

Draft Conditions

1. **Approved Plans/Documents.** Except where otherwise provided in this consent, the development is to be carried out strictly in accordance with the following plans (stamped approved by Council) and support documents:

Document Description	Date	Plan No/Reference
Site/Roof Plan	17/06/2016	A DA 100 001 Rev S3
Level B01 Plan	15/06/2016	A DA 110 B01 Rev S3
Level B02 Plan	15/03/2016	A DA 110 B02 Rev S3
Level B03 Plan	15/06/2016	A DA 110 B03 Rev S2
Ground Level Plan	01/08/2016	A DA 110 000 Rev S5
Level 1	16/03/2016	A DA 110 010 Rev S3
Level 2 (Typical Level 6)	01/08/2016	A DA 110 020 Rev S4
Level 3 (Typical Level 5)	16/03/2016	A DA 110 030 Rev S3
Level 7	16/03/2016	A DA 110 070 Rev S3
Level 8	16/03/2016	A DA 110 080 Rev S3
Level 9	16/03/2016	A DA 110 090 Rev S3
Level 10 (Typical Levels 11,15-16)	16/03/2016	A DA 110 100 Rev S3
Level 12 (Typical Levels 13, 17-19)	01/08/2016	A DA 110 120 Rev S4
Level 20 (Typical Level 20-23)	01/08/2016	A DA 110 200 Rev S2
Level 25	01/08/2016	A DA 110 250 Rev S4
Level Roof Plan	16/03/2016	A DA 110 260 Rev S2
Elevation South East (Herring Road)	16/06/2016	A DA 250 101 Rev S3
Elevation North East	16/03/2016	A DA 250 001 Rev S2
Elevation South West	16/03/2016	A DA 250 201 Rev S2
Elevation North West	16/03/2016	A DA 250 301 Rev S2
Section BB	16/03/2016	A DA 350 101 Rev S2
Section AA	16/03/2016	A DA 350 001 Rev S2
Material + Finishes Schedule	21/10/2015	A DA 390 001 Rev S1
Design Overview & Context Plan	28/04/16	LP-01 Rev J
Tree Management Plan	28/04/2016	LP-02 Rev J
Upper Level Planters	12/01/16	LP-05 Rev E
Planting Strategy	12/01/16	LP-06 Rev E
Panels	19/08/2016	Panels

Prior to the issue of the relevant **Construction Certificate**, the following amendments shall be made (as marked in red on the approved plans):

- (a) **Studies.** The proposed study rooms located in Apartments 1.06 and 1.09 and levels above (up to levels 8) and 10.07 and above (up to Level 23) are to be amended so that the room is not capable of being closed off and used as a bedroom. To do this it will be necessary to realign the storage cupboard to be against the bedroom or living room wall, as marked in red on Plans DA110_013 and DA11-_100 Rev S3. This will open up the area and prevent it from being closed off and used as a 2nd bedroom. The respective studies must have a clear glass panel as shown in Drawing - Panels dated 19 August 2016.
- (b) **Studies.** The studies in Apartments G.01, 1.01.1.02,1.03, 1.05,1.08 and levels above (up to level 8) are to be amended so that the room is not capable of being used as a bedroom by replacing the solid wall facing the hallway with a solid panel of 750mm high and clear glass panel above, as shown in Drawing- Panels dated 19 August 2016.
- (c) **Studies.** All studies within the development are to be provided with the internal joinery for the construction of a desk. Details demonstrating compliance is to be submitted on the relevant Construction Certificate plans.
- (d) **Wind Environment Statement.** A Wind Environment Statement, prepared by a consultant specialised in the analysis of wind, being submitted to Council prior to issue of Construction Certificate 2 (main building works). The statement is to state the likely impact of the proposed design on the local wind environment to the communal outdoor areas within and around the development. The proposal is not to create uncomfortable or unsafe wind conditions in the public domain which exceeds the Acceptable Criteria for Environmental Wind Conditions. If the proposal is found to create uncomfortable or unsafe wind condition, measures is to be undertaken to minimise any wind impacts, details of which are to be submitted and approved by Council.
- (e) **Amended Landscaping Plan.** Amended landscape plans which reflect the changes to the architectural drawing (Ground Level Plan A DA 110 000 Rev S5) are to be submitted to Council. In addition, the amended plans are to provide the following:
 - (i) To ensure that adequate number of replacement trees are provided, the exact number and locations of all trees proposed and their species are to be provided on site;
 - (ii) To minimise the visible impact of the substation appropriate screening as deemed appropriate and in accordance with Ausgrid requirements, are to be provided.

Revised plans demonstrating compliance with (d) & (e) above are to be submitted for approval by Council's Manager Assessment prior to the issue of Construction Certificate 2(for above ground works). Details demonstrating compliance with (a), (b) and (c) above are to be submitted on Construction Certificate 2 (for above ground works) plans.

- 2. **Building Code of Australia.** All building works approved by this consent must be carried out in accordance with the requirements of the Building Code of Australia.

3. **BASIX.** Compliance with all commitments listed in BASIX Certificate(s) numbered 593309M_07, dated 27 July 2016.
4. **Energy Efficiency.** The fittings, fixtures and materials installed in association with the retail/commercial component in the development (including but not limited to hot water systems, ceiling/roof insulation, shower heads, toilet cisterns and the like) shall comply with the requirements of Council's DCP. Details are to be noted on the plans submitted with the **Construction Certificate**.
5. **General Terms of approval (Department of Primary Industries Water).** The development is to be in accordance with the General Terms of Approval as granted by DPI Water, included as Attachment B of this consent.
6. **Support for neighbouring buildings.** If the development involves excavation that extends below the base of the footings of a building on adjoining land, the person having the benefit of the development consent must, at the person's own expense:
 - a. Protect and support the adjoining premises from possible damage from the excavation, and
 - b. Where necessary, underpin the adjoining premises to prevent any such damage, in accordance with relevant Australian Standards.
7. **Signage – not approved unless shown on plans.** This consent does not authorise the erection of any signs or advertising structures. Separate approval must be obtained from Council for any signs, unless such signage is "exempt development".
8. **Security Grilles.** This consent does not authorise the erection of any security grilles or barriers on the shopfront on Herring Road and the internal road. Metal or roller shutter doors are not permitted. Development consent is required for any security grilles or translucent barriers.
9. **Balconies:**
 - (a) **Balconies enclosure.** Balconies on the ten storey and above are not to be fully enclosed so as to allow adequate natural ventilation in accordance with the Apartment Design Guide.
 - (b) **Clothes drying.** No clothes drying on balconies in the public view are permitted.
10. **Hours of work.** Building activities (including demolition) may only be carried out between 7.00am and 7.00pm Monday to Friday (other than public holidays) and between 8.00am and 4.00pm on Saturday. No building activities are to be carried out at any time on a Sunday or a public holiday.
11. **Noise from construction and demolition work** - All feasible and reasonable measures must be implemented to minimise the emission of noise from demolition and construction work.

12. Hoardings.

- (a) A hoarding or fence must be erected between the work site and any adjoining public place.

13. Illumination of public place. Any public place within a 100m of the proposed building, affected by works must be kept lit between sunset and sunrise if it is likely to be hazardous to persons in the public place.

14. Staging of Construction Certificates. Notwithstanding any other condition of this consent, the consent permits separate Construction Certificates to be issued for the development and approved by this consent authority in stages, provided that all conditions of consent relevant to the development incorporated with each stage have been complied with prior to the release of the relevant Construction Certificate. The following stages for the Construction Certificates are as follow:

Construction Certificate 1

- Shoring.
- Excavation.

Construction Certificate 2 – Above ground works.

- Structure.
- Facades/ envelope.
- Public domain works.
- Services installation.
- Internal fit-out.

15. Development to be within site boundaries. The development must be constructed wholly within the boundaries of the premises. No portion of the proposed structure shall encroach onto the adjoining properties. Gates must be installed so they do not open onto any footpath.

16. Public space. The public way must not be obstructed by any materials, vehicles, refuse, skips or the like, under any circumstances, without prior approval from Council.

17. Public Utilities. Compliance with the requirements (including financial costs) of any relevant utility provider (e.g. Energy Australia, Sydney Water, Telstra, RMS, Council etc) in relation to any connections, works, repairs, relocation, replacements and/or adjustments to public infrastructure or services affected by the development.

18. Deleted.

19. Roads & Maritime Services. The layout of the proposed car parking areas associated with the subject development (including, driveways, grades, turn paths, sight distance requirements in relation to landscaping and/or fencing, aisle widths, aisle lengths, and parking bay dimensions) should be in accordance with AS 2890.1- 2004, AS2890.6-2009 and AS 2890.2 - 2002 for heavy vehicle usage.

20. Roads Act. Any works performed in, on or over a public road pursuant to this consent must be carried out in accordance with this consent and with the Road

Opening Permit issued by Council as required under section 139 of the Roads Act 1993.

21. **Plumbing and drainage work.** All plumbing and drainage work must be carried out in accordance with the requirements of Sydney Water Corporation and the NSW Department of Fair Trading.
22. **Installation of grease trap.** A grease trap must be installed if required by Sydney Water Corporation. The grease trap must be located outside the building or in a dedicated grease trap room and be readily accessible for servicing. Access through areas where exposed food is handled or stored or food contact equipment or packaging materials are handled or stored is not permitted.
23. **Traffic Management.** Traffic management procedures and systems must be in place and practised during the construction period to ensure safety and minimise the effect on adjoining pedestrian and vehicular traffic systems. These procedures and systems must be in accordance with AS 1742.3 1985 and City of Ryde, Development Control Plan 2014: - Part 8.1; Construction Activities.
Note: A plan of traffic management is to be submitted to and approved by the Consent Authority.
24. **Design and Construction Standards.** All engineering plans and work inside the property shall be carried out in accordance with the requirements of the relevant Australian Standard. All Public Domain works or modification to Council infrastructure which may be located inside the property boundary, must be undertaken in accordance with Council's 2014 DCP Part 8.5 (Public Domain Works), except otherwise as amended by conditions of this consent.
25. **Service Alterations.** All mains, services, poles, etc., which require alteration shall be altered at the applicant's expense.
26. **Restoration.** Public areas must be maintained in a safe condition at all times. Restoration of disturbed road and footway areas for the purpose of connection to public utilities will be carried out by Council following submission of a permit application and payment of appropriate fees. Repairs of damage to any public stormwater drainage facility will be carried out by Council following receipt of payment. Restoration of any disused gutter crossings will be carried out by Council following receipt of the relevant payment.
27. **Construction and fit-out of food premises.** Any proposed food premises (other than retail meat premises) must be constructed and fitted-out in accordance with the requirements of:
 - (a) Food Safety Standard 3.2.3: *Food Premises and Equipment*; and
 - (b) Australian Standard AS 4674-2004: *Design, construction and fit-out of food premises*.

