Development Application and Planning Proposal Review NSW Planning Portal Concurrence and Referral



Authority	Authority's Reference	Agency Concurrence and Referral	Authority Contact	Authority Notification	Submission Due	Submission Made
NSW Dept. Planning & Environment	SSD-35715221		Prity Cleary	8/11/2022	5/12/2022	9/11/2022

Address	Land Title
10 Morris Grove and 132-152 Wrights Road, Kellyville	Lot 10 DP 1169003

Scope of Development Application or Planning Proposal

Environmental Impact Statement (EIS) for the Concept and Stage 1 application for redevelopment of William Clarke College. Comprising Concept - alterations and additions to building, increase in student enrolment and ancillary landscaping and car park works, stage 1 - Bryson building, student enrolment and ancillary works.

As shown in the below site plan from Endeavour Energy's G/Net master facility model:

There are:

- Easements benefitting Endeavour Energy (indicated by red hatching) for:
 - Padmount substation no. 9930 and associated low voltage and 11,000 volt / 11 kilovolt (kV) high voltage underground cables.
 - Padmount substation no. 25260 and restrictions for fire rating and swimming pool or spa.
 - Padmount substation no. 32443 and restriction for fire rating.
 - o Padmount substation no. 54139 and restriction for fire rating.
 - Low voltage and 11 kV high voltage underground cables from Wrights Road to padmount substation no. 54139.
- Low voltage underground cables to the Green Road road verge / roadway.
- Low voltage and 11 kV (constructed at 22,000 volt / 22 kV) high voltage underground cables, padmount substation no. 25298, and low voltage, 11 kV high voltage and 33,000 volt / 33 kV high voltage overhead power lines, overhead earth cables and overhead pilot cables (carrying protection signals or communications between substations) to the Morris Grove road verge / roadway.
- Low voltage and 11 kV high voltage underground cables to the Wrights Road road verge / roadway.
- Low voltage and 11 kV high voltage underground cables to the Cormack Circuit road verge / roadway.
- Low voltage underground cables to the Rialto Place road verge / roadway.



Endeavour Energy
ABN 11 247 365 823
T 133 718
51 Huntingwood Drive
Huntingwood NSW 2148
PO Box 811, Seven Hills NSW 1730
endeavourenergy.com.au

Relevant / applicable clause numbers from Endeavour Energy's standard conditions for Development Application and Planning Proposal Review indicated by $^{\boxtimes}$.

Cond- ition	Advice	Clause No.	Issue	Detail
		1	Adjoining Sites	Adjoining or nearby development / use should be compatible with the use of Endeavour Energy's sites.
		2	Asbestos	Area identified or suspected of having asbestos or asbestos containing materials (ACM) present in the electricity network.
		3	Asset Planning	Applicants should not assume adequate supply is immediately available to facilitate their proposed development.
		4	Asset Relocation	Application must be made for an asset relocation / removal to determine possible solutions to the developer's requirements.
		5	Before You Dig	Before commencing any underground activity the applicant must obtain advice from the Before You Dig service.
		6	Bush Fire	Risk needs to be managed to maintain the safety of customers and the communities served by the network.
		7	Construction Management	Integrity of electricity infrastructure must be maintained and not impacted by vehicle / plant operation, excessive loads, vibration, dust or moisture penetration.
		8	Contamination	Remediation may be required of soils or surfaces impacted by various forms of electricity infrastructure.
		9	Demolition	All electricity infrastructure shall be regarded as live and care must be taken to not interfere with any part of the electricity network.
		10	Dispensation	If a proposal is not compliant with Endeavour Energy's engineering documents or standards, the applicant must request a dispensation.
		11	Driveways	For public / road safety and to reduce the risk of vehicle impact, the distance of driveways from electricity infrastructure should be maximised.
\boxtimes		12	Earthing	The construction of any building or structure connected to or in close proximity to the electrical network must be properly earthed.
\boxtimes		13	Easement Management	Preference is for no activities to occur in easements and they must adhere to minimum safety requirements.
		14	Easement Release	No easement is redundant or obsolete until it is released having regard to risks to its network, commercial and community interests.
		15	Easement Subdivision	The incorporation of easements into to multiple / privately owned lots is generally not supported.
		16	Emergency Contact	Endeavour Energy's emergency contact number 131 003 should be included in any relevant risk and safety management plan.
		17	Excavation	The integrity of the nearby electricity infrastructure shall not be placed at risk by the carrying out of excavation work.
	\boxtimes	18	Flooding	Electricity infrastructure should not be subject to flood inundation or stormwater runoff.
		19	Hazardous Environment	Electricity infrastructure can be susceptible to hazard sources or in some situations be regarded as a hazardous source.
		20	Modifications	Amendments can impact on electricity load and the contestable works required to facilitate the proposed development.
\boxtimes		21	Network Access	Access to the electricity infrastructure may be required at any time particularly in the event of an emergency.
		22	Network Asset Design	Design electricity infrastructure for safety and environmental compliance consistent with safe design lifecycle principles.
\boxtimes		23	Network Connection	Applicants will need to submit an appropriate application based on the maximum demand for electricity for connection of load.

