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From: Cornelis Duba <Cornelis. Duba@endeavourenergy.com.au>
Sent: Tuesday, 16 April 2019 3:16 PM
To: DPC CSE Information Planning Mailbox <information@planning.nsw.gov.au>
Cc: selffery Smith Jedfrey-Smith@endeavourenergy.com.au>
Subject: NSW Planning & Environment State Significant Development SSD 9368 RE Alex Avenue Public School, Farmland Drive, Schofields
The Secretary
NSW Planning & Environment

## ATTENTION: Kare Dear Sir or Madam ren Harragon, Director, Social and Other Infrastructure Asse

Dear sir or Madam representation of Madam representation on 11 April 2019 (received by Endeavour Energy's Becords Management Section on 11 April 2019) reparding the request for State Significant Development SSD 9368 at Farmland Drive Schofields (Lot 27 DP 1194338) for Alex Avenue Public School

Irefer to the Department's letter of 2 April 2019 (received by Endeavour Energy's Records Management Section on 11 April 2019) regarding the request for State Significant Development SD 9988 at Farmland Drive, Scholeids (Lot 22 DP 1194338) for Alex Awenue Public School. Submissions need to be made to the Department by 1 May 2019.

To assist Endeavour Energy it would be appreciated if in future the Department could email any development application and/or planning proposal notifications to property development application / planning proposal notifications and the high number of development application / planning proposal notifications submitted to Endeavour Energy the would be appreciated by the Department – particularly if the matter needs to be referred to other internal stakeholders for review and comment.

Please note that the reference to Ausgrid in Section 5.17 'Consultation' of the request for Secretary's Environmental Assessment Requirements (SEARs) should refer to Endeavour Energy. Ausgrid is the electricity distributor for central and northern Sydney, the Central Coast and the Hunter Valley.

As shown in the below site plan from Endeavour Energy's G/Net master facility model (and extract from SIX Maps) there are:

- No easements over the site benefitting Endeavour Energy (active easement are indicated by red hatching whilst the blue hatching indicates a previous / released interest in this instance being part of Endeavour Energy's previous Schofields Pole Depot site).
- 11,000 volt / 11 kilovolt (kV) high voltage underground cables and underground earth cables to the Farmland Drive road verge / roadway.
- The 11 kV high voltage underground cables to the Farmland Drive road verge / roadway go to two underground to overhead (UGOH) poles on the site where there are 11 kV (constructed at 22,000 volts / 22 kV) high voltage overhead power lines going to Endeavour Energy's Schofields Zone Substation located approximately 90 metres to the west at 14 Schofields Road Schofields (Lot 3 DP 1189372).

Please note the location, extent and type of any electricity infrastructure, boundaries etc. shown on the plan is indicative only. Generally (depending on the scale and/or features selected), low voltage (normally not exceeding 1,000 volts but for Endeavour Inergy's network not exceeding 132,000 volts 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 is not a "Dial Before You Dig 'plan under the provisions of Part SE "Protection of inderground electricity power lines' of the [Estricity Supply Act 1950 (NSW)].

Although the 11 kV (constructed at 22 kV) high voltage overhead power lines on the site are not held under easement, they are regarded as protected assets under the [Estricity Supply Act 1950 (NSW)]. Section 53 "Protection of certain electricity works'. The owner or occupier of the land cannot take any action by reason of the presence or operation of the electricity works' works in on or over the land is, they cannot remove the electricity infrastructure from the property without Endeavour Energy's prior consent. These protected assets (which in this capacity appears to be a temporary supply arrangement to other nearby development and will be undergrounded into the future road layout) are managed on the same basis as if an easement was in existence — please refer to the below point "Easement Management, Network Access".

In accordance with the attached copy of Endeavour Energy's Mains Design Instruction MDI 0044 "Easements and Property Tenure Rights', as shown in the following extract of Table 1 — "Minimum easement widths', the low voltage overhead power lines requires a 9 metre minimum easement width in the substance of the poles of conductors.

