

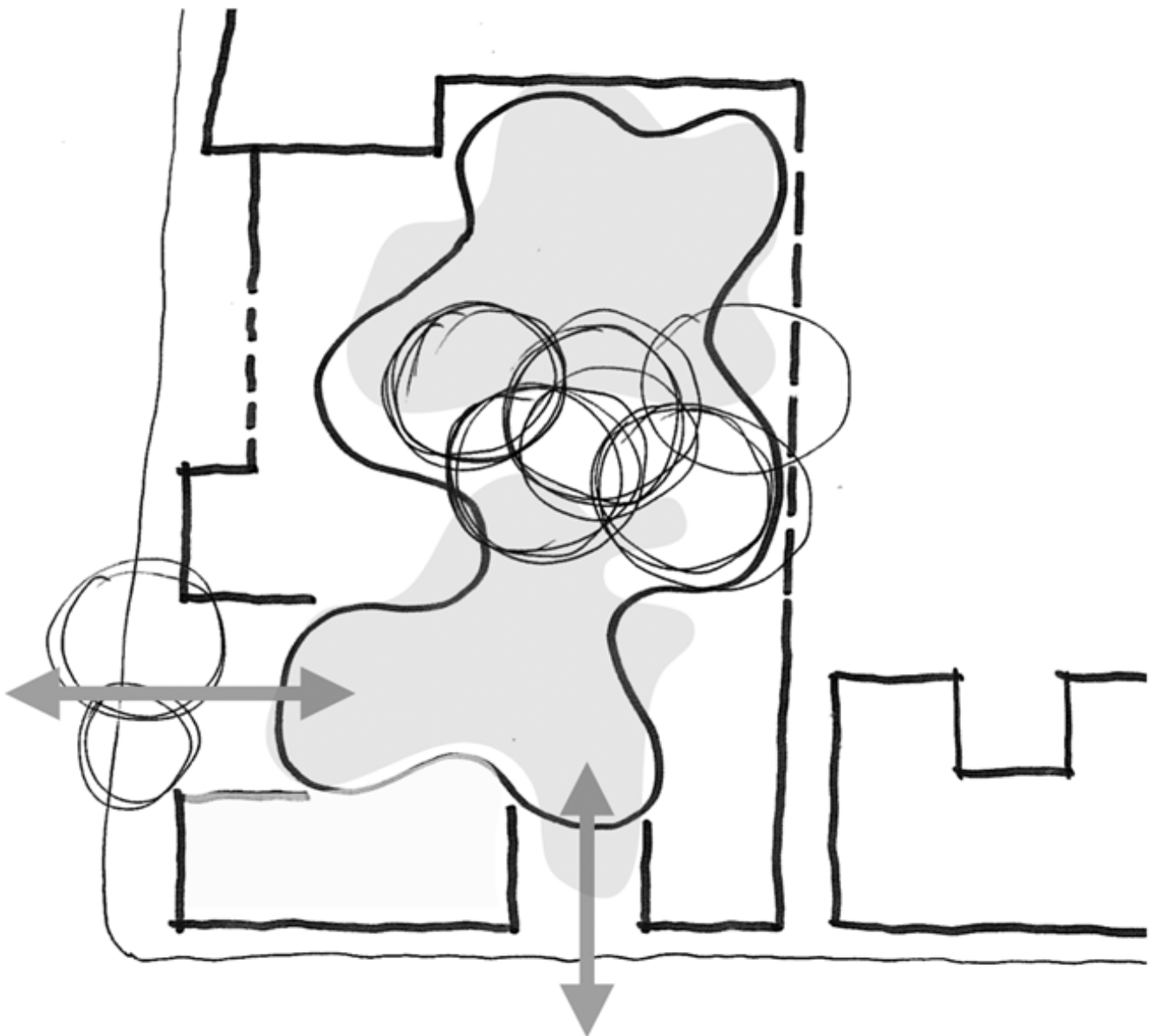
# DARLINGTON PUBLIC SCHOOL REDEVELOPMENT

