RESIDENTIAL DEVELOPMENT

CRONULLA SHARKS REDEVELOPMENT (RESIDENTIAL COMPONENT)
ARCHITECTURAL STATEMENT INCORPORATING

SEPP 65 – DESIGN QUALITY OF RESIDENTIAL FLAT DEVELOPMENT STATEMENT RESIDENTIAL FLAT DESIGN CODE RULES-OF-THUMB SCHEDULE

PREFERRED PROJECT REPORT

MARCH 2012



01

SEPP 65 STATEMENT

This statement has been prepared by Turner Associates for Bluestone Capital Ventures No.1 Pty. Ltd. It forms part of the Masterplan prepared by Scott Carver for the Cronulla Sharks Club and Retail development for a New Centre for the region at Captain Cook Drive. This statement applies to the residential portion only, refer also to the Masterplan prepared by Scott Carver.

Summary of changes for Preferred Project Report - March 2012

In response to the letter from Department for Planning and Infrastructure (03.02.12) and taking into account community feedback, the design of the residential portion has been amended to reduce both the density and height of the proposal. A holistic reappraisal of the design was undertaken in order to take advantage of new possibilities arising from these changes, rather than a simple blanket reduction in floors. As well addressing the urban issues of the greater context and the development's relationship to the locality, the design has been substantially remodelled in parts to further maximise the amenity of its future occupants. The main outcomes of these changes are as follows:

- A reduction in the height of the maximum height to 12 storeys above the podium from 14 storeys in the original proposal
- A reduction in the apparent height from nearby with the re-location of higher portions (8-12 storeys) away from the perimeter
- An increase in the variety of built form with the re-orientation of building B and C resulting in a less regular plan layout of buildings
- The reduction in number of large buildings from 8 to 7 has resulted a greater building separation between the buildings.
- The orientation of Building B has further opened the site and allows a greater number of units to enjoy distant views than previously.
- An increase in the open space in the centre of the site with the reduced footprint of Building G helps further open the relationship to the Foreshore Park. The rotation of Buildings B and C has resulted in a two large open courtyard spaces on the Eastern podium compared to the three smaller courtyards previously.
- An improved treatment of the podium with the maisonette units of Building C providing activation and passive surveillance to the creek walkway. Additional indentation of this East side helps to break up the form of the podium.
- Parking numbers have been maintained at 883 spaces resulting in a substantially higher parking rate as the number of units has decreased.



VIEW FROM WEST ALONG CAPTAIN COOK DRIVE

| Numerical Summary of changes | | | | |
|------------------------------|-----------------------------|-------------------------------------|--|--|
| Category | Concept Plan Septemebr 2011 | Preferred Project Report March 2012 | | |
| Number of Units | 700 Units | 600 Units (Maximum) | | |
| Maximum Height | 14 Storeys + Podium | 12 Storeys + Podium | | |
| Parking Numbers | 883 spaces | 883 spaces (No reduction) | | |
| FSR | 1.65:1 | 1.42:1 | | |

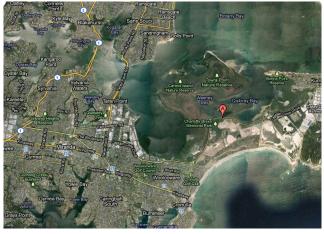
| Height Comparison by Building | | |
|-------------------------------|---|--|
| | | |
| Building A | Reduction in Height from 13 to 7 Storeys | |
| Building B | Increase in Height from 8 storeys to 8 and 12 storeys | |
| Building C | Reduction in Height from 7 to 2 storeys | |
| Building D | No Change | |
| Building E | Reduction in height from 14 and 6 storeys to 12 and 6 storeys | |
| Building F | Reduction in Height from 9 and 6 storeys to 7 storeys | |
| Building G | Reduction in height from 14 and 8 storeys to 12 and 8 storeys | |
| Building H | No Change | |

1 CONTEXT

Good design responds and contributes to its context. Context can be defined as the key natural and built features of an area.

Responding to context involves identifying the desirable elements of a location's current character or in the case of precincts undergoing a transition, the desired future character as stated in planning and design policies. New buildings will thereby contribute to the quality and identity of the area.