Cond- ition	Advice	Clause No.	Issue	Detail
		24	Protected Works	Electricity infrastructure without an easement is deemed to be lawful for all purposes under Section 53 'Protection of certain electricity works' of the <i>Electricity Supply Act</i> 1995 (NSW).
		25	Prudent Avoidance	Development should avert the possible risk to health from exposure to emissions form electricity infrastructure such as electric and magnetic fields (EMF) and noise.
		26	Public Safety	Public safety training resources are available to help general public / workers understand the risk and how to work safely near electricity infrastructure.
		27	Removal of Electricity	Permission is required to remove service / metering and must be performed by an Accredited Service Provider.
		28	Safety Clearances	Any building or structure must comply with the minimum safe distances / clearances for the applicable voltage/s of the overhead power lines.
		29	Security / Climb Points	Minimum buffers appropriate to the electricity infrastructure being protected need to be provided to avoid the creation of climb points.
		30	Service Conductors	Low voltage service conductors and customer connection points must comply with the 'Service and Installation Rules of NSW'.
		31	Solar / Generation	The performance of the generation system and its effects on the network and other connected customers needs to be assessed.
		32	Streetlighting	Streetlighting should be reviewed and if necessary upgraded to suit any increase in both vehicular and pedestrian traffic.
		33	Sustainability	Reducing greenhouse gas emissions and helping customers save on their energy consumption and costs through new initiatives and projects to adopt sustainable energy technologies.
		34	Swimming Pools	Whenever water and electricity are in close proximity, extra care and awareness is required.
		35	Telecommunications	Address the risks associated with poor communications services to support the vital electricity supply network Infrastructure.
\boxtimes		36	Vegetation Management	Landscaping that interferes with electricity infrastructure is a potential safety risk and may result in the interruption of supply.
	eted by:			Decision
Cornelis	s Duba			Approve (with conditions)

Cornelis Duba | Development Application Specialist

M 0455250981

E cornelis.duba@endeavourenergy.com.au

51 Huntingwood Drive, Huntingwood NSW 2148. Dharug Country

endeavourenergy.com.au in 😝 🗈 💆















Endeavour Energy respectfully acknowledges the Traditional Custodians on whose lands we live, work, and operate and their Elders past, present and emerging.

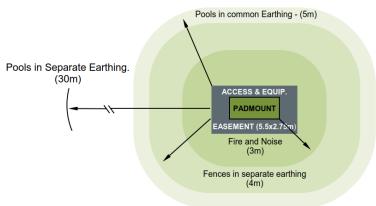
Reason(s) for Conditions / Decision (If applicable)

- The Environmental Impact Statement does not appear to address the easements and electricity
 infrastructure on or near the site. From the below copy of the Concept Master Plan where the location of
 the padmount substations has been highlighted by the red circles, it does not appear that proposed
 alterations and additions will directly impact the padmount substation easements or restrictions.
- All encroachments and /or activities (works) within or affecting an easement (other than those approved / certified by Endeavour Energy's Customer Network Solutions Branch as part of an enquiry / application for load or asset relocation project and even if not part of the Development Application) need to be referred to Endeavour Energy's Easement Officer for assessment and possible approval if they meet the minimum safety requirements and controls. However please note that this does not constitute or imply the granting of approval by Endeavour Energy to any or all of the proposed encroachments and / or activities within the easement.

For further information please refer to the attached copies of Endeavour Energy's:

- General Restrictions for Underground Cables.
- Guide to Fencing, Retaining Walls and Maintenance Around Padmount Substations.
- Mains Design Instruction MDI 0044 'Easements and Property Tenure Rights' which deals with activities / encroachments within easements.
- As shown in the following extract of Endeavour Energy's Mains Design Instruction MDI 0044 'Easements and Property Tenure Rights', Figure A4.3 'Padmount easements and clearances', padmount substations require:
 - Easement with a minimum size of 2.75 x 5.5 metres (single transformer).
 - Restriction for fire rating which usually extends 3 metres horizontally from the base of the substation footing / plinth.
 - Restriction for swimming pools which extends 5 metres from the easement (which may not be required for non-residential use).





These clearances were introduced on a case for case basis from 2003 before becoming standard in 2009. Whilst the restrictions are not included with all the easements for the padmount substations on and near the site, Endeavour Energy strongly recommends that they be considered and adopted for any new development.

• The Infrastructure Assessment Report does not appear to address in detail whether the electricity services are available and adequate for the proposed development.

