

APPENDIX A: RFDC COMPLIANCE CHECKLIST

RFDC Ref.	Item description	Rule of Thumb	Better Design Practice	Notes	Proposal Complies
	Maximise heights in habitable rooms by stacking wet areas from floor to floor. This ensures that services and their bulkheads are located above a bathroom or store rather than habitable spaces.		•		✓
	Promote use of ceiling fans for cooling and heat distribution.		•	To be considered in next stage dependent on marketing feedback.	-
	Facilitate better access to natural light by using ceiling heights which:				
	Promote use of taller windows, highlight windows and fan lights.		•		✓
	Enable the effectiveness of light shelves in enhancing daylight distribution into deep interiors.		•	Horizontal shading fins are provided which will have a dual purpose in also performing as a light shelf. Refer to facade details in design report.	✓
	Design ceiling heights which promote building flexibility over time for a range of other uses, including retail or commercial, where appropriate.		•		N/A
	Coordinate internal ceiling heights and slab levels with external height requirements and key datum lines.		•		✓
	Count double height spaces with mezzanines as two storeys.		•		N/A
	Cross check ceiling heights with building height controls to ensure compatibility of dimensions, especially where multiple uses are proposed.		•		✓
	Recommended minimum FFL - FCL heights:				
	Residential building in mixed-use area 3.3m ground and first floor to promote future use flexibility.	•		5100mm floor to floor height to ground level (lobby and mixed use retail), with 3200mm height to first floor which is residential.	✓
	In residential flats or other residential floor of mixed use buildings:				
	2.7m habitable rooms, 2.4 non-habitable preferred, 2.25m permitted.	•			✓
	Two storey units 2.4m min. for second storey if 50% or more of the apartment has 2.7m min. heights.	•			N/A
	Two storey units with two storey void space, 2.4m min. ceiling heights	•			N/A
	Attic spaces 1.5m min wall height at edge of room with 30degree min. ceiling slope.	•			N/A
	Developments which seek to vary the recommended ceiling heights must demonstrate that apartments will receive satisfactory daylight.	•			N/A
s3 p75	Flexibility				
	Provide robust building configurations, which utilise multiple entries and circulation cores, especially in larger buildings over 15m long.		•		✓
	Thin building cross sections, which are suitable for residential or commercial uses.		•		N/A
	A mix of apartment types.		•		✓
	Higher ceilings in particular on ground floor and first floor		•		✓
	Separate entries for ground floor level and upper levels.		•	No apartments are located on the ground floor.	N/A

RFDC Ref.	Item description	Rule of Thumb	Better Design Practice	Notes	Proposal Complies
	Sliding and/or movable wall systems.		•	Sliding wall systems are proposed to most storage areas.	✓
	Provide apartment layouts, which accommodate the changing use of rooms. Design solutions may include:				
	Windows in all habitable rooms and the maximum number of non-habitable rooms.		•		✓
	Adequate room sizes and open-plan apartments, which provide a variety of furniture layout opportunities.		•		✓
	Dual master-bedroom apartments, which can support two independent adults living together or a live/work situation.		•	Not deemed suitable for intended client / market.	✗
	Utilise structural systems, which support a degree of furniture change in building use or configuration. Design solutions may include:				
	A structural grid, which accommodates car parking dimensions, retail commercial and residential uses vertically throughout the building.		•		✓
	The alignment of structural walls, columns and services cores between floor levels.		•		✓
	The minimisation of internal structural walls.		•		✓
	Higher floor to floor dimensions on the ground floor and possibly the first floor.		•		✓
	Promote accessibility by ensuring:				
	The number of accessible and visitable apartments is optimised.		•		✓
	Adequate pedestrian mobility and access is provided.		•		✓
s3 p77	Ground floor apartments				
	Optimise the number of ground floor apartments with separate entries and consider requiring an appropriate percentage of accessible units. This relates to the desired streetscape and topography of the site.	•		No residential apartments are located on the ground floor.	N/A
	Provide ground floor apartments with access to private open space, preferably as a terrace or garden.	•			N/A
s3 p79	Internal circulation				
	Increase amenity and safety in circulation spaces by:				
	Providing generous corridor widths and ceiling heights, particularly in lobbies, outside lifts and apartment entry doors.		•		✓
	Providing appropriate levels of lighting, including the use of natural daylight, where possible.		•		✓
	Minimising corridor lengths to give short, clear sight lines.		•		✓
	Avoiding tight corners.		•	The floorplate geometry results in some tight corners however these are architecturally expressed as circulation nodes which are wider than typical corridor areas, receive natural light and ventilation, and contain rounded wall finishes to facilitate smooth circulation.	✓
	Providing legible signage noting apartment numbers, common areas and general directional finding.		•	Assumed	✓