Did in accor



ABC = Aerial Bundled Cables CTT = Covered Conductor Thick

Alternatively, any buildings, structures, etc. whether temporary or permanent, must comply with the minimum safe distances / clearances for voltages up to and including 132,000 volts (132kV) as specified in:

• Australian/New Zealand Standard AS/NZS 7000 – 2016: 'Overhead line design'; and

· Service and Installation Rules of NSVV which can accessed with the flowing link to the NSW Planning & Environment website:

https://www.energy.now.gov.au/energy-supply-industry/pipelines-electricity-as-networks/network-connections/rules.

These distances must be maintained regardless of the Council's allowable building setback etc. under its development controls.

As a guide please find attached a copy of Endeavour Energy Prawing 'Overhead Lines Minimum Clearances Near Structures'.

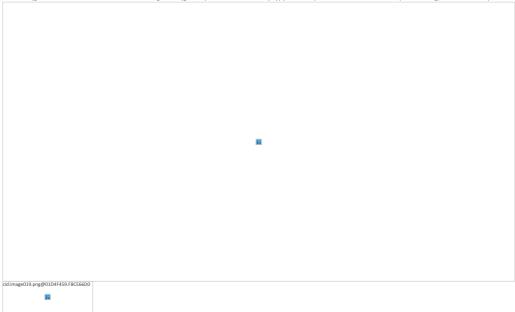
Subject to the foregoing and the following recommendations and comments, in regards to Endeavour Energy's role as an electricity supply authority, Endeavour Energy has no objection to the Development Application.

Network Capacity / Connection

Endeavour Energy has noted the reissued SEARs identifies utilities as a 'Key Issue':

The availability of electricity supply to a site is based on a wide range of factors eg. the age and design of the network; other development in the locality utilising previously spare capacity within the local network; the progress of nearby / surrounding sites including electricity infrastructure works eg, as maller and isolated development that may not of its own accord require a substation may require a substation for a clitate the development and from which the spare capacity is made available to subsequent nearby development. Padmount substations can accommodate loads from 315 silloois mappers (RVA) up to 1,500 KM) pice.the is a significant variation of permisses able to be connected to a substation.

The following site plan from Endeavour Energy's (NNet master facility model shows there are various. Work Polygons' (shown by the coloured highlighting and/or hatching of the lot) in the vicinity and over part of the site indicating enquiries and applications of supply with the prognent and their Accredited Service Provider (ASP). However there is no specific Work Polygons' for the leak Avenue Public School site and the existing. Work Polygons' over part of the site is for electricity supply to the development for urban residential subdivision (Endeavour Energy's reference URS16454).



he applicant will need to contact Endeavour Energy's Network Connections Branch (via Head Office enquiries on telephone: 133 718 or (02) 9853 6666 from 8am - 5:30pm) if this Development Application:
o includes any contestable works projects that are outside of the existing approved / certified works.
o Results in an electricity load that is outside of the existing approved / certified works.
o Results in an electricity load that is outside of the existing approved / certified works.
o Results in an electricity load that is outside of the existing apply / Connection Offer requiring the incorporation of the additional load for consideration. This is due to load being based on a desktop assessment using an After Diversity Maximum Demand (AMMD) where demand is aggregated over a large number of customers providing an AMDD for the site of period. Depending on the actual development proposed for the site, the ADMD provided may not be sufficient is: the construction of a public school could result in the creation of additional load compared to a residential use of the site.

Of herwise, in due occurse the applicant of the proposed development of the site will need to submit an application for connection of load via Endeavour Energy's Network Connections Branch to carry out the final load assessment and the method of supply will be determined. Depending on the outcome of the assessment, 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 easient and associated restrictions benefiting and gifted to Endeavour Energy (which is the property Service Protections are available by contacting Endeavour Energy's Network Connections Branch via Head Office enquiries on telephone: 133 718 or (02) 9853 6666 from 8am - 5:30pm or on Endeavour Energy's webste under 'Home > Residential and business > Connecting to our network' via the following link:

http://www.endeavourenerry.com.au/.