3.1 Electricity

The existing site is served by Endeavour (Integral) Energy network using existing substation No 9930 located on Wrights Road. The main switchboard is located within the existing Main Switch Room in Building 14 (6).

There are three further substations on-site – substation No. 54139 located on Cormac Circuit serving the Branwhite Centre, substation No. 25260 located on Morris Grove and substation No. 32433 located on Morris Grove serving the Sports Complex.

The existing substations serving the site are suitably sized to cater for the existing and proposed buildings on site.

- To ensure an adequate connection, the applicant will need to engage an Accredited Service Provider (ASP) of an appropriate level and class of accreditation to assess the electricity load and the proposed method of supply for the development.
- An extension and / or augmentation of the existing local network may be required. The existing padmount
 substations on and near the site are likely to have some spare capacity, but it is not unlimited and may not
 be sufficient to facilitate the increase in load from the proposed development.

Other factors such as the size and rating / load on the conductors and voltage drop (which can affect the quality of supply particularly with long conductor runs) etc. need to be assessed. However the extent of any works required will not be determined until the final load assessment is completed.

- Any required padmount substation will need to be located within the property (in a suitable and accessible location) and be protected (including any associated cabling) by an easement and associated restrictions benefiting and gifted to Endeavour Energy. Please refer to Endeavour Energy's Mains Design Instruction MDI 0044 'Easements and Property Tenure Rights'.
- The minimum required safety clearances and controls for building and structures (whether temporary or
 permanent) and working near overhead power lines must be maintained at all times. If there is any doubt
 whatsoever regarding the safety clearances to the overhead power lines, the applicant will need to have
 the safety clearances assessed by a suitably qualified electrical engineer / Accredited Service Provider
 (ASP).

Even if there is no issue with the safety clearances to the building and structures, consideration must be given to WorkCover (now SafeWork NSW) 'Work Near Overhead Power Lines Code of Practice 2006' eg. ordinary persons must maintain a minimum safe approach distance of 3.0 metres to all voltages up to and including 132,000 volts / 132 kilovolt (kV).

Whilst there may be no restrictions in legislation that stop sensitive uses such as schools, pre-schools, day
/ child care centres being placed next to electricity infrastructure, prudent avoidance measures should
however be implemented.

As a guide please refer to the Endeavour Energy's Mains Design Instruction MDI 0044 'Easements and Property Tenure Rights', Table 1 – 'Minimum easement widths'. With the observance of these separation distances, electric and magnetic fields (EMF) should not exceed the recommended magnetic field public exposure limits.

Nonetheless the applicant may wish to commission an independent review to provide an overall assessment and the consideration and adoption of prudent avoidance principles.

The planting of large / deep rooted trees near electricity infrastructure is opposed by Endeavour Energy.
 Existing trees which are of low ecological significance in proximity of electricity infrastructure should be removed and if necessary replaced by an alternative smaller planting. The landscape designer will need to ensure any planting near electricity infrastructure achieves Endeavour Energy's vegetation management requirements.

No planting is allowed in the easement for a padmount substation. Screening vegetation around a padmount substation should be planted a minimum distance of 800mm plus half of the mature canopy width from the substation easement and have shallow / non-invasive roots. This is to avoid trees growing over the easement as falling branches may damage the cubicle and tree roots the underground cables. All vegetation is to be maintained in such a manner that it will allow unrestricted access by electrical workers to the substation easement all times.

Not all the conditions / advice marked may be directly or immediately relevant or significant to the
Development Application. However, Endeavour Energy's preference is to alert proponents / applicants of
the potential matters that may arise should development within closer proximity of the existing and/or
required electricity infrastructure needed to facilitate the proposed development on or in the vicinity of the
site occur.

Condition or Advice

With Endeavour Energy's Development Application and Planning Proposal Review process / system the intent of the 'Standard Conditions' being indicated as either a 'Condition' or 'Advice' essentially depends on the risk associated with the matter. If the matter is one that is likely or very likely to be an issue / needed to be addressed by the applicant and may require corrective action, then it is marked as a 'Condition'. If the matter is less likely and the consequences of the applicant not addressing it are lower or can be readily rectified, then it is marked as 'Advice'. If the matter is considered to be not applicable / relevant then it is not marked as either.

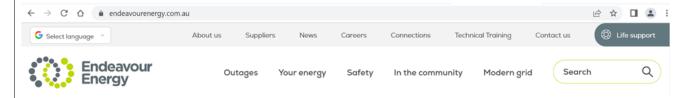
For example, the obtaining advice from the Before You Dig service in accordance with the requirements of the *Electricity Supply Act 1995* (NSW) and associated Regulations is a standard / regulatory requirement. It will be generally indicated as 'Advice'. If the Site Plan from Endeavour Energy's G/Net Master Facility Model indicates there is some uncertainty over the extent or location of the underground cables on or near the site, it would then be indicated as 'Condition' and require action to be undertaken by the applicant eg. the use of an underground asset locating device or a certified locator to verify the asset location.