## Appendix C — Secretary's Environmental Assessment Requirements

SSD-9914

Prepared by NSW Department of Planning, Industry and Environment

For NSW Department of Education



# Planning Secretary's Environmental Assessment Requirements

Section 4.12(8) of the *Environmental Planning and Assessment Act 1979*  
 Schedule 2 of the *Environmental Planning and Assessment Regulation 2000*

<b>Application Number</b>	SSD-9914
<b>Project Name</b>	Darlington Public School Redevelopment<Project Name
<b>Location</b>	Golden Grove Street, Darlington within City of Sydney
<b>Applicant</b>	Department of Education
<b>Date of Issue</b>	19/03/2019
<b>General Requirements</b>	<p>The Environmental Impact Statement (EIS) must be prepared in accordance with, and meet the minimum requirements of clauses 6 and 7 of Schedule 2 the <i>Environmental Planning and Assessment Regulation 2000</i> (the Regulation).</p> <p>Notwithstanding the key issues specified below, the EIS must include an environmental risk assessment to identify the potential environmental impacts associated with the development.</p> <p>Where relevant, the assessment of the key issues below, and any other significant issues identified in the risk assessment, must include:</p> <ul style="list-style-type: none"> <li>• adequate baseline data</li> <li>• consideration of potential cumulative impacts due to other development in the vicinity (completed, underway or proposed)</li> <li>• measures to avoid, minimise and if necessary, offset the predicted impacts, including detailed contingency plans for managing any significant risks to the environment.</li> </ul> <p>The EIS must be accompanied by a report from a qualified quantity surveyor providing:</p> <ul style="list-style-type: none"> <li>• a detailed calculation of the capital investment value (CIV) (as defined in clause 3 of the Regulation) of the proposal, including details of all assumptions and components from which the CIV calculation is derived</li> <li>• an estimate of the jobs that will be created by the future development during the construction and operational phases of the development</li> <li>• certification that the information provided is accurate at the date of preparation.</li> </ul>
<b>Key issues</b>	<p>The EIS must address the following specific matters:</p> <p><b>1. Statutory and Strategic Context</b>          Address the statutory provisions contained in all relevant environmental</p>

planning instruments, including:

- *Biodiversity Conservation Act 2016*
- State Environmental Planning Policy (State & Regional Development) 2011
- State Environmental Planning Policy (Infrastructure 2007)
- State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
- State Environmental Planning Policy No. 64 – Advertising and Signage
- State Environmental Planning Policy No.55 – Remediation of Land
- Draft State Environmental Planning Policy (Remediation of Land)
- Draft State Environmental Planning Policy (Environment) and
- Sydney Local Environmental Plan 2012.

*Permissibility*

Detail the nature and extent of any prohibitions that apply to the development.

*Development Standards*

Identify compliance with the development standards applying to the site and provide justification for any contravention of the development standards.

**2. Policies**

Address the relevant planning provisions, goals and strategic planning objectives in the following:

- NSW State Priorities
- The Greater Sydney Regional Plan, A Metropolis of three cities
- Future Transport Strategy 2056
- State Infrastructure Strategy 2018 – 2038 Building the Momentum
- Sydney's Cycling Future 2013
- Sydney's Walking Future 2013
- Sydney's Bus Future 2013
- Crime Prevention Through Environmental Design (CPTED) Principles
- Better Placed: An integrated design policy for the built environment of New South Wales (GANSW, 2017)
- Eastern City District Plan
- Sydney Development Control Plan 2012
- relevant City of Sydney policies, codes and guidelines (where required pursuant to relevant Local Environmental Plan policies).

**3. Operation**

- Provide details of the existing and proposed school operations, including staff and student numbers, school hours of operation, and operational details of any proposed before/after school care services and/or community use of school facilities.
- Provide a detailed justification of suitability of the site to accommodate the proposal.
- Provide details of how the school will continue to operate during construction activities of the new primary and secondary school, including proposed mitigation measures.

