies for all dwellings with a minimum depth of 2m.  Ensuring balconies are not so deep that they prevent sunlight entering the dwelling below.  Design balustrades to allow views and casual surveillance of the street while providing for safety and visual privacy. Design considerations may include:  Detailing balustrades using a proportion of solid to transparent materials to address site lines from the street, public domain or adjacent development. Full glass balustrades do not provide privacy for the balcony or the dwelling's interior, especially at night.  Detailing balustrades and providing screening from the public, for example, for a person seated looking at a view, clothes drying areas, bicycle storage or air conditioning units.  Operable screens increase the usefulness of balconies by providing weather protection, daylight control and	above.
	privacy screening.  Paylight Access  Plan the site so that new residential flat development is oriented to optimise northern aspect.  Ensure direct daylight access to communal open space between March and September and provide appropriate shading in summer.  Optimise the number of dwellings receiving daylight access to habitable rooms and principal windows:  Ensure daylight access to habitable rooms and private open space, particularly in winter - use skylights, clerestory windows and fanlights to supplement daylight access.  Promote two-storey and mezzanine, ground floor dwellings or locations where daylight is limited to facilitate daylight access to living rooms and private open spaces.  Ensure single aspect, single-storey dwellings have a northerly or easterly aspect:   Locate living areas to the north and service areas to the south and west of the development.  Avoid south facing dwellings.	Complies. Refer to Appendix C.
•	<ul> <li>Design for shading and glare control, particularly in summer:         <ul> <li>Using shading devices, such as eaves, awnings, colonnades, balconies, pergolas, external louvres and planting.</li> <li>Optimising the number of north-facing living spaces.</li> <li>Providing external horizontal shading to north-facing windows</li> <li>Providing vertical shading to east or west windows.</li> </ul> </li> <li>Consider higher ceilings and higher window heads to allow deeper sunlight penetration.</li> </ul>	The residential units have been assessed under BASIX and achieve the thermal targets.



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	<ul> <li>On west facing windows, vertical louvre panels or sliding screens protect from glare and low afternoon sun.</li> <li>On north facing windows, projecting horizontal louvres admit winter sun while shading summer sun.</li> <li>Using high performance glass but minimising external glare off windows.</li> <li>Avoid reflective films.</li> <li>Use a glass reflectance below 20%.</li> <li>Consider reduced tint glass.</li> <li>Limit the use of lightwells as a source of daylight by prohibiting their use as the primary source of daylight in habitable rooms. Where they are used:</li> <li>Relate lightwell dimensions to building separation, for example, if nonhabitable rooms face into a light well less than 12m high, the lightwell should measure 6 x 6 m.</li> <li>Conceal building services and provide appropriate detail and materials to visible walls.</li> <li>Ensure light wells are fully open to the sky.</li> <li>A combination of louvres provides shading for different times of the day.</li> </ul>	<ul> <li>This may be conditioned.</li> <li>This may be conditioned.</li> <li>Refer to BASIX certificate.</li> <li>None proposed.</li> </ul>
	<ul> <li>Internal design</li> <li>All staircases should be internal.</li> <li>Minimise the length of common walls between dwellings.</li> <li>Basement car parking shall be located beneath the building footprint.</li> <li>Where possible natural ventilation shall be provided to basement car parking.</li> <li>Design building layouts to minimise direct overlooking of rooms and private open spaces adjacent to dwellings.</li> </ul>	<ul> <li>Complies.</li> <li>Where possible, where common walls are proposed, they have been designed adjacent to like uses to minimise noise disturbance.</li> <li>N/A.</li> <li>N/A.</li> <li>Windows and balconies have been primarily designed to address the street frontage or rear setback. Where windows are proposed to the side</li> </ul>



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
		boundaries, they have been offset.
•	<ul> <li>Minimise the location of noise sensitive rooms such as bedrooms adjoining noisier rooms such as bathrooms or kitchens or common corridors and stairwells.</li> </ul>	Where possible, common walls have been designed to adjoin like uses.
	<ul> <li>Where a site has frontage to a Classified Road, locate bedrooms away from the front of the site.</li> <li>Where common walls are provided they must be carried to the underside of the roof and be constructed in accordance with Part EF of the Publishing Code of Australia</li> </ul>	
	<ul> <li>accordance with Part F5 of the Building Code of Australia.</li> <li>Locate active use rooms or habitable rooms with windows overlooking communal/public areas (e.g. playgrounds, gardens).</li> </ul>	complied with.  The balconies of upper level units will overlook the entry points to the building and north-western communal open space.
	<ul> <li>Ground Floor Dwellings</li> <li>Design front gardens or terraces, which contribute to the spatial and visual structure of the street while maintaining adequate privacy for dwelling occupants. This can be achieved by animating the street edge, for example, by promoting individual entries for ground floor dwellings.</li> </ul>	The front setback will be landscaped. Private entrances are proposed to ground floor dwellings.
	<ul> <li>Create more pedestrian activity along the street and articulate the street edge by:         <ul> <li>Balancing privacy requirements and pedestrian accessibility.</li> <li>Providing appropriate fencing, lighting and/ or landscaping to meet privacy and safety requirements of occupants while contributing to a pleasant streetscape.</li> <li>Utilising a change in level from the street to the private garden or terrace to minimise site lines from the streets into the dwelling for some dwellings.</li> <li>Increasing street surveillance with doors and windows facing onto the street.</li> </ul> </li> </ul>	The proposal will include appropriate fencing, lighting and landscaping to address the privacy and safety requirements of occupants. Street surveillance has been maximised with



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	grade private landscape areas. They also provide opportunities for the dwelling building and its landscape to respond to the streetscape and the public domain at the pedestrian scale. Ground floor dwellings also support housing choice by providing accessibility to the elderly and/or disabled and support families with small children.  Optimise the number of ground floor dwellings with separate entries and consider requiring an appropriate	
	<ul> <li>percentage of accessible units. This relates to the desired streetscape and topography of the site.</li> <li>Provide ground floor dwellings with access to private open space, preferably as a courtyard.</li> <li>Security</li> </ul>	dwellings are provided with a separate entry.  • Complies.
	Entrances to buildings should be orientated towards the front of the site and facing the street.	<ul> <li>Pedestrian paths lead from the street frontage to individual ground level units and to the centre of the building where the residential lobby is sited.</li> </ul>
	<ul> <li>The main entrance to dwellings or other premises should not be from rear lanes and should be designed with clear directions and signage.</li> <li>Blank walls in general that address street frontages or public open space are discouraged. Where they are unavoidable building elements or landscaping must be used to break up large expanses of walls. In some</li> </ul>	<ul><li>N/A.</li><li>None proposed.</li></ul>
	<ul> <li>cases an anti-graffiti coating will need to applied to the wall to a height of 2 metres.</li> <li>Minimise the number of entry points to buildings.</li> </ul>	Two access points are proposed to the central lobby. An



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	<ul> <li>Reinforce the development boundary to strengthen the distinction between public and private space by</li> <li>Employing a level change at the site and/or building threshold (subject to accessibility requirements)</li> <li>Signage.</li> <li>Entry awnings.</li> <li>Fences, walls and gates.</li> <li>Change of material in paving between the street and the development.</li> </ul>	<ul><li>intercom permits visitor access.</li><li>Appropriate fencing/gates will be provided.</li></ul>
	<ul> <li>Optimise the visibility, functionality and safety of building entrances by:         <ul> <li>Orienting entrances towards the public street.</li> <li>Providing clear lines of sight between entrances, foyers and the street.</li> <li>Providing direct entry to ground level dwellings from the street rather than through a common foyer.</li> <li>Direct and well-lit access between car parks and dwellings, between car parks and lift lobbies and to all unit entrances.</li> </ul> </li> </ul>	• The development includes clear lines of sight between entrances and the street. As stated direct entry is proposed to ground level dwellings rather than through a common foyer. The car park, lift lobbies and common areas will be well lit and designed as clear, direct paths.
	<ul> <li>Improve the opportunities for casual surveillance by:         <ul> <li>Orienting living areas with views over public or communal open spaces, where possible.</li> <li>Using bay windows and balconies, which protrude beyond the main façade and enable a wider angle of vision to the street.</li> <li>Using corner windows, which provide oblique views of the street.</li> <li>Providing casual views of common internal areas, such as lobbies and foyers, hallways, recreation areas and car parks.</li> </ul> </li> </ul>	<ul> <li>The living areas of upper level units are provided with views over the communal open space. The proposed south facing balconies will enable sightlines to the street.</li> </ul>