Decision

In the NSW Planning Portal for the 'Agency response', as Endeavour Energy is not a concurring authority under the provision of the *Environmental Planning and Assessment Act 1979* (NSW), it does not 'Approve' or 'Refuse' a Development Application in the Portal. It will 'Approve (with conditions)' (which may 'Object' in the submission and detail the matters requiring resolution), or if all the matters in the submission are marked are for 'Advice', the outcome of the assessment will also be 'Advice'.

Further Advice

The 'Standard Conditions' include additional advice and contact details and further information is also available on Endeavour Energy's website at https://www.endeavourenergy.com.au/



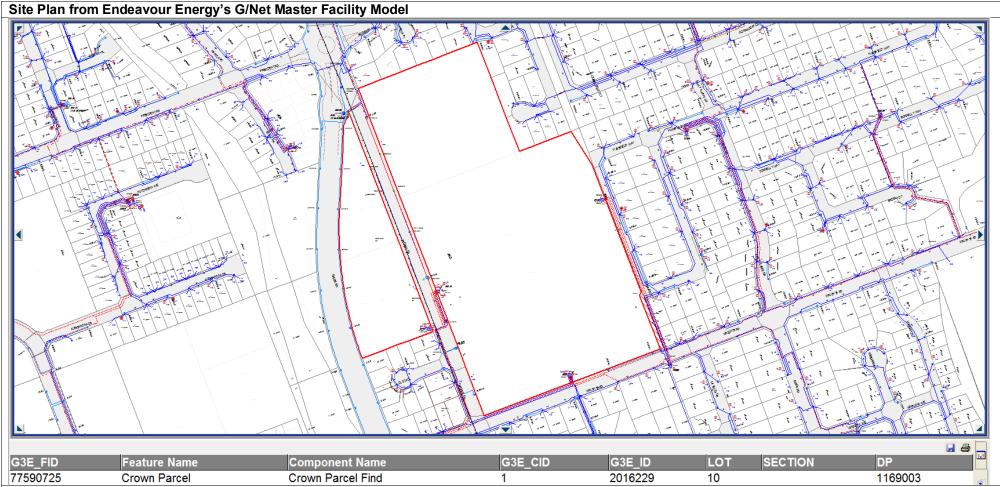
The following contacts can be reached by calling Endeavour Energy via Head Office enquiries on business days from 9am - 4:30pm on telephone: 133 718 or (02) 9853 6666.

Branch / Section	Matters	Email
Customer Network Solutions	Electricity supply or asset relocation who are responsible for managing the conditions of supply with the applicant and their Accredited Service Provider (ASP).	cicadmin@endeavourenergy.com.au
Easement Officers	Easement management or protected works / assets.	Easements@endeavourenergy.com.au
Property	Property tenure eg. the creation or release of easements.	network_property@endeavourenergy.com.au
Field Operations (to the relevant Field Service Centre).	Safety advice for building or working near electrical assets in public areas (including zone and transmission substations).	Construction.Works@endeavourenergy.com.au

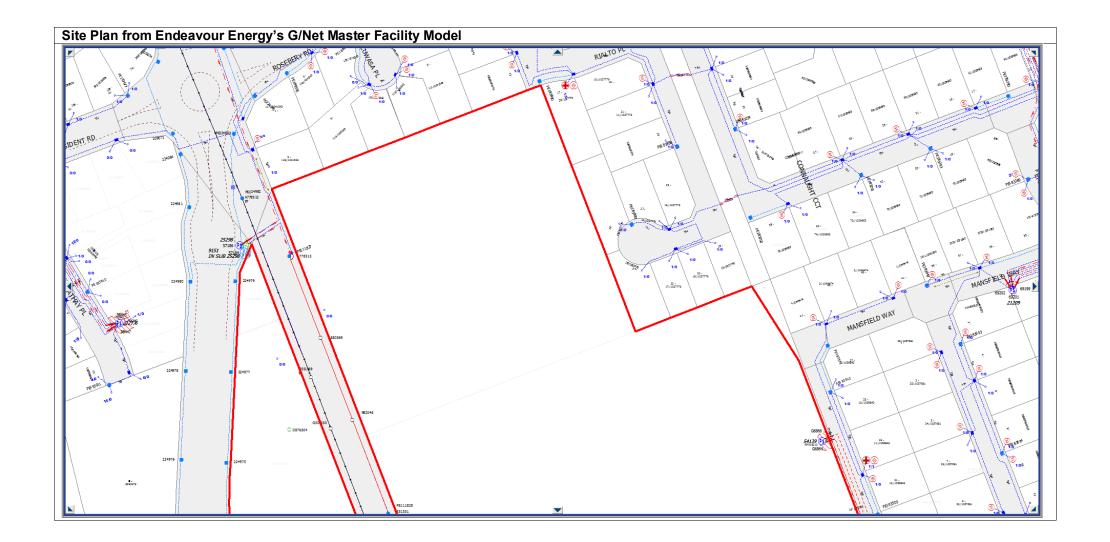
Please note Endeavour Energy's above contacts do not have access to the NSW Planning Portal. To resolve any matters direct contact should be made with the responsible contact. This will avoid double handling and possible delays in responding to the applicant / Council.