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	Providing adequate ventilation.		•		✓
	Support better apartment building layouts by designing buildings with multiple cores which: Increase the number of entries along a street; Increase the number of vertical circulation points; Give more articulation to the façade; Limiting the number of units off a circulation core on a single level.		•	To reduce floorplate area and minimise perceptions of building bulk, an efficient central core typology has been proposed.	N/A
	Articulate longer corridors. Design solutions may include: Utilising a series of foyer areas; Providing windows along or at the end of a corridor.		•		✓
	Minimise maintenance and maintain durability by using robust materials in common circulation areas.		•	Assumed	✓
	In general where units are located off a double loaded corridor the number of units accessible from a single core should be limited to 8. Exceptions may be allowed: For adaptive reuse of buildings; Where developments can demonstrate the achievement of the desired streetscape character and entry response; Where developments can demonstrate a high level of amenity for common lobbies, corridors and units, (cross over, dual aspect apartments).	•		Corridors are generally single loaded. Where corridors are double loaded, the maximum number of apartments located off each corridor is 2.	✓
s3 p80	Mixed Use				
	Choose a mix of uses that complement and reinforce the character, economics and function of the local area.		•		✓
	Choose compatible mix of uses.		•		✓
	Consider building depth and form in relation to each use's requirements for servicing and amenity. The compatibility of various uses can be addressed by utilising:				
	Flexible building layouts, which promote variable tenancies or uses.		•		✓
	Optimal floor to ceiling heights.		•		✓
	Optimal building depths, such as 10-18m for residential and smaller commercial uses.		•	To maximise tower efficiency and reduce building bulk, a central core typology has been adopted which results in a greater building depth. The deepest area of the floorplate however is occupied by the core, with common area circulation corridors receiving excellent levels of amenity through natural light, ventilation and views.	✗
	Extra care where larger footprint commercial spaces are integrated with residential uses.		•		N/A
	Design legible circulation systems, which ensure the safety of users by:				
	Isolating commercial service requirements, such as loading docks, from residential access, servicing needs and primary outlook.		•		✓
	Locating clearly demarcated residential entries directly from the public street.		•		N/A
	Clearly distinguishing commercial and residential entries and vertical access points. The coming and going of strangers can lead to security issues, especially for the residential component.		•		✓

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	Providing secure entry to all entrances into private areas including car parks and internal courtyards.		•		✓
	Providing safe pedestrian routes through the site, where required.		•		✓
	Ensure the building positively contributes to the public domain and streetscape by:				
	Fronting onto major streets with active uses.		•	The proposal fronts onto the major street via a community park and a childcare centre.	✓
	Avoiding the use of blank walls at the ground level.		•		✓
	Address acoustic requirements for each use by:				
	Separate residential uses, where possible, from ground floor leisure or retail uses by utilising an intermediate quiet-use barrier, such as offices.		•	Site zoning permits residential use only.	N/A
	Design for acoustic privacy from the beginning of the project to ensure that future services, such as air conditioning, do not cause acoustic problems later.		•		✓
	Recognising the ownership/lease patterns and separating requirements for purposes of BCA for considerations.		•		N/A
s3 p82	Storage				
	Locate storage conveniently for apartments. Options include providing:				
	At least 50% of required storage within each apartment and accessible from either the hall or living area. Storage is best provided as cupboards accessible from entries and hallways and/or from under internal stairs.		•		✓
	Dedicated storage rooms on each floor which can be leased by residents as required.		•	Sufficient storage provided in basement and dwellings.	✗
	Dedicated and / or leasable storage in internal or basement car parks. Leasing storage provides choice and minimises the impact of storage on housing affordability.		•	Lockable storage cages provided in basement.	✓
	Provide storage, which is suitable for the needs of residents in the local area and able to accommodate larger items such as sporting equipment (skiing, golf, surfing etc.) and bicycles.		•		✓
	Ensure that storage separated from apartments is secure for individual use.		•		✓
	Where basement storage is provided:				
	Ensure that it does not compromise natural ventilation in car parks or create potential conflicts with fire regulations.		•		✓
	Exclude it from FSR calculations		•		✓
	Consider providing additional storage in smaller apartments in the form of built-in cupboards to promote a more efficient use of small spaces		•		✓
	In addition to kitchen cupboards and bedroom wardrobes, provide accessible storage facilities at the following rates: Studio apartments 6m3; 1-bedroom apartment 6m3; 2-bedroom apartment 8m3; 3-bedroom apartment 10m3.	•			✓
	BUILDING AMENITY				
s3 p83	Acoustic Privacy				

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RFDC Ref.	Item description	Rule of Thumb	Better Design Practice	Notes	Proposal Complies
s3 p84	Daylight Access				
	Living rooms and private open spaces for at least 70% of apartments in a development should receive a min. 3 hours direct sunlight between 9am and 3pm in mid winter. In dense urban areas min. 2 hours may be acceptable	•		68% of residential apartments achieve 3 hours of solar access between 9am and 4pm on 22nd June. 78% of residential apartments achieve 2 hours of solar access between 9am and 4pm on 22nd June. Refer to planning and design report for further detail.	-
	Limit the number of single-aspect apartments with a southerly aspect to a maximum of 10% of total units.	•		0% of apartments have a south facing orientation. 21% of apartments have a south eastern orientation which achieve excellent amenity through prime city skyline views. 8 communal spaces are provided at various levels throughout the building with a variety of orientations, many of which achieve 3 hours solar access on 22nd June.	✗
s3 p86	Natural Ventilation				
	Building depths which support natural ventilation typically range from 10-18m.	•		60% of residential units achieve crossflow ventilation despite a floorplate which varies in depth.	-
	60% of residential units should be naturally cross ventilated.	•		60% of residential units achieve crossflow ventilation. Refer to crossflow ventilation section of design report.	✓
	25% of kitchens should have access to natural ventilation.	•		31% of kitchens receive access to natural crossflow ventilation.	✓
	BUILDING FORM				
s3 p88	Awnings and Signage				
s3 p89	Facades				
s3 p91	Roof Design				
	BUILDING PERFORMANCE				
s3 p93	Energy Efficiency				
	Incorporate passive solar design techniques to optimise heat storage in winter and heat transfer in summer by:				
	Maximising thermal mass in floor & walls in northern rooms.		•	Internal wall finish to be determined. All floors are concrete slab construction. Floor finishes to bedrooms are carpet to provide acoustic separation and thermal insulation. Stone floor finish to living areas is to be offered as an option to purchasers.	-
	Hard floor finishes instead of carpet		•	As above	-
	Limiting number of single aspect apartments with southerly aspect to max 10%.		•	0% of apartments have a south facing orientation. 21% of apartments have a south eastern orientation which achieve excellent amenity through prime city skyline views. 8 communal spaces are provided at various levels throughout the building with a variety of orientations, many of which achieve 3 hours solar access on 22nd June.	✗

