

POWER LINE DESIGN PTY LTD

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09 April, 2022.

Mr William Hodgkinson
Mirvac Projects (NSW) Pty Ltd
200 George Street
SYDNEY NSW 2000

Re: Proposed Development – Investigation for Glenmore Park Stage 3: Chain-O-Ponds and The Northern Road, Mulgoa

Power Line Design Pty Ltd has been engaged to carry out an investigation on the feasibility of supplying the total of 2400 dwellings, a local centre and primary school as part of the Glenmore Park Stage 3 development located adjacent to the Chain-O-Ponds and the Northern Road, Mulgoa.

The proposal consists of:

- 1760 low density dwellings,
- 510 medium density dwellings,
- 30 Fonzie flats within medium density,
- 100 shop top dwellings,
- Including 5,000m² GLFA mixed-use centre,
- Including 1,000 student primary school.

Refer to Sheet 1 of this report for detailed Masterplan.

This assessment is based on information obtained directly from Endeavour Energy Network Capacity Planner responsible for the region.

This assessment only looks at the 11kV network as the 11kV network is the basic framework of a development of this size with Padmount Substations being utilised throughout the development to offer localized supplies to each individual lot.

The information supplied by Endeavour Energy's Network Capacity planner is based on Endeavour Energy's historic data, current policies, and modelling of future growth of the area and adjacent region.

Endeavour Energy has confirmed that sufficient spare 11kV capacity exists at both Luddenham and Glenmore Park Zone Substations to supply the proposed development:

- Luddenham Zone Substation is located along The Northern Road approximately 1.3km South of the proposed development. Endeavour Energy has confirmed that a spare Circuit Breaker at the Luddenham Zone Substation can be utilised for the termination of a new 11kV feeder which would extend directly from the Zone Substation to within the development. (Endeavour Energy Project No. ARP4241)
- Existing 11kV feeders supplied from Luddenham Zone Substation (No. A095 & No. A096) will provide backup capacity to the development.
- Glenmore Park Zone Substation has the capacity to accommodate the installation of a new 11kV feeder to supply approximately 1300 lots if required. This feeder would require the installation of approximately 2.6km of new underground cable from Glenmore Park Zone Substation to the development. The cable would utilize a combination of existing conduits and new conduits to be installed as part of the construction process. Glenmore Park Zone Substation is located along Woodlands Drive, Glenmore Park to the west of the intersection of Linara Circuit, approximately 1.8km North-West of the proposed development. (Endeavour Energy Project No. ARP3834)
- Endeavour Energy has plans and strategies in place for augmentation and extension of 11kV and Transmission Networks in the area. Once the capacity of the first 11kV feeder (project ARP4241) from Luddenham Zone Substation approaches capacity. Other strategies such as the installation of the second feeder from Glenmore Park Zone Substation (ARP3834) or the augmentation of other parts of the existing network may be required.

In conclusion, based on the advice given from Endeavour Energy Network Capacity Planner, Endeavour Energy has the capacity to supply this development from initial stages through to completion of the development.