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	<ul> <li>Minimise opportunities for concealment by:         <ul> <li>Avoiding blind or dark alcoves near lifts and stairwells, at the entrance and within indoor car parks, along corridors and walkways.</li> <li>Providing well-lit routes throughout the development.</li> <li>Providing appropriate levels of illumination for all common areas.</li> <li>Providing graded illumination to car parks and illuminating entrances higher than the minimum acceptable standard.</li> </ul> </li> <li>Control access to the development by:         <ul> <li>Making dwellings inaccessible from the balconies, roofs and windows of neighbouring buildings.</li> <li>Separating the residential component of a development's car parking from any other building use and</li> </ul> </li> </ul>	The development does not include any blind or dark alcoves near lifts and stairwells, at the entrance and within indoor car parks, along corridors and walkways. Well-lit routes will be provided throughout the development.  Intercom access limits visitors to the site.
	controlling car park access from public and common areas.  Providing direct access from car parks to dwelling lobbies for residents.  Natural Ventilation  Utilise the building layout and section to increase the potential for natural ventilation. Design solutions may include:  Facilitating cross ventilation by designing narrow building depths and providing dual aspect dwellings, for example, cross through dwellings and corner dwellings.  Facilitating convective currents by designing units, which draw cool air in at lower levels and allow warm air to escape at higher levels, for example, maisonette dwellings and two-storey dwellings.  Select doors and windows (that open) to maximise natural ventilation opportunities established by the dwelling layout.  Provide narrow building depths to support cross ventilation.  Avoid single-aspect dwellings with a southerly aspect.  Design the internal dwelling layout to promote natural ventilation by:  Minimising interruptions in air flow through a dwelling.	



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	<ul> <li>Grouping rooms with similar usage together, for example, keeping living spaces together and sleeping spaces together. This allows the dwelling to be compartmentalised for efficient summer cooling or winter heating.</li> <li>Select doors and operable windows to maximise natural ventilation opportunities established by the dwelling layout.</li> </ul>	
	<ul> <li>Building Layout</li> <li>The layout of dwellings within a residential flat building should minimise the extent of common walls.</li> </ul>	<ul> <li>Common walls have been minimised as much as possible.</li> </ul>
Landscaping And Fencing	<ul> <li>Storage Areas</li> <li>A secure storage space is to be provided for each dwelling with a minimum volume 8 m3 (minimum dimension 1m2). This must be set aside exclusively for storage as part of the basement or garage.</li> <li>Storage areas must be adequately lit and secure. Particular attention must be given to security of basement and garage storage areas.</li> <li>The setback areas are to be utilised for canopy tree planting. The landscape design for all development must include canopy trees that will achieve a minimum 8 m height at maturity within front and rear setback areas.</li> <li>Landscape planting should be principally comprised of native species to maintain the character of Liverpool and provide an integrated streetscape appearance. Species selected in environmentally sensitive areas should be indigenous to the locality. However, Council will consider the use of deciduous trees.</li> <li>The landscaping shall contain an appropriate mix of canopy trees, shrubs and groundcovers. Avoid medium height shrubs (600 – 1800mm) especially along paths and close to windows and doors.</li> <li>Landscaping in the vicinity of a driveway entrance should not obstruct visibility for the safe ingress and egress of vehicles and pedestrians.</li> </ul>	<ul> <li>Refer to Appendix C of this report.</li> <li>Complies. Refer to Landscape Plan.</li> </ul>
	<ul> <li>Tree and shrub planting alongside and rear boundaries should assist in providing effective screening to adjoining properties.</li> <li>Landscaping on any podium level or planter box shall be appropriately designed, and irrigated. Landscaping on podium levels and planter boxes should be accessible from habitable areas of dwellings or elsewhere as appropriate for gardener access in other forms of development.</li> <li>The development must be designed around significant vegetation on the site.</li> </ul>	



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	<ul> <li>It is important to retain significant vegetation to maintain an existing streetscape and enhance the visual appearance of new dwellings.</li> <li>Trees adjacent to private open space areas and living rooms should provide summer shade and allow winter</li> </ul>	
	<ul> <li>sun entry.</li> <li>Where landscaping is used to control overlooking, species selected are to be a kind able to achieve privacy within 3 years.</li> </ul>	
	All species of trees and shrubs should be drought resistant.	
	<ul> <li>Advanced tree species are to be used for key elements with the landscape design concept.</li> <li>Any tree with a mature height over 8m should be planted a minimum distance of 3m from the building or utility services.</li> </ul>	
	<ul> <li>Contribute to streetscape character and the amenity of the public domain by:         <ul> <li>Relating landscape design to the desired proportions and character of the streetscape.</li> <li>Using planting and landscape elements appropriate to the scale of the development.</li> <li>Mediating between and visually softening the bulk of large development for the person on the street.</li> </ul> </li> </ul>	
	<ul> <li>Improve the energy efficiency and solar efficiency of dwellings and the microclimate of private open spaces.</li> <li>Planting design solutions include:         <ul> <li>Trees for shading low-angle sun on the eastern and western sides of a dwelling.</li> <li>Trees that do not cast a shadow over solar collectors at any time of the year.</li> <li>Deciduous trees for shading of windows and open space areas in summer.</li> </ul> </li> </ul>	
	<ul> <li>Design landscape which contributes to the site's particular and positive characteristics, for example by:         <ul> <li>Enhancing habitat and ecology.</li> <li>Retaining and incorporating trees, shrubs and ground covers endemic to the area, where appropriate.</li> <li>Retaining and incorporating changes of level, visual markers, views and any significant site elements.</li> </ul> </li> </ul>	
	Planting on Structures	
	Design for optimum conditions for plant growth by:	
	Providing soil depth, soil volume and soil area appropriate to the size of the plants to be established.	
	Providing appropriate soil conditions and irrigation methods.	
	Providing appropriate drainage.	
	<ul> <li>Design planters to support the appropriate soil depth and plant selection by:</li> <li>Ensuring planter proportions accommodate the largest volume of soil possible. Minimum soil depths will vary depending on the size of the plant.</li> </ul>	



CHAPTER/	DEVELOPMENT STANDARD/CONTROL	COMPLY
PLANNING GUIDELINE		
	However, soil depths greater than 1.5 m are unlikely to have any benefits for tree growth. Providing square	
	or rectangular planting areas rather than long narrow linear areas.	
	Refer to DCP for minimum standards for plant sizes.	
	Fencing - Primary frontage	
	The maximum height of a front fence is 1.2m.	
	• The front fence may be built to a maximum height of 1.5m if the fence is setback 1m from the front boundary with suitable landscaping in front of the proposed fence.	
	Fences should not prevent surveillance by the dwelling's occupants of the street or communal areas.	
	The front fence must be 30% transparent.	
	• Front fences shall be constructed in masonry, timber, metal pickets and/or vegetation and must be compatible with the proposed design of the dwelling.	
	<ul> <li>The front fence may be built to a maximum of 1.8m only if</li> </ul>	
	<ul> <li>The primary frontage is situated on a Classified Road.</li> </ul>	
	• The fence is articulated by 1m for 50% of its length and have landscaping in front of the articulated portion.	
	• The fence does not impede safe sight lines from the street and from vehicles entering and exiting the site.	
	Fencing - Secondary frontage	
	• Fences and walls must be a maximum of 1.8m in height, and constructed of masonry, timber and/or landscaped.	
	• For side walls or fences along the secondary frontage, a maximum height of 1.2m is required for the first 9m measured from the front boundary, the remaining fence / wall may then be raised to a maximum of 1.8m. The secondary setback is the longest length boundary.	
	Boundary Fences	
	The maximum height of side boundary fencing within the setback to the street is 1.2m.	
	Boundary fences shall be lapped and capped timber or metal sheeting.	
Car Parking And	Car Parking	• Refer to SEPP (ARH)
Access	Visitor car parking shall be clearly identified and may not be stacked car parking.	2009 and the
	Visitor car parking shall be located between any roller shutter door and the front boundary.	submitted Traffic
	Pedestrian and driveways shall be separated.	Report.
	Driveways shall be designed to accommodate removalist vehicles.	