The walls of any proposed food premises must be constructed of brick, concrete blocks, preformed panels filled with suitable material or other solid materials.

28. **Certification.** A Tree Protection Schedule, as indicated below, which provides a logical sequence of hold points for the various development stages including pre construction, construction and post construction and a checklist of various hold points that are to be signed and dated by the Project Arborist. This is to be completed progressively and included as part of the final certification. A copy of the final certification is to be made available to the City of Ryde Council prior to the issue of any Occupation Certificate.

1.	Indicate clearly (with spray paint on trunks) trees approved for removal only	Principal Contractor	Project Arborist	Prior to demolition and site establishment
2.	Establishment of tree protection fencing	Principal Contractor	Project Arborist	Prior to demolition and site establishment
3.	Supervise all excavation works proposed within the TPZ	Principal Contractor	Project Arborist	As required prior to the works proceeding adjacent to the tree
4.	Inspection of trees by Project Arborist	Principal Contractor	Project Arborist	Bi-monthly during construction period
5.	Final inspection of trees by project Arborist	Principal Contractor	Project Arborist	Prior to issue of Occupation Certificate

PRIOR TO CONSTRUCTION CERTIFICATE

A Construction Certificate must be obtained from a Principal Certifying Authority to carry out the relevant building works approved under this consent. All conditions in this Section of the consent must be complied with before a Construction Certificate can be issued.

Council Officers can provide these services and further information can be obtained from Council's Customer Service Centre on 9952 8222.

B Unless an alternative approval authority is specified (eg Council or government agency), the Principal Certifying Authority is responsible for determining compliance with the conditions in this Section of the consent.

Details of compliance with the conditions, including plans, supporting documents or other written evidence must be submitted to the Principal Certifying Authority.

29. **Section 94.** A monetary contribution for the services in Column A and for the amount in Column B shall be made to Council as follows:

A – Contribution Type	B – Contribution Amount
Community & Cultural Facilities	\$479,258.94
Open Space & Recreation Facilities	\$1,914,045.24
Civic & Urban Improvements	\$248,294.73
Roads & Traffic Management Facilities	\$268,620.36
Cycleways	\$34,328.23
Stormwater Management Facilities	\$30,643.06
Plan Administration	\$9,253.79
The total contribution is	\$2,984,444.35

These are contributions under the provisions of Section 94 of the Environmental Planning and Assessment Act, 1979 as specified in Section 94 Development Contributions Plan 2007 Interim Update (2014), effective from 10 December 2014.

The above amounts are current at the date of this consent, and are subject to **quarterly** adjustment for inflation on the basis of the contribution rates that are applicable at time of payment. Such adjustment for inflation is by reference to the Consumer Price Index published by the Australian Bureau of Statistics (Catalogue No 5206.0) – and may result in contribution amounts that differ from those shown above.

The contribution must be paid **prior to the issue of any Construction Certificate**. Payment may be by EFTPOS (debit card only), CASH or a BANK CHEQUE made payable to the **City of Ryde**. Personal or company cheques will not be accepted.

A copy of the Section 94 Development Contributions Plan may be inspected at the Ryde Planning and Business Centre, 1 Pope Street Ryde (corner Pope and Devlin Streets, within Top Ryde City Shopping Centre) or on Council's website <http://www.ryde.nsw.gov.au>.

30. **Compliance with Australian Standards.** The development is required to be carried out in accordance with all relevant Australian Standards. Details demonstrating compliance with the relevant Australian Standard are to be submitted to the Principal Certifying Authority prior to the issue of any **Construction Certificate**.
31. **Structural Certification.** The applicant must engage a qualified practising structural engineer to provide structural certification in accordance with relevant BCA requirements prior to the release of the **Construction Certificate** (for above ground works).
32. **Security deposit.** The Council must be provided with security for the purposes of section 80A(6) of the *Environmental Planning and Assessment Act 1979* in a sum determined by reference to Council's Management Plan prior to the release

of any **Construction Certificate**. (category other buildings with delivery of bricks or concrete or machine excavation)

33. **Fees.** The following fees must be paid to Council in accordance with Council's Management Plan prior to the release of any **Construction Certificate**:
- (a) Infrastructure Restoration and Administration Fee
 - (b) Enforcement Levy
34. **Long Service Levy.** Documentary evidence of payment of the Long Service Levy under Section 34 of the Building and Construction Industry Long Service Payments Act 1986 is to be submitted to the Principal Certifying Authority prior to the issuing of any **Construction Certificate**.
35. **Sydney Water Tap in™.** The approved plans must be submitted to the Sydney Water Tap in™ on-line service to determine whether the development will affect any Sydney Water sewer or water main, stormwater drains and/or easement, and if further requirements need to be met.

The Sydney Water Sydney Water Tap in™ service provides 24/7 access to a range of services, including:

- building plan approvals
- connection and disconnection approvals
- diagrams
- trade waste approvals
- pressure information
- water meter installations
- pressure boosting and pump approvals
- changes to an existing service or asset, eg relocating or moving an asset.

Sydney Water's [Tap in™](https://www.sydneywater.com.au/SW/plumbing-building-developing/building-sydney-water-tap-in/index.htm) online service is available at:
<https://www.sydneywater.com.au/SW/plumbing-building-developing/building-sydney-water-tap-in/index.htm>

36. **Public Arts Plan.** A public art is to be provided as part of the proposed development in accordance with Council's Public Art Policy. A Public Arts Plan is to be submitted for approval by Council prior to the issue of **Construction Certificate** (for above ground works). The public art shall be equal to approximately 1% of the estimated total construction cost and is to be prepared by an arts and cultural planner and will be required to address the following:
- Identify opportunities for the integration of public art in the proposed development;
 - Identify themes for public art consistent with Part 4.2 of DCP2014 & options considered;
 - Submission of the detailed proposal demonstrating that the scale of the public art is appropriate and proportionate to the development and thoughtfully sited &

integrated with the building to create a point of interest and define the location of area;

- The proposal should provide a program for installation and integration with the construction program for the development. Construction must be completed prior to the issue of Occupation Certificate;
- The proposal should provide engineer's drawings and demonstrate:
 - Australian building standards requirements and codes for the structural design;
 - Sound practices for fabrication and construction, and materials appropriate for application;
 - Materials and all components have appropriate durability, and a functional life in excess of the designated life span of the work.

37. **Reflectivity of materials.** Roofing and other external materials must be of low glare and reflectivity. Details of finished external surface materials, including colours and texture must be provided to the Principal Certifying Authority prior to the release of the **Construction Certificate** (for above ground works).

38. **Lighting of common areas (driveways etc).** Lighting is to be provided around the site. Details of lighting for internal driveways, visitor parking areas and the street frontage shall be submitted for approval prior to issue of the **Construction Certificate** (for above ground works). The details to include certification from an appropriately qualified person that there will be no offensive glare onto adjoining residents. All lighting is to comply with the following requirements:

- Lighting is to be designed and installed in accordance with the relevant Australian and New Zealand Lighting Standards.
- A Lighting Maintenance Policy is required to outline the maintenance, monitoring and operation of lighting.
- Lighting is to be provided to all common areas including all car parking levels, stairs and access corridors and communal gardens.
- Lighting is to be automatically controlled by time clocks and where appropriate, sensors for energy efficiency and a controlled environment for residents.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of an Occupation Certificate.

39. **Design verification.** Prior to a Construction Certificate (for above ground works) being issued with respect to this development, the Principle Certifying Authority is to be provided with a written Design Verification from a qualified designer. This statement must include verification from the designer that the plans and specification achieve or improve the design quality of the development to which this consent relates, having regard to the design quality principles set out in Part 2 of *State Environmental Planning Policy No. 65 – Design Quality of Residential Flat Development*. This condition is imposed in accordance with Clause 143 of the *Environmental Planning and Assessment Regulation 2000*.

40. **Compliance with Acoustic Report.** The development is to comply with the recommendations contained in the Acoustic Report prepared by Acoustics Logic dated 10 December 2014 and all other relevant BCA acoustic requirements. Details demonstrating compliance are to be submitted on the Construction Certificate (for above ground works) plans.
41. **Road traffic noise.** The building must be designed and constructed so that the road traffic noise levels inside the building comply with the noise criteria specified in *Development Near Rail Corridors and Busy Roads – Interim Guideline* (Department of Planning, 2008).
42. **Compliance with Access Report.** The amended development is to comply with the requirements contained in the Statement of Compliance Access for People with a Disability prepared by Accessible Building Solutions and all other relevant BCA access requirements. Details demonstrating compliance are to be submitted on the Construction Certificate (for above ground works) plans.
43. **Adaptable Units.** Twenty (20) adaptable apartments, each with an allocated disabled parking space, are to be provided within the development. These apartments are to comply with all of the requirements as outlined in AS4299. Details demonstrating compliance is to be provided on the Construction Certificate plans. Prior to the issue of the Construction Certificate (for above ground works), a suitably qualified access consultant is to certify that the development achieves the requirements of AS4299.
44. **Storage.** Each residential unit is to be provided with the minimum internal storage area as required by the Apartment Design Guide. Details of the location of the storage and dimensions of the storage areas are to be provided on the Construction Certificate plans. The architect is to verify in writing that the development complies prior to the issue of the Construction Certificate (for above ground works).
45. **Vehicular entry.** The vehicular entries are to have high quality finishes and detailing to the walls and ceiling. Service ducts or pipes are to be covered and not visible from any public domain. Details demonstrating compliance is to be submitted on the Construction Certificate (for above ground works) plans.
46. **BASIX Details to be included on the Construction Certificate.** The Construction Certificate (for above ground works) plans and specifications are to detail all of the 'CC plan' commitments of the BASIX Certificate.
47. **Soil Depth over Structures.** Where planting is proposed over a structure, the development is to achieve the minimum standards for soil provision suitable to the proposed planting, as contained within the Apartment Design Guide. Information verifying that the development complies with these requirements to be provided on the Construction Certificate (for above ground works) plans.
48. **Irrigation.** An automatic watering system is to be supplied to all landscape areas including common areas, private open spaces to ensure adequate water is

available to lawns and vegetation. Irrigation systems shall be fully automated and capable of seasonal adjustments. Details are to be submitted prior to the issue of Construction Certificate (for above ground works).

