

The Secretary
NSW Planning, Industry & Environment

14 September 2021

ATTENTION: Navdeep Shergill

Dear Sir or Madam

I refer to the Department's below email of 17 August 2021 regarding the public exhibition of the Environmental Impact Statement (EIS) for State Significant Development SSD-15001460 Hawkesbury Centre of Excellence for a 'New educational facility within the Western Sydney University (Hawkesbury Campus) site providing agricultural and Science, Technology, Engineering and Mathematics (STEM) education, including on-campus short-term living accommodation' at Western Sydney University Campus, 2 College Street, Richmond (Lot 2 DP 1051798) in the Hawkesbury City Council Local Government Area (LGA). Submissions need to be made to the Department by 14 September 2021.

Please refer to Endeavour Energy's previous submissions made to the Department via email on:

- 23 February 2018 regarding the Notice of Exhibition for Development Application SSD 8614 Hurlstone Agricultural High School (Hawkesbury), Richmond, Western Sydney University Campus, 2 College Street, Richmond (Lot 2 DP 1051798) in the Hawkesbury local government area for development of the new Hurlstone Agricultural High School (Hawkesbury) (HAHS).
- 1 March 2021 regarding the request for Secretary's Environmental Assessment Requirements (SEARs) for State Significant Development SSD-15001460 Hawkesbury Centre of Excellence for a 'New educational facility within the Western Sydney University (Hawkesbury Campus) site providing agricultural and Science, Technology, Engineering and Mathematics (STEM) education, including on-campus short-term living accommodation' at Western Sydney University Campus, 2 College Street, Richmond (Lot 2 DP 1051798) in the Hawkesbury City Council Local Government Area (LGA).

The recommendations and comments provided therein remain valid.

Endeavour Energy has noted the EIS indicates is supported by an Infrastructure Management Plan which includes the following advice.

5.4 Electrical High Voltage Services

5.4.1 Existing High Voltage Supply

The existing WSU campus is supplied with an HV meter near the intersection of Londonderry Road and Vines Drive. A high voltage network reticulates through the WSU campus to several private substations, which provide LV to the various buildings on site. However, WSU has previously stated that the campus's supply is at capacity and there is insufficient spare power available to supply the new development.

5.4 Electrical High Voltage Services

5.4.2 Proposed High Voltage Supply

A new electrical supply to the campus is proposed from an Endeavour Energy padmount substation.

The substation is proposed to be located adjacent to the site with a new access road constructed (refer to Figure E1).

The maximum demand for the site is 462kVa and a 500 kVA Endeavour Energy padmount substation will be required to be installed for the development.


The consumer mains cabling reticulation will be via underground electrical conduits and pits to the school's main switchboard (MSB), which will be located inside the main switchboard room (MSR). It is proposed that the MSR will be located in an adjacent building closer to the substation's location.

A high voltage easement will be required from Londonderry Road to the new transformer location.

5.1 Authorities

An application for connection has been lodged and associated ASP Level 3 design works will be required.

The foregoing is in keeping with Endeavour Energy's advice included in its previous submissions.

As shown in the below site plan from Endeavour Energy's G/Net master facility model (and extract from Google Maps Street View) the green colouring (which indicates the electricity infrastructure is not owned or operated by Endeavour Energy) of the 11,000 volt / 11 kilovolt (kV) (constructed at 22,000 volts / 22 kV) high voltage overhead power lines to the Londonderry Road road verge / roadway going to pole on the road verge, turn to the east with 11 kV high voltage overhead power lines going to the meter unit (indicated by the symbol ) and (underground to overhead) bond points on the site.

Accordingly, subject to the foregoing Endeavour Energy has no objection to the Development Application.

Could you please pass on a copy of this submission 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 in Endeavour Energy's previous submissions 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 is preferred.

With the COVID-19 health risk a significant number of Endeavour Energy staff are working from home. Access to emails and other internal stakeholders can accordingly be somewhat limited. As a result, it may sometimes take longer than usual to respond to enquiries. Thank you for your ongoing understanding during this time.

