

The Secretary  
NSW Department of Planning, Industry and Environment

4 August 2020

**ATTENTION: Bruce Zhang**

Dear Sir or Madam

I refer to the Department's below email of 27 July 2020 regarding the notice of exhibition of the Environmental Impact Statement (EIS) for State Significant Development SSD-10436 at 327-335 Burley Road, Horsley Park (Lot 103 DP 1214912) in the Fairfield City Local Government Area for the ESR Horsley Logistics Park being Construction, fit-out and operation of six warehousing and distribution buildings on four lots with a total gross floor area of 114,492 square metres, loading docks, hardstand areas, truck and car parking spaces, landscaping and utilities. Submissions need to be made to the Department by 26 August 2020.

Please find attached a copy of Endeavour Energy's submission made to the Department on 25 March 2020 regarding the Secretary's Environmental Assessment Requirements (SEARs) for State Significant Development SSD-10436 for ESR Horsley Logistics Park being the staged development of the Horsley Logistics Park for a warehousing and distribution hub including a Concept Proposal and Stage 1 Development located at 6 Johnston Crescent, Horsley Park (Lot 103 DP 1214912) in the Fairfield City Local Government Area. The recommendations and comments provided therein remain valid.

Endeavour Energy's further recommendations and comments are as follows:

- Network Capacity / Connection

Endeavour Energy has noted that the EIS does not appear to address in detail the suitability of the site for the development in regard to whether electricity services are available and adequate for the development.

**Other WSEA SEPP Provisions**

Other relevant provisions of the WSEA SEPP are discussed in **Table 15**.

Table 15 Other provisions of the WSEA SEPP

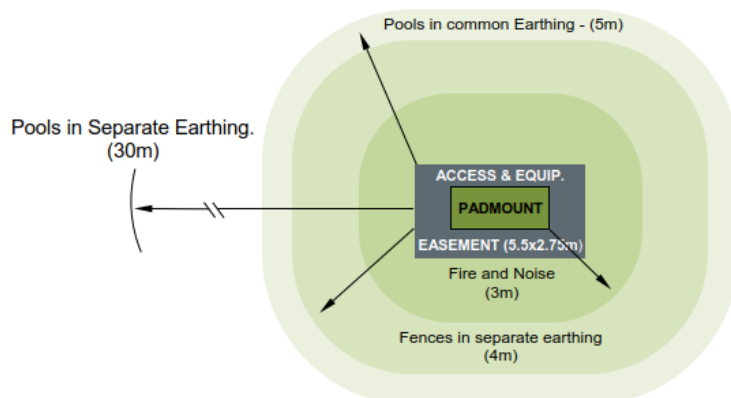
| Clause                                    | Requirement  | Response  |
|---|--|---|
| Clause 25 – Public Utility Infrastructure | The consent authority must not grant consent to development on land to which this Policy applies unless it is satisfied that any public utility infrastructure that is essential for the proposed development is available or that adequate arrangements have been made to make that infrastructure available when required. | All necessary public utility infrastructure and services are being provided to the HLP in accordance with DA 893/2013. No augmentation of these services is proposed as part of this application. |

From a review of the various plans provided with the EIS it is not apparent if any provision has been made for the padmount substations required to facilitate the proposed development.

Endeavour Energy's general requirements is for a padmount substation to be at ground level and have direct access from a public street (unless provided with a suitable easement for right of access). As shown in the following Figure A4.3 'Padmount easements and clearances', from Endeavour Energy's Mains Design Instruction MDI 0044 'Easements and Property Tenure Rights', 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 and 6 metres vertically from the same point.
- Restriction for swimming pools which extends 5 metres from the easement.

#### A4.3 - Padmount easements and clearances



Generally it is the Level 3 Accredited Service Provider's (ASP) responsibility (engaged by the developer) to make sure that the substation location and design complies with Endeavour Energy's standards the suitability of access, safety clearances, fire ratings, flooding etc. As a condition of the Development Application consent the Department should request the submission of documentary evidence from Endeavour Energy confirming that satisfactory arrangements have been made for the connection of electricity and the design requirements for the required padmount substations, prior to the release of the Construction Certificate / commencement of works.

#### • Bushfire

Endeavour Energy has noted that the EIS is supported by a Bushfire Protection Assessment which provides and assessment of the site having regards to NSW Rural Fire Service 'Planning for Bush Fire Protection 2019' and includes the following advice:

### 3.4 Electricity services

The compliance of the proposed supply of electricity services with regards to Section 7.4 of PBP is detailed in **Table 7**.

**Table 7: Requirements for the supply of Electricity services (adapted from table 7.4a of PBP)**

| Performance Criteria   | Acceptable Solution   | Compliance Notes   |
|--|---|--|
| Location of electricity services limits the possibility of ignition of surrounding bush land or the fabric of buildings. | <p>Where practicable, electrical transmission lines are underground; and</p> <p>Where overhead, electrical transmission lines are proposed as follows:</p> <p>Lines are installed with short pole spacing (30 m), unless crossing gullies, gorges or riparian areas; and</p> <p>No part of a tree is closer to a power line than the distance set out in ISSC3 Guide for the Management of Vegetation in the Vicinity of Electricity Assets (ISSC3 2016).</p> | <p>Complies</p> <p>Electricity services to the subject site are located underground.</p> |

- Prudent Avoidance

Endeavour Energy has noted that the Noise and Vibration Impact Assessment indicates that the mechanical plant design and selection will be confirmed during the detailed design phase of the project for further assessment. Consideration should also be provided to the padmount substation/s required on the site to facilitate the proposed development.