49. **Evidence of connection by gravity flow.** Documentary evidence from a professional hydraulic engineer or other suitably qualified person demonstrating that all of the premises will be connected directly to the sewerage system by gravity flow must be submitted with the application for the Construction Certificate (for above ground works).
50. **Ventilation of Car park:** The basement car park must be provided with an adequate system of natural or mechanical ventilation complying with Building Code of Australia. Any ventilation screens are to be integrated into the façade and landscape design. Details to be submitted to the PCA prior to the issue of the Construction Certificate (for above ground works).
51. **Provision of Traffic Mirrors.** The proposed basement car park ramps have insufficient width to allow passing movements for vehicular traffic. As such, a system of traffic mirrors shall be provided at the entrance and between each level to manage traffic circulation to provide full visibility to vehicles entering and exiting the site and circulation between basement levels. Details to be submitted to the PCA prior to the issue of the Construction Certificate (for above ground works).
52. **Vehicle Access & Parking.** All internal driveways, vehicle turning areas, garages and vehicle parking space/ loading bay dimensions must be designed and constructed to comply with the relevant section of AS 2890 (Offstreet Parking standards).

With respect to this, the following revision(s) must be undertaken;

- a) The disabled spaces located on each level, at the western end of the southern-most row of parking, each have a shared area which does not comply with the minimum clear width requirements of AS 2890.6 (ie 2.4m). To address this, both spaces are to swapped with the next standard space on the western side of the row of adjacent disabled spaces, which happens to adjoin a shared area of sufficient width, as shown on the attached plan, Attachment C.
- b) The intercom / access control to the basement garage on the driveway entry must be located to ensure vehicles utilising the facility stand wholly inside the proposed boundary (estimated 4.5m from the boundary alignment) to ensure there is no encroachment and blocking of the footpath area of the future road.

These amendment(s) must be clearly marked on the plans submitted to the Accredited Certifier prior to the issue of the relevant **Construction Certificate** (for above ground works).

53. **Public domain improvements.** The public domain is to be upgraded along the Herring Road frontage of the development site in accordance with the City of Ryde Public Domain Technical Manual Chapter 6: Macquarie Park Corridor. This work is to include paving, multifunction light poles, street furniture and plantings.

A public domain plan for the following works shall be submitted to, and approved by Council's City Works & Infrastructure, prior to the issue of the **Construction Certificate** (for above ground works).

- (a) Footpath paving as specified in the condition of consent for public infrastructure works.
- (b) Deleted.
- (c) Street trees to be provided in accordance with the Macquarie Park Street Tree Master Plan. Refer to Council's Open Space Planning and Design Team for appropriate trees.

Note: In designing the street tree layout, the consultant shall check and ensure that all new street trees are positioned such that there are no conflicts with the proposed street lights, utilities and driveway accesses. The proposed street lights will have priority over the street trees. All costs associated with the removal of existing street trees, where required, will be borne by the Developer.

- (d) All telecommunication and utility services are to be placed underground along the Herring Road frontage. Plans are to be prepared and certified by a suitably qualified Electrical Design Consultant for upgrading the existing network and constructing the new network; and are to be submitted to Council and relevant utility authorities for approval prior to commencement of work.
- (e) New street lighting serviced by metered underground power and on multifunction poles (MFPs) shall be designed and installed to Australian Standard AS1158:2010 *Lighting for Roads and Public Spaces*, with vehicular luminance category V3 and pedestrian luminance category P2 along Herring Road.

One new street light on a multi-function pole (MFP) will be required along Herring Road frontage of the site. Lighting upgrade shall be in accordance with the City of Ryde Public Domain Technical Manual Chapter 6 – Macquarie Park Corridor. The consultant shall liaise with Council's City Works and Infrastructure Directorate in obtaining Council's requirements and specifications for the MFP and components, including the appropriate LED luminaire and location of the meter boxes.

Plans are to be prepared and certified by a suitably qualified Electrical Design Consultant and submitted to, and approved by Council's City Works & Infrastructure prior to lodgement of the scheme with Ausgrid for their approval.

Note: Council has prepared a design guide and schema for the provision of the street lighting on MFPs. A copy of the design guide and schema can be made available to the Electrical Design Consultant upon request to Council's City Works and Infrastructure Directorate.

54. **Public Infrastructure Works.** Public infrastructure works shall be constructed as outlined in this condition of consent, and must be completed to Council's satisfaction at no cost to Council, prior to the issue of any Occupation Certificate.

Engineering drawings prepared by a Chartered Civil Engineer (registered on the NER of Engineers Australia) are to be submitted to, and approved by Council's City Works and Infrastructure prior to the issue of a Construction Certificate (for above ground works). The works shall be in accordance with City of Ryde DCP 2014 Part 8.5 - Public Civil Works, and DCP 2014 Part 8.2 - Stormwater Management, where applicable.

The drawings shall include plans, sections, existing and finished surface levels, drainage pit configurations, kerb returns and other relevant details for the new works and also demonstrate the smooth connection of the proposed road works into the remaining street scape.

- (a) The access road at the Herring Road frontage of the development site to be designed and constructed within the 20m road reserve of the future Council Road 3 in accordance with the City of Ryde DCP 2014 Part 4.5 Macquarie Park Corridor, *Part 8.5 - Public Civil Works* and the City of Ryde Public Domain Technical Manual PDTM Chapter 6: Macquarie Park Corridor.
- (b) The removal of all redundant vehicular crossings and replacement with new kerb and gutter along the Herring Road frontage of the site.
- (c) The construction of new kerb and gutter along the Herring Road frontage of the development site. Proposed kerb profiles are to be provided to ensure proper connections to existing kerb and gutter along Herring Road.
- (d) Construction of full width granite footway along the Herring Road frontage of the development site in accordance with the City of Ryde Public Domain Technical Manual Chapter 6 – Macquarie Park Corridor.
- (e) The relocation/adjustment of all public utility services affected by the proposed works. Written approval from the applicable Public Authority shall be submitted to Council and their requirements being fully complied with.

Notes:

- 1. The Applicant is advised to consider the finished levels of the public domain, including new or existing footpaths, prior to setting the floor levels for the proposed building.
- 2. Prior to submission to Council, the Applicant is advised to ensure that the drawings are prepared in accordance with the standards listed in the City of Ryde DCP 2014 Part 8.5 - Public Civil Works, Section 5 "Standards Enforcement".

55. **Public Domain Works – Maintenance Bond.** To ensure satisfactory performance of the required public domain works, a maintenance period of six (6) months shall apply to the works for which Council will take ownership of, on

completion of the development. The maintenance period shall commence from the date of issue by Council, of the Compliance Certificate. The applicant shall be liable for any part of the work which fails to perform in a satisfactory manner as outlined in Council's standard specification. A bond in the form of a cash deposit or Bank Guarantee of \$10,000 shall be lodged with the City of Ryde prior to the issue of any Construction Certificate to guarantee this requirement will be met. The bond will only be refunded when the works are determined to be satisfactory to Council after the expiry of the six (6) months maintenance period.

56. Road Activity Permits. To carry out work in, on or over a public road, the Consent of Council is required as per the *Roads Act 1993*. Prior to issue of any Construction Certificate and commencement of any work, permits for the following activities, as required and as specified in the form "*Road Activity Permits Checklist*" (available from Council's website) are to be obtained and copies submitted to Council with the *Notice of Intention to Commence Work*.

- a) Road Use Permit - The applicant shall obtain a Road Use Permit where any area of the public road or footpath is to be occupied as construction workspace, other than activities covered by a Road Opening Permit or if a Work Zone Permit is not obtained. The permit does not grant exemption from parking regulations.
- b) Work Zone Permit - The applicant shall obtain a Work Zone Permit where it is proposed to reserve an area of road pavement for the parking of vehicles associated with a construction site. Separate application is required with a Traffic Management Plan for standing of construction vehicles in a trafficable lane. A Roads and Maritime Services Work Zone Permit shall be obtained for State Roads.
- c) Road Opening Permit - The applicant shall apply for a road-opening permit and pay the required fee where a new pipeline is to be constructed within or across the road pavement or footpath. Additional road opening permits and fees are required where there are connections to public utility services (e.g. telephone, telecommunications, electricity, sewer, water or gas) within the road reserve. No opening of the road or footpath surface shall be carried out without this permit being obtained and a copy kept on the site.
- d) Elevated Tower, Crane or Concrete Pump Permit - The applicant shall obtain an Elevated Tower, Crane or Concrete Pump Permit where any of these items of plant are placed on Council's roads or footpaths. This permit is in addition to either a Road Use Permit or a Work Zone Permit.
- e) Crane Airspace Permit - The applicant shall obtain a Crane Over Airspace Permit where a crane on private land is operating in the air space of a Council road or footpath. Approval from the Roads and Maritime Services for works on or near State Roads is required prior to lodgement of an application with Council. A separate application for a Work Zone Permit is required for any construction vehicles or plant on the adjoining road or footpath associated with use of the crane.