Advice on the electricity infrastructure required to facilitate the proposed development (including asset relocation) can be obtained by submitting a Technical Review Request to Endeavour Energy's Network Connections Branch, the form for which FPJ6007 is attached and returned returned to the control of the contro

88: https://	ely the applicant should engage an Accredited Servic		
		rgy-providers/installing-or-altering-your-electricity-servi	ice.
			uth western corner / proposed Pelican Road frontage of the site.
CIU:IIIIa	ageuiz.png@uiD4r45A.5FFFF1/U		
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			r Energy's general requirements is for a padmount substation easement to have a minimum size of 2.75 x 5.5 metres and also have the additional restrictions ically from the same point) and possibly swimming pools and spas (which in this instance does not appear to be applicable). The easement and restriction/s
should not	t affect any adjoining property (unless supported by	an appropriate easement / restriction). The substation	should be at ground level and have direct access from a public street (unless provided with a suitable easement for right of access). Generally it is the Level
			on and design complies with Endeavour Energy's standards the suitability of access, safety clearances, fire ratings, flooding etc. dence from Endeavour Energy confirming that satisfactory arrangements have been made for the connection of electricity and the design requirements for t
substation,	, prior to the release of the Subdivision Certificate /	Construction Certificate / commencement of works.	
	Network Design		
Endeavour cid:ima	r Energy's Company Policy 9.2.5 'Network Asset Desi; iage016.jpg@01D4F383.B4300BE0	ign', includes the following requirements for electricity	connections to new urban subdivision / development:
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	- r Energy has noted the following in the request for SI	7.10	
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For the proposed school, the applicant should check with the proponent and their ASP responsible for the network connection to the site that any podmount substation earthing has been designed to comply with the "special location" requirements under EDI 100 ie. at the time the ASP did the design for the original subdivision they may not have been aware of the intended use of part of the site as a "special location".

• Prudent Avoidance

The electricity retwork is operational 24/7/365 ie. all day, every day of the year. The electricity industry has adopted a policy of prudent avoidance by doing what can be done without undue inconvenience and at modest expense to avert the possible risk to health from exposure to emissions form electricity infrastructure such as electric and magnetic fields (EMF) and noise which generally increase the higher the voltage ie. Endeavour Energy's network ranges from low voltage (normally not exceeding 1,000 volts) to high voltage (normally

exceeding 1,000 volts but not exceeding 132,000 volts / 132 kV).

In practical terms this means that when designing new transmission and distribution facilities, consideration is given to locating them where exposure to the more sensitive uses is reduced and increasing separation distances. Endeavour Energy believes that likewise the Department should also adopt a policy of prudent avoidance by the siting of more sensitive uses away from any electricity infrastructure – including any possible future electricity infrastructure required to facilitate the proposed development. Even with less sensitive non-residential development, Endeavour Energy Networks Association's Electric & Magnetic Fields — What We Know' which can also be accessed via their website at <a href="https://www.ena.ava.nu/">https://www.ena.ava.nu/</a> and contains the following advice:

Electric fields are strongest closest to their source, and their streight diminishes rapidly as we move enway from the source.

The level of a magnetic field dependent on the amount of the current (meanured in amaps), and decreases rapidly once we move enway from the source.

Typical magnetic field measurements associated with Endeavour Energy's activities and assets given the required easement widths, safety clearances et an chaving a maximum voltage of 132,000 volt / 132 kV, will with the observance of these separation distances not exceed the recommended magnetic field public exposure limits.