Subject to the foregoing Endeavour Energy has no objection to the Development Application.

Could you please pass on a copy of this submission and the attached resources to the applicant? Should you wish to discuss this matter, or have any questions, please do not hesitate to contact me or the contacts identified above in relation to the various matters. Due to the high number of development application / planning proposal notifications submitted to Endeavour Energy, to ensure a response contact by email to [property.development@endeavourenergy.com.au](mailto:property.development@endeavourenergy.com.au) is preferred.

With the current COVID-19 health risk, as many as possible of Endeavour Energy staff are working from home. As a result there is only a small contingent located at the Huntingwood head office for essential operations. Although working from home, access to emails and other internal stakeholders is now somewhat limited and as a result it may take longer than usual to respond to enquiries. Thank you for your understanding during this time.

Yours faithfully

Cornelis Duba

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**From:** Cornelis Duba

**Sent:** Wednesday, 25 March 2020 11:31 AM

**To:** Bruce Zhang <Bruce.Zhang@planning.nsw.gov.au>



**Cc:** 'information@planning.nsw.gov.au' <information@planning.nsw.gov.au>; Philip Wilson <Philip.Wilson@endeavourenergy.com.au>

**Subject:** NSW Planning, Industry & Environment Request for SEARs SSD-10436 ESR Horsley Logistics Park

Hello Bruce

I refer to your below email of 12 March 2020 regarding the Secretary's Environmental Assessment Requirements (SEARs) for State Significant Development SSD-10436 for ESR Horsley Logistics Park being the staged development of the Horsley Logistics Park for a warehousing and distribution hub including a Concept Proposal and Stage 1 Development located at 6 Johnston Crescent, Horsley Park (Lot 103 DP 1214912) in the Fairfield City Local Government Area. Submissions need to be made to the Department by 27 March 2020.

As shown in the below site plans from Endeavour Energy's G/Net master facility model (and extract from Google Maps Street View) there is:

- An easement over the site benefitting Endeavour Energy (indicated by red hatching) for 132,000 volt / 132 kilovolt (kV) high voltage overhead power lines, overhead earth cables and overhead pilot cables (carrying protection signals or communications between substations) to the eastern side boundary within the E2 – Environmental Conservation corridor.
- Restrictions for fire rating and swimming pools and spas for the easement for padmount substation no. 35410 (indicated by the symbol  ) located on the adjoining Lot 102 DP 1214912 – please refer to the attached copy of DP 1214912.
- Low voltage and 11,000 volt / 11 kV high voltage underground cables and underground earth cables to the Johnstone Crescent road verge / roadway. The low voltage underground cables extend onto the site to a streetlight (indicated by the symbol  ).

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) 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 is not a 'Dial Before You Dig' plan under the provisions of Part 5E 'Protection of underground electricity power lines' of the Electricity Supply Act 1995 (NSW).

In regard to the low voltage underground cables on the site, they are located within a proposed extension of Johnston Crescent which is not yet dedicated as a public road. Notwithstanding, although not held under easement, the existing low voltage underground cables are regarded as protected assets under the Electricity Supply Act 1995 (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 in, on or over the land ie. they cannot remove the electricity infrastructure from the property. These protected assets 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', and as shown in the following extract of Table 1 – 'Minimum easement widths', the padmount substation requires a minimum easement of 2.75 x 5.5 metres and the 11 kV high voltage underground cables (assumed to have no concrete protection unless proven otherwise) requires a 3 metre minimum easement width ie. 1.5 metres to both sides of the centre line of the cable ducts.

Table 1 - Minimum easement widths

|                    | Voltage     | Asset Type | Construction  | Minimum Easement (m) |
|--------------------|-------------|------------|---|----------------------|
| Underground Assets | 400V - 22kV |            | Underbore / Ducted / Direct buried  | 3                    |
|                    |             | Cables     | Ducted $\leq 100\text{m}$ and with concrete protection<br>(min 50 mm concrete cover at standard burial depth) | 1                    |

Endeavour Energy would expect that the Planning Secretary's would require the applicant to address in utilities as a key issue in the future Environmental Impact Statement will:

- identify and address the existing capacity to service the development proposed and any augmentation requirements for utilities in consultation with relevant agencies; and
- identify and potential impacts of the proposed construction and operation on the existing utility infrastructure and service provider assets, and demonstrate how these will be protected, or impacts mitigated.

For the first point please refer to the below point 'Network Capacity / Connection'.

