

8 November 2024

The Secretary  
NSW Department of Planning, Housing and Infrastructure

**Attention: Pamela Morales**

## **SSD-64409468 WESTERN SYDNEY AIRPORT BUSINESS PARK**

Dear Sir or Madam

I refer to the Department's email of 6 November 2024 regarding the Environmental Impact Statement (EIS) for State Significant Development SSD-64409468 Western Sydney Airport Business Park for 'Construction and operation of the Western Sydney Airport Business Park comprising earthworks, retaining walls, estate wide infrastructure, development of nine buildings for agribusiness uses, landscaping and riparian corridor works' at 2422 - 2430 The Northern Road, Luddenham (Lots 3 - 7 DP 1240511) in the Liverpool City Council local government area (LGA). Submissions need to be made to the Department by 5 December 2024.

Please refer to Endeavour Energy's submission made to the Department on 20 November 2023 regarding the request for Secretary's Environmental Assessment Requirements (SEARs) for SSD-64409468 Western Sydney Airport Business Park. The conditions and advice provided therein essentially remain applicable.

The Infrastructure Delivery, Management & Staging Plan prepared by Land Partners dated July 2024 includes the following advice addressing whether the available electricity services are adequate for the proposed development.

### **4.0 ELECTRICITY**

- a) Endeavour Energy have installed a substantial electrical conduit bank along Adams Road. Currently two 11kv high voltage feeders are installed in the conduit bank – refer to location plan in Appendix C.
- b) Endeavour Energy have been constructing a major electrical supply system to connect various zone substations within the Aerotropolis precinct. The route of this connection extends from the South Erskine Park zone substation (located in the Goodmans West precinct area) along Bakers Lane, across South Creek into Luddenham Road, along Elizabeth Drive, along Adams Road and along The Northern Road.
- c) A Technical Review Request was lodged with Endeavour Energy and their response is attached in Annexure B.

Endeavour have noted that a 22kV feeder (rated at 9.1MVA) can be installed in the conduit bank with Adams Road from the 132kV Western Sydney Airport zone substation (located along Elizabeth Drive east of the Adams Road intersection) within the Western Sydney Airport property.

Calculations outlined in Appendix B indicate a demand generated by the proposed development as 6MVA, whilst Endeavour Energy in their Technical Review have indicated a demand assessment as 6.7MVA. The 22kV feeder from the zone substation would cater for the expected demand generated by the proposed development.

A further 22kV feeder would need to extend from the internal site reticulation network to the north to connect to a switching station to be established in another development in Willmington Road at the corner of Elizabeth Drive.

As indicated in the Technical Review the applicant will need to complete the application for Subdivision or Connection of Load with Endeavour Energy's Customer Network Solutions Branch who are responsible for managing the conditions of supply with the applicant and their Accredited Service Provider (ASP) via the contact details provided below.

The Architectural Plans do not appear to show provision for any padmount substations. The required padmount substations will need to be located within the property (in a suitable and accessible location) and be protected (including any associated cabling not located within a public road / reserve) with an appropriate form of property tenure as detailed in the attached copy of Endeavour Energy's 'Land Interest Guidelines for Network Connection'.

Generally it is the Level 3 Accredited Service Provider's (ASP) responsibility (engaged by the developer) to make sure substation location and design complies with Endeavour Energy's standards the suitability of access, safety clearances, fire ratings, flooding etc. If the substation does not comply with Endeavour Energy's standards, the applicant must request a dispensation.

For further information please also 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 Padmount Substations.

Please find attached for the applicant's reference a copy of Endeavour Energy's Standard Conditions for Development Applications and Planning Proposals, Version 9, August 2023 which provides some additional and updated information.

For further advice the applicant can call Endeavour Energy via Head Office enquiries on business days from 9am - 4:30pm on telephone: 133 718 and the following contacts:

- Customer Network Solutions Branch for matters related to the electricity supply or asset removal / relocation who are responsible for managing the conditions of supply with the applicant and their Accredited Service Provider (ASP). Alternatively contact can be made by email [CWAdmin@endeavourenergy.com.au](mailto:CWAdmin@endeavourenergy.com.au) .
- Easements Officers for matters related to easement management, protected works or other forms of property tenure / interests. Alternatively contact can be made by email [Easements@endeavourenergy.com.au](mailto:Easements@endeavourenergy.com.au) .
- Property Branch for matters related to property tenure. Alternatively contact can be made by email [network\\_property@endeavourenergy.com.au](mailto:network_property@endeavourenergy.com.au) (underscore between 'network' and 'property').
- Field Operations Branch for safety advice for building or working near electrical assets in public areas. The site is in the area covered by Penrith Field Service Centre. Alternatively contact can be made by email [Construction.Works@endeavourenergy.com.au](mailto:Construction.Works@endeavourenergy.com.au) .