Endeavour Energy's Network Environment Assessment Section has previously provided the following advice in regards to a child care centre proposed in proximity of endeavour Energy's electricity infrastructure:

As for as Is how there or no restrictions in legislation that stop a child care centre being placed next to an examination of the care centre of the placed and the following advice in regards to a child care centre proposed in proximity of endeavour Energy's electricity infrastructure:

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 Not after the surface level of the easement site.
 Not do not permit to be done anything that restricts access to the easement site without the prior written permission of Endeavour Energy and in accordance with such conditions as Endeavour Energy may reasonably impose.
 Endeavour Energy's preference is for no activities or encoachments to occur within its easement areas. Most activities are prohibited within the pastern accordance with a proposed works (other than those approved / certified by Endeavour Energy's Sentence is for no activities or encoachments to occur within its easement areas. Most activities are prohibited within the pastern accordance with such accordance works (other than those approved / certified by Endeavour Energy's Estements and a part of an enquiry / application for load) will encroach/affect Endeavour Energy's Estements or protected assets, contact must first be made with the Endeavour Energy's Estements Officer, Jeffrey Smith, on direct telephone 9853 7139 or alternately email <a href="Leftrey.Smith@endeavourenergy.com.au">Leftrey.Smith@endeavourenergy.com.au</a> or <a href="Easements@endeavourenergy.com.au</a>
For further information please refer to the attached copies of Endeavour Energy's:

Mains Design Instruction MDI 0044 "Easements and Property Tenure Rights".

Guide to Fencing, Retaining Walls and Maintenance Around Padm

It is imperative the access to the existing electrical infrastructure on and in proximity of the site be maintained at all times. To ensure that supply electricity is available to the community, access to the electricity infrastructure may be required at any time. Restricted access to electricity infrastructure by maintenance workers causes delays in power restoration and may have severe consequences in the event of an emergency.

• Vegetation Management

The planting of large trees in the vicinity of electricity infrastructure is not supported by Endeavour Energy. Suitable planting needs to be undertaken in proximity of electricity infrastructure. Only low growing shrubs not exceeding 3.0 metres in height, ground covers and smaller shrubs, with non-invasive root systems are the best plants to use. Larger trees should be planted well away from electricity infrastructure (at least the same distance from overhead power lines as their potential full grown height) and even with underground cables, be installed with a root barrier around their not ball of the plant, Landscaping that interferes with electricity infrastructure may become a potential safety risk, cause of bush fire, restrict access, reducinglish roor result in the interruption of supply. Such landscaping may be subject to Endeavour Energy's Vegetation Management program and/or the provisions of the <u>Electricity Supply Act 1995</u> (NSW). Section 48 'Interference with electricity works by trees' by which under certain circumstances the cost of carrying out such work

Dial Before You Dig

 Elefore You Dig
 Before Commenting any underground activity the applicant is required to obtain advice from the Dial Before You Dig 1100 service in accordance with the requirements of the Electricity Supply Act 1995 (NSW) and associated Regulations. This should be obtained by the applicant not only to identify the location of any underground electrical and other utility infrastructure across the site, but also to identify them as a hazard and to propely assess the risk.

Workers involved in work near electricity infrastructure run the risk of receiving an electric shock and trausing substantial and manage to plant and elegawor Energy's public safety training resources, which were developed to help general public / workers to understand why you may be at risk and what you can do to work safely. The public safety training resources are also available understand why you may be at risk and what you can do to work safely. The public safety training resources are also available understand why you may be at risk and what you can do to work safely. The public safety training resources are also available understand why you may be at risk and what the proposed work who can be a received to the proposed who the proposed work safely. The public safety training resources are also available understand why you may be understand why you may be understand understand the proposed who the proposed work in proximity of the policy and the proposed work in proximity of the provide more effective lines of communication with the general public who may be undertaking construction deviatives in proximity of electricity infrastructure such as builders, construction industry workers etc. The email address is Construction. Work Benearour removers you and a such as a suitable provide more effective lines of communication with the general public who may be undertaking construction activities in proximity of electricity infrastructure such as builders, constru 

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