- The site is located on the southern edge of Woolooware Bay. It is bound by Toyota Stadium to the East, Captain Cook Drive to the South and Solander playing fields to the West.
- Other than Toyota Stadium and Sharks Leagues Club building to the east, the immediate context is charachterized by verdant open space. To the north there are mangroves fringing the open expanse of Woolooware Bay. To the west are the Solander playing fields and across Captain Cook Drive to the south is Captain Cook Oval and the Woolooware Golf Course
- The proposal is part of a larger masterplan for the Sharks Leagues
 Club Redevelopment incorporating the refurbishment of the
 existing club building, and New Retail Centre to the east and the
 development of a new public Foreshore Park and associated
 pedestrian and cycle links.
- This site is flat in topography and low in elevation (RL2-2.5M). Its previous use as a waste tip precludes excavation.
- Due to the flat local topography excellent views will be enjoyed even from the lower levels of the buildings







VIEW ACROSS PLAYING FIELDS TO TOYOTA STADIUM

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SCALE

Good design provides an appropriate scale in terms of bulk and height that suits the scale of the street and the surrounding buildings.

Establishing an appropriate scale requires a considered response to the scale of existing development. In precincts undergoing a transition, proposed bulk and height needs to achieve the scale identified for the desired future character of the area.

The residential site has been divided into three main portions the residential development, land dedicated for the New Public
Foreshore Park to the North, and the Watercourse and Riparian
Regeneration zone along the creek to the East

PROPOSAL

- This development consists of approximately 600 apartments divided between eight buildings on a two storey podium of parking. The accommodation of parking in a raised podium is necessary due to a prohibtion on excavation of this former waste tip site and issues of flooding on the site.
- The proposal is organised around a boulevard running northsouth that forms the main circulation artery of the site. A secondary road branches off to the west. This road configuration breaks the residential portion of the site into three main sectors.
- The buildings are typically six-to-eight storeys in height above the
 podium. There are three taller portions of buildings B, E and G at
 12 storeys above the podium respectively. These taller portions
 are attached to lower buildings and are set in from the perimeter
 of the site reducing their visibility from outside the site
- The overall masterplan and specific building design has been considered to ensure that the buildings are proportional to the spaces around them.
- There is no existing similar built form in the immediate vicinity.

 The new development, in conjunction with the new retail, will provide a New Centre for the region.



parapet heights vary to respond to these pragmatic needs.

PROPOSAL

DESIGN QUALITY

PRINCIPLE **DESIGN QUALITY PROPOSAL DENSITY** 4 Good design has a density appropriate • The residential site area is 41,280sqm. The proposal has an FSR of for a site and its context, in terms of 1.42:1 with a GFA of 58,500sqm. The original Concept plan had an floor space yields (or number of units or FSR of 1.65:1 residents). • There are 600 (reduced from 700) apartments anticipated (shown Appropriate densities are sustainable within the illustrative plans) with a range of 1 bed, 1 bed + study, 2 and consistent with the existing density bed/1bath, 2 bed/2bath and 3 bed apartments to allow for a range in an area or, in precincts undergoing a of typologies and living patterns. transition, are consistent with the stated • The proposed New Retail Centre to the East of Toyota Stadium will desired future density. Sustainable provide the necessary facilities locally to support the community of densities respond to the regional context, the New Residential Centre. availability of infrastructure, public transport, community facilities and • Nearby bus routes are anticipated to be extended in due course to environmental quality. serve the new development. (Refer to McLaren Traffic Engineering Report)



| PRINCIPLE | DESIGN QUALITY | PROPOSAL |
|-------------|--|--|
| PRINCIPLE 5 | RESOURCE, ENERGY AND WATER EFFICE Good design makes efficient use of natural resources, energy and water throughout its full life cycle, including construction. Sustainability is integral to the design process. Aspects include demolition of existing structures, recycling of materials, selection of appropriate and sustainable materials, adaptability and reuse of buildings, layouts and built form, passive solar design principles, efficient appliances and mechanical services, soil zones for vegetation and reuse of water. | |
| | passive solar design principles, efficient appliances and mechanical services, soil | report by Cundall. The development will include tanks for the retention of stormwater |
| | | Section J. |