- f) Hoarding Permit - The applicant shall obtain a Hoarding Permit and pay the required fee where erection of protective hoarding along the street frontage of the property is required. The fee payable is for a minimum period of 6 months and should the period is extended an adjustment of the fee will be made on completion of the works. The site must be fenced to a minimum height of 1.8 metres prior to the commencement of construction and throughout demolition and/or excavation and must comply with WorkCover (New South Wales) requirements.
 - g) Skip Bin on Nature Strip - The applicant shall obtain approval and pay the required fee to place a Skip Bin on the nature strip where it is not practical to locate the bin on private property. No permit will be issued to place skips.
57. **Boundary alignment Levels** - The applicant is to apply to Council for site specific boundary alignment levels prior to the issue of the Construction Certificate (for above ground works) for the Public Domain works. The application shall be accompanied by engineering plans of civil works along the frontage of the development site. The Council issued levels shall be incorporated into the design of the internal areas accessible for pedestrians. Fees are payable in accordance with Council's Schedule of Fees & Charges at the time of the application.
58. **Stormwater Management.** Stormwater runoff from the development shall be collected and piped by gravity flow to the inground drainage infrastructure fronting the property in Herring Road, generally in accordance with the plans by Sellick Consultants (Refer to Job No. 140821 dated 28 January 2015) subject to the following variation(s), as marked on red on the approved plan;
- The properties drainage system must discharge directly to the inground drainage system (the kerb inlet pit) in Herring Road. The discharge must comply with Councils DCP Part 8.2 with a discharge line no greater than 225mm diameter.
 - The design of the OSD system must comply with Council's DCP. From the approved plan, the net level of impervious area draining to the system is 1562m² (1668m² total).
 - Connection to the public drainage infrastructure will require a road opening permit. Plans detailing these works are to be provided with the permit application and Council's Public Works is to inspect the connection prior to backfill. This is to be noted on the detailed plans.

The detailed plans, documentation and certification of the drainage system must be submitted with the application for a Construction Certificate (for above ground works), prepared by a chartered civil engineer and comply with the following;

- The certification must state that the submitted design (including any associated components such as WSUD measures, pump/ sump, absorption, onsite dispersal, charged system) are in accordance with the requirements of AS 3500.3 (2003) and any further detail or variations to the design are in accordance with the requirements of Council's DCP 2014 Part 8.2 (Stormwater and Floodplain Management) and associated annexures.

- The submitted design is consistent with the approved architectural and landscape plan and any revisions to these plans required by conditions of this consent.
- Onsite detention must be incorporated in the stormwater management system having a minimum SSR of 45.87 m³ and a maximum PSD of 37.83 L/s based on an approximate 1562m² of 1668m² impervious area draining to the tank. Any variations to these values attributed to changes required by conditions of this consent, must be in accordance with Council's DCP requirements for onsite detention and must be validated in the certification of the design required by this condition.

59. **Erosion and Sediment Control Plan.** An Erosion and Sediment Control Plan (ESCP) must be prepared by a suitably qualified consultant, detailing soil erosion control measures to be implemented during construction. The ESCP is to be submitted with the application for any Construction Certificate. The ESCP must be in accordance with the manual "*Managing Urban Stormwater: Soils and Construction*" by NSW Department – Office of Environment and Heritage and must contain the following information;

- Existing and final contours
- The location of all earthworks, including roads, areas of cut and fill
- Location of all impervious areas
- Location and design criteria of erosion and sediment control structures,
- Location and description of existing vegetation
- Site access point/s and means of limiting material leaving the site
- Location of proposed vegetated buffer strips
- Location of critical areas (drainage lines, water bodies and unstable slopes)
- Location of stockpiles
- Means of diversion of uncontaminated upper catchment around disturbed areas
- Procedures for maintenance of erosion and sediment controls
- Details for any staging of works
- Details and procedures for dust control.

The ESCP must be submitted with the application for any Construction Certificate for excavation works. This condition is imposed to protect downstream properties, Council's drainage system and natural watercourses from sediment build-up transferred by stormwater runoff from the site.

60. **Construction Traffic Management Plan.** As a result of the site constraints, limited vehicle access and parking, a Construction Traffic Management Plan (CTMP) and report shall be prepared by an RMS accredited person and submitted to and approved by Council prior to issue of any Construction Certificate.

The CTMP must:-

- i. Make provision for all construction materials to be stored on site, at all times.
- ii. Specify construction truck routes and truck rates. Nominated truck routes are to be distributed over the surrounding road network where possible.

- iii. Provide for the movement of trucks to and from the site, and deliveries to the site. Temporary truck standing/ queuing locations in a public roadway/ domain in the vicinity of the site are not permitted unless approved by Council's Public Works.
- iv. Include a Traffic Control Plan prepared by an RMS accredited traffic controller for any activities involving the management of vehicle and pedestrian traffic. Specify that a minimum Fourteen (14) days notification must be provided to adjoining property owners prior to the implementation of any temporary traffic control measure
- v. Include a site plan showing the location of any site sheds, location of requested Work Zones, anticipated use of cranes and concrete pumps, structures proposed on the footpath areas (hoardings, scaffolding or shoring) and any tree protection zones around Council street trees.
- vi. Take into consideration the combined construction activities of other development in the surrounding area. To this end, the consultant preparing the CTMP must engage and consult with developers undertaking major development works within a 250m radius of the subject site to ensure that appropriate measures are in place to prevent the combined impact of construction activities, such as (but not limited to) concrete pours, crane lifts and dump truck routes. These communications must be documented and submitted to Council prior to work commencing on site.
- vii. The CTMP shall be prepared in accordance with relevant sections of Australian Standard 1742 – "Manual of Uniform Traffic Control Devices", RMS's Manual – "Traffic Control at Work Sites" and Councils DCP 2014 Part 8.1 (Construction Activities).
- viii. All fees and charges associated with the review of this plan is to be in accordance with Council's Schedule of Fees and Charges and are to be paid at the time that the Construction Traffic Management Plan is submitted.

NOTE: This condition is to ensure public safety and minimise any impacts to the adjoining pedestrian and vehicular traffic systems. The CTMP is intended to minimise impact of construction activities on the surrounding community, in terms of vehicle traffic (including traffic flow and parking) and pedestrian amenity adjacent the site.

61. Internal Road Alignment and Loading Bay – Council Approval. To ensure safe access and integration between the site access and the intersection of Herring Road, the following amendments and requirements to the internal driveway, loading bay and footpath must be implemented. Plans are to be submitted with the application for a Construction Certificate (for above ground works) and the upgrade of the public domain along the Herring Road frontage as required by the Condition 53 "Public Infrastructure Works". These amendments and requirements are as follows:

- a) To facilitate efficient servicing of the development, the indented loading bay is to be extended approximately 3 metre west such that service vehicles can stand fronting the waste holding room.
- b) Raised kerb must be provided instead of the flush kerb at the indented loading bay. The area immediately at the back of the indented loading bay

may be mountable, if required, to assist with vehicle manoeuvrability of large vehicles.

- c) The internal driveway kerb alignment must be modified to accommodate the vehicle swept path of Council's Waste vehicle (11 metre in length) using minimum turning circle of 25 metres with clearances of 300mm to the kerbs.
- d) To ensure the continuation of pedestrian amenity is maintained from the Herring Road frontage, all footpaths adjoining the internal driveway, as shown on the approved architectural plans DA _110+000 Rev S5, must be concrete paved, be no less than 1.4 metre wide and provide a minimum 1% fall to the internal driveway.
- e) To ensure the conveyance of stormwater runoff from the internal driveway is directed safely to the public road drainage infrastructure in Herring Road, consistent with runoff in the public domain, the internal driveway must be bounded by concrete kerbs having dimensions complying with Council's specification.
- f) The vehicle entry to the property from the internal driveway must implement a formed gutter crossover at the kerb alignment and driveway access ramp. This is to ensure there is clear demarcation of pedestrian pathways across the vehicle entry and as a traffic calming measure for vehicles entering/exiting the basement parking area.
- g) The road side loading bay must cater for the size of the City of Ryde Waste Vehicles for a Large rigid truck - minimum height 4m, minimum length 11m, maximum weight 24 tonne and minimum turning circle of 25m.

Detailed engineering plans, including a plan view, footpath & kerb long sections and typical cross-sections, prepared by a Civil engineer shall be submitted with the documentation required by the Condition 53 "Public Infrastructure Works" so as to demonstrate compliance with this condition.

62. Garbage and recycling room – Design requirements. All garbage and recycling rooms must be constructed in accordance with the following requirements:

- (a) The room must be of adequate dimensions to accommodate all waste containers, and any compaction equipment installed, and allow easy access to the containers and equipment for users and servicing purposes;
- (b) The floor must be constructed of concrete finished to a smooth even surface, coved to a 25mm radius at the intersections with the walls and any exposed plinths, and graded to a floor waste connected to the sewerage system;
- (c) The floor waste must be provided with a fixed screen in accordance with the requirements of Sydney Water Corporation;
- (d) The walls must be constructed of brick, concrete blocks or similar solid material cement rendered to a smooth even surface and painted with a light coloured washable paint;

- (e) The ceiling must be constructed of a rigid, smooth-faced, non-absorbent material and painted with a light coloured washable paint;
- (f) The doors must be of adequate dimensions to allow easy access for servicing purposes and must be finished on the internal face with a smooth-faced impervious material;
- (g) Any fixed equipment must be located clear of the walls and supported on a concrete plinth at least 75mm high or non-corrosive metal legs at least 150mm high;
- (h) The room must be provided with adequate natural ventilation direct to the outside air or an approved system of mechanical ventilation;
- (i) The room must be provided with adequate artificial lighting; and a hose with a trigger nozzle must be provided in or adjacent to the room to facilitate cleaning

Details of the final waste storage and handling facilities must be submitted to and approved by Council's Waste Department before the issue of a Construction Certificate (for above ground works). Details of the proposed garbage room area must be submitted for approval with the application for the Construction Certificate (for above ground works). Such details must include:

- (a) the specifications and layout of all proposed waste storage and handling equipment;
- (b) details of the separate commercial waste storage areas; and
- (c) the access to the collection point.