#### 4. Built Form and Urban Design

- Address the height, density, bulk and scale, setbacks and interface of the proposal in relation to the surrounding development, topography, streetscape and any public open spaces.
- Address design quality and built form, with specific consideration of the overall site layout, streetscape, open spaces, façade, rooftop, massing, setbacks, building articulation, materials, colours and colours.
- Provide details of any digital signage boards, including size, location and finishes.
- Clearly demonstrate how design quality will be achieved in accordance with Schedule 4 Schools – Design Quality Principles of *State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017* and the GANSW Design Guide for Schools.
- Detail how services, including but not limited to waste management, loading zones, and mechanical plant are integrated into the design of the development.
- Provide detailed site and context analysis to justify the proposed site planning and design approach including massing and building location options and preferred strategy for future development taking into account the location of existing trees.
- Provide a detailed site-wide landscape strategy, including consideration of equity and amenity of outdoor play spaces, and integration with built form, security, shade, topography and existing vegetation.
- Provide a visual impact assessment that identifies any potential impacts on the surrounding built environment and landscape including views to and from the site and any adjoining heritage items.
- Address Crime Prevention Through Environmental Design (CPTED) Principles.
- Demonstrate good environmental amenity including access to natural daylight and ventilation, acoustic separation, access to landscape and outdoor spaces and future flexibility.
- Demonstrate that Aboriginal culture and heritage is considered and incorporated holistically in the design proposal
- Detail ESD principles including sustainability targets and integration of these in the design approach
- Demonstrate how environmental design will be achieved in accordance with the Environmental Design in Schools Manual (<https://www.governmentarchitect.nsw.gov.au/guidance/environmental-design-in-schools>)

#### 5. Environmental Amenity

- Assess amenity impacts on the surrounding locality, including solar access, visual privacy, visual amenity, overshadowing and acoustic impacts.
- Conduct a view analysis to the site from key vantage points and streetscape locations (photomontages or perspectives should be provided showing the building envelope and likely future development).

- Include a lighting strategy and measures to reduce spill into the surrounding sensitive receivers.
- Identify any proposed use of the school outside of school hours (including weekends) and assess any resultant amenity impacts on the immediate locality and proposed mitigation measures.
- Detailed outline of the nature and extent of the intensification of use associated with the increased floor space, particularly in relation to the proposed increase in staff and student numbers.
- Detail amenity impacts including solar access, acoustic impacts, visual privacy, view loss, overshadowing and wind impacts. A high level of environmental amenity for any surrounding residential land uses must be demonstrated.

## **6. Staging**

Provide details regarding the staging of the proposed development (if any).

## **7. Transport and Accessibility**

Include a transport and accessibility impact assessment, which details, but not limited to the following:

- accurate details of the current daily and peak hour vehicle, existing and future public transport networks and pedestrian and cycle movement provided on the road network located adjacent to the proposed development
- details of estimated total daily and peak hour trips generated by the proposal, including vehicle, public transport, pedestrian and bicycle trips based on surveys of the existing and similar schools within the local area
- the adequacy of existing public transport or any future public transport infrastructure within the vicinity of the site, pedestrian and bicycle networks and associated infrastructure to meet the likely future demand of the proposed development
- measures to integrate the development with the existing/future public transport network
- the impact of trips generated by the development on nearby intersections, with consideration of the cumulative impacts from other approved developments in the vicinity, and the need/associated funding for, and details of, upgrades or road improvement works, if required (Traffic modelling is to be undertaken using SIDRA network modelling for current and future years)
- the identification of infrastructure required to ameliorate any impacts on traffic efficiency and road safety impacts associated with the proposed development, including details on improvements required to affected intersections, additional school bus routes along bus capable roads (i.e. minimum 3.5 m wide travel lanes), additional bus stops or bus bays
- details of travel demand management measures to minimise the impact on general traffic and bus operations, including details of a location-specific sustainable travel plan (Green Travel Plan and specific Workplace travel plan) and the provision of facilities to increase the non-car mode share for travel to and from the site
- the proposed walking and cycling access arrangements and connections to public transport services