6 **LANDSCAPE** Good design recognises that together • There are many layers of open space providing a hierarchy that landscape and buildings operate as responds to the need for a variety of different activities to occur an integrated and sustainable system, within the site. resulting in greater aesthetic quality and • The New Public Foreshore park will provide amenity for the greater amenity for both occupants and the public and ties the site into local pedestrian and cycle paths. adjoining public domain. The New Boulevard through its generous landscaping and the way Landscape design builds on the it flares out to the North allows the Foreshore Park continue into existing site's natural and cultural the site. features in responsible and creative • The generous common property of the residential buildings will ways. It enhances the development's offer private outdoor amenity for residents, as well as providing natural environmental performance by a good outlook spaces for those living above. All of the common coordinating water and soil management, solar access, microclimate, tree canopy coutyards have open sides, allowing views out of the the courtyards. and habitat values. It contributes to In turn, people in the public areas will enjoy views into the common the positive image and contextual courtyards and their landscaping. fit of development through respect New sizable trees will be included as part of the new landscaping for streetscape and neighbourhood works. character, or desired future character. • Each apartment has a balcony of generous depth that has been Landscape design should optimise located to maximise light and views, whilst considering privacy. useability, privacy and social opportunity, • Refer to the report and drawings by Aspect Studios for more detail. equitable access and respect for neighbours' amenity, and provide for practical establishment and long-term management.

PROPOSAL

PRINCIPLE

DESIGN QUALITY



PROPOSAL

SAFETY AND SECURITY

Good design optimises safety and security, both internal to the development and for the public domain.

This is achieved by maximising overlooking of public and communal spaces whilst maintaining internal privacy, avoiding dark and non visible areas, maximising activity on streets, providing clear, safe access points, providing quality public spaces that cater for desired recreational uses, providing lighting appropriate to the location and desired activities, and clear definition between public and private open space.

- Safe access is achieved by clear pedestrian routes within the site
- The main Boulevard running North-South through the development brings activation into the heart of the development and connects to the Foreshore Park. The street-facing perimeters of the buildings to the South will be fronted by either retail units or by glazing to the amenities.
- Passive surveillance is afforded by balconies and windows at the higher levels, taking in all aspects.
- There will be appropriate lighting to all exterior areas, both public and communal.



PRINCIPLE DESIGN QUALITY PROPOSAL

AESTHETICS

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Quality aesthetics require the appropriate composition of building elements, textures, materials and colours and reflect the use, internal design and structure of the development. Aesthetics should also relate to the context, particularly responding to desirable elements of the existing streetscape or, in precincts undergoing transition, contribute to the desired future character of the area.

- The aesthetics of the proposal do not form part of the Concept Plan, these will be addressed in detail in a subsequent Stage 2 DA submissions.
- This submission, however, includes illustrative plans and perspectives to give an indication of the type of approach that may be given in order to represent the overall scale of the buildings relative to their context.
- The buildings are typified by areas of open balcony, especially in a continuous manner to the north, as well as wall surfaces that shall include areas of fenestration.
- The western façades may include louvres or other treatments in response to the solar gain that would otherwise be present to these façades.
- The design, materials and colours shown are purely indicative at this stage.



RULES-OF-THUMB FROM RULES OF THUMB THE RESIDENTIAL FLAT DESIGN CODE

| PAGE | RECOMMENDATION | CURRENT |
|---|--|--|
| | | |
| 7 | Relating to local context | YES |
| | | The surrounding context is not developed, with the exception of Toyota Stadium, which is a different typology to the proposal |
| 27 | In general a depth of building 10-18m | YES |
| | (glass-to-glass) wide is appropriate. If wider, demonstration of satisfactory daylighting and natural ventilation. | Generally the indicative envelopes acheive these distances. |
| 28 | Distance between buildings: | YES |
| | Over 9 storeys (over 25m) | The distances bothween buildings exceeds the required distances in |
| | 24m between habitable / balconies | The distances bettween buildings exceeds the required distances in all instances. |
| | 18m habitable / balconies to non- habitable | |
| | 12m non-habitable to non-habitable | |
| 44 | Minimum 25% open space area to be | YES |
| | deep planting | The site has an area of 41,280sqm of which 18520 is deep soil. This equals 45% of the site area. |
| Communal open space to be 25-30% of site area | | YES |
| | | The site has an area of 41,280sqm of which 21890sqm is public or private communal open space. This equals 53% of the site area. |
| 49 | Minimum recommended area of private | YES, WITH QUALIFICATIONS |
| | open space for each apartment at ground level or on a structure such as podium or car park is 25sqm; minimum preferred dimension in one direction is 4 metres. | The units shown are only indicative at this stage and have not been designed in detail. The current design would allow for ground floor terraces of the required area and dimensions |
| 50-51 | Site configuration – orientation | YES |
| | | The relevant section of the RFDC relates to aligning with streets and maximising the number of units facing north; this proposal reflects both of these requirements. |