All waste storage areas which have a doorway must be wide enough to allow the bins allocated to the property to fit through the opening including the door.

1100L Bins – width 1.4m, depth 1.1m, height 1.4m

(660L Bins – width 1.3m, depth 0.8m, height 1.3m

63. Accessibility – Ground floor waste room. Access is required for residents on the ground floor to waste and recycling bins without the need to enter the bin storage room. Plans demonstrating this shall be prepared by the applicant and be submitted to and approved by Council's Waste Officer prior to the issue of the Construction Certificate (for above ground works).

64. Accessibility – Bulky Waste Storage Room.

- (a) The walkway for residents to the bulky waste storage room shall be line marked to ensure that bins do not block access to the bulky waste storage room. Signs are to be provided to for residents to take bulky waste items to the storage area via the outside doorway.
- (b) The Bulky Waste Storage Room is to be caged off to ensure items do not block access to service the bins for the waste contractors.

Plans demonstrating this shall be prepared and be submitted to Council's Waste Officer prior to the issue of the Construction Certificate (for above ground works).

65. Noise Management Plan. Where demolition or construction activities are likely to cause significant noise or vibration (eg. jackhammering, rock breaking or impact piling) a noise management plan must be prepared by a suitably qualified acoustical consultant and be submitted to the Principal Certifying Authority before the issue of any Construction Certificate. The plan must be prepared in accordance with the Interim Construction Noise Guideline (DECC, 2009) and include:

- (a) Identification of nearby affected residences or other sensitive receivers.
- (b) An assessment of the expected noise impacts.
- (c) Details of the work practices required to minimise noise impacts.
- (d) Noise monitoring procedures.
- (e) Procedures for notifying nearby affected residents.
- (f) Complaints management procedures.

PRIOR TO COMMENCEMENT OF CONSTRUCTION

Prior to the commencement of any demolition, excavation, or building work the following conditions in this Part of the Consent must be satisfied, and all relevant requirements complied with at all times during the operation of this consent.

66. Site Sign

- a. A sign must be erected in a prominent position on site, prior to the commencement of construction:
 - (i) showing the name, address and telephone number of the Principal Certifying Authority for the work,
 - (ii) showing the name of the principal contractor (if any) or the person responsible for the works and a telephone number on which that person may be contacted outside working hours, and
 - (iii) stating that unauthorised entry to the work site is prohibited.
- b. Any such sign must be maintained while the building work, subdivision work or demolition work is being carried out, but must be removed when the work has been completed.

67. Excavation adjacent to adjoining land

- (a) If an excavation extends below the level of the base of the footings of a building on an adjoining allotment of land, the person causing the excavation must, at their own expense, protect and support the adjoining premises from possible damage from the excavation, and where necessary, underpin the adjoining premises to prevent any such damage.
- (b) The applicant must give at least seven (7) days notice to the adjoining owner(s) prior to excavating.
- (c) An owner of the adjoining allotment of land is not liable for any part of the cost of work carried out for the purposes of this condition, whether carried

out on the allotment of land being excavated or on the adjoining allotment of land.

68. **Safety fencing.** The site must be fenced prior to the commencement of construction, and throughout demolition and/or excavation and must comply with WorkCover New South Wales requirements and be a minimum of 1.8m in height.
69. **Pre-Construction Dilapidation Report.** To ensure Council's infrastructures are adequately protected a dilapidation report on the existing public infrastructure in the vicinity of the proposed development and along the travel routes of all construction vehicles is to be submitted to Council. The report shall detail, but not be limited to the location, description and photographic record of any observable defects but to the following infrastructure where applicable.
- a) Road pavement,
 - b) Kerb and gutter,
 - c) Footpath,
 - d) Drainage pits,
 - e) Traffic signs, and
 - f) Any other relevant infrastructure.

The report is to be submitted to Council's Traffic Engineer, prior to works commencing with another similar report submitted at completion and prior to issue of Occupation Certificate. The reports shall be used by council to assess whether restoration works will be required prior to the issue of the Occupation Certificate.

All fees and charges associated with the review of this report is to be in accordance with Council's Schedule of Fees and Charges and is to be paid at the time that the Dilapidation Report is submitted.

70. **Work Zones and Permits.** The applicant shall obtain a Work Zone Permit where it is proposed to reserve an area of road pavement for the parking of vehicles associated with a construction site. Separate application is required with a Traffic Management Plan for standing of construction vehicles in a trafficable lane. A Roads and Maritime Services Work Zone Permit shall be obtained for State Roads.
71. **Notice of Intention to Commence Work –** Prior to commencement of the public domain works, a *Notice of Intention to Commence Work* shall be submitted to Council's City Works and Infrastructure Directorate.
72. **Ground Anchors -** The installation of permanent ground anchors into public roadway is not permitted. The installation of temporary ground anchors may be considered subject to application for approval from Council's City Works & Infrastructure Directorate, as per the provisions of Section 138 of the Roads Act, 1993. The application for consent must include detailed structural plans prepared

by a Chartered Structural Engineer (registered on the NER of Engineers Australia), clearly nominating the number of proposed anchors, depth below existing ground level at the boundary alignment and the angle of installation. The approval will be subject to the applicant paying all applicable fees in accordance with Council's Schedule of Fees & Charges at the time of the application.

73. **Engineering plans assessment and works inspection fees.** The applicant is to pay to Council fees for assessment of all engineering and public domain plans and inspection of the completed works in the public domain, in accordance with Council's Schedule of Fees & Charges at the time of the assessment, prior to any approval being granted by Council.

DURING CONSTRUCTION

Unless otherwise specified, the following conditions in this Part of the consent must be complied with at all times during the construction period. Where applicable, the requirements under previous Parts of the consent must be implemented and maintained at all times during the construction period.

74. **Critical stage inspections.** The person having the benefit of this consent is required to notify the Principal Certifying Authority during construction to ensure that the critical stage inspections are undertaken, as required under clause 162A(4) of the *Environmental Planning and Assessment Regulation 2000*.
75. **Survey of footings/walls.** All footings and walls within 1 metre of a boundary must be set out by a registered surveyor. On commencement of brickwork or wall construction a survey and report must be prepared indicating the position of external walls in relation to the boundaries of the allotment.
76. **Use of fill/excavated material.** Excavated material must not be reused on the property except as follows:
- a. Fill is allowed under this consent;
 - b. The material constitutes Virgin Excavated Natural Material as defined in the *Protection of the Environment Operations Act 1997*;
 - c. the material is reused only to the extent that fill is allowed by the consent.
77. **Construction materials.** All materials associated with construction must be retained within the site.
78. **Site Facilities**
The following facilities must be provided on the site:
- (a) toilet facilities in accordance with WorkCover NSW requirements, at a ratio of one toilet per every 20 employees, and
 - (b) a garbage receptacle for food scraps and papers, with a tight fitting lid.
79. **Site maintenance**
The applicant must ensure that:

- a. approved sediment and erosion control measures are installed and maintained during the construction period;
 - b. building materials and equipment are stored wholly within the work site unless an approval to store them elsewhere is held;
 - c. the site is clear of waste and debris at the completion of the works.
80. **Work within public road.** At all times work is being undertaken within a public road, adequate precautions shall be taken to warn, instruct and guide road users safely around the work site. Traffic control devices shall satisfy the minimum standards outlined in Australian Standard No. AS1742.3-1996 "Traffic Control Devices for Work on Roads".
81. **Tree protection – no unauthorised removal.** This consent does not authorise the removal of trees unless specifically permitted by a condition of this consent or identified as approved for removal on the stamped plans. Trees 5,12,20,21, 28 & 29 are to be retained and protected in accordance with the conditions below.
82. **Project Arborist /Tree Protection.-** Trees that are shown on the approved plans as being retained must be protected against damage during construction. A Project Arborist with minimum AQF level 5 qualifications is to be engaged to ensure adequate tree protection measures are put in place for all trees to be retained on the subject site and neighbouring allotments and that recommendations contained within Arboricultural Assessment Impact Report dated 4 November 2014 prepared by Horticultural Management Services are carried out. All trees are to be monitored to ensure adequate health throughout the construction period is maintained. Additionally, all work within the Tree Protection Zones is to be supervised throughout construction. Details of the Project Arborist are to be submitted to Council prior to the commencement of construction. Should these details change during the course of works, or the appointed Consultant Arborist altered, Council is to be notified, in writing, within seven working days.
83. **Tree Removal.** Trees identified by the Arborist Assessment Report (Horticultural Management Services) dated 4 November 2014 for removal are to be carried out in accordance with NSW Workcover Code of Practice (2007) and undertaken by an Arborist with minimum AQF Level 3 qualifications.
84. **Traffic Management.** Any traffic management procedures and systems must be in accordance with AS 1742.3 1996 and City of Ryde, Development Control Plan 2014: - Part 8.1; Construction Activities. This condition is to ensure public safety and minimise any impacts to the adjoining pedestrian and vehicular traffic systems.
85. **Truck Shaker.** A truck shaker grid with a minimum length of 6 metres must be provided at the construction exit point. Fences are to be erected to ensure vehicles cannot bypass them. Sediment tracked onto the public roadway by vehicles leaving the subject site is to be swept up immediately.
86. **Erosion and Sediment Control.** The applicant shall install erosion and sediment control measures in accordance with the approved ESCP at the commencement of

works on the site. Suitable erosion control management procedures in accordance with the manual “Managing Urban Stormwater: Soils and Construction” by the NSW Department – Office of Environment and Heritage, must be practiced at all times throughout the construction. Where construction works deviate from the plan, soil erosion and sediment control measures are to be implemented in accordance with the above referenced document.

