

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

Application Number	SSD-10349
Project Name	Multi-Trades and Digital Technology Hub at TAFE Meadowbank
Location	TAFE Meadowbank, See Street, Meadowbank
Applicant	TAFE NSW
Date of Reissue	28 August 2019
General Requirements	<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 of the Environmental Planning and Assessment Regulation 2000 (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 key issues below, and any other significant issues identified in the risk assessment, must include:</p> <ul style="list-style-type: none"> • adequate baseline data; • consideration of the potential cumulative impacts due to other developments in the vicinity (completed, underway or proposed); and • measures to avoid, minimise and if necessary, offset predicted impacts, including detailed contingency plans for managing any significant risks to the environment. <p>The EIS must also be accompanied by:</p> <ul style="list-style-type: none"> • high quality files of maps and figures of the subject site and proposal; and • a report from a qualified quantity surveyor providing: <ul style="list-style-type: none"> – 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. The report shall be prepared on company letterhead and indicate applicable GST component of the CIV; – an estimate of jobs that will be created during the construction and operational phases of the proposed development; and – certification that the information provided is accurate at the date of preparation.
Key issues	<p>The EIS must address the following specific matters:</p> <p>1. Statutory and Strategic Context Address the statutory provisions contained in all relevant environmental planning instruments, including:</p> <ul style="list-style-type: none"> • <i>Biodiversity Conservation Act 2016</i>; • State Environmental Planning Policy (State & Regional Development) 2011;

	<ul style="list-style-type: none"> • 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 • Ryde Local Environmental Plan 2014. <p>Permissibility Detail the nature and extent of any prohibitions that apply to the development.</p> <p>Development Standards Identify compliance with the development standards applying to the site and provide justification for any contravention of the development standards.</p> <p>Provisions Adequately demonstrate and document in the EIS how each of the provisions in the listed instruments are addressed, including reference to necessary technical documents.</p> <p>2. Policies Address the relevant planning provisions, goals and strategic planning objectives in the following:</p> <ul style="list-style-type: none"> • 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; • Healthy Urban Development Checklist (NSW Health, 2009); • Better Placed – an integrated design policy for the build environment of NSW (Government Architect NSW (GANSW), 2017); and • Ryde Development Control Plan 2014. <p>3. Operation Provide details of the existing and proposed operations, including staff and student numbers, and hours of operation.</p> <p>4. Built Form and Urban Design</p> <ul style="list-style-type: none"> • 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. • Detail how services, including but not limited to waste management, loading zones, and mechanical plant are integrated into the design of the development.
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- Provide detailed site and context analysis to justify the proposed site planning and design approach including massing options and preferred strategy for future development.
- Provide a detailed site-wide landscape strategy, including consideration of integration with built form, security, shade, topography and existing vegetation.
- Address CPTED Principles.

5. Environmental Amenity

- 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.
- 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.

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 existing TAFE facilities and similar schools within the local area;
- existing car parking capacity and utilisation on streets within a 400 metre radius from the site on a typical weekday covering at least one hour before and after the proposed hours of operation (including night classes);
- the adequacy of existing public transport services or any future public transport infrastructure within the vicinity of the site, pedestrian and bicycle networks and associated infrastructure within the vicinity of the site 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 the existing TAFE building(s) which are currently being refurbished, including the potential increase in student population and increase in traffic and parking demands;
- the impact of trips generated by the development on the area-wide network, with consideration of the cumulative impacts from other proposed and / or 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 and services required to ameliorate any impacts on traffic flow efficiency and road user safety impacts associated with the proposed development,