Yours faithfully

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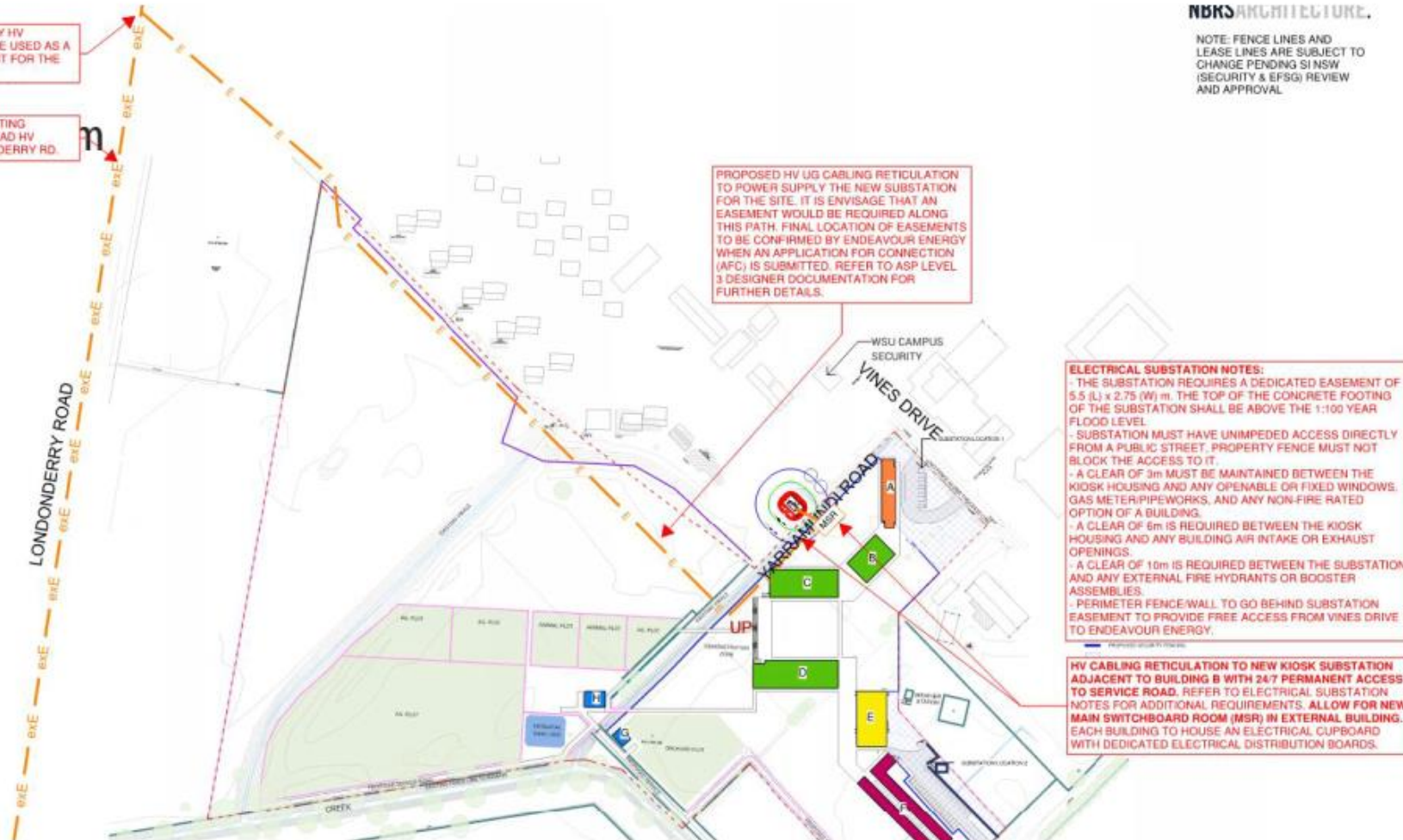
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EXISTING ENDEAVOUR ENERGY HV PROPOSED POWER POLE TO BE USED AS A PROPOSED CONNECTION POINT FOR THE NEW SITE.

INDICATIVE LOCATION OF EXISTING ENDEAVOUR ENERGY OVERHEAD HV CABLING ALONGSIDE LONDONDERRY RD.

NOTE: FENCE LINES AND LEASE LINES ARE SUBJECT TO CHANGE PENDING SI NSW (SECURITY & EFSG) REVIEW AND APPROVAL.