In regard to the second point, Endeavour Energy has noted that the Request for SEARs report in Section 4.3. 'State Environmental Planning Policies' reference is made to State Environmental Planning Policy (Infrastructure) 2007 (Infrastructure SEPP) but only refers to traffic generating development but not to Subdivision 2 'Development likely to affect an electricity transmission or distribution network'. For the easement for 132 kV high voltage overhead power lines, Endeavour Energy's preference is to have continuity of its easements over the most direct and practicable route affecting the least number of lots as possible. Therefore, except in special circumstances such as a staged or facilitating subdivision, it generally does not support the subdivision of easements (even in part) and their incorporation into multiple / privately owned lots. The incorporation of electricity easements into privately owned lots is generally problematic for both Endeavour Energy and the landowner and requires additional easement management to ensure no uncontrolled activities / encroachments occur within the easement. From the EIS, Figure 3 'Aerial View and Staging Plan' and Appendix A 'Concept Master Plan' appear to indicate that the land within the E2 – Environmental Conservation corridor is not proposed to be subdivided / incorporated into the developable lots. Should this not be the case, consideration must be provided to an appropriate subdivision layout relevant to the easement and the structures therein – please refer to the below point 'Easement Management / Network Access'.

Subject to the foregoing and the following recommendations and comments Endeavour Energy has no objection to the State Significant Development.

- Network Capacity / Connection

Endeavour Energy has noted that the Request for SEARs report includes copies of previous notices of determinations for the applicable site consents which includes a requirement for the submission of evidence from Endeavour Energy that satisfactory arrangements have been made for the provision of electricity services to all allotments.

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. a smaller and isolated development that may not of its own accord require a distribution substation may require a substation to facilitate the development and from which the spare capacity is made available to subsequent nearby development.

Areas of the network utilising padmount substations can accommodate loads from 315 kilovolt amperes (kVA) up to 1,500 kVA (typically 500 kVA) ie. there is a significant variation in the number and type of premises able to be connected to a substation. Endeavour Energy's G/Net master facility model indicates that padmount substation no. 35410 located on the adjoining Lot 102 DP 1214912 currently has 1 customer connection point servicing 1 premises ie. it only services the site on which it is located. Whilst it will have some spare capacity it would not be sufficient to supply a significant urban industrial subdivision.



As well as the capacity of distribution substations, 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. Applicants should not automatically assume that the presence of existing electricity infrastructure or nearby similar development means that adequate supply is immediately available to facilitate their proposed development. Given the large size of the development (and notwithstanding it will be replacing a significant number of existing premises), an extension and/or augmentation of the existing network is likely to be required. However the extent of the works required will not be determined until a detailed assessment is undertaken. Endeavour Energy's preference is to alert proponents / applicants (and the Department) of the potential matters that may arise as further development of areas continues to occur.

In due course the applicant for 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 or indoor substation/s will need to be located within the property (in a suit able 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 the attached copy of Endeavour Energy's Mains Design Instruction MDI 0044 'Easements and Property Tenure Rights'.

The following site plan from Endeavour Energy's G/Net master facility model shows there is 'Work Polygon' over the site (depicted by the coloured highlighting and/or hatching of the lot) indicating enquiries and applications for contestable works projects with Endeavour Energy's Network Connections Branch for electricity supply (Endeavour Energy's reference Urban Industrial Subdivision UIS0700). However Endeavour Energy's records show this application dates back to 2012 and accordingly a new application for connection of load is likely to be required.



Further details 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 website under 'Home > Residential and business > Connecting to our network' via the following link:

<http://www.endeavourenergy.com.au/>.

Advice on the electricity infrastructure required to facilitate the proposed development (including asset relocations) can be obtained by submitting a Technical Review Request to Endeavour Energy's Network Connections Branch, the form for which FPJ6007 is attached and further details (including the applicable charges) are available from Endeavour Energy's website under 'Our connection services'. The response to these enquiries

is based upon a desktop review of corporate information systems, and as such does not involve the engagement of various internal stakeholders in order to develop a 'Connection Offer'. It does provide details of preliminary connection requirements which can be considered by the applicant prior to lodging a formal application for connection of load.

Alternatively the applicant should engage a Level 3 Accredited Service Provider (ASP) approved to design distribution network assets, including underground or overhead. The ASP scheme is administered by Energy NSW and details are available on their website via the following link or telephone 13 77 88:

<https://energy.nsw.gov.au/government-and-regulation/legislative-and-regulatory-requirements/asp-scheme-and-contestable-works> .

Endeavour Energy is urging applicants /customers to engage with an Electrical Consultant prior to finalising plans to in order to assess and incorporate any required electricity infrastructure. In so doing the consideration can also be given to its impact on the other aspects of the proposed development. This can assist in avoiding the making of amendments to the plan or possibly the need to later seek modification of an approved development application

- Network Asset Design

Endeavour Energy's Company Policy 9.2.5 'Network Asset Design', includes the following requirements for electricity connections to new urban subdivision / development:

## **5.11 Reticulation policy**

### **5.11.1 Distribution reticulation**

In order to improve the reliability performance of and to reduce the operating expenditure on the network over the long term the company has adopted the strategy of requiring new lines to be either underground cables or where overhead is permitted, to be predominantly of covered or insulated construction. Notwithstanding this strategy, bare wire overhead construction is appropriate and permitted in some situations as detailed below.