- the proposed access arrangements, including car and bus pick-up/drop-off facilities, and measures to mitigate any associated traffic impacts and impacts on public transport, pedestrian and bicycle networks, including pedestrian crossings and refuges and speed control devices and zones
- proposed bicycle parking provision, including end of trip facilities, in secure, convenient, accessible areas close to main entries incorporating lighting and passive surveillance
- proposed number of on-site car parking spaces for teaching staff and visitors and corresponding compliance with existing parking codes and justification for the level of car parking provided on-site
- an assessment of the cumulative on-street parking impacts of cars and bus pick-up/drop-off, staff parking and any other parking demands associated with the development
- an assessment of road and pedestrian safety adjacent to the proposed development and the details of required road safety measures and personal safety in line with CPTED
- emergency vehicle access, service vehicle access, delivery and loading arrangements and estimated service vehicle movements (including vehicle type and the likely arrival and departure times)
- the preparation of a preliminary Construction Traffic and Pedestrian Management Plan to demonstrate the proposed management of the impact in relation to construction traffic addressing the following:
  - assessment of cumulative impacts associated with other construction activities (if any)
  - an assessment of road safety at key intersection and locations subject to heavy vehicle construction traffic movements and high pedestrian activity
  - details of construction program detailing the anticipated construction duration and highlighting significant and milestone stages and events during the construction process
  - details of anticipated peak hour and daily construction vehicle movements to and from the site
  - details of on-site car parking and access arrangements of construction vehicles, construction workers to and from the site, emergency vehicles and service vehicle
  - details of temporary cycling and pedestrian access during construction.

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#### Relevant Policies and Guidelines:

- Guide to Traffic Generating Developments (Roads and Maritime Services)
- EIS Guidelines – Road and Related Facilities (DoPI)
- Cycling Aspects of Austroads Guides
- NSW Planning Guidelines for Walking and Cycling
- Austroads Guide to Traffic Management Part 12: Traffic Impacts of Development
- Standards Australia AS2890.3 (Bicycle Parking Facilities).

### **8. Heritage**

The EIS must provide a heritage assessment addressing potential impacts to any State and local heritage items, including but not limited to,

conservation areas, relics, and views. Where any impacts are identified, the assessment must:

- be undertaken by a suitably qualified heritage consultant(s) (note: where archaeological excavations are proposed the relevant consultant must meet the NSW Heritage Council's Excavation Director criteria)
- outline the proposed mitigation and management measures generally consistent with the NSW Heritage Manual (1996)
- consider impacts including, but not limited to, vibration, demolition, archaeological disturbance
- where potential archaeological impacts have been identified develop an appropriate archaeological assessment methodology, including research design, to guide physical archaeological test excavations, and include the results of these test excavations.
- provide a statement of significance and an assessment of the impact on the heritage significance of the heritage items on the site and within proximity and the adjoining heritage conservation area in accordance with the guidelines in the NSW Heritage Manual.
- address any archaeological potential and significance on the site and the impacts the development may have on this significance
- address the significance of the buildings proposed to be demolished.

#### **9. Social Impacts**

Include an assessment of the social consequences of the schools' relative location and decanting activities if proposed.

#### **10. Aboriginal Heritage**

- Identify and describe the Aboriginal cultural heritage values that exist across the site and document these in an Aboriginal Cultural Heritage Assessment Report (ACHAR). This may include the need for surface survey and test excavation.
- Identify and address the Aboriginal cultural heritage values in accordance with the Guide to investigating, assessing and reporting on Aboriginal Cultural Heritage in NSW (OEH, 2011) and Code of Practice for Archaeological Investigations of Aboriginal Objects in NSW (OEH, 2010).
- Undertake consultation with Aboriginal people and document in accordance with Aboriginal cultural heritage consultation requirements for proponents 2010 (DECCW). The significance of cultural heritage values of Aboriginal people who have a cultural association with the land are to be documented in the ACHAR.
- Identify, assess and document all impacts on the Aboriginal cultural heritage values in the ACHAR.
- The EIS and the supporting ACHAR must demonstrate attempts to avoid any impact upon cultural heritage values and identify any conservation outcomes. Where impacts are unavoidable, the ACHAR and EIS must outline measures proposed to mitigate impacts. Any objects recorded as part of the assessment must be documented and notified to OEH.

#### **11. Noise and Vibration**

- Identify and provide a quantitative assessment of the main noise and vibration generating sources during demolition, site preparation,

bulk excavation, construction-related work. Outline measures to minimise and mitigate the potential noise impacts on surrounding occupiers of land.