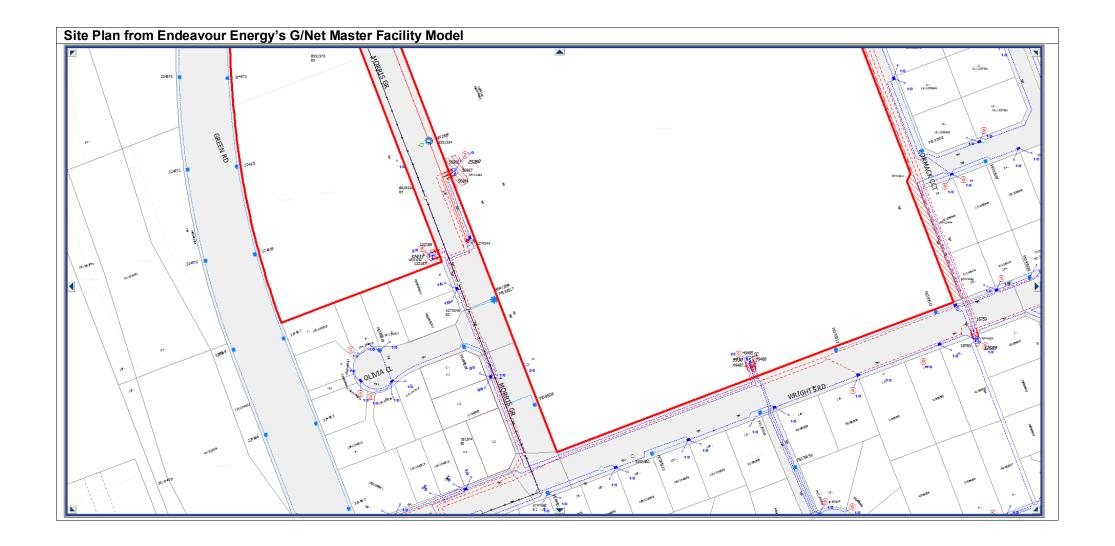
Details of the Accredited Service Provider (ASP) Scheme which accredits organisations to perform contestable work on the NSW electricity distribution network are available via the following link to the Energy NSW website at https://www.energysaver.nsw.gov.au/get-energy-smart/dealing-energy-providers/installing-or-altering-your-electricity-service.