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	NTROL COMPLY		
	• Where possible vehicular entrances to the basement car parking shall be from the side of the building. As an alternative a curved driveway to an entrance at the front of the building may be considered if the entrance is not readily visible from the street.	There is no basement parking proposed. The proposal includes		
	<ul> <li>Give preference to underground parking, whenever possible by:         <ul> <li>Retaining and optimising the consolidated areas of deep soil zones.</li> <li>Facilitating natural ventilation to basement and sub-basement car parking areas, where possible.</li> <li>Integrating ventilation grills or screening devices of car park openings into the facade design and landscape design.</li> <li>Providing safe and secure access for building users, including direct access to residential dwellings, where possible.</li> <li>Providing a logical and efficient structural grid. There may be a larger floor area for basement car parking than for upper floors above ground. Upper floors, particularly in slender residential buildings, do not have to replicate basement car parking widths.</li> </ul> </li> <li>Where above ground enclosed parking cannot be avoided, ensure the design of the development mitigates any negative impact on streetscape and street amenity by:         <ul> <li>Avoid exposed parking on the street frontage.</li> <li>Hiding car parking behind the building facade. Where wall openings (windows, fenestrations) occur, ensure they are integrated into the overall facade scale, proportions and detail.</li> </ul> </li> </ul>	at grade car parking that is sited towards the rear of the site.		
	Pedestrian Access	C I		
	<ul> <li>Utilise the site and it's planning to optimise accessibility to the development.</li> <li>Provide high quality accessible routes to public and semi-public areas of the building and the site, including major entries, lobbies, communal open space, site facilities, parking areas, public streets and internal roads.</li> </ul>	<ul><li>Complies.</li><li>Complies.</li></ul>		
	<ul> <li>Promote equity by:         <ul> <li>Ensuring the main building entrance is accessible for all from the street and from car parking areas.</li> <li>Integrating ramps into the overall building and landscape design.</li> <li>Design ground floor dwellings to be accessible from the street, where applicable, and to their associated private open space.</li> </ul> </li> </ul>	Complies. Refer to Access Report.		
	<ul> <li>Maximise the number of accessible and adaptable dwellings in a building by:</li> <li>Providing more than one accessible entrance where a development contains clusters of buildings.</li> <li>Separating and clearly distinguish between pedestrian accessways and vehicle accessways.</li> <li>Locating vehicle entries away from main pedestrian entries and on secondary.</li> </ul>			



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL			ANNING			PLY	.Y
Amenity And Environmental Impact	Overshadowing  ■ Adjoining properties must receive a minimum of three hours of sunlight between 9am and 5pm on 21 June to at least:  □ One living, rumpus room or the like; and  □ 50% of the private open space  Privacy	•	65/ADG.	co SEPI				
	<ul> <li>Building siting, window location, balconies and fencing should take account of the importance of the privacy of onsite and adjoining buildings and outdoor spaces.</li> <li>Windows to habitable rooms should be located so they do not overlook such windows in adjoining properties, other dwellings within the development or areas of private open space.</li> <li>Landscaping should be used where possible to increase visual privacy between dwellings and adjoining properties.</li> <li>Where possible the ground floor dwellings should be located above ground level to ensure privacy for occupants of the dwellings.</li> <li>Design building layouts to minimise direct overlooking of rooms and private open spaces adjacent to dwellings by: <ul> <li>Balconies to screen other balconies and any ground level private open space.</li> <li>Separating communal open space, common areas and access routes through the development from the windows of rooms, particularly habitable rooms.</li> <li>Changing the level between ground floor dwellings with their associated private open space, and the public domain or communal open space.</li> </ul> </li> <li>Use detailed site and building design elements to increase privacy without compromising access to light and air by: <ul> <li>Offsetting windows of dwellings in new development and adjacent development windows.</li> <li>Recessed balconies and/or vertical fins between adjacent balconies.</li> <li>Solid or semi-solid balustrades to balconies - louvres or screen panels to windows and/or balconies.</li> <li>Fencing.</li> <li>Vegetation as a screen between spaces.</li> <li>Incorporating planter boxes into walls or balustrades to increase the visual separation between areas.</li> <li>Utilising pergolas or shading devises to limit overlooking of lower dwellings or private open space.</li> </ul> </li> </ul>	•	Refer 1665/ADG.	co SEPI	P			



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	<ul> <li>Acoustic Impact</li> <li>Noise attenuation measures should be incorporated into building design to ensure acoustic privacy between on-site and adjoining buildings.</li> <li>Buildings having frontage to a Classified Road or a railway and impacted upon by rail or traffic related noises must incorporate the appropriate noise and vibration mitigation measures into the design in terms of the site layout, building materials and design, orientation of the buildings and location of sleeping and recreation areas.</li> <li>The proposed buildings must comply with the Environment Protection Authority criteria and the current relevant Australian Standards for noise and vibration and quality assurance.</li> <li>Arrange dwellings within a development to minimise noise transition between dwellings by:         <ul> <li>Locating busy, noisy areas next to each other and quieter areas next to other quiet areas, for example, living rooms with living rooms, bedrooms with bedrooms</li> <li>Using storage or circulation zones within an dwelling to buffer noise from adjacent dwellings, mechanical services or corridors and lobby areas</li> <li>Minimising the amount of common walls with other dwellings.</li> <li>Design the internal dwelling layout to separate noisier spaces from quieter spaces by:</li></ul></li></ul>	Complies. Refer to Acoustic Report
Site Services	<ul> <li>Letterboxes</li> <li>Letterboxes shall to be provided for each dwelling on site, easily accessible from the street, able to be securely locked and provided in accordance with Australia Post's requirements.</li> <li>Freestanding letterbox structures should be designed and constructed of materials that relate to the main building.</li> <li>Residential numbering should be attached to the letterbox so that it is clearly visible from the street frontage. Numbers should be 75mm in height, reflective and in contrast to the backing material.</li> <li>Waste Management</li> <li>Waste disposal facilities shall be provided for development. These shall be located adjacent to the driveway entrance to the site.</li> </ul>	<ul> <li>Complies.</li> <li>This may be conditioned.</li> <li>Bin room is located, adjacent to the carpark.</li> </ul>
	<ul> <li>Any structure involving waste disposal facilities shall be located as follows:</li> <li>Setback 1 m from the front boundary to the street.</li> </ul>	• Complies.



CHAPTER/ PLANNING GUIDELINE	DEVELOPMENT STANDARD/CONTROL	COMPLY
	<ul> <li>Landscaped between the structure and the front boundary and adjoining areas to minimise the impact on the streetscape.</li> <li>Not be located adjacent to an adjoining residential property.</li> <li>Details of the design of waste disposal facilities are shown in Part 1 of the DCP.</li> </ul>	<ul> <li>Complies. Refer to Landscape Plan</li> <li>Complies</li> </ul>
	<ul> <li>Frontage works and damage to Council infrastructure</li> <li>Where a footpath, road shoulder or new or enlarged access driveway is required to be provided this shall be provided at no cost to Council.</li> <li>Council must be notified of any works that may threaten Council assets. Council must give approval for any works involving Council infrastructure.</li> <li>Where there are no existing street trees in front of the site and contributions have not been collected for street tree planting it may be a condition of consent that street trees be provided in the footpath area immediately in front of the site.</li> </ul>	conditioned.  This may be conditioned.
	<ul> <li>Electricity Sub Station</li> <li>In some cases it may be necessary to provide an electricity substation at the front of the development adjacent to the street frontage. This will involve dedication of the area as a public road to allow access by the electricity provider. The front boundary treatment used elsewhere on the street frontage.</li> </ul>	<ul> <li>A substation is proposed in the south-eastern corner of the site.</li> </ul>

Appendix F Clause 4.6 Variation to Clause 4.3 of the Liverpool Local Environmental Plan 2008 – Height of Buildings

# CLAUSE 4.6 VARIATION TO CLAUSE 4.3 (HEIGHT OF BUILDINGS) OF THE LIVERPOOL LOCAL ENVIRONMENTAL PLAN 2008

#### 1. INTRODUCTION

This submission seeks a variation to Clause 4.3 of the Liverpool Local Environmental Plan 2008 (LLEP08), which relates to building height.

This submission has been prepared with regards to a development application over Nos. 87 – 91 Nuwarra Road, Moorebank for the demolition of all existing structures and the development of a six (6) storey residential flat building comprising of 9 x 1-bedroom units and 33 x 2-bedroom units to be wholly used for the purposes of affordable rental housing.