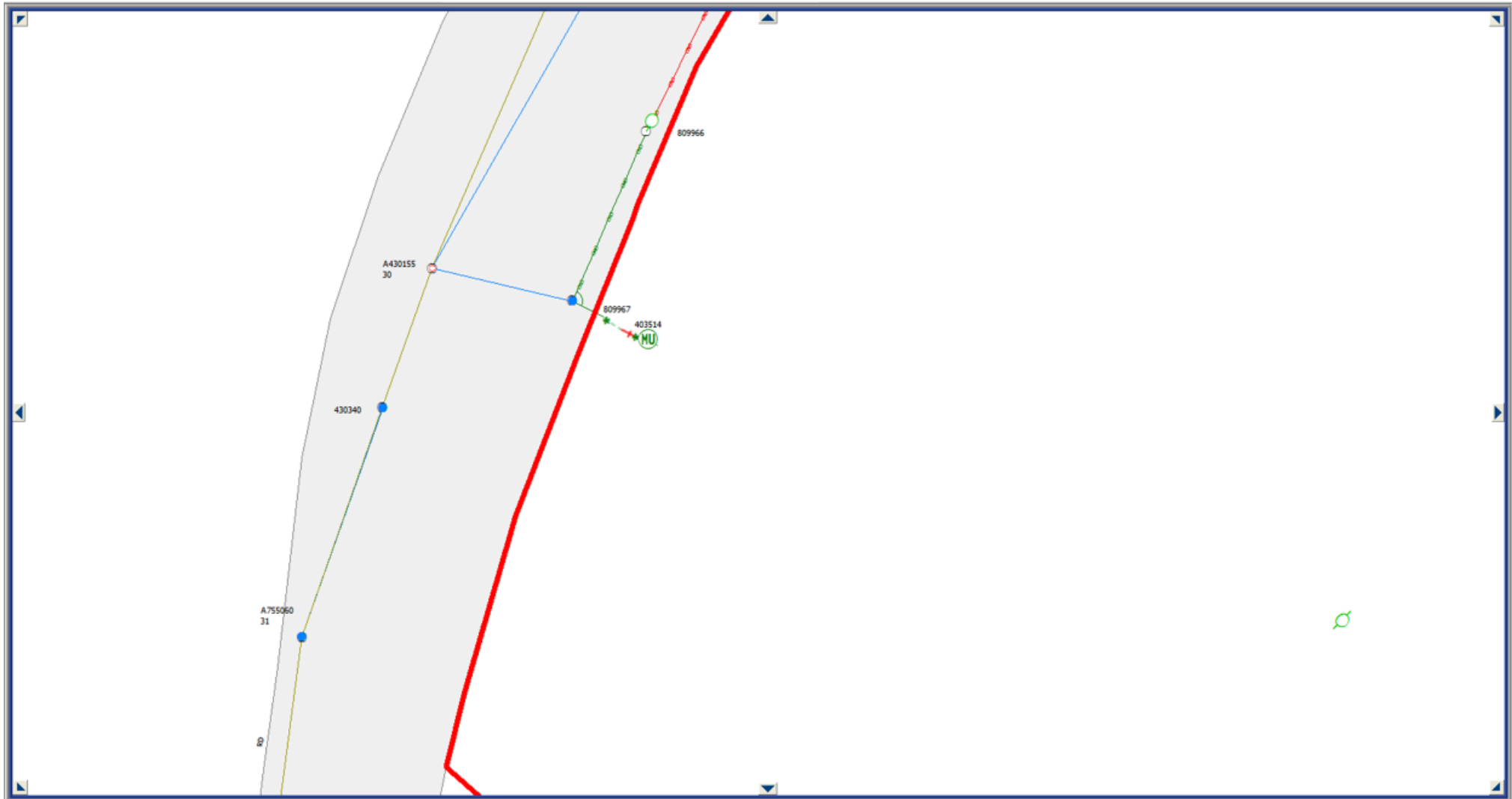
PROPOSED HV UG CABLING RETICULATION TO POWER SUPPLY THE NEW SUBSTATION FOR THE SITE. IT IS ENVISAGE THAT AN EASEMENT WOULD BE REQUIRED ALONG THIS PATH. FINAL LOCATION OF EASEMENTS TO BE CONFIRMED BY ENDEAVOUR ENERGY WHEN AN APPLICATION FOR CONNECTION (AFC) IS SUBMITTED. REFER TO ASP LEVEL 3 DESIGNER DOCUMENTATION FOR FURTHER DETAILS.

ELECTRICAL SUBSTATION NOTES:

- THE SUBSTATION REQUIRES A DEDICATED EASEMENT OF 5.5 (L) x 2.75 (W) m. THE TOP OF THE CONCRETE FOOTING OF THE SUBSTATION SHALL BE ABOVE THE 1:100 YEAR FLOOD LEVEL.
- SUBSTATION MUST HAVE UNIMPEDED ACCESS DIRECTLY FROM A PUBLIC STREET. PROPERTY FENCE MUST NOT BLOCK THE ACCESS TO IT.
- A CLEAR OF 3m MUST BE MAINTAINED BETWEEN THE KIOSK HOUSING AND ANY OPENABLE OR FIXED WINDOWS, GAS METER/PIPEWORKS, AND ANY NON-FIRE RATED OPTION OF A BUILDING.
- A CLEAR OF 6m IS REQUIRED BETWEEN THE KIOSK HOUSING AND ANY BUILDING AIR INTAKE OR EXHAUST OPENINGS.
- A CLEAR OF 10m IS REQUIRED BETWEEN THE SUBSTATION AND ANY EXTERNAL FIRE HYDRANTS OR BOOSTER ASSEMBLIES.
- PERIMETER FENCE/WALL TO GO BEHIND SUBSTATION EASEMENT TO PROVIDE FREE ACCESS FROM VINES DRIVE TO ENDEAVOUR ENERGY.

HV CABLING RETICULATION TO NEW KIOSK SUBSTATION ADJACENT TO BUILDING B WITH 24/7 PERMANENT ACCESS TO SERVICE ROAD. REFER TO ELECTRICAL SUBSTATION NOTES FOR ADDITIONAL REQUIREMENTS. ALLOW FOR NEW MAIN SWITCHBOARD ROOM (MSR) IN EXTERNAL BUILDING. EACH BUILDING TO HOUSE AN ELECTRICAL CUPBOARD WITH DEDICATED ELECTRICAL DISTRIBUTION BOARDS.

Figure E1: Electrical Infrastructure Site Plan



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. 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).



133 Londonderry Rd
Richmond, New South Wales

Google

Street View - Sep 2020



Google