Based on and subject to the foregoing Endeavour Energy has no objection to the Development Application. Should you wish to discuss this matter, or have any questions, please do not hesitate to contact me or the contacts identified above or in Endeavour Energy's submission to the request for SEARs 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.

Yours faithfully

**Cornelis Duba** | Development Application Specialist

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Energy**

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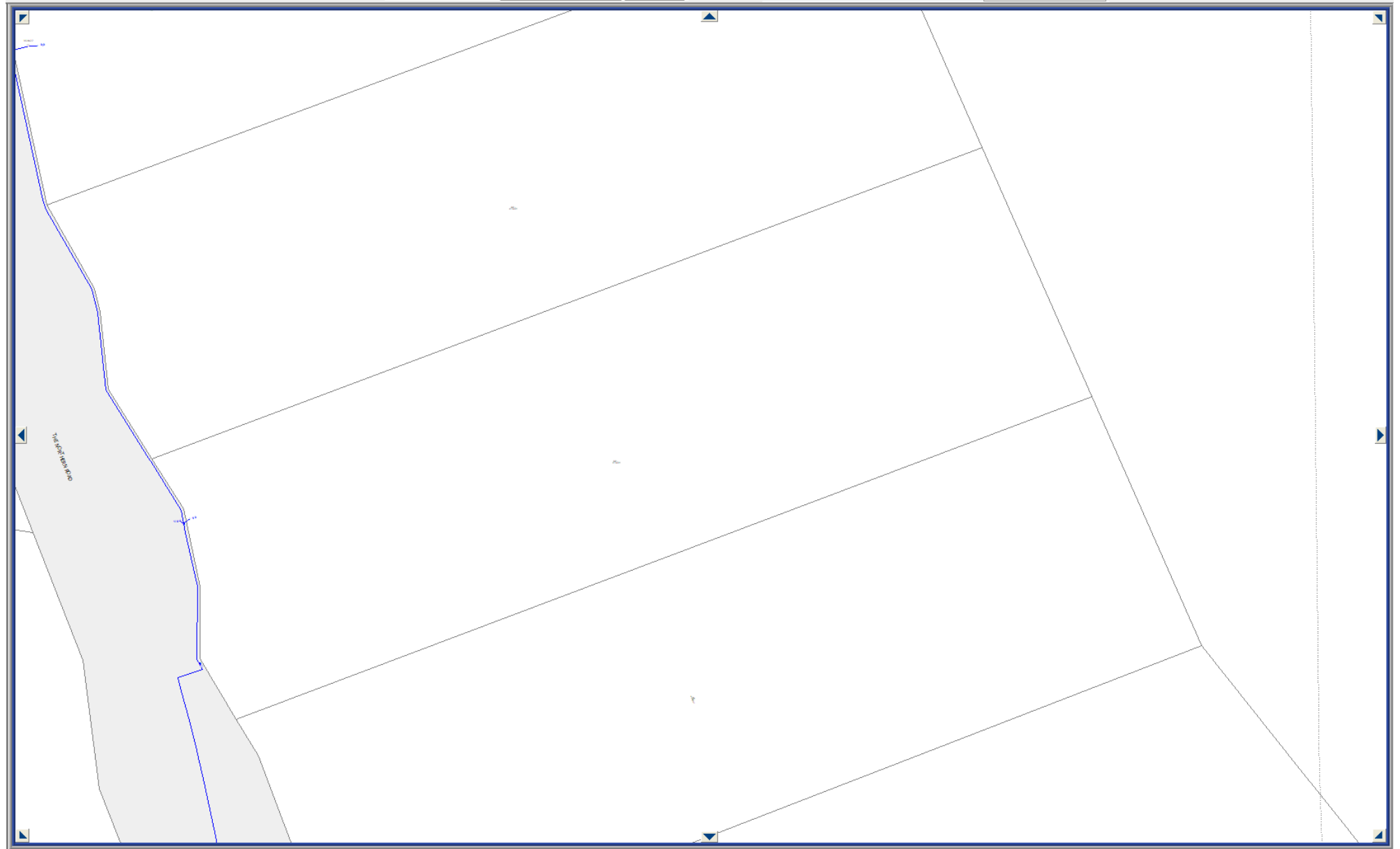
Endeavour Energy respectfully acknowledges the Traditional Custodians on whose lands we live, work, and operate and their Elders past and present.