As detailed in this written request for a variation to building height being a development standard under LLEP08, the proposed development meets the requirements prescribed under Clause 4.6 of LLEP08.

This submission is made under clause 4.6 of the LLEP08 – Exceptions to development standards. Clause 4.6 states the following:

### "4.6 Exceptions to development standards

- (1) The objectives of this clause are as follows:
  - (a) to provide an appropriate degree of flexibility in applying certain development standards to particular development,
  - (b) to achieve better outcomes for and from development by allowing flexibility in particular circumstances.
- (2) Development consent may, subject to this clause, be granted for a development even though the development would contravene a development standard imposed by this or any other environmental planning instrument. However, this clause does not apply to a development standard that is expressly excluded from the operation of this clause.
- (3) Development consent must not be granted for development that contravenes a development standard unless the consent authority has considered a written request from the applicant that seeks to justify the contravention of the development standard by demonstrating:
  - (a) that compliance with the development standard is unreasonable or unnecessary in the circumstances of the case, and
  - (b) that there are sufficient environmental planning grounds to justify contravening the development standard.
- (4) Development consent must not be granted for development that contravenes a development standard unless:
  - (a) the consent authority is satisfied that:
    - (i) the applicant's written request has adequately addressed the matters required to be demonstrated by subclause (3), and
    - (ii) the proposed development will be in the public interest because it is consistent with the objectives of the particular standard and the objectives for development within the zone in which the development is proposed to be carried out, and

- (b) the concurrence of the Director-General has been obtained.
- (5) In deciding whether to grant concurrence, the Director-General must consider:
  - (a) whether contravention of the development standard raises any matter of significance for State or regional environmental planning, and
  - (b) the public benefit of maintaining the development standard, and
  - (c) any other matters required to be taken into consideration by the Director-General before granting concurrence.
- (6) Development consent must not be granted under this clause for a subdivision of land in Zone RU1 Primary Production, Zone RU2 Rural Landscape, Zone RU3 Forestry, Zone RU4 Primary Production Small Lots, Zone RU6 Transition, Zone R5 Large Lot Residential, Zone E2 Environmental Conservation, Zone E3 Environmental Management or Zone E4 Environmental Living if:
  - (a) the subdivision will result in 2 or more lots of less than the minimum area specified for such lots by a development standard, or
  - (b) the subdivision will result in at least one lot that is less than 90% of the minimum area specified for such a lot by a development standard.

**Note.** When this Plan was made it did not include any of these Zones.

- (7) After determining a development application made pursuant to this clause, the consent authority must keep a record of its assessment of the factors required to be addressed in the applicant's written request referred to in subclause (3).
- (8) This clause does not allow development consent to be granted for development that would contravene any of the following:
  - (a) a development standard for complying development,
  - (b) a development standard that arises, under the regulations under the Act, in connection with a commitment set out in a BASIX certificate for a building to which State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004 applies or for the land on which such a building is situated,
  - (c) clause 5.4
  - (ca) clause 6.4, 6.5, 6.6, 7.22, 7.24, 7.25, 7.26, 7.26A, 7.27, 7.28, 7.29 or 7.30."

The use of Clause 4.6 to enable an exception to this development control is appropriate in this instance and the consent authority may be satisfied that all requirements of Clause 4.6 have been satisfied in terms of the merits of the proposed development and the content in this Clause 4.6 variation request report.

Clause 4.6 Exceptions to development standards establishes the framework for varying development standards applying under a local environmental plan. Subclause 4.6(3)(a) and 4.6(3)(b) requires that a consent authority must not grant consent to a development that contravenes a development standard unless a written request has been received from the applicant that seeks to justify the contravention of the standard by demonstrating that:

4.6(3)(a) that compliance with the development standard is unreasonable or unnecessary in the circumstances of the case, and

4.6(3)(b) that there is sufficient environmental planning grounds to justify contravening the development standard.

In addition, 4.6(4)(a)(i) and (ii) requires that development consent must not be granted to a development that contravenes a development standard unless the:

- (a) the consent authority is satisfied that:
  - (i) the applicant's written request has adequately addressed the matters required to be demonstrated by subclause (3), and
  - (ii) the proposed development will be in the public interest because it is consistent with the objectives of the particular standard and the objectives for development within the zone in which the development is proposed to be carried out, and

The Environmental Planning Instrument to which these variations relate to is the LLEP 08.

The development standard to which this variation relates to is Clause 4.3 – Height of Buildings, which reads as follows:

- "(1) The objectives of this clause are as follows:
  - (a) to establish the maximum height limit in which buildings can be designed and floor space can be achieved,
  - (b) to permit building heights that encourage high quality urban form,
  - (c) to ensure buildings and public areas continue to receive satisfactory exposure to the sky and sunlight,
  - (d) to nominate heights that will provide an appropriate transition in built form and land use intensity.
- (2) The height of a building on any land is not to exceed the maximum height shown for the land on the <u>Height of Buildings Map</u>.

**Note.** Clauses 5.6, 7.2 and 7.5 provide for circumstances under which a building in the Liverpool city centre may exceed the maximum height shown for the land on the <u>Height of Buildings Map</u>".

As demonstrated in Figure 1 below, the subject site is limited to a maximum building height of 18m.

Figure 1 – Height of Buildings Map



Source: NSW Legislation, LLEP 08 map 014.

The proposed residential flat building will exceed the standard with a proposed building height of 19.981m as measured from the existing ground level to the top of the lift overrun. The variation is equivalent to 1.981m or 11%. The breach of height this also relates to a minor part of the floor space area, however the breach is of a lesser extent. The maximum height of the proposal to the building parapet measures 18.781m which is an equivalent to 0.781m or 4.3%.

A written justification is therefore required for the proposed variation to the maximum building height development standard, in accordance with Clause 4.6 of the LLEP 08.

#### 2. EXTENT OF NON-COMPLIANCE

As noted above Clause 4.3 of the LLEP 08 states that the maximum building height for the site is 18m.

The current proposal seeks a maximum building height of 19.981m to the lift overrun. The proposal therefore exceeds the standard by 1.981m or 11%. The maximum height sought to the building parapet equals 18.781m, exceeding the standard by 0.781m or 4.3%.

It is our submission that the breach to the building height control will not impact on the amenity of the development or adjoining properties, nor will the variation compromise the architecture of the building or the bulk and scale of the development.

A degree of flexibility is considered reasonable in this instance.

# 3. IS COMPLIANCE WITH THE DEVELOPMENT STANDARD UNREASONABLE OR UNNECESSARY IN THE CIRCUMSTANCES OF THE CASE?

The proposed variation from the development standard is assessed against the required tests in Clause 4.6. In addition, in addressing the requirements of Clause 4.6(3), the accepted five possible approaches for determining whether compliances are unnecessary or unreasonable established by the NSW Land and Environment Court in *Wehbe vs Pittwater Council (2007) LEC 827 are considered.* 

In the matter of Four2Five, the Commissioner stated within the judgement the following, in reference to a variation:

"...the case law developed in relation to the application of SEPP 1 may be of assistance in applying Clause 4.6. While Wehbe concerned an objection under SEPP 1, in my view the analysis is equally applicable to a variation under Clause 4.6 where Clause 4.6 (3)(a) uses the same language as Clause 6 of SEPP 1."

In the decision of *Wehbe vs Pittwater Council (2007) LEC 827*, Preston CJ summarised the five (5) different ways in which an objection under SEPP 1 has been well founded and that approval of the objection may be consistent with the aims of the policy. The five possible ways are as set out below:

First	The most commonly invoked way is to establish that compliance with the			
	development standards is unreasonable or unnecessary because the			
	objectives of the development standard are achieved notwithstanding			
	non-compliance with the standard.			
	·			

	The rationale is that development standards are not ends in themselves but means of achieving ends. The ends are environmental or planning objectives. If the proposed development proffers an alternative means of achieving the objective, strict compliance with the standard would be unnecessary and unreasonable. (applicable)	
Second	A second way is to establish that the underlying objective or purpose is not relevant to the development with the consequence that compliance is unnecessary. (applicable)	
Third	A third way is to establish that the underlying objective or purpose would be defeated or thwarted if compliance was required with the consequence that compliance is unreasonable. (not applicable)	
Fourth	A fourth way is to establish that the development standard has been virtually abandoned or destroyed by the Council's own actions in granting consents departing from the standard and hence compliance with the standard is unnecessary and unreasonable. (not applicable)	
Fifth	A fifth way is to establish that "the zoning of particular land" was "unreasonable or inappropriate" so that "a development standard appropriate for that zoning was also unreasonable or unnecessary as it applied to that land" and that "compliance with the standard in that case would also be unreasonable or unnecessary. (not applicable)	

In respect of the building height standard, the first method is invoked.