In areas with the potential for significant overhanging foliage, CCT is used to provide increased reliability as it is less susceptible to outages from wind-blown branches and debris than bare conductors. CCT must only be used in treed<sup>2</sup> areas as the probability of a direct lightning strike is low. In open areas where the line is not shielded from a direct lightning strike, bare conductors must generally be used for 11kV and 22kV reticulation.

Non-metallic Screened High Voltage Aerial Bundled Cable (NMSHVABC) must be used in areas which are heavily treed and where it is not practicable to maintain a tree clearing envelope around the conductors.

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<sup>2</sup> A "treed" area is one with a substantial number of trees adjacent to the line, in each span. In these situations CCT is used to provide increased reliability as it is less susceptible to outages from wind-blown

#### **5.11.1.1 Urban areas**

Reticulation of new residential subdivisions will be underground. In **areas of low bushfire consequence**, new lines within existing overhead areas can be overhead, unless underground lines are cost justified or required by **either environmental** or local council requirements.

Where underground reticulation is required on a feeder that supplies a mixture of industrial, commercial and/or residential loads, the standard of underground construction will apply to all types of load within that development.

Where ducting is used, adequate spare ducts and easements must be provided at the outset to cover the final load requirements of the entire development plan.

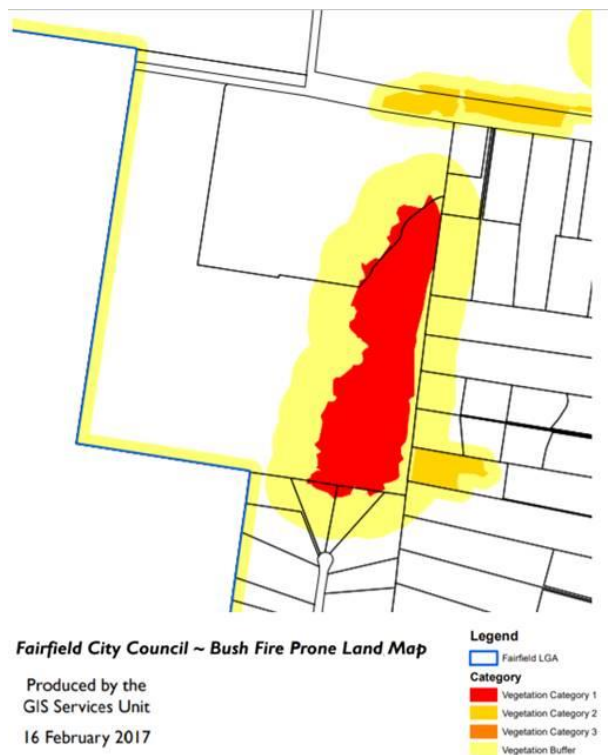
Extensions to the existing overhead 11kV/22kV network must generally be underground. Bare wire will be used for conductor replacements and augmentations except in treed areas where CCT or NMSHVABC must be used.

Extensions to the existing overhead LV network and augmentations must either be underground or ABC. Conductor replacements greater than 100m in route length must utilise aerial bundled cable.



- Bushfire

Endeavour Energy has noted that the site is partially mapped as being bush fire prone land by Fairfield City Council.



Although industrial uses are not covered by Chapters 5 to 7 of NSW Rural Fire Service 'Planning for Bush Fire Protection 2019' (PBP), the aim and objectives of PBP still need to be considered and a suitable package of bush fire protection measures should be proposed commensurate with the assessed level of risk to the development. PBP provides the following advice regarding electricity services:

### 5.3.3 Services – Water, electricity and gas

**Intent of measures:** to provide adequate services of water for the protection of buildings during and after the passage of a bush fire, and to locate gas and electricity so as not to contribute to the risk of fire to a building.

**Table 5.3c**

Performance criteria and acceptable solutions for water, electricity and gas services for residential and rural residential subdivisions.

| PERFORMANCE CRITERIA              |  | ACCEPTABLE SOLUTIONS   |  |
|-----------------------------------|--|--|--|
| The intent may be achieved where: |  |  |  |
| ELECTRICITY SERVICES              | ➤ location of electricity services limits the possibility of ignition of surrounding bush land or the fabric of buildings. | ➤ where practicable, electrical transmission lines are underground;  |  |
|                                   |  | ➤ where overhead, electrical transmission lines are proposed as follows:<br>➤ lines are installed with short pole spacing of 30m, unless crossing gullies, gorges or riparian areas; and<br>➤ no part of a tree is closer to a power line than the distance set out in <i>ISSC3 Guideline for Managing Vegetation Near Power Lines</i> . |  |



The following is an extract of Endeavour Energy's Company Policy 9.1.1 Bushfire Risk Management:

## **9.1.1 BUSHFIRE RISK MANAGEMENT**

### **1.0 POLICY STATEMENT**

The company is committed to the application of prudent asset management strategies to reduce the risk of bushfires caused by network assets and aerial consumer mains to as low as reasonably practicable (ALARP) level. The company is also committed to mitigating the associated risk to network assets and customer supply reliability during times of bushfire whilst achieving practical safety, reliability, quality of supply, efficient investment and environmental outcomes. The company is committed to compliance with relevant acts, regulations and codes.