| PAGE | RECOMMENDATION | CURRENT | |
|-------|--|---|--|
| | | | |
| 56-57 | Site amenity - safety | YES, WITH QUALIFICATIONS | |
| | | The RFDC requires secure ground level access, passive surveillance, reinforcing the building boundary, orientating entrances to streets, providing clear lines of site from the lobbies to the street, provision of adequate illumination. The proposal responds positively to all of these requirements. | |
| 58-59 | Site amenity – visual privacy | YES | |
| | | The buildings are typically orientated such that units face predominantly away from those in the opposite building. All other units are orientated such that there are no proximity issues with other windows and balconies. | |
| 69 | 8m max to rear of kitchen from glass. | N/A | |
| | If more, demonstration of satisfactory daylighting and natural ventilation. | The units have not been yet been designed for this stage and are indicated in block form | |
| 69 | 8m maximum depth to single aspect units. | N/A | |
| | If more, demonstration of satisfactory daylighting and natural ventilation.W | The units have not been yet been designed for this stage and are indicated in block form. | |
| 69 | Minimum unit sizes: | YES | |
| | Studio: Not stated | The specific unit sizes for each building will be detailed in subsequent | |
| | 1 bed: 50sqm | DA submissions | |
| | 2 bed: 70sqm | | |
| | 3 bed: 95sqm | | |
| 72 | 2m min balcony width, unless furniture layout can be demonstrated | YES All primary balconies will have minimum 2.0m depth. | |
| 74 | 2.7m min ceiling height in habitable | YES | |
| 7-7 | areas | 3.1m floor-to-floor, therefore 2.7m is achievable to ceilings. | |
| 74 | 2.25-2.4m ceiling height in non-habitable | YES | |

| PAGE | RECOMMENDATION | CURRENT | |
|------|---|---|--|
| | | | |
| 78 | Optimise the number of ground level | N/A | |
| | units with separate entries. | No residential uses at ground le | evel. |
| | | | |
| 79 | In general, maximum 8 apartments off of a double-loaded common area (except where amenity provided through crossover, dual aspect apartments) YES WITH QUALIFICATIONS 10 of the 12 corridors comply and mounts off a corridor. The southern corr G-7 has 11 units. In this instance the | | and most of these have less than 8 rn corridor of Building B on levels ce there are two lifts and they are |
| | | are centrally located in a naturally lit lobby, thereby lessening the congestion in the corridor as people turn left or right. | |
| 82 | Storage provision – 1 bed: 6 cu m; 2 bed: 8 cu m; 3 bed: 10 cu m. Minimum 50% within unit | N/A The units have not been yet been designed for this stage and are indicated in block form | |
| 85 | 70% of units to receive 2 hours of direct sunlight in winter to living rooms and private open spaces | YES The design of the buildings for this stage are only indicative. All of the buildings in the indicative scheme acheive a minimum of 2hrs solar to the living spaces. Table below relates to Illustrative proposal | |
| | | Building A - 77% | Building E - 79% |
| | | Building B - 78% | Building F - 70% |
| | | Building C - 100% | Building G - 70% |
| | | Building D - 83% | Building H - 85% |
| 87 | 60% of units to be cross-ventilated | YES The design of the buildings for this stage are only indicative. All of the buildings in the indicative scheme acheive a minimum of 60% of units being cross ventilated. Table below relates to Illustrative proposal Building A - 64% Building E - 63% Building B - 77% Building F - 65% Building C - 100% Building G - 79% Building D - 72% Building H - 67% | |