	<p>including details on improvements required to affected intersections, additional bus routes along bus capable roads (i.e. minimum 3.5 m wide travel lanes), additional bus stops or bus bays;</p> <ul style="list-style-type: none"> • 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 future pedestrian and cyclist desire lines, 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; • identify the loss of existing on site parking as a result of the development and the recent reduction in area of the TAFE site; • proposed number of on-site car parking spaces for staff, students and visitors and corresponding compliance with existing parking codes (i.e. City of Ryde Development Control Plan) and justification for the level of car parking provided on-site and an assessment of the impact on the on street capacity and utilisation; • the short term reduction of existing car parking spaces for staff, students and visitors due to the proposed construction works and the proposed location, operational and functional characteristics of the re-allocated staff, students and visitors car parking area; • 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 and provide any associated recommendations to ameliorate any such impacts; • 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 location and loading arrangements including swept path diagrams of the largest design vehicle showing forward inbound and forward outbound movements 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: <ul style="list-style-type: none"> – assessment of cumulative impacts associated with other construction activities (if any); – how these impacts will be mitigated for any associated traffic, pedestrian, cyclists, parking and public transport service; – 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;
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- details of on-site car parking and access arrangements of construction vehicles, construction workers to and from the site, emergency vehicles and service vehicle; and
- details of temporary cycling and pedestrian access during construction.

Relevant Policies and Guidelines:

- Guide to Traffic Generating Developments (Roads and Maritime Services, 2002).
- EIS Guidelines – Road and Related Facilities (Department of Urban Affairs and Planning (DUAP), 1996).
- Cycling Aspects of Austroads Guides.
- NSW Planning Guidelines for Walking and Cycling (Department of Infrastructure Planning and Natural Resources (DIPNR), 2004).
- Austroads Guide to Traffic Management Part 12: Traffic Impacts of Development.
- Standards Australia AS2890.1 (Off-Street car parking).
- Standards Australia AS2890.2 (Parking Facilities Off-street commercial vehicle facilities).
- Standards Australia AS2890.3 (Bicycle Parking Facilities).
- Standards Australia AS2890.5 (On-street car parking).
- Standards Australia AS2890.6 (Off-street parking for people with disabilities).
- City of Ryde Bicycle Strategy.
- City of Ryde Integrated Transport Strategy.

8. Ecologically Sustainable Development (ESD)

- 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.
- 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.
- Include preliminary consideration of building performance and mitigation of climate change, including consideration of Green Star Performance.
- 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.
- Provide a statement regarding how the design of the future development is responsive to the CSIRO projected impacts of climate change, specifically:
 - hotter days and more frequent heatwave events;
 - extended drought periods;
 - more extreme rainfall events;
 - gustier wind conditions; and
 - how these will inform landscape design, material selection and social equity aspects (respite/shelter areas).

Relevant Policies and Guidelines:

- NSW and ACT Government Regional Climate Modelling (NARClIM) climate change projections.

9. Heritage

- Provide a statement of significance and an assessment of the impact on the heritage significance of the heritage items on or adjacent to the site in accordance with the guidelines in the NSW Heritage Manual (Heritage Office and DUAP, 1996).
- Address any archaeological potential and significance on the site and the impacts the development may have on this significance.

10. Social Impacts

- Prepare a social impact assessment, which:
 - identifies and analyses the potential social impacts of the development, from the points of view of the affected community/ies and other relevant stakeholders, i.e. how they expect to experience the project
 - considers how potential environmental changes in the locality may affect people's: way of life; community; access to and use of infrastructure, services, and facilities; culture; health and wellbeing; surroundings; personal and property rights; decision-making systems; and fears and aspirations, as relevant and considering how different groups may be disproportionately affected
 - assesses the significance of positive, negative, and cumulative social impacts considering likelihood, extent, duration, severity/scale, sensitivity/importance, and level of concern/interest
 - includes mitigation measures for likely negative social impacts, and any proposed enhancement measures
 - details how social impacts will be adaptively monitored and managed over time

11. 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 (Office of Environment and Heritage (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 (Department of Environment, Climate Change and Water) (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 the Environment, Energy and Science Group of the Department of Planning, Industry and Environment.

12. Noise and Vibration

- Identify and provide a quantitative assessment of the main noise and vibration generating sources during demolition, site preparation, bulk excavation, construction. 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, mechanical services (e.g. trade equipment, air conditioning plant), use of site facilities for events, 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 (NSW Environment Protection Authority (EPA)).
- Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009).
- Assessing Vibration: A Technical Guideline (Department of Environment and Conservation, 2006).
- Development Near Rail Corridors and Busy Roads – Interim Guideline (Department of Planning, 2008).
- Australian Standard 2363:1999 Acoustics – Measurement of noise from helicopter operations.