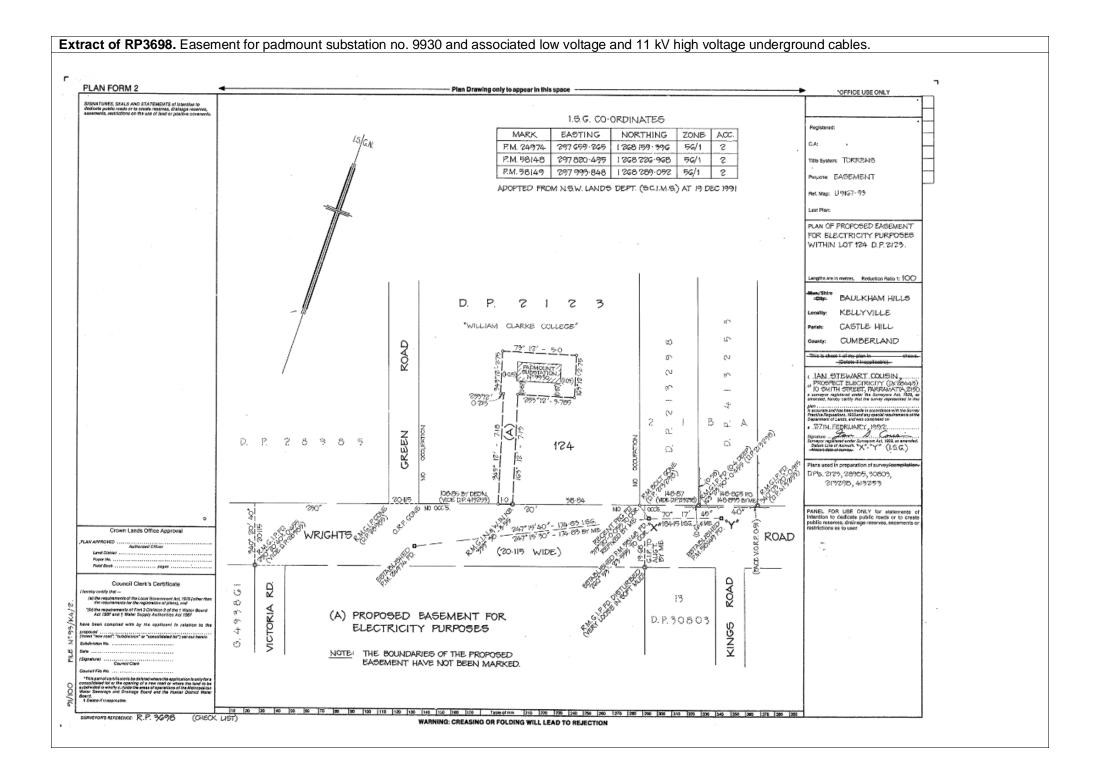


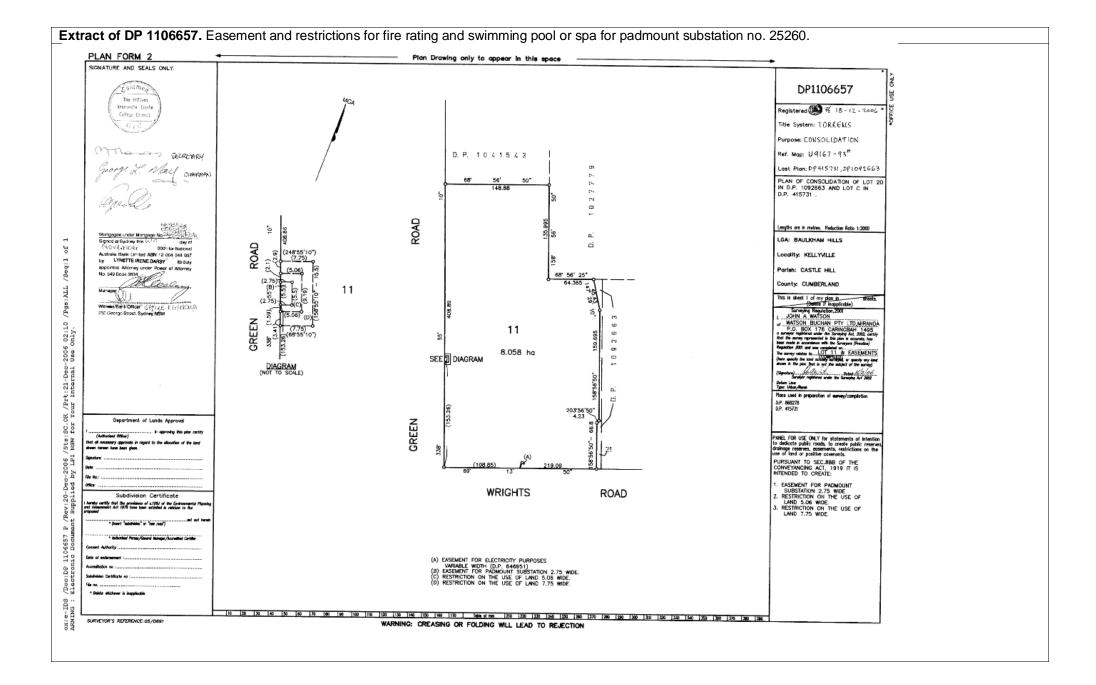
Please note the location, extent and type of any electricity infrastructure, boundaries etc. shown on the plan is indicative only. In addition it must be recognised that the electricity network is constantly extended, augmented and modified and there is a delay from the completion and commissioning of these works until their capture in the model. Easements benefitting Endeavour Energy are indicated by red hatching. Generally (depending on the scale and/or features selected), low voltage (normally not exceeding 1,000 volts) is indicated by blue lines and high voltage (normally exceeding 1,000 volts but for Endeavour Energy's network not exceeding 132,000 volts / 132 kV) by red lines (these lines can appear as solid or dashed and where there are multiple lines / cables only the higher voltage may be shown). This plan only shows the Endeavour Energy network and does not show electricity infrastructure belonging to other authorities or customers owned electrical equipment beyond the customer connection point / point of supply to the property. This plan does not constitute the provision of information on underground electricity power lines by network operators under Part 5E 'Protection of underground electricity power lines' of the *Electricity Supply Act 1995* (NSW).

