

**192 NARELLAN ROAD (LOT 4), CAMPBELLTOWN  
STAGE 1**

**UTILITY INFRASTRUCTURE SERVICING**

**FOR CLEARSTATE CAMNARR192 PTY LTD**

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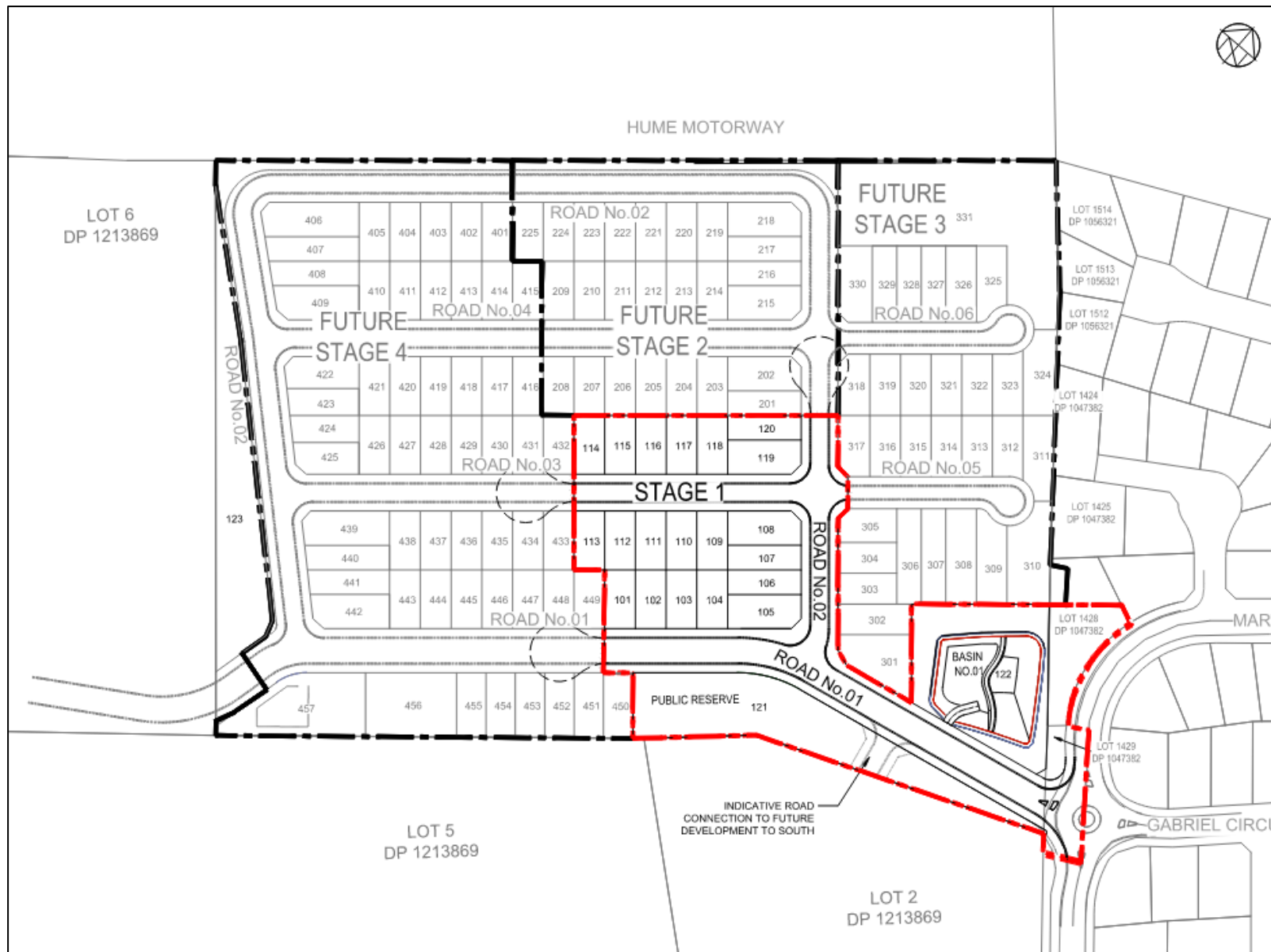
## 1. INTRODUCTION

Indesco have been engaged by Clearstate CamNarr192 Pty Ltd ('the Proponent') to prepare this engineering report to support the development application for the development of Stage 1 of 192 Narellan Road (Lot 4), Campbelltown ('the Site'), as identified in the figure overleaf.

The scope of this report is to provide preliminary advice regarding utility infrastructure required to service the proposed development of the Site, including:

- Wastewater;
- Potable water;
- Electricity;
- Gas; and
- Telecommunications.

Please refer to the table overleaf for a summary of Indesco's investigation.



Item	Details
Wastewater	<p>Stage 1 sewer reticulation will discharge to an exiting DN 150mm stub in the south-eastern corner of the Site.</p> <p>Stage 1 sewer reticulation will be designed to cater for upstream catchments within Stages 2 and 3. The remaining portions of Stages 2 &amp; 3 will discharge to an existing DN 150mm stub in the north-eastern corner of the Site. The Stage 4 discharge will require an off-site lead-in to through neighbouring properties to the south of the Site.</p> <p>The above requires confirmation from Sydney Water.</p>
Potable Water	<p>There is existing 100mm diameter reticulation network in Maryfields Drive fronting the Site.</p> <p>There are several potential servicing options:</p> <ul style="list-style-type: none"> <li>• Option A – Offsite connection to 150mm infrastructure in Maryfields Drive. It is possible that one or two connections may be required (between 150m and 650m of total offsite works);</li> <li>• Option B – Offsite connection to 450mm infrastructure in The Kraal Drive (850m of offsite works); or</li> <li>• Option C – Offsite connection to 500mm/700mm infrastructure in Narellan Road (700m of offsite works through future development areas).</li> </ul> <p>The above servicing options would service Stages 1-4 of the development.</p> <p>The above requires confirmation from Sydney Water.</p>
Power	<p>There are several 11kV high-voltage power feeders proximate to the Site.</p> <p>The site is also in close proximity to the Campbelltown Zone Substation (ZS), which is located to the south of the intersection of The Kraal Drive and Mossberry Street. EE's forecasting suggests that the Campbelltown ZS has ample capacity to service the proposed development.</p> <p>While there are numerous feeders proximate to the Site, their capacity is unknown. It is unclear whether extension of an offsite feeder to the Campbelltown ZS will be required.</p> <p>The above requires confirmation from Endeavour Energy.</p>

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Gas	<p>There is existing 32mm and 50mm diameter reticulation network in Maryfields Drive fronting the Site.</p> <p>There are two likely servicing options:</p> <ul style="list-style-type: none"><li>• Option A – Simple connection (and potential interlinking) to existing infrastructure fronting the Site; or</li><li>• Option B – Offsite connection to 75mm infrastructure in The Kraal Drive (400m of offsite works).</li></ul> <p>The above requires confirmation from Jemena Gas.</p>
Telecommunications	<p>There is existing NBN Co infrastructure in Maryfields Drive fronting the Site.</p> <p>NBN Co mapping indicates that the Site is in a 'Service available area'.</p>

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