13. Contamination

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

Relevant Policies and Guidelines:

- Managing Land Contamination: Planning Guidelines - SEPP 55 Remediation of Land (DUAP, 1998).
- Sampling Design Guidelines (EPA, 1995).
- Guidelines for Consultants Reporting on Contaminated Sites (OEH, 2011).
- National Environment Protection (Assessment of Site Contamination) Measure (National Environment Protection Council, as amended 2013).

14. 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.
- Identify any potential impacts of the proposed construction and operation on existing utility infrastructure (and impacts of existing utility infrastructure on the proposal) and service provider assets and demonstrate how these will be protected or impacts mitigated.

Relevant Policies and Guidelines:

- Guidelines for limiting exposure to time-varying electric and magnetic fields (1 Hz – 100 kHz) (International Commission on Non-Ionizing Radiation Protection (ICNIRP), 2010).

15. Contributions

Address Council's 'Section 7.11/7.12 Contribution Plan' and/or details of any Voluntary Planning Agreement, which may be required to be amended because of the proposed development.

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.

Relevant Policies and Guidelines:

- Guidelines for developments adjoining land managed by the Office of Environment and Heritage (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 (DIPNR, 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. Flora and Fauna

Engage a suitably qualified person to assess and document the flora and fauna impacts related to the proposal.

19. 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.

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 developments adjoining land managed by the Office of Environment and Heritage (OEH, 2013).

20. Acid Sulphate Soils

Prepare an Acid Sulphate Soil Management Plan or otherwise address Clause 6.1 of the Ryde Local Environmental Plan 2014.

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 appropriate servicing arrangements (including but not limited to, waste management, loading zones, mechanical plant) for the site.

Relevant Policies and Guidelines:

- Waste Classification Guidelines (EPA, 2014).

22. Construction Hours

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>Plans and Documents</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"> • Section 10.7(2) and (5) Planning Certificates (previously Section 149(2) and (5) Planning Certificate); • Architectural drawings showing key dimensions, RLs, scale bar and north point, including: <ul style="list-style-type: none"> – plans, sections and elevation of the proposal at no less than 1:200; – 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; • Site Survey Plan, showing existing levels, location and height of existing and adjacent structures / buildings and site boundaries; • Site Analysis Plan, including: <ul style="list-style-type: none"> – site and context plans that demonstrate principles for future development and expansion, built form character and open space network; – precinct scale plan showing relationship of the proposal to any proposed development on surrounding land; – active transport linkages with existing, proposed and potential footpaths and bicycle paths and public transport links; and – 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: <ul style="list-style-type: none"> ○ integrated landscape plans at appropriate scale, with detail of new and retained planting, shade structures, materials and finishes; ○ 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: <ul style="list-style-type: none"> – architectural design statement; – diagrams, structure plan, illustrations and drawings to clarify the design intent of the proposal; – detailed site and context analysis; – analysis of options considered including building envelope study to justify the proposed site planning and design approach; – visual impact assessment identifying potential impacts on the surrounding built environment and adjoining heritage items; – summary of feedback provided by GANSW and NSW State Design Review Panel (SDRP) and responses to this advice;
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	<ul style="list-style-type: none"> – summary report of consultation with the community and response to any feedback provided; – how Aboriginal culture and heritage has been considered and incorporated into the design; • Geotechnical and Structural Report; • Accessibility Report; • Arborist Report; • Salinity Investigation Report (where required); • Acid Sulphate Soils Management Plan; and • Schedule of materials and finishes.
Consultation	<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"> • City of Ryde Council; • GANSW (through the NSW SDRP process); • Transport for NSW; and • Transport for NSW (Roads and Maritime Services). <p>Consultation 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>
Further consultation after 2 years	<p>If you do not lodge a development application and EIS for the development within two years of the issue date of these SEARs, you must consult further with the Planning Secretary in relation to the preparation of the EIS.</p>
References	<p>The assessment of the key issues listed above must consider relevant guidelines, policies, and plans as identified.</p>