The objectives supporting the maximum building height control identified in Clause 4.3 are discussed below. Consistency with the objectives and the absence of any environmental impacts, would demonstrate that strict compliance with the standards would be both unreasonable and unnecessary in this instance.

The discussion provided below demonstrates how the proposal is consistent with the objectives of Clause 4.3.

- "(1) The objectives of this clause are as follows:
  - (a) to establish the maximum height limit in which buildings can be designed and floor space can be achieved,
  - (b) to permit building heights that encourage high quality urban form,
  - (c) to ensure buildings and public areas continue to receive satisfactory exposure to the sky and sunlight,
  - (d) to nominate heights that will provide an appropriate transition in built form and land use intensity".

With respect to objective (a), the subject site has a maximum building height limit of 18 metres and floor space ratio control of 1.2:1 under LLEP08. As the current proposal is made under State Environmental Planning Policy (Affordable Rental Housing) 2009, a bonus 0.5:1 is afforded, allowing a maximum floor space ratio of 1.7:1 to be achieved on the site.

The proposal is notably compliant with the maximum floor space ratio control, however seeks a variation to the maximum height control as described in this letter. In a decision of the Land Environment Court, *Abdul-Rahman v Ashfield Council* [2015] *NSWLEC 1122*, Commissioner O'Neil stated,

"I accept the argument put by the applicant that the consequence of the SEPP ARH incentives, which seek to facilitate the effective delivery of new affordable rental housing by way of expanded zoning permissibility, floor space ratio bonuses and non-discretionary development

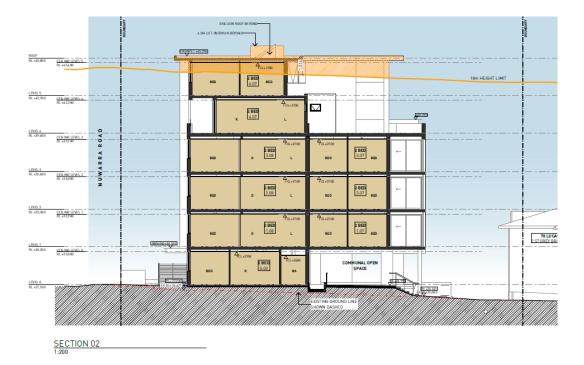
standards, is to expand the permissible building envelope for a site in some way, although pursuant to cl 16A of SEPP ARH, any increase of the building envelope has to be compatible with the character of the local area. In this matter, the proposal complies with the FSR development standard in LEP 2013 and does not seek the benefit of the FSR incentive of SEPP ARH at cl 13, however the principle of an expanded building envelope in recognition of the contribution of affordable rental housing made by the proposal is still relevant".

In keeping with the above, we submit that the proposed variation is attributable to the increased density available on the site. In view of the context of the site, it was not considered feasible to further encroach upon the setbacks of the adjoining developments and consequently the proposed height has exceeded the maximum standard.

We note, that the greatest variation to the height control is achieved only over the lift overrun with only a minor variation equalling a maximum of 0.781m sought in respect to Level 5 itself. This is demonstrated in the images below.

| Section 01

Figure 2 – Section 1 (Top), Section 2 (Middle), Section 3 (Bottom)





Source: Smith & Tzannes

The tallest component of the building contributing to the breach in height is therefore limited to a relatively small portion of the built form comprising the lift overrun. The lift overrun has been centred over the site to reduce its visual prominence. Where the greatest variation is sought in relation to habitable floor area at level 5, we note that the largest breach is contained to the side of the building where the fall of the land is at its greatest.

The floor levels which have been proposed as per this application have largely been determined by the stormwater civil design on the subject site for the proposal. The current floor level of RL27.10 has been set to allow for an adequate freeboard and for an emergency flow path around the building. Consequently, this has resulted in the building being raised by an additional 100mm, to accommodate the appropriate floor level of RL27.10 which has been set. Raising the building to this extent has allowed for such an emergency flow path to be

provided, allowing water to drain from the front of the site towards to its rear, should drainage infrastructure become completely blocked, as the site falls away from the road.

The proposed development has been carefully designed to project a highly articulated appearance to each of the facades. The depth of the units has been limited allowing for breaks in each elevation and steps in the overall design. The use of balconies to the front and rear of the building provides for visual relief from solid external walls and aids to break up the building mass. The proposal therefore satisfies objective (b).

The proposed development has also been designed to maximise solar access with 69% of the proposed units across the entire development achieving a minimum of 2 hours solar access. It was noted by the Design Excellence Panel that the proposed reduction of 1% is considered acceptable given the development will be used solely as affordable housing. A total of 64.3% of units across the development will be naturally cross ventilated in keeping with objective (c).

In addition, the proposed development has been well articulated to the street frontage and proposes varying setbacks to both side boundaries to ensure that the actual and perceived bulk of the building is minimised not only from the street but also as viewed from the adjoining properties.

### 4. ARE THERE SUFFICIENT ENVIRONMENTAL PLANNING GROUNDS?

The assessment above demonstrates that the resultant environmental impacts of the proposal will be satisfactory.

The proposal addresses the site constraints, streetscape and relevant objectives of both the standards and the zone. The proposal will not result in any unreasonable amenity or environmental impacts. As demonstrated within the accompanying Statement of Environmental Effects the development has demonstrated compliance in terms of shadowing, privacy and visual amenity. The development positively responds to the desired future character of the area.

We respectfully submit that the proposal will result in a better planning outcome as unlike SEPP (Affordable Rental Housing) 2009, which requires that up to 50% of the dwellings be offered as affordable housing for a period of 10 years, all of the proposed 42 units will be nominated as affordable housing to be managed by our client, St George Community Housing.

The proposal therefore provides a social benefit to the community providing for new, affordable accommodation in an area well serviced by public transport services and local infrastructure. Consequently, addressing housing affordability issues within the Sydney region.

Regular bus services are available along Nuwarra Road, Newbridge Road and Maddecks Avenue. The site is well located to local amenities and infrastructure with Moorebank Shopping centre Nuwarra Public School and Moorebank Library located to the west and south of the site, respectively.

The development is also notably compliant with the maximum 1.7:1 FSR prescribed by SEPP (Affordable Rental Housing) 2009.

In this case, strict compliance with the height of buildings development standard of the LLEP 08 is unnecessary and unreasonable.

#### 5. IS THE VARIATION IN THE PUBLIC INTEREST?

Clause 4.6 states that development consent must not be granted for development that contravenes a development standard unless the proposed development will be in the public interest because it is consistent with the objectives of the particular standard and the objectives for development within the zone in which the development is to be carried out.

It is considered that this submission provides sufficient environmental planning grounds to justify contravening the development standard under Part 4.

The development as proposed will be in the public interest as it is consistent with the objectives of Clause 4.3.

The building contextually has regard to its surrounding properties and provides sufficient open space and landscaping for the amenity of future residents.

Importantly, all 42 of the proposed units will be nominated as affordable housing to be managed by our client St George Community Housing. This will assist is addressing the growing issue of housing affordability in the Sydney region.

Furthermore, it is important to also consider the objectives of the R4 High Density Residential zone in relation to the development, which are as follows:

### Zone R4 High Density Residential

### Objectives of zone

- To provide for the housing needs of the community within a high density residential environment.
- To provide a variety of housing types within a high density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To provide for a high concentration of housing with good access to transport, services and facilities.
- To minimise the fragmentation of land that would prevent the achievement of high density residential development.

In response to the above the following is provided:

The proposed residential flat building will replace the existing three dwellings on the site with 42 proposed units to provide for the housing needs of the community within a high-density environment.

The proposal comprises of a mix of 1 and 2-bedroom units, including adaptable designs ensuring a variety of housing types are available.

No other land uses are proposed.