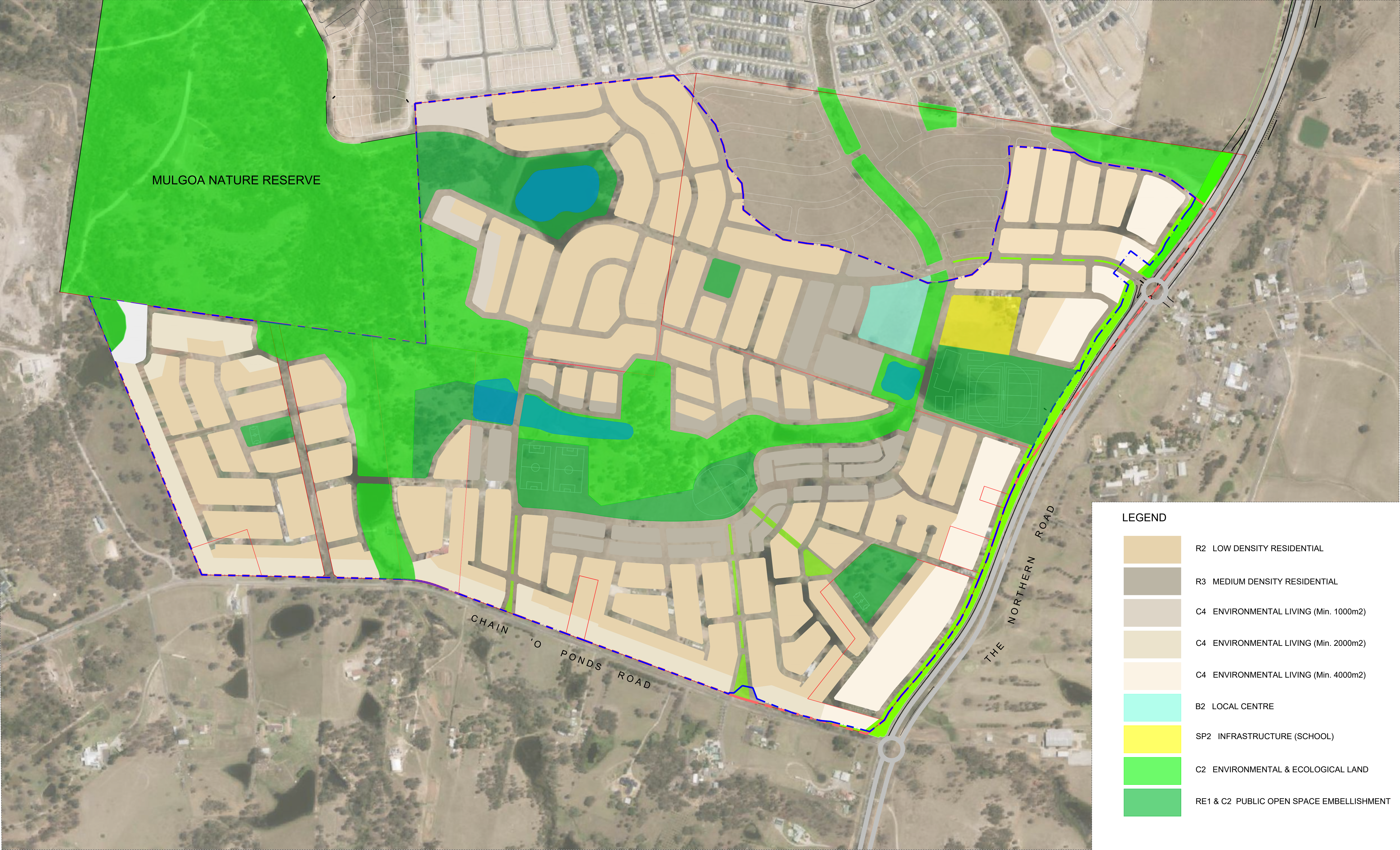
If you have any further queries, please feel free to contact myself on (02) 4872 1920.





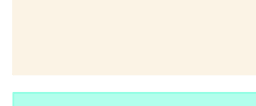




Yours Sincerely,

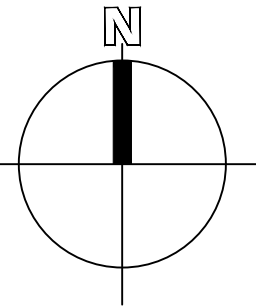
Michael Baranowski

Michael Baranowski
Senior Design Engineer

Disclaimer: This report has been prepared with every effort made to ensure its accuracy at the time of the investigation. Neither Power Line Design Pty Ltd nor any of its employees shall be liable for any decision/s or actions taken as a result of this report.



LEGEND	
	R2 LOW DENSITY RESIDENTIAL
	R3 MEDIUM DENSITY RESIDENTIAL
	C4 ENVIRONMENTAL LIVING (Min. 1000m2)
	C4 ENVIRONMENTAL LIVING (Min. 2000m2)
	C4 ENVIRONMENTAL LIVING (Min. 4000m2)
	B2 LOCAL CENTRE
	SP2 INFRASTRUCTURE (SCHOOL)
	C2 ENVIRONMENTAL & ECOLOGICAL LAND
	RE1 & C2 PUBLIC OPEN SPACE EMBELLISHMENT



New CPCP Boundaries
Response

Mulgoa
Chain-O-Ponds & The Northern Road
Plan A.1 - 4000 m2 lots along
The Northern Road

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architecture
urban design
interior design
graphic design
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date 07-04-2022
scale @ A1 1:4000
job no.
drawing no. **PL 01** rev **G**