RFDC Ref.	Item description	Rule of Thumb	Better Design Practice	Notes	Proposal Complies
	Insulating roof/ceiling to R2.0, external walls to R1.0 and floor including separation from basement parking to R1.0.		•		✓
	Improve control of mechanical space heating & cooling by:				
	Designing apartments so that entries open into lobbies or vestibules and are isolated from living areas by doorways.		•	Not deemed acceptable to market.	✗
	Provide or plan for future installation of photovoltaic panels.		•		✓
	Improve efficiency of hot water systems		•		✓
	Reduce reliance on artificial lighting		•		✓
	Maximise the efficiency of household appliances		•	Refer to Basix report.	✓
s3 p95	Maintenance				
s3 p96	Waste Management				
	Provide every dwelling with a waste cupboard or temporary storage area of sufficient size to hold a single days waste and enable source separation.		•		✓
	Incorporate on-site composting, where possible in self contained units on balconies as part of the shared site facilities		•	Green waste bin area provided in basement.	-
	Supply waste management plan with DA	•			✓
s3 p97	Water Conservation				
N/A	Accessible Parking				
	Car parking space or garage min. area 6.0m x 3.8m			Out of date standard referenced by SEPP65.	-
	Roof to car parking space				✓
	Internal clearance of garage or carport 2.5 min.				✓



APPENDIX B

APARTMENT AREA

SCHEDULE

APPENDIX C: APARTMENT AREA SCHEDULE

Area Schedule

Level	Use	Car Spaces	Apartments	GFA (sqm)
Level 34	Plant			
Level 33	Residential		9	971
Level 32	Residential		9	971
Level 31	Residential		9	971
Level 30	Residential		9	971
Level 29	Residential		9	971
Level 28	Residential		9	971
Level 27	Residential		9	971
Level 26	Residential		9	971
Level 25	Residential		9	971
Level 24	Residential		12	965
Level 23	Residential		12	965
Level 22	Residential		12	965
Level 21	Residential		12	965
Level 20	Residential		12	965
Level 19	Residential		12	965
Level 18	Residential		12	965
Level 17	Residential		12	965
Level 16	Residential		12	965
Level 15	Residential		12	981
Level 14	Residential		12	981
Level 13	Residential		12	981
Level 12	Residential		12	981
Level 11	Residential		12	981
Level 10	Residential		12	981
Level 09	Residential		12	975
Level 08	Residential		12	975
Level 07	Residential		12	975
Level 06	Residential		12	975
Level 05	Residential		12	975
Level 04	Residential		12	975
Level 03	Residential		12	981
Level 02	Residential		12	981
Level 01	Residential		12	981
Level 00	Lobby / Retail / Public Domain	10	0	364
Level B1	Basement Carparking	146		0
Level B2	Basement Carparking	142		0
Level B3	Basement Carparking	184		0
Total		482	369	32467

Site 68 Sydney Olympic Park
Apartment Type Area Schedule

Type	Basement Storage Cage	Quantity	Internal Area (m2)	Balcony / W'garden (m2)	Min. storage required in apartment - SEPP65 (m3)	Min. Storage provided in Apartment - SEPP65 Measurement (m3)	Complies with SEPP65 requirements	Adaptable
1A	Yes	57	53	8	3.0	8.4	Yes	
1B	No	33	61	9	6.0	6.1	Yes	
1C	Yes	57	51	6	3.0	3.1	Yes	Y - x26 no.
1D	No	24	56	6	6.0	6.2	Yes	
2A	Yes	57	78	11	4.0	10.3	Yes	
2B	No	24	82	13	8.0	8.1	Yes	
2C	Yes	24	85	15	4.0	4.0	Yes	
2D	Yes	15	71	13	4.0	10.6	Yes	
2E	Yes	24	80	15	4.0	9.0	Yes	
2F	Yes	18	75	10	4.0	10.2	Yes	
3A	Yes	9	99	27	5.0	12.4	Yes	Y - x9 no.
3B	No	9	116	17	10.0	10.3	Yes	
3C	Yes	9	108	13	5.0	12.5	Yes	
4A	Yes	2	155	32	5.0	6.2	Yes	Y - x2 no.
4B	Yes	7	155	32	5.0	6.2	Yes	
Total:		369						37

- * Basement storage cages provided: 293
- * Number of units achieving SEPP65 storage requirements: 369 (100%)
- * SOPA storage requirements are equal to that required by the RDFC (SEPP 65)

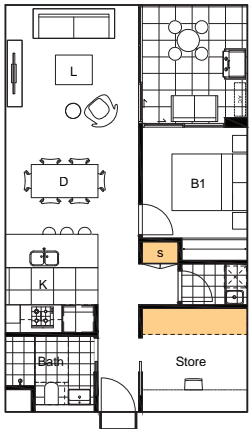
Storage plan per apartment type is located opposite.