The site is readily accessible by public transport with proximate bus stops located along Nuwarra Road, Newbridge Road and Maddecks Avenue.

The proposal will not result in the fragmentation of land.

It is considered that this submission provides sufficient environmental planning grounds to justify contravening the development standards, noting the development will be in the public interest.

#### 6. PUBLIC BENEFIT OF MAINTAINING THE STANDARD

It is considered that there is no benefit to the public or the community in maintaining the development standards. The proposed development will allow for the creation of a high quality residential development which as stated above meets the desired objectives of the standard.

Housing affordability in Sydney is becoming increasingly difficult. Our client is a not for profit organisation seeking to address a prevalent issue in Sydney's housing market. Our client is committed to providing a development that is 100% affordable housing far surpassing the requirements of State legislation. The additional height sought on the site will enable additional units to be provided to the benefit of the local government area. The area can support an increase in density and this is encouraged by Council.

It is not considered that the variation sought raises any matter of significance for State or regional environmental planning.

The departure from the height of buildings control within the LLEP 08 allows for the orderly and economic use of the site in a manner which achieves the outcomes and objectives of the relevant planning controls.

### 7. IS THE VARIATION WELL FOUNDED?

It is considered that this has been adequately addressed in Parts 4 and 5 of this submission. In summary, this Clause 4.6 Variation is well founded as required by Clause 4.6 of the LLEP 08 in that:

- □ Compliance with the development standards would be unreasonable and unnecessary in the circumstances of the development;
- ☐ There are sufficient environmental planning grounds to justify the departure from the standards:
- ☐ The development meets the objectives of the standard to be varied (height of buildings) and objectives of the R4 High Density Residential zoning of the land;
- ☐ The proposed development is in the public interest and there is no public benefit in maintaining the standard;
- □ The breach does not raise any matter of State of Regional Significance; and
- □ The development submitted aligns with the revitalisation of the formerly low-density precinct.

Based on the above, the variation is considered to be well founded.

Clause 4.6 also states that:

- "(6) Development consent must not be granted under this clause for a subdivision of land in Zone RU1 Primary Production, Zone RU2 Rural Landscape, Zone RU3 Forestry, Zone RU4 Primary Production Small Lots, Zone RU6 Transition, Zone R5 Large Lot Residential, Zone E2 Environmental Conservation, Zone E3 Environmental Management or Zone E4 Environmental Living if:
  - (a) the subdivision will result in 2 or more lots of less than the minimum area specified for such lots by a development standard, or
  - (b) the subdivision will result in at least one lot that is less than 90% of the minimum area specified for such a lot by a development standard.

**Note.** When this Plan was made it did not include any of these zones.

- (7) After determining a development application made pursuant to this clause, the consent authority must keep a record of its assessment of the factors required to be addressed in the applicant's written request referred to in subclause (3).
- (8) This clause does not allow development consent to be granted for development that would contravene any of the following:
  - (a) a development standard for complying development,
  - (b) a development standard that arises, under the regulations under the Act, in connection with a commitment set out in a BASIX certificate for a building to which State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004 applies or for the land on which such a building is situated,
  - (c) clause 5.4,
  - (ca) clause 6.4, 6.5, 6.6, 7.22, 7.24, 7.25, 7.26, 7.26A, 7.27, 7.28, 7.29 or 7.30."

This variation does not relate to the subdivision of land. The variation sought is thus not contrary to subclause (6).

Should the exception to the development standard sought under this submission be supported by Council, the Council must retain a record of the assessment of this submission.

The development proposed is not complying development.

A BASIX certificate was provided for the development.

Clause 5.4 of the LLEP 08 does not apply to the proposal.

Clauses 6.4, 6.5, 6.6, 7.22, 7.24, 7.25, 7.26, 7.26A, 7.27, 7.28, 7.29 or 7.30. of the LLEP 08 do not apply to the site.

### 9. CONCLUSION

The proposal does not strictly comply with the maximum building height control as prescribed by Clause 4.3 of the LLEP 08. Having evaluated the likely affects arising from this non-compliance, we are satisfied that the objectives of Clause 4.6 of the LLEP 08 are satisfied as the breach to the controls does not create any adverse environmental impacts.

As reiterated throughout this report, the proposal seeks to provide for a development comprising of entirely affordable housing. The development will address a rising social issue

in Sydney's housing market whereby rising prices are making affordable accommodation increasingly difficult to come by and is therefore within the public interest.

The proposed development will be managed by our client, St George Community Housing with all units used for the purposes of affordable housing for at least a 10-year period.

Consequently, strict compliance with this development standard is unreasonable and unnecessary in this particular instance and that the use of Clause 4.6 of the LLEP 08 to vary this development controls is appropriate in this instance.

Based on the above, it is sensible to conclude that strict compliance with the maximum building height control is not necessary and that a better outcome is achieved for this development by allowing flexibility in the application and in the public interest.

Should you have any questions regarding the proposed development, please do not hesitate to contact me.

Kind regards,

Valdis Aleidzans GAT & Associates Plan 3047

# Appendix G Pre – Development Application Minutes



Our Ref: PL-136/2017 Contact: Customer Service Ph: 1300 36 2170 Date: 18 December 2017

GAT & ASSOCIATES PO BOX 96 HABERFIELD NSW 2046

Dear Sir/Madam,

# **Pre - Development Application Advice**

Defenses Nombon	DI 400/0047		
Reference Number:	PL-136/2017		
Proposed Development:	Demolition of all existing structures and the development of a six storey residential flat building with at grade parking. The application is made in pursuant to SEPP (Affordable Rental Housing) 2009.		
	87-91 Nuwarra Road, Mooi	rebank, NSW, 2170	
Property Address:	Lot: 110 DP: 235787, Lot: 5	5 & 6 DP: 236405	
Date of Meeting:	22 November 2017		
	Council Rep	resentatives:	
	Name	Title	
	Boris Santana	Senior Development Planner	
	Mark Assad	Development Assessment Planner	
	Victor Lim	Traffic Planning Engineer	
Present at Meeting:	Applicant Representatives:		
	Name	Company	
	Gareth Williams	SGCH	
	Valdis Aleidzans	GAT & Associates	
	Gerard Turrisi	GAT & Associates	

Rachael Hemmings	Smith and Tzannes
Angus Nguyen	SGCH
Alex Goovoroff	Signature PM
Aleksandar Vasiloski	Bonacci
Josh Hollis	CBRK

## **EXECUTIVE SUMMARY**

Zoning:	R4 - High Density Residential
Permissible Development:	Residential Flat Building is a permissible form of development in the R4 High Density Residential zone in accordance with LLEP 2008.
	<ul> <li>State Environmental Planning Policy (Affordable Rental Housing) 2009;</li> <li>State Environmental Planning Policy No. 55 – Remediation of Land;</li> </ul>
Relevant Environmental Planning Instruments & Codes	<ul> <li>State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development;</li> <li>State Environmental Planning Policy (BASIX: Building Sustainability Index) 2004;</li> <li>The Greater Metropolitan Regional Environmental Plan No. 2 – Georges River Catchment; and</li> <li>Liverpool Local Environmental Plan 2008;</li> <li>Liverpool Development Control Plan 2008:         <ul> <li>Part 1: General Controls for All Development; and</li> <li>Part 3.7: Residential Flat Buildings.</li> </ul> </li> </ul>
Other Relevant Matters:	<ul> <li>NSW Department of Planning and Environment - Apartment Design Guide</li> <li>Seniors Living Policy: Urban design guidelines for infill development (UDAS 2004)</li> </ul>

