

POSITION PAPER

Hydrants on Domestic supply

This Position Paper summarises the IPIQ's response to issues in Queensland and is for the information of Local Government Authorities and the plumbing industry. This paper has been produced to encourage consistency across the state of Queensland in plumbing related issues.

The intent is for advice and a guideline document only

Note Section 34 SPDR allows council to approve a supply pipe to be built to the standard of a water main if they wish; these mains become the responsibility of the owner to maintain.

Any requirement for how mains are installed in larger private developments must be stated in a local government policy

Definition:

Use of above ground hydrants connected to domestic water supply

The Context:

Most council's allow hydrants on domestic supply in Class one and townhouses type developments i.e. private gated subdivisions, retirement villages.

The Facts:

There are two types of fire services

1. Special fire services as **prescribed** under the BCA for firefighting and prevention. QFRS check and ensure operation
2. Fire services as mentioned in the State Planning Policy Code. These QFRS don't check.

The issues:

1. Protection of drinking water to prevent contamination.
2. Locating hydrants at time of fire.
3. Consistency within the regulation industry.
4. AS 2419.1 is referenced under the BCA not the PCA but do relate to each other and Certifiers request form 16s from plumbers saying it complies with this standard
5. AS 2419.1 appendix B state the hydrants private title developments should incorporate

- D 100 mm pipework or larger water mains to supply hydrants.
6. AS 2419.1 appendixes B states above ground hydrants are preferred for ease of identification and access under fire conditions.
 7. Section 3 AS 2419.1 3.2.2.1 states external hydrants shall be above ground.
 8. The SPP have inconsistencies stating above or below ground hydrants but the standard should be the go to document.
 9. These hydrants are flush points or a means of water supply if a fire only and are not part of a prescribed fire system.

IPIQ's position:

Internal hydrants on private lots should be easily found at time of **a fire use.**

The use of above ground hydrants supplied off a 100 mm water main will be permitted providing

- *They are manufactured from watermarked pipe, copper or stainless steel with check valves that meet AS 4020.*
- No in ground bayonet systems

There is no additional backflow installed at the meter as the pipework meets drinking standard requirements.

Doesn't relate to any other classes other than class 1 and 1a.

Double headed or single above ground.

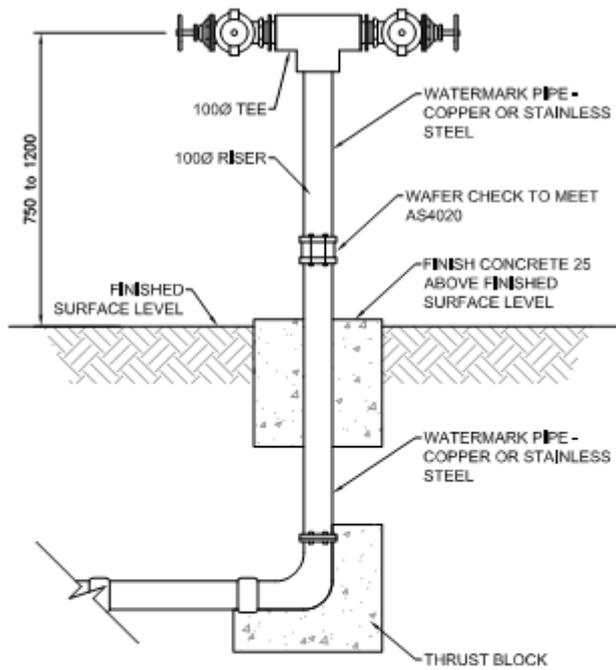
Internal hydrants installed on a domestic water service is deemed as a water service.

Definition AS/NZS3500.0

Fire hydrant; A fitting installed in a water pipeline, which provides a valved outlet (above or below ground), to permit a controlled supply of water to be taken from the pipeline for firefighting or street flushing.