APPENDIX C: APARTMENT AREA SCHEDULE



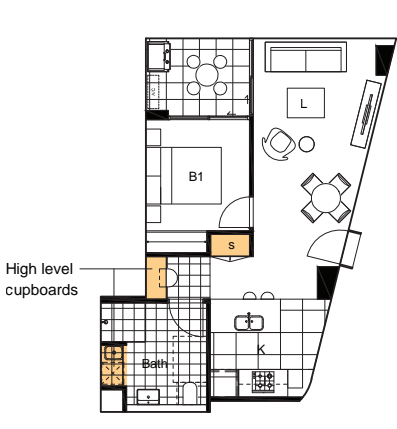
Type 1A
Storage volume provided within apartment: 8.4m³
Storage cage provided in basement: Yes - 4m³

Total storage volume compliant with SEPP 65 / SOPA guidelines (6.0 m³): Yes



Type 1B
Storage volume provided within apartment: 6.12m³
Storage cage provided in basement: No

Total storage volume compliant with SEPP 65 / SOPA guidelines (6.0 m³): Yes



Type 1C
Storage volume provided within apartment: 3.08m³
Storage cage provided in basement: Yes - 4m³

Total storage volume compliant with SEPP 65 / SOPA guidelines (6.0 m³): Yes



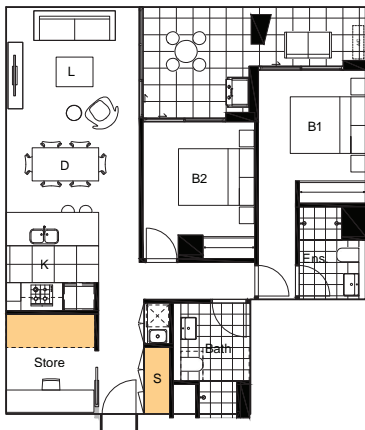
Type 1D
Storage volume provided within apartment: 6.22m³
Storage cage provided in basement: No

Total storage volume compliant with SEPP 65 / SOPA guidelines (6.0 m³): Yes



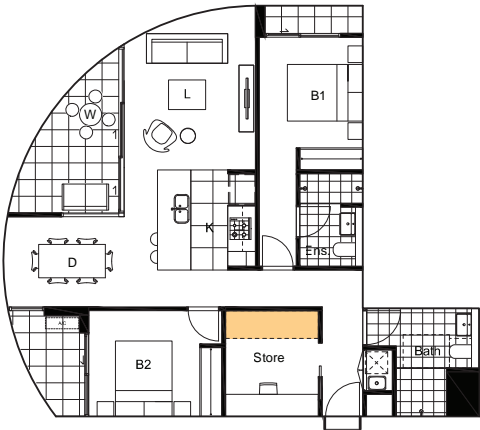
Type 2A
Storage volume provided within apartment: 10.3m³
Storage cage provided in basement: Yes - 4m³

Total storage volume compliant with SEPP 65 / SOPA guidelines (8.0 m³): Yes



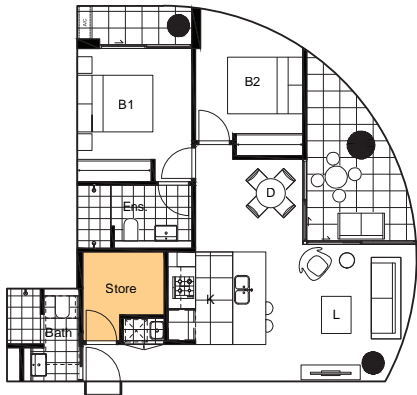
Type 2B
Storage volume provided within apartment: 8.12m³
Storage cage provided in basement: No

Total storage volume compliant with SEPP 65 / SOPA guidelines (8.0 m³): Yes



Type 2C
Storage volume provided within apartment: 4.02m³
Storage cage provided in basement: Yes - 4m³

Total storage volume compliant with SEPP 65 / SOPA guidelines (8.0 m³): Yes



Type 2D
Storage volume provided within apartment: 10.56m³
Storage cage provided in basement: Yes - 4m³

Total storage volume compliant with SEPP 65 / SOPA guidelines (8.0 m³): Yes



Type 2E
Storage volume provided within apartment: 9.0m³
Storage cage provided in basement: Yes - 4m³

Total storage volume compliant with SEPP 65 / SOPA guidelines (8.0 m³): Yes



Type 2F
Storage volume provided within apartment: 10.22m³
Storage cage provided in basement: Yes - 4m³

Total storage volume compliant with SEPP 65 / SOPA guidelines (8.0 m³): Yes



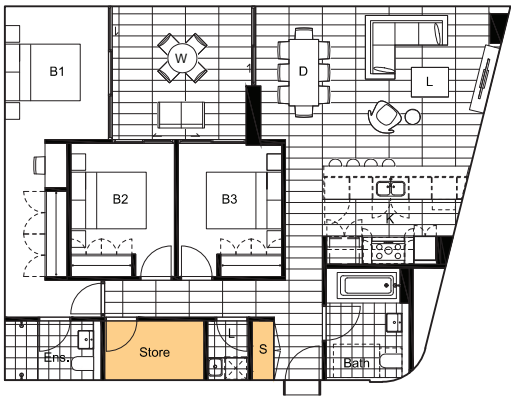
Type 3A
Storage volume provided within apartment: 12.43m³
Storage cage provided in basement: Yes - 4m³

