

## Memorandum

**Date:** 12.12.2019  
**Project:** The New Primary School at Warnervale  
**Document Reference:** SY171701-00-HME03-1  
**Client Reference:** NSW Department of Education  
C/- Billard Leece Partnership  
Level 6, 72-80 Cooper Street  
Surry Hills NSW 2010

### New Primary School at Warnervale – SSDA Response

Below are Northrop responses to the two specific comments that were received from the State Significant Development (SSDA-9439) submission for a proposed New Warnervale Public School at 75 Warnervale Road at Warnervale, NSW.

1. **NSW RFS Comment: Services (Water, gas and electricity)**

*The provision of water, electricity and gas services shall comply with section 4.2.7 of Planning for Bush Fire Protection 2006*

**Northrop's Response**

- Northrop's hydraulic services schematic design includes reticulated water supplies for fire hydrant which has been designed in compliance with section 4.2.7 requirements of Planning for Bush Fire Protection 2006. Reticulated water supply incorporates a ring main system with fire hydrant spacing, sizing and pressures comply with AS 2419.1-2005
- Northrop's schematic design for electrical services includes reticulated electrical transmission lines as underground services, complying with section 4.2.7
- Northrop's hydraulic services schematic design includes reticulated natural gas service with metal piping designed in accordance with AS5601 – 2013 and compliant with requirements of section 4.2.7 of Planning for Bush Fire Protection 2006. No LPG gas bottles/cylinders are incorporated in the design.

2. **Central Coast Council Comment: Water & Sewer**

*Water and Sewer issues will be dealt with through the Water Management Act process. Conditions to address this have been included.*

**Northrop's Response**

- A Section 305 Application will be undertaken in accordance with the Water Management Act.

- While conditions have not been provided for our review, we understand that questions have been raised regarding the proposed road design in relation to the existing water, sewer and gas services. The impact of the proposed road works on the authority gas, water and sewer infrastructure services will be subject to further design development, however we have provided a preliminary Infrastructure Utility Services Impact sketch showing potential impacts for future consideration.

We trust the above information is satisfactory to you, however should you require any further information, please contact the undersigned.

Yours sincerely,



Adrian Cassar  
Team Leader | Senior Hydraulic Engineer  
Northrop Consulting Engineers Pty Ltd

| Date       | Rev | Issue           | Author  | Verifier  |
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| 12.12.2019 | 1   | For Information | C. Dave | A. Cassar |
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