## Site Plan from Endeavour Energy's G/Net Master Facility Model

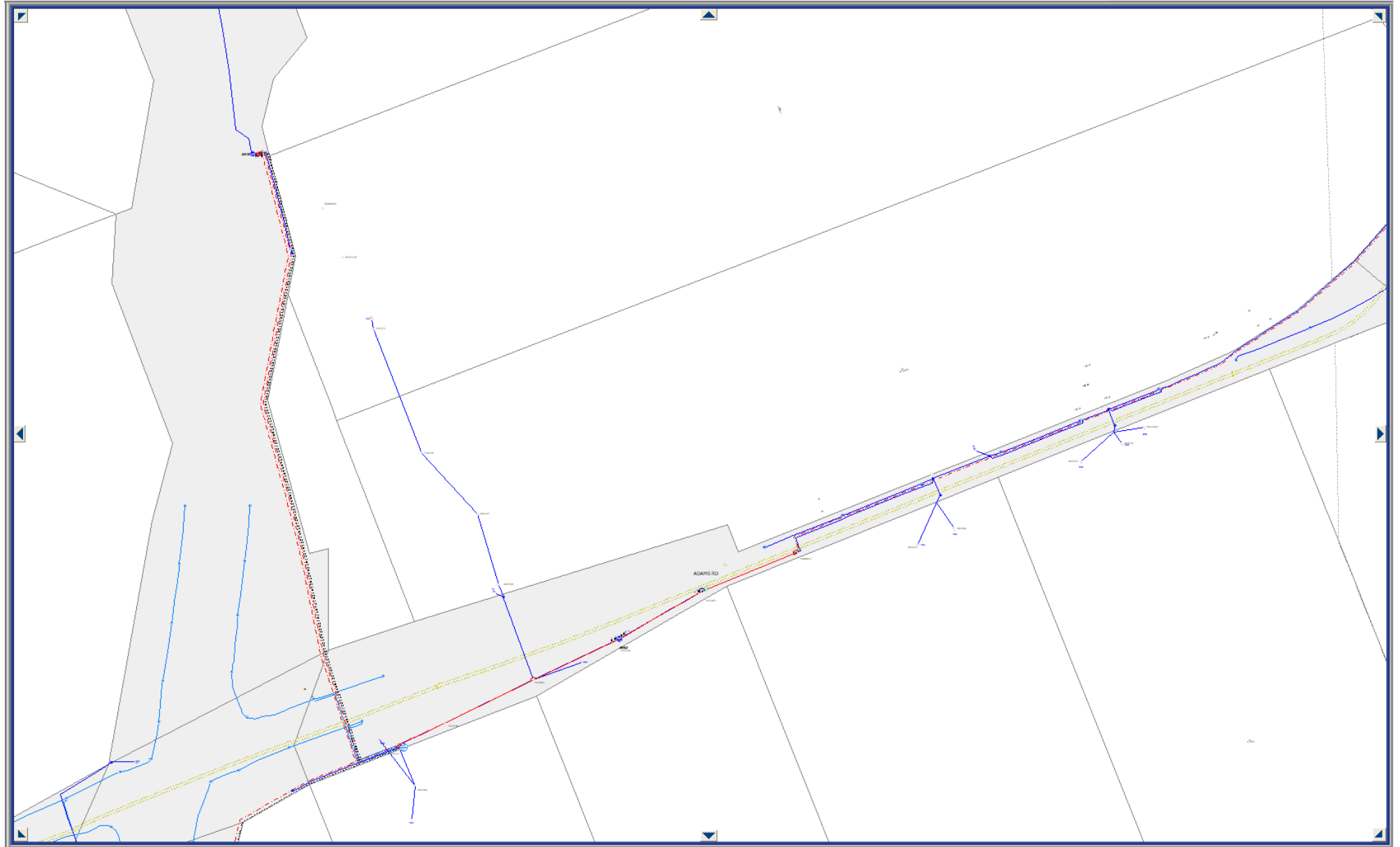



























Please note the location, extent and type of any electricity infrastructure, boundaries etc. shown on the plan is indicative only. In addition it must be recognised that the electricity network is constantly extended, augmented and modified and there is a delay from the completion and commissioning of 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).

# Site Plan from Endeavour Energy's G/Net Master Facility Model



# Site Plan from Endeavour Energy's G/Net Master Facility Model



LEGEND	
	Padmount substation
	Indoor substation
	Ground substation
	Kiosk substation
	Cottage substation
	Pole mounted substation
	High voltage customer substation
	Metering unit
	Switch station
	Indoor switch station
	Voltage regulator
	Customer connection point
	Low voltage pillar
	Streetlight column
	Life support customer
	Tower
	Pole
	Pole with streetlight
	Customer owned / private pole
	Cable pit
	Load break switch
	Recloser
	Proposed removed
	Easement
	Subject site