Total storage volume compliant with SEPP 65 / SOPA guidelines (10.0 m³): Yes



Type 3B
Storage volume provided within apartment: 10.29m³
Storage cage provided in basement: No

Total storage volume compliant with SEPP 65 / SOPA guidelines (10.0 m³): Yes



Type 3C
Storage volume provided within apartment: 12.53m³
Storage cage provided in basement: Yes - 4m³

Total storage volume compliant with SEPP 65 / SOPA guidelines (10.0 m³): Yes



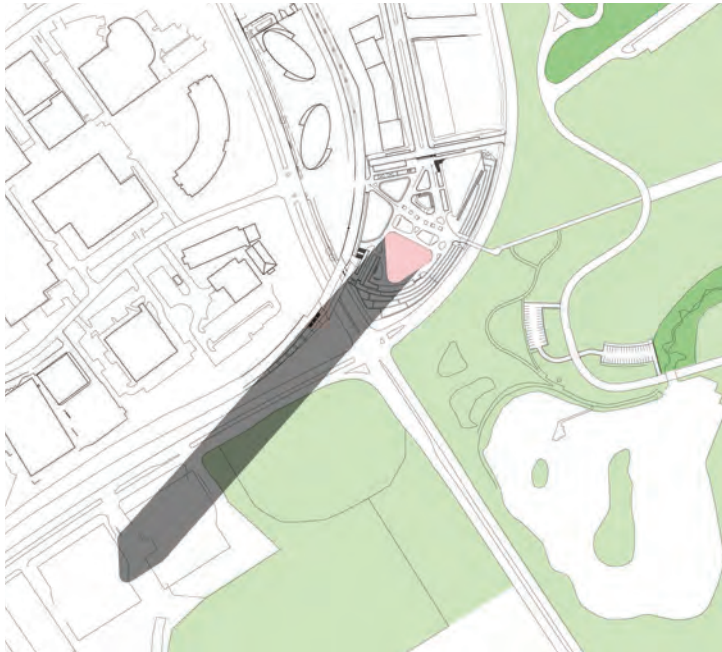
Type 4A / B
Storage volume provided within apartment: 6.24m³
Storage cage provided in basement: Yes - 4m³