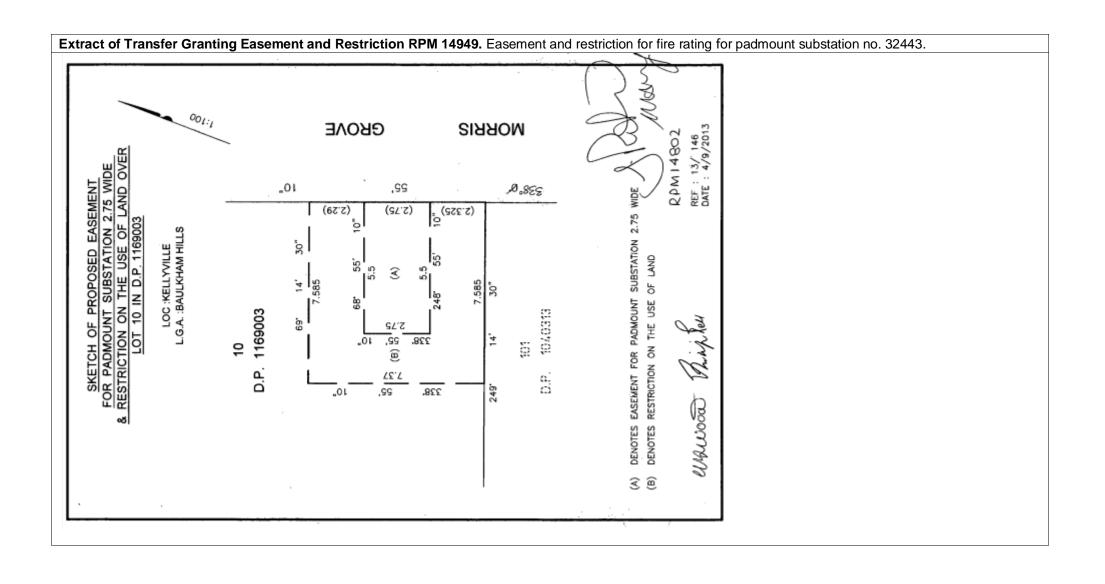


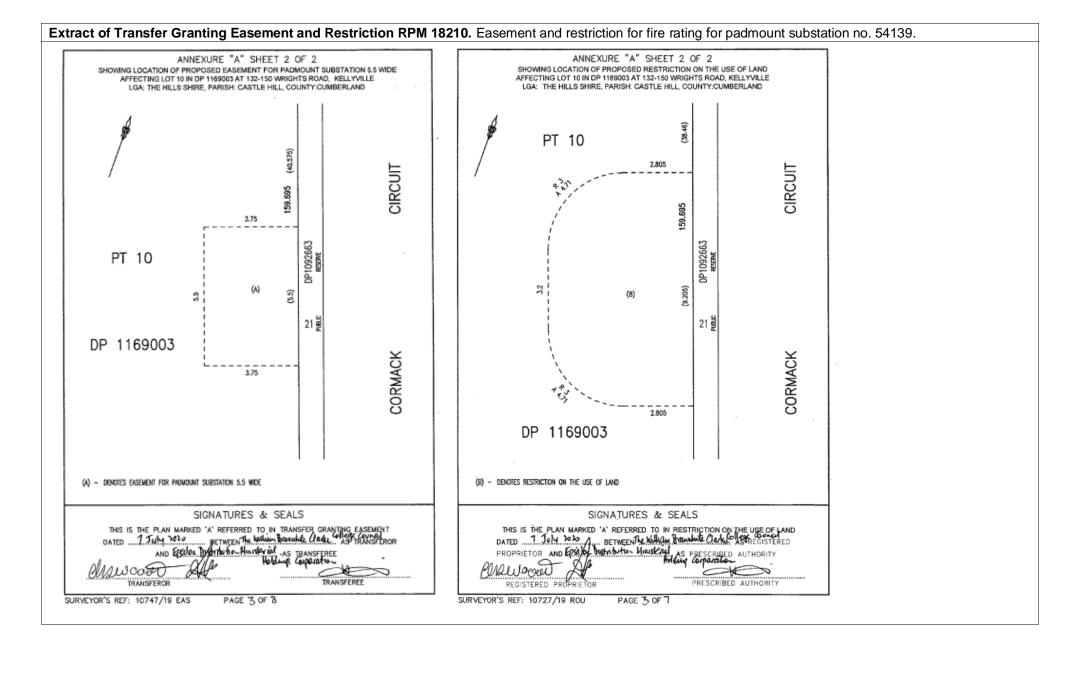


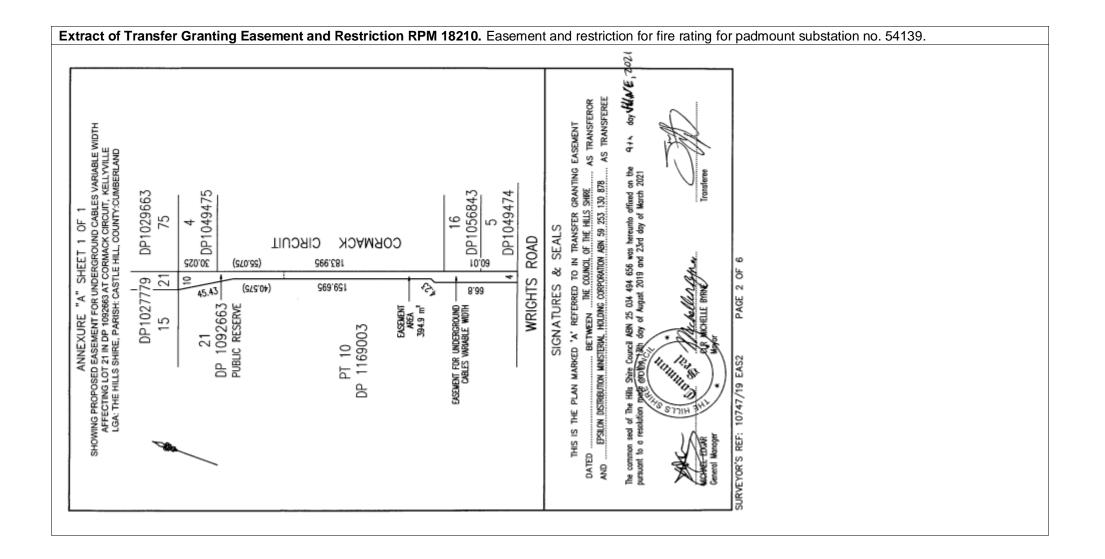
LEGEND				
(PS)	Padmount substation			
	Indoor substation			
G	Ground substation			
K	Kiosk substation			
COT	Cottage substation			
	Pole mounted substation			
HC	High voltage customer substation			
MU	Metering unit			
SS	Switch station			
ISS	Indoor switch station			