87. **Stormwater Management - Construction.** The stormwater drainage system on the site must be constructed in accordance with the Construction Certificate version of the Stormwater Management Plan by Sellick Consultants (Refer to Job No. 140821 dated 28 January 2015) submitted in compliance to the condition labelled “Stormwater Management.” and the requirements of Council in relation to the connection to the public drainage system.
88. **Implementation of Construction Traffic Management Plan.** All works and construction activities are to be undertaken in accordance with the approved Construction Traffic Management Plan (CTMP). All controls in the CTMP must be maintained at all times and all traffic management control must be undertaken by personnel having appropriate RMS accreditation. Should the implementation or effectiveness of the CTMP be impacted by surrounding major development not encompassed in the approved CTMP, the CTMP measures and controls are to be revised accordingly and submitted to Council for approval. A copy of the approved CTMP is to be kept onsite at all times and made available to the accredited certifier or Council on request.
89. **Internal Road Alignment and Loading Bay – Implementation.** The indented loading bay and driveway must be constructed in accordance with the plans approved by Council, as required by the condition “Internal Road Alignment and Loading Bay – Council Approval.” and the condition “Public Infrastructure Works”
90. **Hold Points during construction - Public Domain -** Inspections are required to be undertaken by a Chartered Civil Engineer (registered on the NER of Engineers Australia), for the public domain, at the following hold points: -
 - a) Prior to the commencement of construction and following the set-out on site of the position of the civil works to the levels shown on the approved civil drawings.
 - b) Upon excavation, trimming and compaction to the subgrade level - to the line, grade, widths and depths, shown on the approved civil engineering drawings.
 - c) Upon compaction of the applicable sub-base course.
 - d) Upon compaction of any base layers of pavement, prior to the construction of the final pavement surface (e.g. prior to laying any pavers or asphalt wearing course).
 - e) Upon installation of any formwork and reinforcement for footpath concrete works.

- f) Final inspection - upon the practical completion of all civil works with all disturbed areas satisfactorily restored.

The Applicant shall submit to Council's City Works and Infrastructure, certification from the Engineer, at each stage of the inspection listed above. The certificates shall contain photographs of the works in progress and a commentary of the inspected works, including any deficiencies and rectifications that were undertaken.

The Engineer's certificate for the final inspection shall confirm that the works have been constructed in accordance with the Council approved drawings and City of Ryde standards and specifications.

A final inspection for the purpose of the handover to Council, of the public infrastructure assets, shall be conducted in conjunction with Council's Engineer following the completion of the external works. Additional inspections, if required, shall be subject to additional fees payable in accordance with Council's Schedule of Fees & Charges at the time.

PRIOR TO OCCUPATION CERTIFICATE

An Occupation Certificate must be obtained from a Principal Certifying Authority prior to commencement of occupation of any part of the development, or prior to the commencement of a change of use of a building.

Prior to issue, the Principal Certifying Authority must ensure that all works are completed in compliance with the approved construction certificate plans and all conditions of this Development Consent.

Unless an alternative approval authority is specified (eg Council or government agency), the Principal Certifying Authority is responsible for determining compliance with conditions in this Part of the consent. Details to demonstrate compliance with all conditions, including plans, documentation, or other written evidence must be submitted to the Principal Certifying Authority.

91. **Landscape Maintenance Plan.** A Landscape Maintenance Plan is required prior to the issue of an Occupation Certificate. The Landscape Maintenance Plan should include the following requirements:
- a. Regular maintenance and trimming of shrubs and plantings.
 - b. Shrubs and plantings being appropriately maintained to allow for clear lines of sight over the shrubs from pathways and pedestrians areas, and to avoid any plantings being used as a natural ladder to gain access to any higher parts of the building.
 - c. All other trees on the site are to be appropriately pruned, trimmed and maintained so that passive surveillance is not compromised and there is no opportunity for climbing of trees to gain access to balconies or units.
92. **BASIX.** The submission of documentary evidence of compliance with all commitments listed in BASIX Certificate(s) numbered 653456M-03, issued Wednesday 20 January 2016.

93. **Landscaping.** All landscaping works approved by condition 1(e) are to be completed prior to the issue of any **Occupation Certificate**.
94. **Road opening permit – compliance document.** The submission of documentary evidence to Council of compliance with all matters that are required by the Road Opening Permit issued by Council under Section 139 of the *Roads Act 1993* in relation to works approved by this consent, prior to the issue of any **Occupation Certificate**.
95. **Sydney Water – Section 73.** A Section 73 Compliance Certificate under the Sydney Water Act 1994 must be obtained from Sydney Water Corporation. Application must be made through an authorised Water Servicing Co-ordinator. Please refer to the Building Developing and Plumbing section of the web site www.sydneywater.com.au then refer to “Water Servicing Coordinator” under “Developing Your Land” or telephone 13 20 92 for assistance.

Following application a “Notice of Requirements” will advise of water and sewer infrastructure to be built and charges to be paid. Please make early contact with the Co-ordinator, since building of water/sewer infrastructure can be time consuming and may impact on other services and building, driveway or landscape design.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of any Occupation Certificate.

96. **Public Art and Cultural Plan.** Prior to the issue of the final Occupation Certificate, the approved works contained in the Art and Cultural Plan approved by Condition no 36 shall be implemented.
97. **Acoustics.** A report from a qualified acoustical consultant demonstrating compliance with the relevant noise criteria including compliance with the recommendations contained in the Acoustic Report prepared by Acoustics Logic dated 10 December 2014 must be submitted to the Principal Certifying Authority before the issue of an Occupation Certificate.
98. **CCTV Cameras.** CCTV cameras will be required to be installed in the following locations:
- The carpark;
 - The ground floor lobby and lifts
 - The car park entry/exit points.

The cameras should include the foyer area to the buildings including the area around the mail boxes. The cameras should also monitor the 50 metre vicinity outside the building including, but not limited to, the footpath area in front of the premises. CCTV cameras should also cover any communal areas, lifts, public spaces and the basement car parks. Recordings should be made twenty four (24) hours a day seven (7) days a week.

As a minimum, CCTV cameras at entry and exit points to the premises **MUST** record footage of a nature and quality in which it can be used to **identify** a person recorded by the camera. All other cameras **MUST** record footage of a nature and quality in which it can be used to **recognise** a person recorded by the camera. The time and date must automatically be recorded on all recordings made whilst it is recording. All recordings are to be kept for a minimum period of thirty (30) days before they can be reused or destroyed.

If requested by police, the applicant is to archive any recording until such time as they are no longer required. Recordings are to be made in a common media format such as Windows Media Player or similar, or should be accompanied by applicable viewing software to enable viewing on any windows computer.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of an Occupation Certificate.

99. **Car parking security.** Vehicular entry to residential parking and visitor's parking areas is to be through a secured roller shutter with an intercom system for visitor's access. The doors are to be controlled by locksets such as remote or card operating electronic lock sets. The phasing of the roller door needs to minimise the opportunity for unauthorised pedestrian access after a vehicle enters/exits the car park. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of an Occupation Certificate.
100. **Graffiti.** All surfaces on the street level that are not glass should use graffiti resistant paints and/or other surfaces that discourage graffiti. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of an Occupation Certificate.
101. **Security.** To enhance the physical security of doors, all glass doors are to be laminated and the main entry/exit doors to individual units on the ground floor, including balcony doors and fire exit doors to the development are to be fitted with a single cylinder lockset (Australian and New Zealand Standard - Lock Sets), which comply with the Building Code of Australia. Windows to individual units on the ground floor should also be fitted with key operated locksets (Australia and New Zealand Standard - Lock Sets) to restrict unauthorized access to the unit.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of an Occupation Certificate.

102. **Intercom System.** Intercom facilities should be incorporated into these entry/exit points to enable residents to communicate and identify with people prior to admitting them to the development. An auxiliary lock set should also be incorporated into the design of each of the entry/exit points to enable emergency services to access the development particularly in emergency situations.

Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of an Occupation Certificate.

103. **Balcony doors to units.** Balcony doors to units are to be fitted with single cylinder locksets (Australian and New Zealand Standard – Lock Sets) to restrict unauthorised access to units. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of an Occupation Certificate.
104. **Lift access and security.** Electronic access controls are to be installed on the lift. The equipment should include card readers to restrict access to the level a resident resides on, to the car parking levels and to the Ground Floor. Details demonstrating compliance are to be submitted to the Principal Certifying Authority prior to the issue of an Occupation Certificate.
105. **Lockable gates.** For security purpose the pedestrian access to the private open space courtyard of Unit G.02 is to include a lockable gate to ensure that access to this area is for the residents only.
106. **Certification of mechanical ventilation work.** Where any mechanical ventilation systems have been installed or altered, an installation certificate from a professional mechanical services engineer certifying that the systems comply with the approved plans and specifications must be submitted to the Principal Certifying Authority before the issue of an Occupation Certificate.
107. **Road opening permit – compliance document.** The submission of documentary evidence to Council of compliance with all matters that are required by the Road Opening Permit issued by Council under Section 139 of the *Roads Act 1993* in relation to works approved by this consent, prior to the issue of any **Occupation Certificate**.
108. **Electricity accounts for new street lighting.** Prior to the issue of any Occupation Certificate, the Applicant shall liaise with Council's Asset Networks Section regarding the setting up of the electricity account/s in order to energise the newly constructed street lighting.
109. **Compliance Certificate – Street Lighting.** Prior to the issue of any Occupation Certificate, the Applicant shall submit to Council, certification from a qualified Electrical Engineering consultant confirming that the street lighting in the public domain has been constructed in accordance with the Council approved drawings and City of Ryde standards and specifications.
110. **Compliance Certificate – External Landscaping Works.** Prior to the issue of any Occupation Certificate, the Applicant shall submit to Council, certification from a qualified Landscape Architect confirming that the public domain landscaping works have been constructed in accordance with the Council approved drawings and City of Ryde standards and specifications.
111. **Public Domain Works-as-Executed Plans.** To ensure the public infrastructure works are completed in accordance with the approved plans and specifications, and that the assets to be handed over to Council are accounted for inclusion in Council's Assets Register, Works-as-Executed Plans (in both hard and soft copies – AutoCAD, CivilCAD, Civil 3D, 12D or any other commercially used program),

certified by a Registered Surveyor shall be submitted to, and approved by Council, with any rectifications required by Council to be completed by the Developer prior to the issue of any Occupation Certificate.