Accordingly the electricity network required to service the proposed development must be fit for purpose and meet the technical specifications, design, construction and commissioning standards based on Endeavour Energy's risk assessment associated with the implementation and use of the network connection / infrastructure for a bushfire prone site. In assessing bushfire risk, Endeavour Energy has traditionally focused on the likelihood of its network starting a bushfire, which is a function of the condition of the network. Risk control has focused on reducing the likelihood of fire ignition by implementing good design and maintenance practices. However the potential impact of a bushfire on its electricity infrastructure and the safety risks associated with the loss of electricity supply are also considered.

- Easement Management / Network Access

The following is a summary of the usual / main terms of Endeavour Energy's electrical easements requiring that the landowner:

- Not install or permit to be installed any services or structures within the easement site.
- Not alter the surface level of the easement site.
- Not do or 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 encroachments to occur within its easement areas. However, if any proposed works (other than those approved / certified by Endeavour Energy's Network Connections Branch as part of an enquiry / application for load or asset relocation project) will encroach/affect Endeavour Energy's easements, restrictions or protected assets, contact must first be made with the Endeavour Energy's Easements Officer, Philip Wilson, on direct telephone 9853 7110 or alternately by email [Philip.Wilson@endeavourenergy.com.au](mailto:Philip.Wilson@endeavourenergy.com.au) or [Easements@endeavourenergy.com.au](mailto:Easements@endeavourenergy.com.au).

Please find attached for the applicant's reference copies of Endeavour Energy's:

- General Restrictions for Overhead Power Lines.
- Mains Design Instruction MDI 0044 'Easements and Property Tenure Rights' which deals with activities / encroachments within easements.
- Guide to Fencing, Retaining Walls and Maintenance Around Padmount Substations.

It is imperative that 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.

Endeavour Energy's preference is for no activities or encroachments to occur within its easement areas. However, some activities may be allowed under any circumstance within the easement area. For further information, please also find attached a copy of Endeavour Energy's Mains Design Instruction MDI 0044 'Easements and Property Tenure Rights' which in Section 5.14 'Encroachments on overhead line easements' deals with activities / encroachments within easement areas.

- Earthing

The construction of any building or structure (including fencing, signage, flag poles, hoardings etc.) whether temporary or permanent that is connected to or in close proximity to Endeavour Energy's electrical network is required to comply with Australian/New Zealand Standard AS/NZS 3000:2018 'Electrical installations' as updated from time to time. This Standard sets out requirements for the design, construction and verification of electrical installations, including ensuring there is adequate connection to the earth. It applies to all electrical installations including temporary builder's supply / connections.

Inadequate connection to the earth to allow a leaking/fault current to flow into the grounding system and be properly dissipated places persons, equipment connected to the network and the electricity network itself at risk from electric shock, fire and physical injury.

- Vegetation Management

The planting of large trees near electricity infrastructure is not supported by Endeavour Energy. Suitable planting needs to be undertaken in proximity of electricity infrastructure (including any new electricity infrastructure required to facilitate the proposed development). 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 the root ball of the plant.

Landscaping that interferes with electricity infrastructure may become a potential safety risk, cause of bush fire, restrict access, reduce light levels from streetlights or result in the interruption of supply. Such landscaping may be subject to Endeavour Energy's Vegetation Management program and/or the provisions of the Electricity Supply Act 1995 (NSW) Section 48 'Interference with electricity works by trees' by which under certain circumstances the cost of carrying out such work may be recovered.

- Prudent Avoidance

The electricity network 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 from electricity infrastructure such as electric and magnetic fields (EMF) and noise (both overhead power lines and transformers can produce an audible sound or buzz as a side effect of carrying electricity) 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. These emissions are generally not an issue but with councils permitting or encouraging development with higher density, reduced setbacks and increased building heights, new development can impact on existing electricity infrastructure.

Where development is proposed in the vicinity of electricity infrastructure, Endeavour Energy is not responsible for any amelioration measures for such emissions that may impact on the nearby proposed development. Even with less sensitive non-residential development, Endeavour Energy believes that likewise applicants (and) Council should also adopt a policy of prudent avoidance by the siting of more sensitive uses eg. those parts of the site regularly occupied by people such as office components of a building, away from any electricity infrastructure – including any possible future electricity infrastructure required to facilitate the proposed development.

Please find attached a copy of Energy Networks Association's 'Electric & Magnetic Fields – What We Know' which can also be accessed via their website at <https://www.energynetworks.com.au/electric-and-magnetic-fields> and provides the following advice:

*Electric fields are strongest closest to their source, and their strength diminishes rapidly as we move away from the source.*

*The level of a magnetic field depends on the amount of the current (measured in amps), and decreases rapidly once we move away from the source.*

Typical magnetic field measurements associated with Endeavour Energy's activities and assets given the required easement widths, safety clearances etc. and having 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.

- Dial Before You Dig

Before commencing 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 properly assess the risk.