Issue / Planning Control	Comments
Accessible Area	Evidence shall be provided that the site is located within an accessible area as defined by SEPP Affordable Rental Housing. Unless it can be demonstrated that the site satisfies the accessible area criteria of SEPP Affordable Rental Housing, the proposal cannot rely on the provisions of the SEPP Affordable Rental Housing.
SWCPP	If the proposed development is considered to have a Capital Investment Value (CIV) in excess of \$5,000,000, then the prospective development application will need to be determined by the SWCPP.
Floor Space Ratio	The relevant excerpt from Clause 13(2) of the SEPP Affordable Rental Housing reads as follows:  (2) The maximum floor space ratio for the development to which this clause applies is the existing maximum floor space ratio for any form of residential accommodation permitted on the land on which the development is to occur, plus:  (a) if the existing maximum floor space ratio is 2.5:1 or less:  (i) 0.5:1—if the percentage of the gross floor area of the development that is used for affordable housing is 50 per cent or higher, or  (ii) Y:1—if the percentage of the gross floor area of the development that is used for affordable housing is less than 50 per cent, where:
	<ul> <li>AH is the percentage of the gross floor area of the development that is used for affordable housing.</li> <li>Y = AH ÷ 100</li> <li>At the meeting it was advised that 100% of the development will be affordable housing. Subclause (2)(a)(i) applies to the proposal, calculation methodology is to be provided as part of the SEE.</li> </ul>
Height	Consideration should be given to Clause 4.3(2) of the Liverpool Local Environmental Plan 2008 (LLEP 2008) which states the following:  "(2) The height of a building on any land is not to exceed the maximum height shown for the land on the Height of Buildings Map."  Accordingly, the maximum height of any development on the subject site shall not exceed 18m. If the applicant wishes to pursue any
	departure from the maximum height, they will require a variation statement to be prepared in accordance with Clause 4.6 of the LLEP 2008. Variations will only be supported where an adequate

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	Swept path analysis for driveway access including channelization for ingressing and egressing traffic, and parking bays is to be submitted for assessment.
	The application shall be supported by turning paths in accordance with AS2890 clearly demonstrating satisfactory manoeuvring onsite and forward entry and exit to and from the public road.
	The proposed development shall be designed to be serviced by a Medium Rigid Vehicle.
	Clear delineation of driveway access and internal circulation.
	Footpath to be provided along the street frontage.
	On-street parking restrictions to be provided.
	Street lighting to Council's specifications.
Stormwater	Stormwater drainage for the site must be in accordance with Council's Development Control Plan.
	A stormwater concept plan shall be submitted with the application.
	The stormwater concept plan shall be accompanied by a supporting report and calculations.
	On-site detention is required to be provided for the site.
	The on-site detention system must be within common property and accessible from the street without going through dwellings or private courtyards.
	A water quality treatment device shall be provided in accordance with Council's Development Control Plan. A MUSIC model shall be submitted with the development application.
Social Impact Comment	In accordance with Part 1 (Section 27) of the LDCP 2008, a Social Impact Comment (SIC) will be required for the proposed development.
Waste	Facilities for ongoing waste management must be provided in
Management	accordance with Council's waste management fact sheet for higher density residential development, which is available on Council's website.
	It is noted that individual bins will be provided for each unit. Consideration should be given to how bins will be stored before and after rubbish collection times, as bins are not permitted on the designated footpath outside of the property boundaries.

	Additional information regarding waste management can be obtained from the NSW Environment Protection Authority (EPA).
Substation	The proposed development is likely to require a substation. Therefore, the prospective development application must be accompanied by detailed architectural plans of the substation.
	If the proposed substation is located outside the building envelope, the distance between the substation and the closest part of the building must exceed 3m otherwise a 6m high fire rated wall will be required as part of the design. Substations located outside the building envelope are to be designed in accordance with Integral Energy Substation Design Instruction Document No. SDI 104 (Current Version) and the Endeavour Energy Property Tenure Guidelines.
	Substations will need to be appropriately integrated in the overall presentation of the development to the streetscape and shall not detract from any visual amenity associated with the proposal.
Earthworks	<ul> <li>No retaining walls or filling is permitted for this development which will impede, divert or concentrate stormwater runoff passing through the site.</li> </ul>
	Earthworks and retaining walls must comply with Council's Development Control Plan.
	The application is to be supported by a geotechnical report prepared by a suitably qualified person to address salinity soils.
	Proposed fill material must comply with Council's Development Control Plan.

### Note:

This Pre-Lodgement advice is only a preliminary review of the concept development and the comments provided, written or otherwise, must not be considered as assessment of your proposal. Council is unable to make a recommendation on the proposal until such time as a full merit assessment of a lodged Development Application and its supporting documentation is undertaken.

The advice provided in no way fetters the discretion of Council in the assessment and determination of any potential application for the site. Additionally, any matters not identified in the below advice may emerge during the consideration of the complete application.

## Information to be submitted with a Development Application

The following information is required to be submitted with any potential application. All the requested information is required to be submitted to enable a complete, proper and timely assessment of the application.

Please be advised that any potential application will not be accepted for lodgement unless all the required information is submitted.

### **Architectural Plans**

- Survey Plan (confirming no building encroachments to easements, if any),
- Architectural plans (site plan, floor plans, elevations and sections), ensuring that all survey details including boundaries and other site constraints are shown on the architectural plans),
- Site analysis,
- Shadow diagrams and shadow analysis of adjoining elevations,
- Coloured perspectives,
- Colour schedule of external building materials, colours and finishes,
- Landscaping plan prepared by a qualified Landscape Architect,
- Stormwater Drainage plan,
- Demolition plan and statement, clearly identifying all structures to be demolished.
- Strata subdivision plan if subdivision is sought.

### Reports

- A quantity surveyors report which identifies the Capital Investment Value (CIV) and estimated cost of works,
- Statement of Environmental Effects (SEE) including addressing section 79C of the EPA & Act 1979 and Table of Compliance against provisions of LLEP 2008, DCP 2008 and SEPPS.
- Traffic and Parking Assessment,
- Site contamination investigation report.

### **Digital Requirements**

• 1 x CD Rom / USB containing electronic copies of all above documents accurately titled.

### **Other Supporting Documents**

- Written justification of any variations to LLEP 2008 development standards in accordance with Clause 4.6 of the LLEP 2008,
- Written justification of any variations to LDCP 2008 controls
- SEPP 65 Design Verification Statement,
- Waste Management Plan (for demolition, construction and on-going waste management),
- BASIX Certificates,
- Erosion and sediment control plan,
- Earthworks plan and cut/fill and retaining wall details,
- Sections depicting the relationship between proposed surface levels, floor levels, openings, type of opening, setbacks etc in comparison to the same elements on adjoining sites,
- 1 x copies of the above reports/plans. Plans are to be no larger than A3 size.

Please do not hesitate to contact the undersigned on 1300 36 2170 if you wish to discuss this matter further.

Yours faithfully,

Boris Santana

Senior Development Planner DEVELOPMENT ASSESSMENT

santanab@liverpool.nsw.gov.au



# Appendix H Design Excellence Panel Meeting Minutes



## **Minutes**

## MINUTES OF DEP MEETING 16<sup>th</sup> November 2017

### **DEP PANEL MEMBERS PRESENT:**

Olivia Hyde Chairperson
Lee Hillam Panel Member
Geoff Baker Panel Member

### **OTHER ATTENDEES:**

Nelson Mu Convener Boris Santana Planner

### **APOLOGIES:**

Nil

### **OBSERVERS:**

Isaac Franzini Smith & Tzannes <u>ifranzini@stz.com.au</u>
Angus Nguyen SGCH angus nguyen@sgch

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Alex Soovoroff Signature PM alexs@signaturepm.com.au
Yvonne Kha Smith & Tzannes ykha@smithtzannes.com.au

Rachael Hemmings Smith & Tzannes rhemmings@smithtzannes.com.au

### **AGENDA:**

**Property Address:** 87 Nuwarra Road, Moorebank

**Application Number:** PL-136/2017

Item Number: 1

### 1. WELCOME, ATTENDANCE, APOLOGIES AND OPENING

The Liverpool Design Excellence Panel (the Panel) comments are to assist Liverpool City Council in its consideration of the development application.

The absence of a comment under any of the principles does not necessarily imply that the Panel considers the particular matter has been satisfactorily addressed, as it may be that changes suggested under other principles will generate a desirable change.

The 9 design quality principles will be grouped together where relevant, to avoid the unnecessary repetition of comments.

### 2. DECLARATIONS OF INTEREST

## 3. CONFIRMATION OF PREVIOUS MINUTES

No

### 4. PRESENTATION

The applicant presented their proposal for the demolition of existing structures and the construction of a 6-storey residential flat building with at grade car park. The aplication is to be made pursuant to SEPP (Affordable Rental Housing) 2009.