The Works-as-Executed Plans are to note all departures clearly in red, on a copy of the approved Construction Certificate drawings, and certification from a suitably qualified Civil Engineer shall be submitted to support all variations from the approved plans.

112. **Compliance Certificate – External Works** – Prior to the issue of the Occupation Certificate, a compliance certificate shall be obtained from Council’s City Works and Infrastructure confirming that all works in the road reserve including all public domain improvement works have been completed to Council’s satisfaction and in accordance with the Council approved drawings. The applicant shall be liable for the payment of the fee associated with the issuing of this certificate.
113. **Car Share Provider.** The submission of documentary evidence to Council that an agreement with a car-share provider has been entered into for the three car share spaces on site, prior to the issue of any **Occupation Certificate**.
114. **Certification of fit-out work.** Where Council is not the Principal Certifying Authority, the PCA must inspect the completed fit-out and issue a compliance certificate certifying that the fit-out complies with Food Safety Standard 3.2.3: *Food Premises and Equipment* and Australian Standard *AS 4674-2004: Design, construction and fit-out of food premises*, and a copy of the compliance certificate must be submitted to Council, before the issue of an **Occupation Certificate**.
115. **Stormwater Management - Work-as-Executed Plan.** A Work-as-Executed plan (WAE) of the as constructed Stormwater Management System must be submitted with the application for any Occupation Certificate. The WAE must be prepared and certified (signed and dated) by a Registered Surveyor and is to clearly show the constructed stormwater drainage system (including any onsite detention, pump/ sump, charged/ siphonic and onsite disposal/ absorption system) and finished surface levels which convey stormwater runoff.
116. **Stormwater Management – Positive Covenant(s).** A Positive Covenant must be created on the property title(s) pursuant to the relevant section of the Conveyancing Act (1919), providing for the ongoing maintenance of the onsite detention and pump/ sump components incorporated in the approved Stormwater Management system. This is to ensure that the drainage system will be maintained and operate as approved throughout the life of the development, by the owner of the site(s). The terms of the instrument are to be in accordance with the Council's standard terms for such systems, as specified in City of Ryde DCP 2014 - Part 8.4 (Title Encumbrances) - Section 7 and to the satisfaction of Council. The positive covenant must be registered on the title prior to the release of any Occupation Certificate for development works for which the system(s) serve.
117. **Engineering Compliance Certificates.** To ensure that all engineering facets of the development have been designed and constructed to the appropriate standards,

Compliance Certificates must be obtained for the following items and are to be submitted to the Accredited Certifier prior to the release of any Occupation Certificate. All certification must be issued by a qualified and practising civil engineer having experience in the area respective of the certification unless stated otherwise.

- a) Confirming that all components of the parking areas contained inside the site comply with the relevant components of AS 2890 and Council's DCP 2014 Part 9.3 (Parking Controls).
- b) Confirming that the Stormwater Management system (including any constructed ancillary components such as onsite detention) servicing the development complies with Council's DCP 2014 Part 8.2 (Stormwater and Floodplain Management) and associated annexures, and has been constructed to function in accordance with all conditions of this consent relating to the discharge of stormwater from the site.
- c) Confirming that after completion of all construction work and landscaping, all areas adjacent the site, the site drainage system (including any on-site detention system), and the trunk drainage system immediately downstream of the subject site (next pit), have been cleaned of all sand, silt, old formwork, and other debris.
- d) Confirming that the connection of the site drainage system to the trunk drainage system complies with Section 4.7 of AS 3500.3 - 2003 (National Plumbing and Drainage Code), the relevant sections of the Council's DCP 2014 Part 8.2 (Stormwater and Floodplain Management) and associated annexures and any requirements of Council pending on site conditions.
- e) Confirming that erosion and sediment control measures were implemented during the course of construction and were in accordance with the manual *"Managing Urban Stormwater: Soils and Construction"* by the NSW Department – Office of Environment and Heritage and Council's DCP 2014 Part 8.1 (Construction Activities).
- f) Compliance certificate from Council confirming that all external works in the public road reserve have been completed to Council's satisfaction.

118. **On-Site Stormwater Detention System - Marker Plate.** To ensure the constructed On-site detention will not be modified, a marker plate is to be fixed to each on-site detention system constructed on the site. The plate construction, wordings and installation shall be in accordance with Council's DCP 2014 Part 8.2 (Stormwater and Floodplain Management) and associated annexures. The plate may be purchased from Council's Customer Service Centre at Ryde Civic Centre (Devlin Street, Ryde).

119. **Post-Construction Dilapidation Report.** To ensure Council's infrastructures are adequately protected a post construction dilapidation report on the existing public infrastructure in the vicinity of the completed development and along the travel routes of all construction vehicles is to be submitted to Council. The report shall detail, but not be limited to the location, description and photographic record of any observable defects but to the following infrastructure where applicable.

- a) Road pavement,
- b) Kerb and gutter,
- c) Footpath,

- d) Drainage pits,
- e) Traffic signs, and
- f) Any other relevant infrastructure.

The applicant is to engage a suitably qualified person to prepare the report upon completion of all works. The report is to be submitted to and approved by Council's Traffic Development Engineer, prior to issue of the occupation certificate. The reports shall be used by council to assess whether restoration works will be required prior to the issue of the Occupation Certificate.

All fees and charges associated with the review of this report is to be in accordance with Council's Schedule of Fees and Charges and is to be paid at the time that the Dilapidation Report is submitted.

120. **Signage and Linemarking – External.** A plan demonstrating the proposed signage and line marking within Council's Public Domain and internal road(s) shall be prepared by a suitably qualified person and submitted to and approved by the Ryde Traffic Committee prior to the issue of an Occupation Certificate.

Note: The applicant is advised that the plan will require approval by the Ryde Traffic Committee and adequate time should be allowed for this process.

121. **Signage and Linemarking – Implementation.** The applicant is to install all signage and linemarking, as per the plan approved by the Ryde Traffic Committee. These works are to be undertaken prior to the issue of an Occupation Certificate.

122. **Travel Place.** A Framework Travel Plan (FTP) to be submitted to Council detailing the promotion, development, implementation and monitoring of a co-ordinated transport strategy for the building. The objectives of the FTP are to encourage/provide incentives for residents to utilise public transport, walking and cycling and to investigate alternative modes of transport (away from single-occupancy car use) to more sustainable forms of transport and how the plans will achieve and monitor the objectives. The FTP is to be submitted and approved by Council prior to the issue of an Occupation Certificate.

123. **Loading Bay – Management.** The loading bay and maneuvering areas must be designed for maximum legal dimensions and weights and allow collection vehicles to enter and leave the premises in a forward direction. A Swept path showing directional arrows shall be submitted to and approved by Council prior to the issue of any Occupation Certificate.

124. **Waste collection - Indemnity.** Where it is necessary for waste collection vehicles to enter private property to service the waste containers, the property owner must indemnify Council and its contractor in writing against claims for damage to the driveways and maneuvering areas. This indemnity must be submitted to the City of Ryde Council prior to the issue of any Occupation Certificate.

OPERATIONAL CONDITIONS

The conditions in this Part of the consent relate to the on-going operation of the development and shall be complied with at all times.

125. **Parking Allocation.** Both the owner and occupier of the development must provide and maintain the following parking allocations as follows;

- 147 residential spaces
- 20 visitor spaces
- 3 retail parking spaces
- 3 car share spaces
- 15 bicycle parking spaces
- 2 motor bike spaces.

To comply with this, the following parking spaces are to be reallocated as retail parking;

- The proposed 2 service/ maintenance spaces,

The excess bicycle spaces are to be converted to motorbike parking.

This condition is to ensure the allocation of parking on the site is in accordance with Council's parking requirements.

126. **Car Share Parking.** To maintain, facilitate and encourage the use of the car share scheme implemented in the development, the following requirements are to be maintained for the ongoing serviceable life of the development;

- All car share spaces must be accessible 7 days of the week, 24 hours of the day.
- Car share parking spaces must be clearly designated and linemarked in the development.
- Must be retained as Common Property by any future strata subdivision of the development lot.

127. **Plant Establishment Period/ Maintenance Period.** The trees within the public domain will incur a 24 month maintenance period to ensure the successful establishment of the plant material. If any trees within this period die, they are to be replaced immediately.

128. **Registration of premises.** The operator of the business (retail premises) must register the premises with Council's Environmental Health Unit before trading commences.

129. **Gym and media room.** The gym and media room located on the ground floor is not to be used for commercial purposes.

130. **Residential Amenity - Noise Limits.** Noise from the gymnasium or any commercial premises shall not be audible in any habitable room in any residential

premises between the hours of 10pm and 7.00am. Any amplified music used within the gym shall be limited in volume so as not to cause a disturbance to the amenity of the adjoining residences. Noise insulating materials or construction (such as acoustic rubber matting or paneling) should be installed where ever it is anticipated that activities or the use of plant and equipment may generate a noise disturbance to surrounding premises.

Within the communal open space area, the playing of amplified music or messages, any spruiking and the likes are not to disturb the amenity of other public and private places.

131. **Public Health Act.** The gymnasium is to be comply with the Public Health Act 2010 and Public Health Regulations 2012.

132. **Carwash bay.** The floor of the carwash bay must be graded and drained to a grated drain or collection sump located within the wash bay and drained to the sewerage system in accordance with the requirements of Sydney Water Corporation. If necessary, the sides of the carwash bay must be enclosed to prevent splash contamination of the surrounding area.

Any uncontaminated stormwater must be directed away from the carwash bay and discharged to Council's stormwater drainage system.

133. **Offensive noise.** The use of the premises must not cause the emission of 'offensive noise' as defined in the *Protection of the Environment Operations Act 1997*.

134. **Noise and vibration from plant or equipment** - Unless otherwise provided in this Consent, the operation of any plant or equipment installed on the premises must not cause:

(a) The emission of noise that exceeds the background noise level by more than 5dBA when measured at, or computed for, the most affected point, on or within the boundary of the most affected receiver. Modifying factor corrections must be applied for tonal, impulsive, low frequency or intermittent noise in accordance with the *New South Wales Industrial Noise Policy* (EPA, 2000).