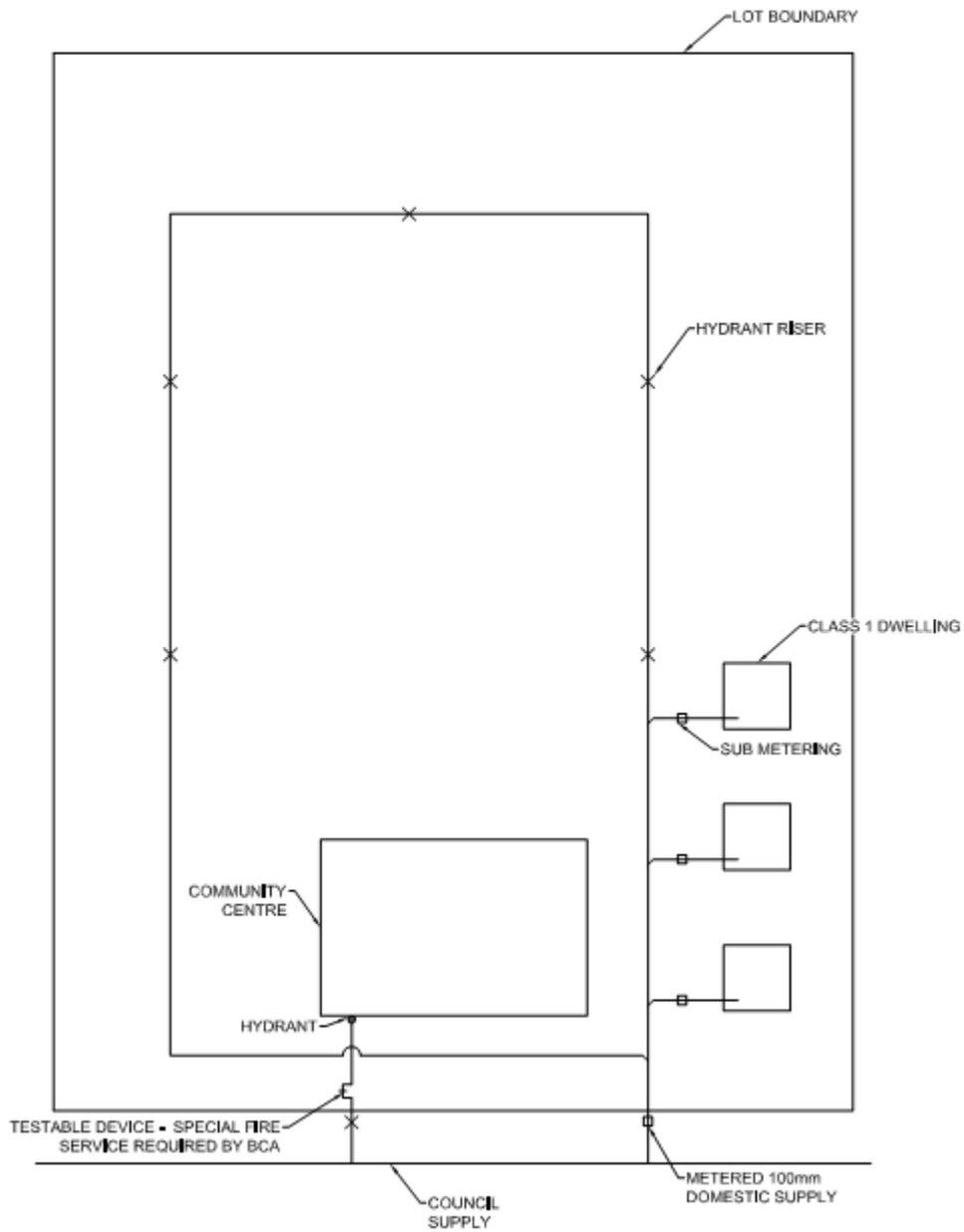
Fire service; A service comprising water pipes, fire hydrants, fire hose reels, fittings, and including water storage or pumping facilities, which is installed solely for firefighting and extinguishing purposes in and around a building or property. Under certain conditions part of a fire sprinkler system may be included.

Services that can be used for other purposes are deemed to be water services.



DETAIL PLAN - EXAMPLE OF AN EXTERNAL FIRE HYDRANT SHOWING LOCATION OF THRUST BLOCK (NOT TO SCALE)

Example maybe town house or individual dwellings such as retirement home



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