- Public Safety

Workers involved in work near electricity infrastructure run the risk of receiving an electric shock and causing substantial damage to plant and equipment. I have attached Endeavour 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 via Endeavour Energy's website via the following link:

<http://www.endeavourenergy.com.au/wps/wcm/connect/ee/nsw/nsw+homepage/communitynav/safety/safety+brochures>.

If the applicant has any concerns over the proposed works in proximity of the Endeavour Energy's electricity infrastructure to the road verge / roadway, as part of a public safety initiative Endeavour Energy has set up an email account that is accessible by a range of multiple stakeholders across the company in order to provide more effective lines of communication with the general public who may be undertaking construction activities in proximity of electricity infrastructure such as builders, construction industry workers etc. The email address is [Construction.Works@endeavourenergy.com.au](mailto:Construction.Works@endeavourenergy.com.au).

- Emergency Contact

In case of an emergency relating to Endeavour Energy's electrical network, the applicant should note the Emergencies Telephone is 131 003 which can be contacted 24 hours/7 days. Endeavour Energy's contact details should be included in any relevant risk and safety management plan.

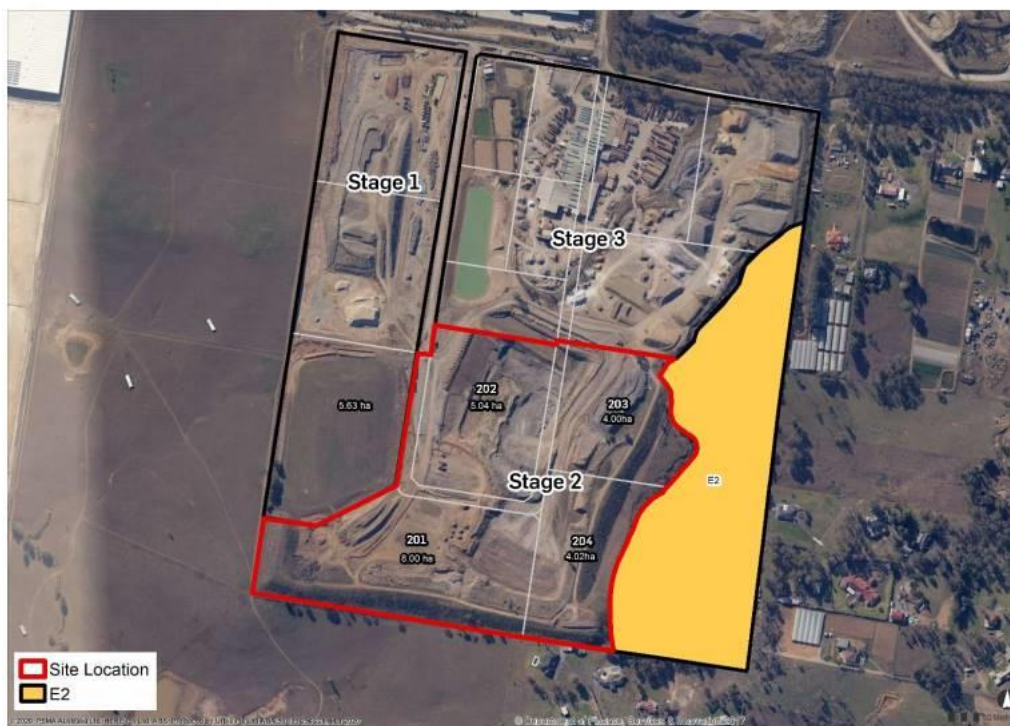
I appreciate that not all the foregoing issues may be directly or immediately relevant or significant to the request for SEARs / Development Application. However in keeping with the Department's aim of earlier and better engagement, Endeavour Energy's preference is to alert proponents / applicants of 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.

Could you please pass on a copy of this submission and the attached resources to the applicant? Should you wish to discuss this matter, or have any questions, please do not hesitate to contact me or the contacts identified above in relation to the various matters. Due to the high number of development application / planning proposal notifications submitted to Endeavour Energy, to ensure a response contact by email to [property.development@endeavourenergy.com.au](mailto:property.development@endeavourenergy.com.au) is preferred.