Total storage volume compliant with SEPP 65 / SOPA guidelines (10.0 m³): Yes

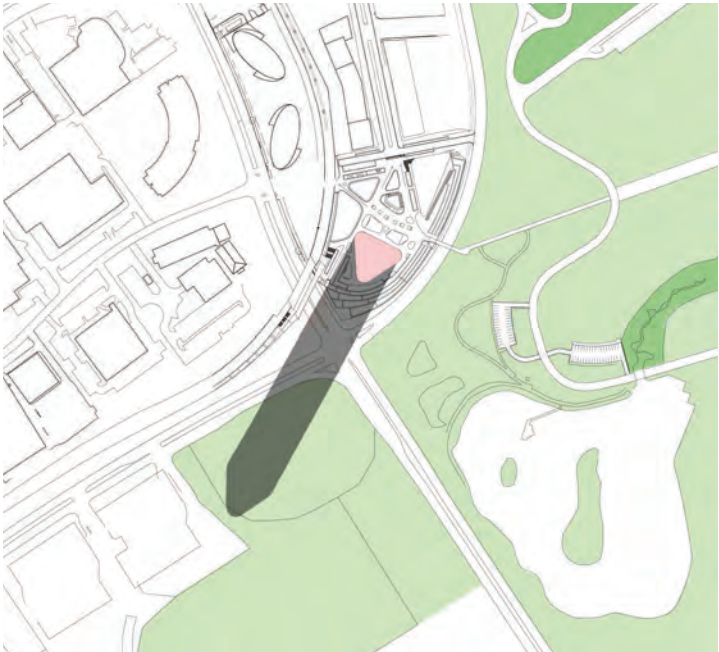


APPENDIX C

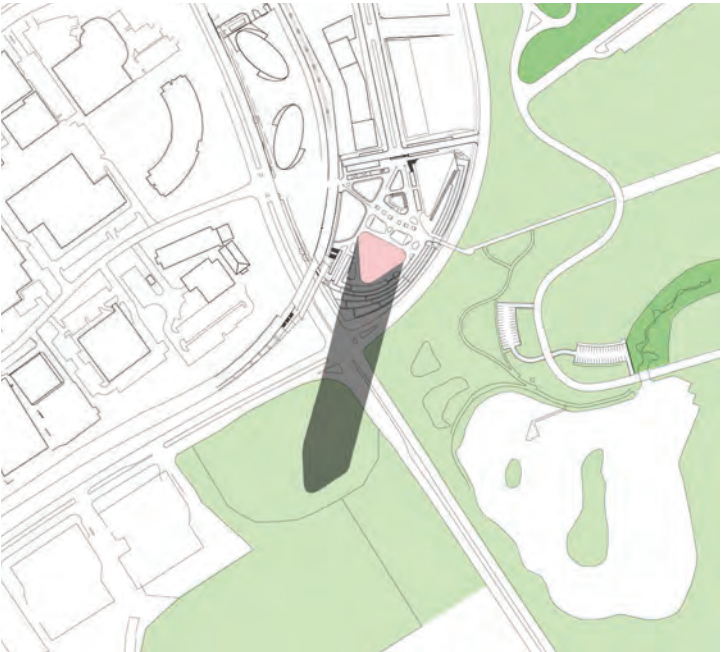
SHADOW STUDIES



9AM



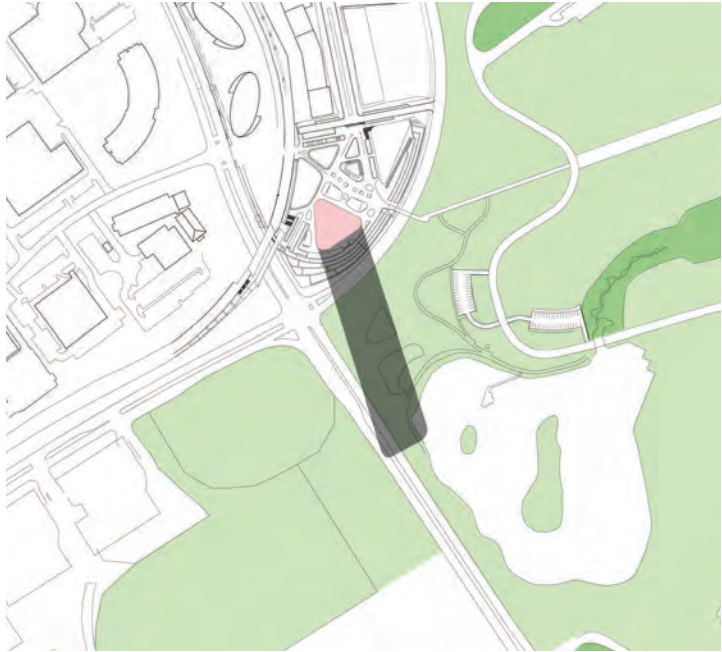
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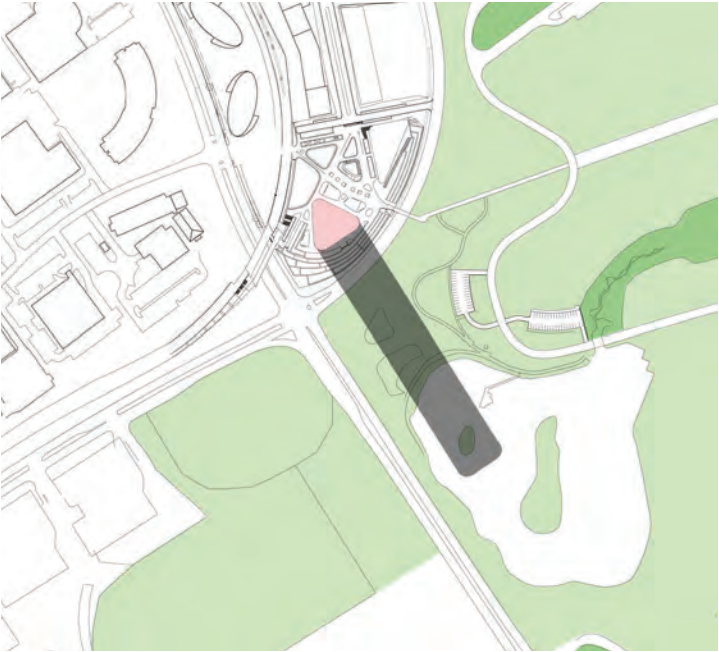
11AM