- Identify and assess operational noise, including consideration of any public-address system, school bell, mechanical services (e.g. air conditioning plant), use of any school hall for concerts etc. (both during and outside school hours) and any out of hours community use of school facilities, and outline measures to minimise and mitigate the potential noise impacts on surrounding occupiers of land.

→ Relevant Policies and Guidelines:

- NSW Noise Policy for Industry 2017 (EPA) including Fact Sheets A and B.
- Interim Construction Noise Guideline (DECC)
- Assessing Vibration: A Technical Guideline 2006
- Development Near Rail Corridors and Busy Roads – Interim Guideline (Department of Planning 2008).

## 12. Contamination

- Assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable for the proposed use in accordance with the provisions of SEPP 55.
- Undertake a hazardous materials survey of all existing structures and infrastructure that may be encountered during demolition, site preparation and bulk excavation prior to any demolition or site preparation works commence.

→ Relevant Policies and Guidelines:

- Managing Land Contamination: Planning Guidelines - SEPP 55 Remediation of Land (DUAP).
- Guidelines for Consultants Reporting on Contaminated Sites 2011 (EPA)
- The National Environment Protection (Assessment of Site Contamination) Measure.

## 13. Utilities

- Prepare an Infrastructure Management Plan in consultation with relevant agencies, detailing information on the existing capacity and any augmentation and easement requirements of the development for the provision of utilities including staging of infrastructure.
- Prepare an Integrated Water Management Plan detailing any proposed alternative water supplies, proposed end uses of potable and non-potable water, and water sensitive urban design.

## 14. Water-related Infrastructure Requirements

- Determine service demands following servicing investigations and demonstrate that satisfactory arrangements for drinking water, wastewater, and recycled water (if required) services have been made.
- Obtain endorsement and/or approval from Sydney Water to ensure that the proposed development does not adversely impact on any existing water, wastewater or stormwater main, or other Sydney



Water asset, including any easement or property. When determining landscaping options, the proponent should take into account that certain tree species can cause cracking or blockage of Sydney Water pipes and therefore should be avoided.

- Ensure that satisfactory steps/measures been taken to protect existing stormwater assets, such as avoiding building over and/or adjacent to stormwater assets and building bridges over stormwater assets. The proponent should consider taking measures to minimise or eliminate potential flooding, degradation of water quality, and avoid adverse impacts on any heritage items, and create pipeline easements where required.

#### **15. Integrated Water Cycle Management**

- Outline any sustainability initiatives that will minimise/reduce the demand for drinking water, including any alternative water supply and end uses of drinking and non-drinking water that may be proposed, and demonstrate water sensitive urban design (principles are used), and any water conservation measures that are likely to be proposed.

#### **16. Drainage**

- Detail measures to minimise operational water quality impacts on surface waters and groundwater.
- Stormwater plans detailing the proposed methods of drainage without impacting on the downstream properties.
- Assess, quantify and report on the runoff impacts during demolition, site preparation, bulk excavation, construction and construction-related work.

→ Relevant Policies and Guidelines:

- Guidelines for development adjoining land and water managed by DECCW (OEH, 2013).

#### **17. Flooding**

Identify flood risk on-site (detailing the most recent flood studies for the project area) and consideration of any relevant provisions of the NSW Floodplain Development Manual (2005), including the potential effects of climate change, sea level rise and an increase in rainfall intensity. If there is a material flood risk, include design solutions for mitigation.

#### **18. Bushfire**

Address bushfire hazard and, if relevant, prepare a report that addresses the requirements for Special Fire Protection Purpose Development as detailed in Planning for Bush Fire Protection 2006 (NSW RFS).