	Customer connection point			
	Low voltage pillar			
	Streetlight column			
	Life support customer			
X	Tower			
	Pole			
	Pole with streetlight			
Ø	Customer owned / private pole			
	Cable pit			
L B	Load break switch			
AR	Recloser			
	Proposed removed			
	Easement			
	Subject site			

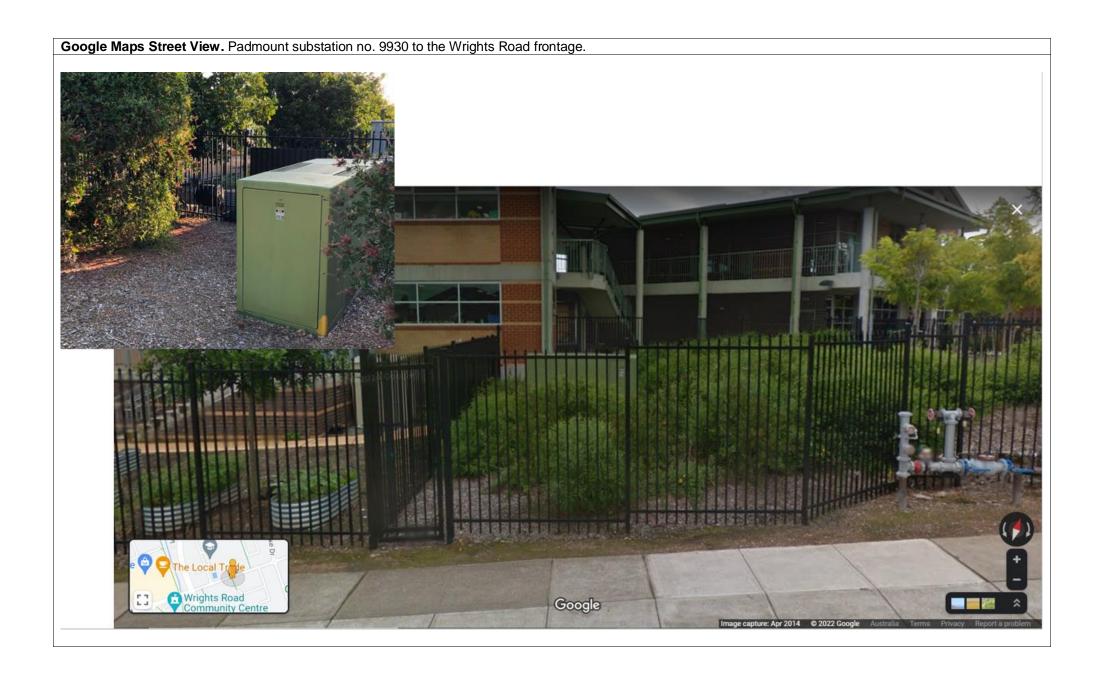














Padmount substation no. 54139 to the Cormack Circuit frontage.