(b) An internal noise level in any adjoining occupancy that exceeds the recommended design sound levels specified in Australian/New Zealand Standard AS/NZS 2107:2000 *Acoustics – Recommended design sound levels and reverberation times for building interiors*.

(c) The transmission of vibration to any place of different occupancy.

135. **Accessibility – Waste vehicles.** Safe easy access must be provided for waste collection vehicles to service the waste containers. The Loading Dock is to be kept clear of all other vehicles on Garbage Days (Monday - Friday) between 5.00am to 11.00am to enable the trucks to access the bins for servicing.

136. **Accessibility – Lock requirements.** Where there is a lockable door to access a bin room or hardwaste storage room, the universal Council key shall be installed so the contractor can access the room for servicing bins or collect the household cleanup items.
137. **Waste room signage.** Signs will be required to be placed within the bin area to encourage correct recycling and reduce contamination. City of Ryde will provide the required signage.
138. **Waste Collection Services.** Arrangements must be made with Council for the provision of waste collection services **before occupation commences**.
139. **Storage and disposal of wastes.** All wastes generated on the premises must be stored and disposed of in an environmentally acceptable manner. All liquid wastes generated on the premises must be treated and discharged to the sewerage system in accordance with the requirements of Sydney Water Corporation or be transported to a liquid waste facility for recycling or disposal.
140. **Commercial Waste.** A separate garbage room must be provided in a convenient location on the premises for the storage of commercial wastes.
141. **Clean water only to stormwater system.** Only clean unpolluted water is permitted to enter Council's stormwater drainage system and the operation of the premises shall be conducted in a manner that does not pollute waters as defined by the *Protection of the Environment Operations Act 1997*.
142. **Trade waste permit.** The applicant must contact Sydney Water Corporation to determine whether a Trade Waste Permit is required before discharging any trade wastewater to the sewerage system.
143. **Letterboxes and street/house numbering.** All letterboxes and house numbering are to be designed and constructed to be accessible from the public way. Council must be contacted in relation to any specific requirements for street numbering. The applicant should liaise with Australia Post and develop strategies in relation to security of mail boxes.

ADVISORY CONDITIONS

1. **Dewatering** - Temporary dewatering of an amount above 3ML may require a water licence to be obtained from the Office of Water before construction commences.

Please note that the proposal must not incorporate provision for permanent or semi-permanent pumping of groundwater seepage from below-ground areas. A fully tanked structure must be used.

2. **Inspections and fees** - Council officers may carry out periodic inspections of the premises to ensure compliance with relevant environmental health standards and Council may charge an approved fee for this service in accordance with Section 608 of the *Local Government Act 1993*.

The approved fees are contained in Council's Management Plan and may be viewed or downloaded at www.ryde.nsw.gov.au

Attachment B

Department of Primary Industries Water - General Terms of Approval

General

1. An authorisation shall be obtained for the take of groundwater as part of the activity. Groundwater shall not be pumped or extracted for any purpose other than temporary construction dewatering at the site identified in the development application. The authorisation shall be subject to a currency period of 12 months from the date of issue and will be limited to the volume of groundwater take identified.
2. The design and construction of the building must prevent any take of groundwater after the authorisation has lapsed by making any below-ground levels that may be impacted by any water table watertight for the anticipated life of the building. Waterproofing of below-ground levels must be sufficiently extensive to incorporate adequate provision for unforeseen high water table elevations to prevent potential future inundation.
3. Sufficient permanent drainage shall be provided beneath and around the outside of the watertight structure to ensure that natural groundwater flow is not impeded and:
 - (a) any groundwater mounding at the edge of the structure shall be at a level not greater than 10 % above the level to which the water table might naturally rise in the location immediately prior to the construction of the structure; and
 - (b) any elevated water table is more than 1.0 m below the natural ground surface existent at the location immediately prior to the construction of the structure; and
 - (c) where the habitable structure is founded in bedrock or impermeable natural soil then the requirement to maintain groundwater flows beneath the structure is not applicable.
4. Construction methods and material used in and for construction shall be designed to account for the likely range of salinity and pollutants which may be dissolved in groundwater, and shall not themselves cause pollution of the groundwater.
5. DPI Water requires documentation (referred to as 'report') comprising measurements, maps, bore logs, calculations, results, discussion and justification for various matters related to the dewatering process. Information will be required at several stages: prior to construction commencing (initial report - which will accompany the application for the authorisation), at any time when an authorisation renewal is required or a significant change in activities occurs (intermediate report); and at the completion of dewatering and related operations (completion report). Reports need to be submitted to DPI Water at Parramatta Office, in a format

consistent with electronic retrieval without editing restrictions; raw data should be presented in Excel spreadsheets without editing restrictions.

Prior to excavation

6. The following shall be included in the initial report:

- (a) measurements of groundwater levels beneath the site from a minimum of three relevant monitoring bores, together with details of the bores used in the assessment including bore logs and three-dimensional identification information.
- (b) a map of the site and its immediate environs depicting the water table (baseline conditions) shown relative to the topography and approved construction footprint from the surface level and below. An assessment of the potential variation in the water table during the life of the proposed building together with a discussion of the methodology and information on which this assessment is based.
- (c) details of the present and potential groundwater flow paths and hydraulic gradients in and around the site; the latter in response to the final volumetric emplacement of the construction.
- (d) a schedule for the ongoing water level monitoring and description of the methodology to be used, from the date of consent until at least two months after the cessation of pumping. [DPI Water prefers that monitoring be undertaken on a continuous basis using automatic loggers in boreholes.]

7. The Applicant shall assess the likely impacts of the dewatering activities on other groundwater users or structures or public infrastructure; this assessment will include an appropriate bore, spring or groundwater seep census and considerations relevant to potential subsidence or excessive settlement induced in nearby buildings and property, and be documented together with all calculations and information to support the basis of these in the initial report.

8. Groundwater quality testing of samples taken from outside the footprint of the proposed construction, with the intent of ensuring that as far as possible the natural and contaminant hydrochemistry of the potential dewatered groundwater is understood, shall be conducted on a suitable number of samples and tested by a NATA-certified laboratory. Details of the sampling locations and the protocol used, together with the test results accompanied by laboratory test certificates shall be included in the initial report. An assessment of results must be done by suitably qualified persons with the intent of identifying the presence of any contaminants and comparison of the data against accepted water quality objectives or criteria for the intended dewatering purpose. In the event of adverse quality findings, the Applicant must develop a plan to mitigate the impacts of the hydrochemistry on the dewatered groundwater and present the details of all assessments and plans in the initial report.

9. Groundwater quality testing generally in accordance with Clause 8, shall be undertaken on any anniversary or other renewal or alteration of any dewatering authorisation.

10. A reasonable estimate of the total volume of groundwater to be extracted shall be calculated and included in the initial report; together with details and calculation methods for the parameters and supporting information to confirm their development or measurement (e.g. permeability predicted by slug-testing, pump-testing or other means).
11. A copy of a valid consent for the development shall be provided in the initial report.
12. The method of disposal of pumped water shall be nominated (i.e. reinjection, drainage to the stormwater system or discharge to sewer) and a copy of the written permission from the relevant controlling authority shall be provided in the initial report. The disposal of any contaminated pumped groundwater (sometimes called “tailwater”) must comply with the provisions of the *Protection of the Environment Operations Act 1997* and any requirements of the relevant controlling authority.
13. Contaminated groundwater (i.e. above appropriate NEPM 2013 thresholds) shall not be reinjected into any aquifer. The reinjection system design and treatment methods to remove contaminants shall be nominated and included in the initial report and any subsequent intermediate report as necessary. The quality of any pumped water that is to be reinjected must be demonstrated to be compatible with, or improve, the intrinsic or ambient groundwater in the vicinity of the reinjection site.

During excavation

14. Engineering measures designed to transfer groundwater around and beneath the basement shall be incorporated into the basement construction to prevent the completed infrastructure from restricting pre-existing groundwater flows.
15. Piping, piling or other structures used in the management of pumped groundwater shall not create a flooding hazard or induce mounding of groundwater. Control of pumped groundwater is to be maintained at all times during dewatering to prevent unregulated off-site discharge.
16. Measurement and monitoring arrangements to the satisfaction of DPI Water are to be implemented. Weekly records of the volumes of all groundwater pumped and the quality of any water discharged are to be kept and a completion report provided after dewatering has ceased. Records of groundwater levels are to be kept and a summary showing daily or weekly levels in all monitoring bores provided in the completion report.
17. Pumped groundwater shall not be allowed to discharge off-site (e.g. adjoining roads, stormwater system, sewerage system, etc.) without the controlling authority’s approval and/or owner’s consent/s. The pH of discharge water shall be managed to be between 6.5 and 8.5. The requirements of any other approval for the discharge of pumped groundwater shall be complied with.
18. Dewatering shall be undertaken in accordance with groundwater-related management plans applicable to the excavation site. The requirements of any management plan (such as acid sulfate soils management plan or remediation action plan) shall not be compromised by the dewatering activity.

19. The location and construction of groundwater extraction works that are decommissioned are to be recorded in the completion report. The method of decommissioning is to be identified in the documentation.
20. Access to groundwater management works used in the activity is to be provided to permit inspection when required by DPI Water under appropriate safety procedures.

Following excavation

21. Following completion of the dewatering operations, the applicant shall submit to DPI Water, Parramatta Office, the completion report which shall include:
 - (a) detail of the volume of water taken, the precise periods and location of water taken, the details of water level monitoring in all of the relevant bores; and
 - (b) a water table map depicting the aquifer's settled groundwater condition and a comparison to the baseline conditions; and
 - (c) a detailed interpreted hydrogeological report identifying all actual resource and third party impacts, including an assessment of altered groundwater flows and an assessment of any subsidence or excessive settlement induced in nearby buildings and property and infrastructure.
22. The completion report is to be assessed by DPI Water prior to any certifying agency's approval for occupation or use of the completed construction

Attachment C (Condition 52).