Kind regards  
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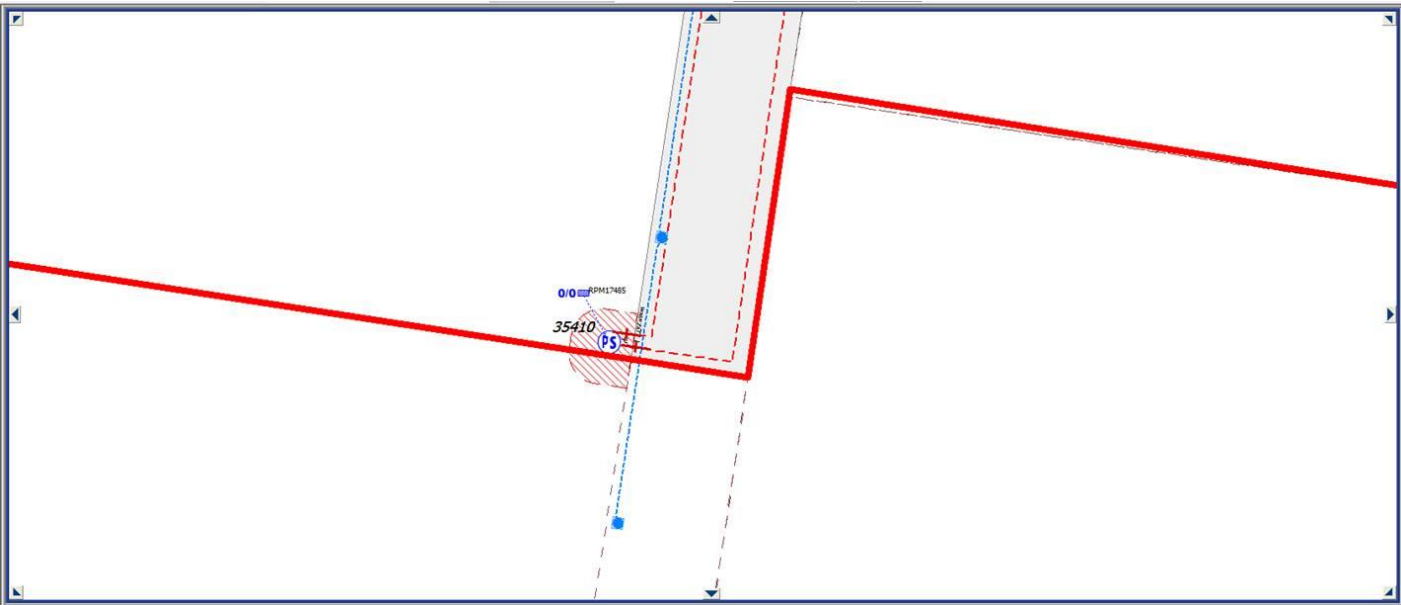
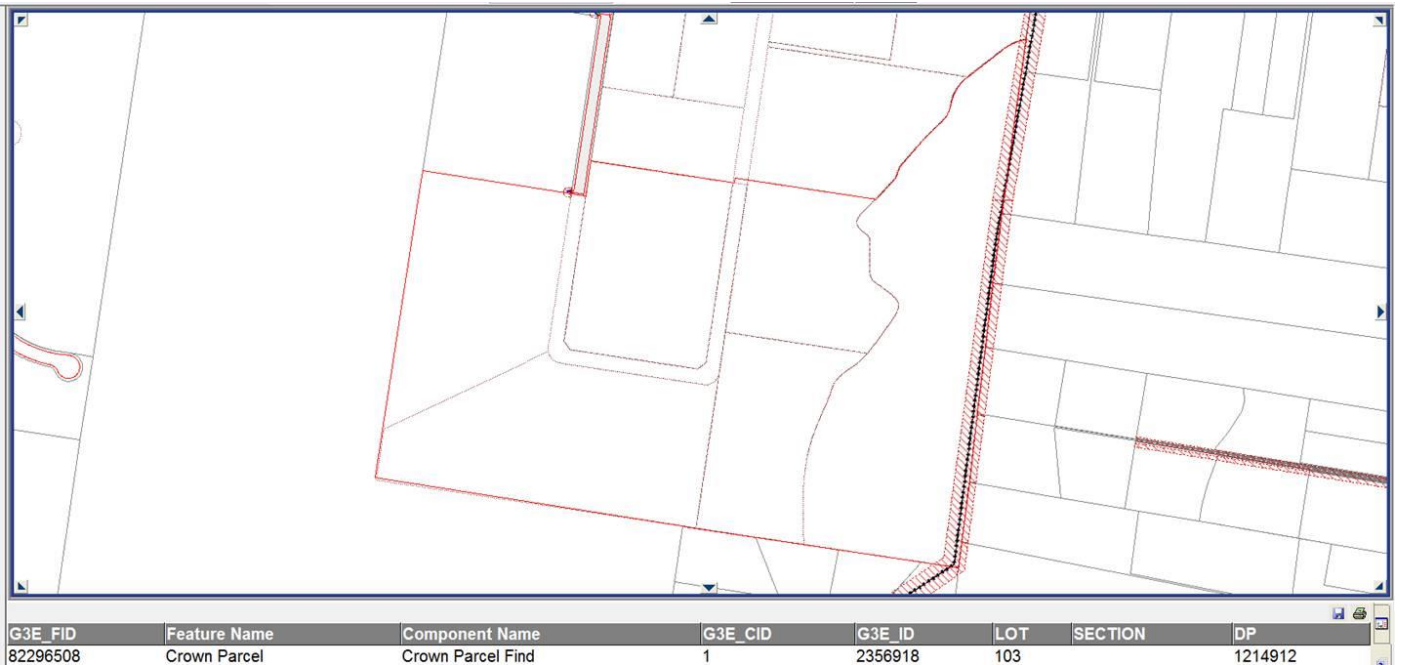