#### **19. Biodiversity Assessment**

- Biodiversity impacts related to the proposed development (SSD 9914) are to be assessed in accordance with the Biodiversity Assessment Method and documented in a Biodiversity Development Assessment Report (BDAR). The BDAR must include information in the form detailed in the *Biodiversity Conservation Act 2016* (s6.12), *Biodiversity Conservation Regulation 2017* (s6.8) and Biodiversity

#### Assessment Method.

- The BDAR must document the application of the avoid, minimise and offset framework including assessing all direct, indirect and prescribed impacts in accordance with the Biodiversity Assessment Method.
- The BDAR must include details of the measures proposed to address the offset obligation as follows:
  - the total number and classes of biodiversity credits required to be retired for the development/project
  - the number and classes of like-for-like biodiversity credits proposed to be retired
  - the number and classes of biodiversity credits proposed to be retired in accordance with the variation rules
  - any proposal to fund a biodiversity conservation action
  - any proposal to make a payment to the Biodiversity Conservation Fund.
- If seeking approval to use the variation rules, the BDAR must contain details of the reasonable steps that have been taken to obtain requisite like-for-like biodiversity credits.
- The BDAR must be prepared by a person accredited in accordance with the Accreditation Scheme for the Application of the Biodiversity Assessment Method Order 2017 under s6.10 of the *Biodiversity Conservation Act 2016*.
- Where a Biodiversity Assessment Report is not required, engage a suitably qualified person to assess and document the flora and fauna impacts related to the proposal.

*Note: Notwithstanding these requirements, the Biodiversity Conservation Act 2016 requires that State Significant Development Applications be accompanied by a Biodiversity Development Assessment Report unless otherwise specified under the Act.*

### **20. Sediment, Erosion and Dust Controls**

Detail measures and procedures to minimise and manage the generation and off-site transmission of sediment, dust and fine particles during demolition, site preparation, bulk excavation, construction and construction-related work.

→ Relevant Policies and Guidelines:

- Managing Urban Stormwater – Soils & Construction Volume 1 2004 (Landcom)
- Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (EPA)
- Guidelines for development adjoining land and water managed by DECCW (OEH, 2013).

### **21. Waste**

- Identify, quantify and classify the likely waste streams to be generated during construction and operation and describe the measures to be implemented to manage, reuse, recycle and safely dispose of this waste.
- Identify and detail how any asbestos waste, lead-based paint and Polychlorinated biphenyls (PCBs) that may be encountered will be

	<p>handled, transported and disposed.</p> <ul style="list-style-type: none"> <li>• Identify appropriate servicing arrangements (including but not limited to, waste management, loading zones, mechanical plant) for the site.</li> <li>• Assess, quantify and report on waste management in the context of the waste management hierarchy.</li> </ul> <p>→ Relevant Policies and Guidelines:</p> <ul style="list-style-type: none"> <li>• Waste Classification Guideline Part 1 (EPA)</li> <li>• NSW EPA Sampling Design Guidelines (EPA).</li> </ul> <p><b>22. Construction Hours</b></p> <p>Identify proposed construction hours and provide details of the instances where it is expected that works will be required to be carried out outside the standard construction hours.</p> <p><b>23. Ecologically Sustainable Development (ESD)</b></p> <ul style="list-style-type: none"> <li>• Detail how ESD principles (as defined in clause 7(4) of Schedule 2 of the Regulation) will be incorporated in the design and ongoing operation phases of the development.</li> <li>• Include a framework for how the future development will be designed to consider and reflect national best practice sustainable building principles to improve environmental performance and reduce ecological impact. This should be based on a materiality assessment and include waste reduction design measures, future proofing, use of sustainable and low-carbon materials, energy and water efficient design (including water sensitive urban design) and technology and use of renewable energy.</li> <li>• Include preliminary consideration of building performance and mitigation of climate change.</li> <li>• Include an assessment against an accredited ESD rating system or an equivalent program of ESD performance. This should include a minimum rating scheme target level.</li> <li>• Provide a statement regarding how the design of the future development is responsive to the CSIRO projected impacts of climate change, specifically:             <ul style="list-style-type: none"> <li>○ hotter days and more frequent heatwave events</li> <li>○ extended drought periods</li> <li>○ more extreme rainfall events</li> <li>○ gustier wind conditions</li> <li>○ how these will inform landscape design, material selection and social equity aspects (respite/shelter areas).</li> </ul> </li> </ul> <p>→ Relevant Policies and Guidelines:</p> <ul style="list-style-type: none"> <li>• NSW and ACT Government Regional Climate Modelling (NARCLIM) climate change projections.</li> </ul>
<p><b>Plans and Documents</b></p>	<p>The EIS must include all relevant plans, architectural drawings, diagrams and relevant documentation required under Schedule 1 of the Regulation. Provide these as part of the EIS rather than as separate documents.</p> <p>In addition, the EIS must include the following:</p> <ul style="list-style-type: none"> <li>• A Section 10.7(2) &amp; (5) Planning Certificates (previously Section</li> </ul>