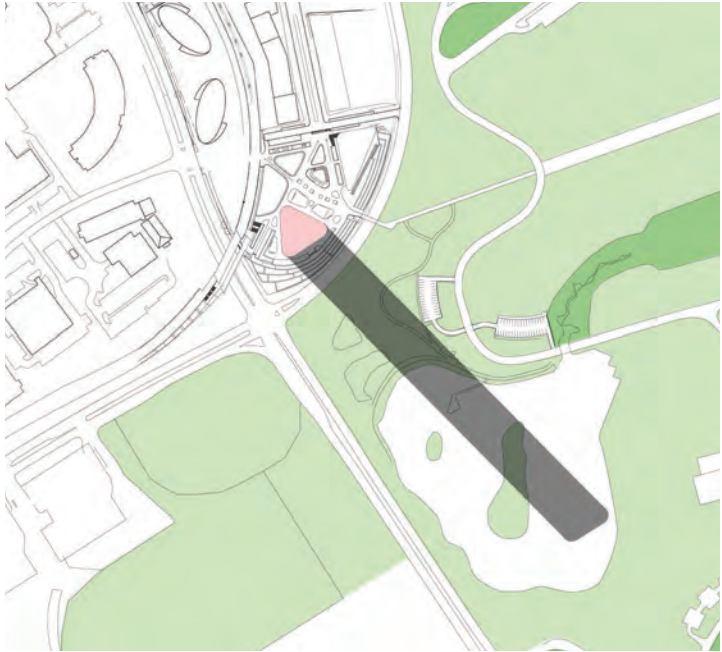
12PM



1PM



2PM



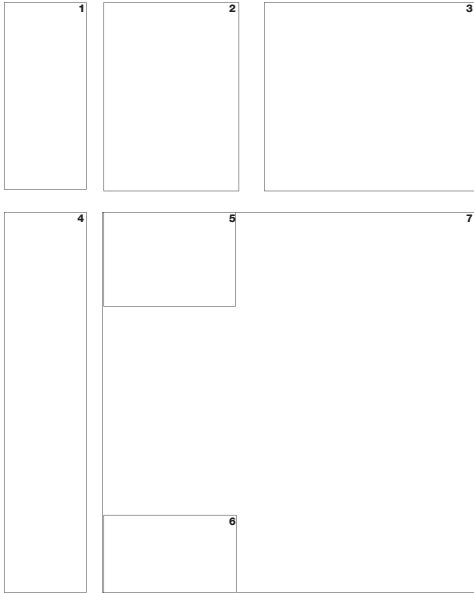
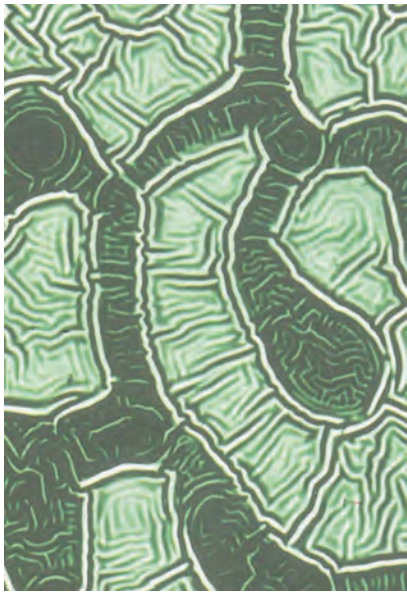
3PM



APPENDIX D

MATERIALS SAMPLE BOARD

MATERIALS SAMPLE BOARD



- PICTURED**
1. In-situ concrete with matt white paint finish.
 2. Ceramic frit pattern / printed inter-layer glass panels clad on all walls of vertical slots. Pattern to be designed by recognized artist.
 3. Terracotta spandrel panel, in natural eucalyptus inspired hues on all floors of the residential tower facade.
 4. Recycled timber vertical slats as barrier and screens to ground floor bike storage and public walkway interfaces.
 5. Satin Charcoal Grey anodized aluminium finish on all curtain wall and awning window mullions and frames; vertical slots horizontal louvres.
 6. Anodized aluminium finish to all horizontal sunshade panels.
 7. Double glazed curtain wall with green tint and low emissivity coating. (Glass size to be determined.)

Check all dimensions and site conditions prior to commencement of any work, the purchase or ordering of any materials, fittings, plant, services or equipment and the preparation of shop drawings and/or the fabrication of any components.