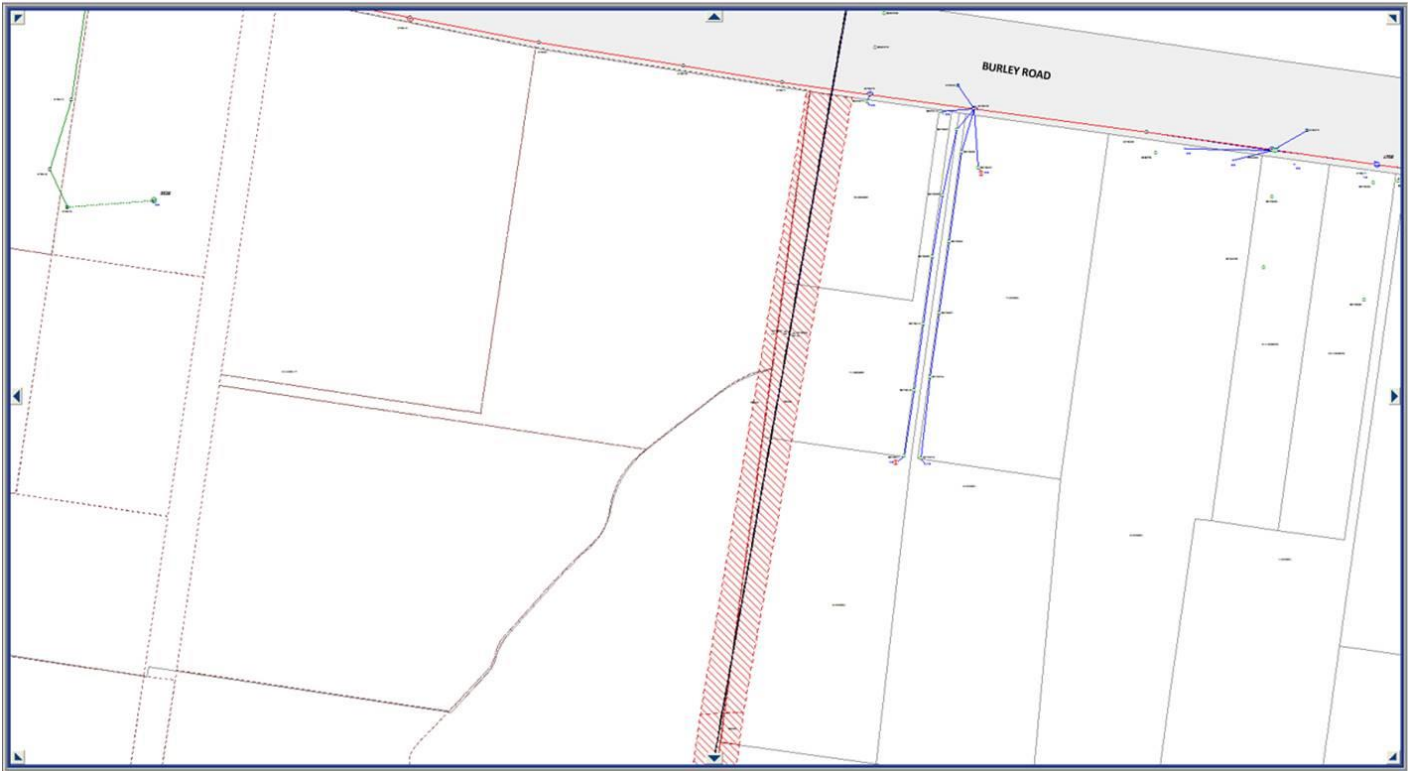
Figure 3 Aerial View and Staging Plan



Source: Urbis







**From:** Jessica Fountain <Jessica.Fountain@planning.nsw.gov.au>  
**Sent:** Monday, 27 July 2020 3:43 PM  
**To:** Property Development <Property.Development@endeavourenergy.com.au>  
**Cc:** Bruce Zhang <Bruce.Zhang@planning.nsw.gov.au>  
**Subject:** Notice of Exhibition – ESR Horsley Logistic Park (SSD-10436)

Dear Sir/Madam

The Department of Planning, Industry and Environment has received an Environmental Impact Statement (EIS) for the ESR Horsley Logistics Park (SSD-10436).

The EIS will be publicly exhibited from 30/07/2020 to 26/08/2020.

The EIS can be viewed on the Department's Major Projects website at <https://www.planningportal.nsw.gov.au/major-projects/project/28256> from 30/07/2020. If you wish to view the documents prior to this date, you will need to register an agency account on the Major Projects site. A User Guide is attached for your reference.

The Department invites you to advise on the proposal, including advice on recommended conditions by 26/08/2020.

If you have any enquiries, please contact Bruce Zhang on 02 9274 6137 or at [bruce.zhang@planning.nsw.gov.au](mailto:bruce.zhang@planning.nsw.gov.au).

Regards

**Jess Fountain**  
**DA Coordinator**

Key Sites, Industry and Regional Assessments | Department of Planning, Industry and Environment  
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[www.dpie.nsw.gov.au](http://www.dpie.nsw.gov.au)



*The Department of Planning, Industry and Environment acknowledges that it stands on Aboriginal land. We acknowledge the traditional custodians of the land and we show our respect for elders past, present and emerging through thoughtful and collaborative approaches to our work, seeking to demonstrate our ongoing commitment to providing places in which Aboriginal people are included socially, culturally and economically.*



**Please consider the environment before printing this e-mail.**