- 149(2) & (5) Planning Certificate)
- Architectural drawings showing key dimensions, RLs, scale bar and north point, including:
    - plans, sections and elevation of the proposal at no less than 1:200 showing indicative furniture layouts and program
    - illustrated materials schedule including physical or digital samples board with correct proportional representation of materials, nominated colours and finishes
    - details of proposed signage, including size, location and finishes
    - detailed annotated wall sections at 1:20 scale that demonstrate typical cladding, window and floor details, including materials and general construction quality
    - site plans and operations statement demonstrating the after-hours and community use strategy
  - Site Survey Plan, showing existing levels, location and height of existing and adjacent structures / buildings and site boundaries
  - Site Analysis Plan including
    - site and context plans that demonstrate principles for future development and expansion, built form character and open space network
    - active transport linkages with existing, proposed and potential footpaths and bicycle paths and public transport links
    - site and context plans that demonstrate principles for future network, active transport linkages with existing, proposed and potential footpaths and bicycle paths and public transport links
  - Sediment and Erosion Control Plan
  - Shadow Diagrams
  - View analysis, photomontages and architectural renders, including from those from public vantage points
  - Landscape architectural drawings showing key dimensions, RLs, scale bar and north point, including:
    - integrated landscape plans at appropriate scale, with detail of new and retained planting, shade structures, materials and finishes proposed including articulation of playground spaces
    - plan identifying significant trees, trees to be removed and trees to be retained or transplanted
  - Design report to demonstrate how design quality will be achieved in accordance with the above Key Issues including:
    - architectural design statement
    - diagrams, structure plan, illustrations and drawings to clarify the design intent of the proposal
    - detailed site and context analysis
    - analysis of building location options considered including building envelope study to justify the proposed site planning and design approach, taking into account the location of existing trees and the context of surrounding development forms including existing street edge conditions
    - visual impact assessment identifying potential impacts on the surrounding built environment and adjoining heritage items and heritage conservation area
    - summary of feedback provided by GANSW and NSW State Design Review Panel (SDRP) and responses to this advice
    - summary report of consultation with the community and

	<p>response to any feedback provided</p> <ul style="list-style-type: none"> <li>• Geotechnical and Structural Report</li> <li>• Accessibility Report</li> <li>• Arborist Report</li> <li>• Acid Sulphate Soils Management Plan (if required) and</li> <li>• Schedule of materials and finishes.</li> </ul>
<b>Consultation</b>	<p>During the preparation of the EIS, you must consult with the relevant local, State or Commonwealth Government authorities, service providers, community groups, special interest groups including local Aboriginal land councils and registered Aboriginal stakeholders and affected landowners. In particular, you must consult with:</p> <ul style="list-style-type: none"> <li>• City of Sydney Council</li> <li>• Government Architect NSW (through the NSW SDRP process)</li> <li>• Transport for NSW and</li> <li>• Roads and Maritime Services.</li> </ul> <p>Consultation with TfNSW, GA and RMS should commence as soon as practicable to agree the scope of investigation.</p> <p>The EIS must describe the consultation process and the issues raised, and identify where the design of the development has been amended in response to these issues. Where amendments have not been made to address an issue, a short explanation should be provided.</p>
<b>Further consultation after 2 years</b>	<p>If you do not lodge a Development Application and EIS for the development within 2 years of the issue date of these SEARs, you must consult further with the Secretary in relation to the preparation of the EIS.</p>
<b>References</b>	<p>The assessment of the key issues listed above must take into account relevant guidelines, policies, and plans as identified. While not exhaustive, the following attachment contains a list of some of the guidelines, policies, and plans that may be relevant to the environmental assessment of this proposal.</p>