The applicant's architect briefed the Panel and outlined details of the proposal, including the following:

- The entire development is proposed as affordable rental housing that will be owned and managed by St George Community Housing;
- The proposal provides dual core lifts and 2 firestairs and will consist of a mix of 1 and 2 bedroom apartments;
- The corridor has been designed to receive natural light;
- The materiality will consists of robust, low maintainence materials inclusive of facebricks;
- Clothes line and hot water system are proposed on balconies but will be screened;
- The proposal is FSR compliant;
- 61% of the apartment achieve the required solar access; and
- Communal open space is proposed at rear of the site and incorporates deep soil zones in pockets.

### 5. DEP PANEL COMMENTS

The 9 design principles were considered by the panel in discussion of the development application. These are 1] Context, 2] Built Form+ Scale 3] Density 4] Sustainability 5] Landscape 6] Amenity, 7] Safety 8] Housing Diversity +Social Interaction 9] Aesthetics.

The Design Excellence Panel makes the following comments in relation to the project:

- The Panel thanks the proponent for bringing the scheme to the Panel at pre-DA stage.
- The Panel notes that the proposal does not provide 3-bedroom apartments. The Panel
  understands that this is in response to St George affordable housing tenant needs, however
  the non-provision of 3-bedroom apartments within the development should be documented
  and justified by the applicant.
- There were some discussions centred on inconsistencies between the requirements of SEPP 65 ADG and the ARH SEPP where the applicant indicated that in the event of any conflict between these two planning instruments, they have adopted the objectives of the ADG.
- The material presented at the meeting was not accompanied by a site analysis plan. Meaning thatan informed decision could not be made in respect to potential impact of the development upon adjoining sites. A site analysis plan shall be prepared for the development and be included as part of the Development Application. This should include existing and future development context and demonstrate how the proposal responds.
- It is noted that the communal open space is proposed on the northern side of the site, part
  of which is an under-croft area. Given the limited depth and width of the deep soil zones
  across the site, consideration should be given to re-arranging the development and
  associated parking to increase the extent of deep soil zones within and surrounding the
  communal open space.

- Undercroft or covered communal open space is supported provided it is less than a third of
  the required Communal Open Space. The access to the COS should be made clearer for all
  residents, for example by providing a section of glass wall and a glass door looking out
  towards the space from the corridor.
- In addition to an increase in communal open space and deep soil zones, the proposal must incorporate new tree planting located to ensure unrestricted growth within the deep soil zones, to provide significant shade and amenity for residents. The selected tree species shall provide significant canopy cover. Landscape plan to be submitted indiacting planting, species and shared facilities for the communal area such as seating, a BBQ etc.
- The Panel asked whether any of the trees on site will be retained. The applicant indicated
  that the trees along the Nuwarra Road frontage of the site have been significantly trimmed
  by utility providers that these trees are not considered worthy of retention. As for the trees
  within the site, the applicant advised that they are Ficus species that are also not worthy of
  retention.
- The building encroaches into the 6m and 9m setback areas along the northern and southern boundaries of the site. The non-compliances with separation distances should be resolved to ensure that the proposal does not adversely affect the amenity and development potential of neighbouring sites.
- The proposal is currently slightly over the allowable height, however is it within the FSR and
  the additional height appears to have no overshadowing or other negative impact on
  adjacent properties, as such the Panel does not have an objection. However the lack of
  impacts should be proven as part of he DA submission.
- The north-west corner apartment on Levels 1-3 do not take full advantage of the orientation of the site and solar access. Provision of a blank wall facing north to attempt to satisfy separation distance requirements is not considered an acceptable solution.
- The Panel notes that the proposal is slightly under the 70% level for solar access to apartments. The Panel would rather that the project achieve this benchmark, however a very slight reduction (no more than current) is considered acceptable given that the proposal is for 100% affordable housing.
- The Panel recognised that the proposal will be made under the ARHSEPP and the applicant is entitled to bonus FSR. However, achieving the maximum permitted FSR should not be done at the expense of setbacks or provision of open space and deep soil zones. Some changes to the building envelope may be required.
- The street elevation of the building from the entry down to the southern elevation is considered to lack articulation. The provision of reasonable landscaping within front setback area is critical and would assist in providing some softening of the building. TO be indicated on a landscape plan.
- The substation should be appropriately positioned on the site to sit within the landscape area and at a distance to minimise the need for blast walls.

### General

Note: All SEPP 65 apartment buildings must be designed by an architect and their registration number is to be on all drawings. The architect is to attend the DEP presentations.

### • Quality of construction and Material Selection

Consideration must be given by the applicant to the quality of materials and finishes. All apartment buildings are to be made of robust, low maintenance materials and be detailed to avoid staining weathering and failure of applied finishes. Render is discouraged

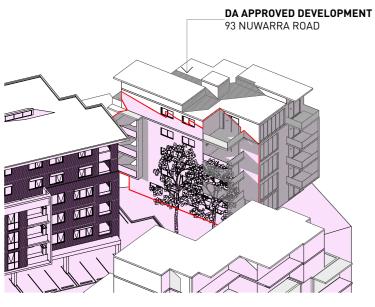
### • Floor-to-floor height

The panel recommends a minimum 3050 to 3100mm floor-to-floor height so as to comfortably achieve the minimum 2700mm floor-to-ceiling height as required by the ADG.

### 6. CLOSE

The proposal requires further consideration and the development must be referred to the Design Excellence Panel again when the Development Application is lodged.

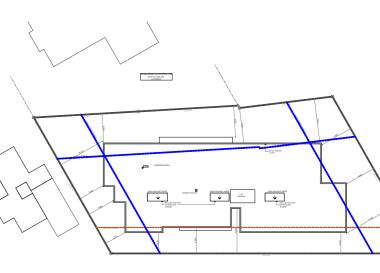
# Appendix I Shadows 93 Nuwarra Road, Moorebank



DA APPROVED DEVELOPMENT 93 NUWARRA ROAD 

93 NUWARRA ROAD 

DA APPROVED DEVELOPMENT

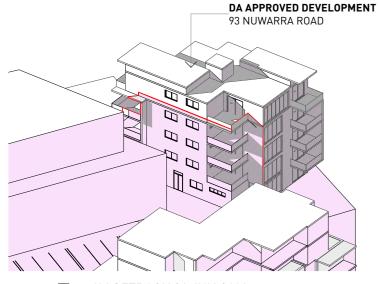


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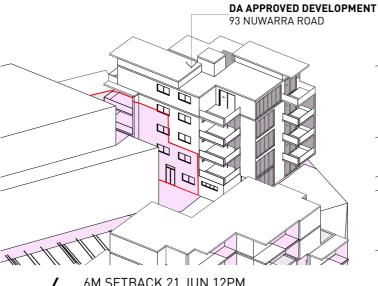
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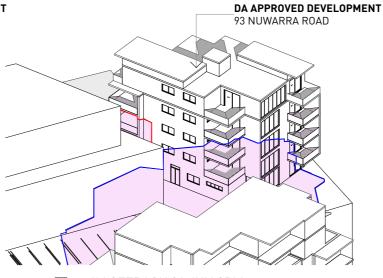
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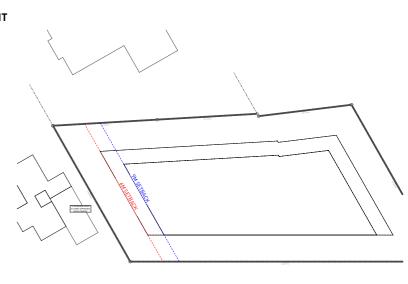
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6. 6M SETBACK 21 JUN 12PM 1:500



7. 6M SETBACK 21 JUN 3PM 1:500



6M SETBACK 1:800



Certificate no .: Assessor Name: Accreditation no.: Certificate date: **Dwelling Address:** Nuwarra Rd Moorebank, NSW 2170

0002404310 Amir Girgis 20579 25 January 2018



Class 2 Building Validation L.

Assessor Name

Assessor Number 2.

Assessor Signature

Simulated under BASIX Thermal Comfort Protoc.

BASIX Thermal Comfort Protoc.

BASIX Thermal Comfort Protoc.

FOR DA

REV - 23/01/2018

SHADOWS - 93 NUWARRA RD

DEVELOPMENT APPLICATION

**SGCH NUWARRA** 

ST GEORGE COMMUNITY HOUSING

© SMITH & TZANNES PTY LTD

ARCHITECTURE URBAN PLANNING

M1/147 McEvoy Street Alexandria NSW 2015 P 02 9516 2022 E email@smithtzannes.com.au Nominated Architect: Peter Smith (Reg 7024)