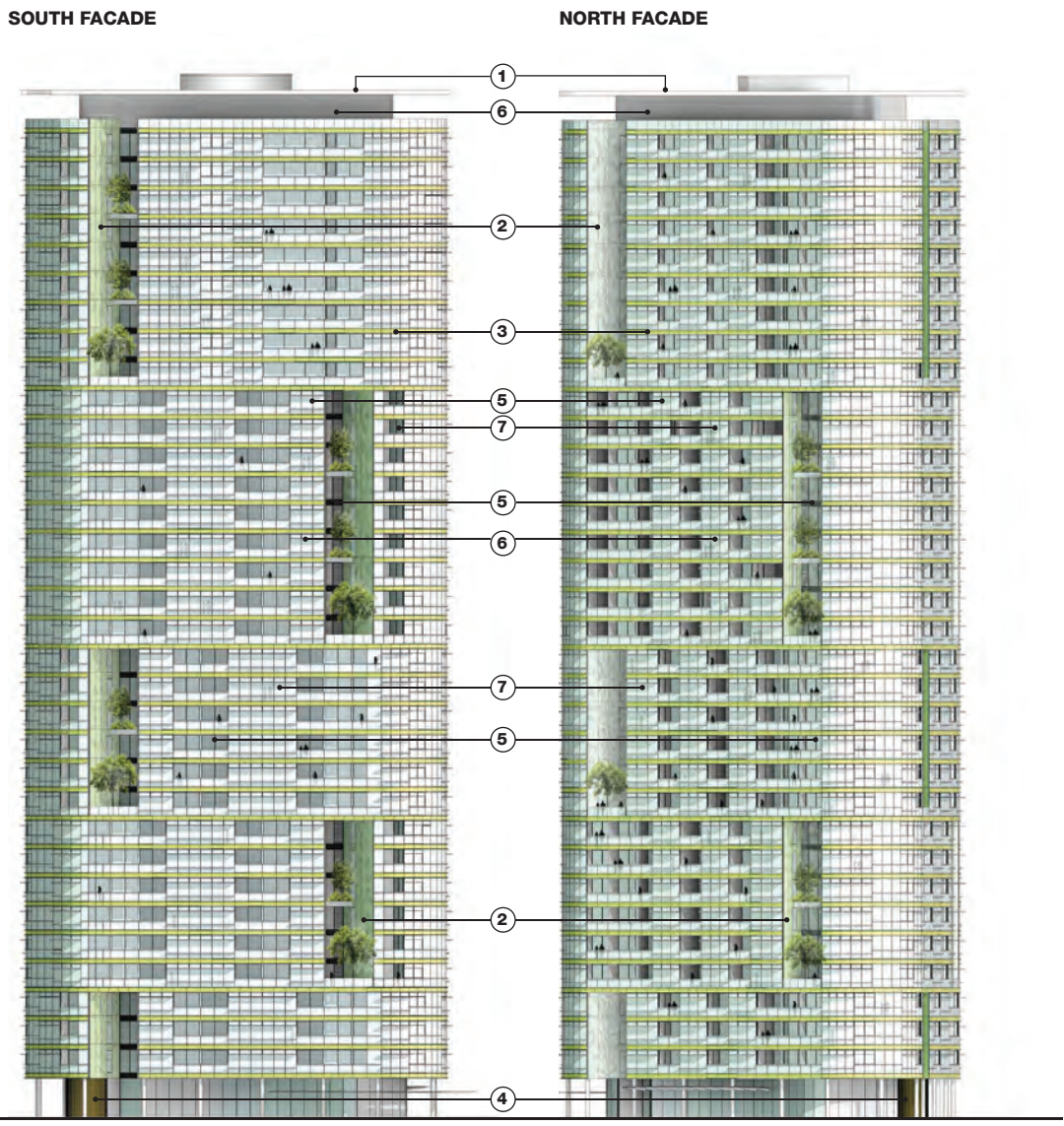
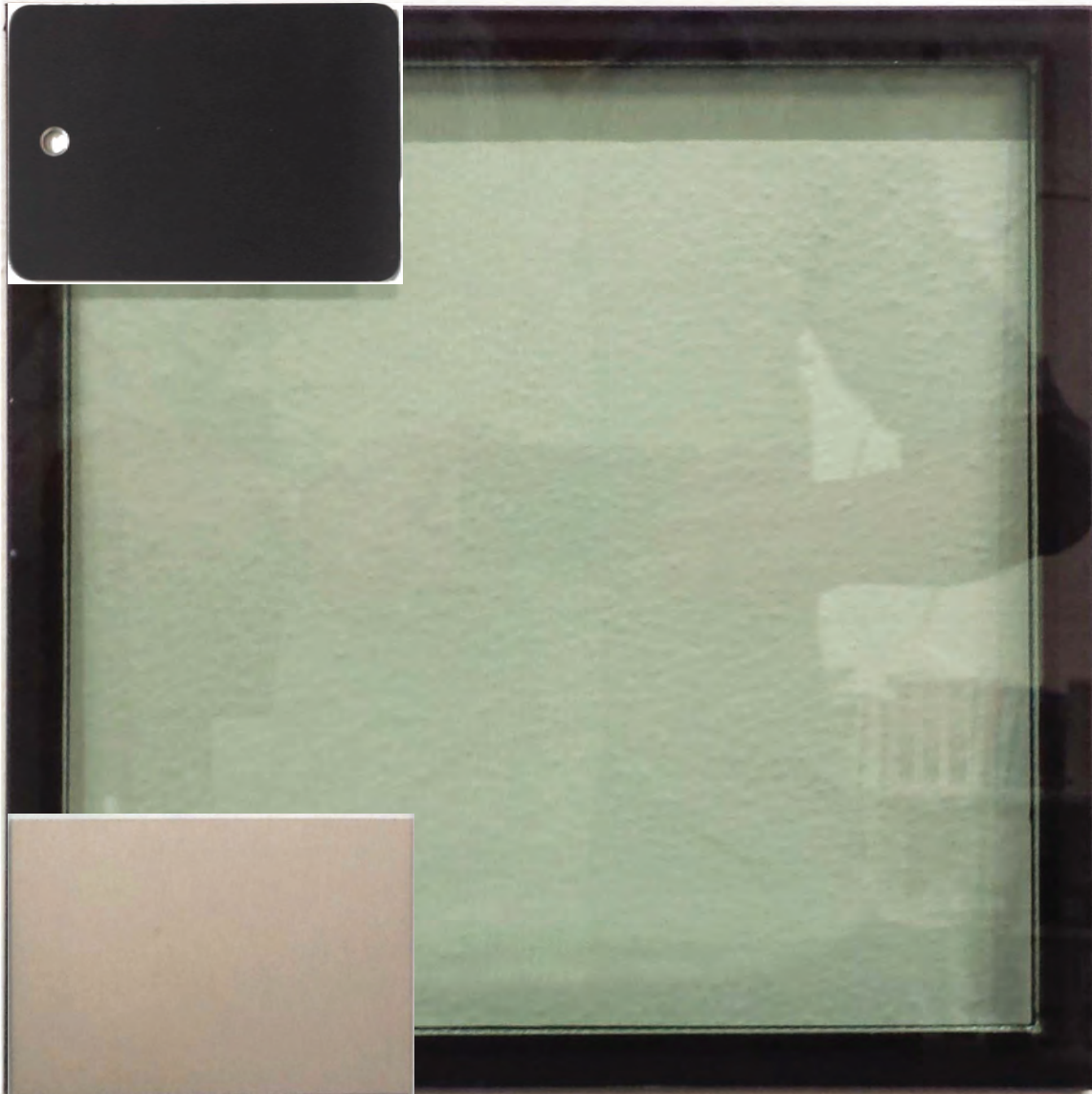
All drawings to be read in conjunction with all architectural documents and all other consultants documents.

Do not scale drawings - refer to figured dimensions only. Any discrepancies shall immediately be referred to the architect for clarification.

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Revision Summary:

NOT FOR CONSTRUCTION



01	05.09.14	For Information	KM	MLS
Revision	Date	Description	Initial	Checked

Site 68
Sydney Olympic Park

Materials Sample Board

Scale	NTS
Drawn	Checked
Project No.	S11611
Status	DA
Plot Date	16/9/2014 2:56 PM
Plot File	S:\11600-11699\11611_ecove_sop\site68\00_mats\cad\plots\DA...
Drawing No.	[Revision]

DA08.01[01]

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