

# Depths of our mains

This information provides information to help designers and constructors confirm the location of our underground services as part of design and prepare when commencing excavation work.

## Why it's important to know the variances in the depths of our services?

The levels of roads, footways and general ground surfaces are often altered as part of renewal, upgrading and development works carried out to subsequently to installation of underground services. Because of this the depths of services can be substantially more or less than the original installation depth and need to be confirmed by hand excavation (potholing) on site.

Our plans show the depth at the time of construction – they are not necessarily adjusted to reflect and subsequent changes to surface levels.

Plans may be obtained by visiting [www.1100.com.au](http://www.1100.com.au)

## Water mains

Are normally laid at 'standard' depths. The depth may be increased locally where it's necessary to accommodate stop valves, hydrants and other appurtenances. The depth of cover may also be increased locations to suit expected changes in circumstances such as road (re)construction or surface level adjustment.

Indicative design covers water mains is set out in the below table.

| Location   | Indicative design cover (mm) # |
|--|--------------------------------|
| Non roadways <ul style="list-style-type: none"> <li>• general</li> <li>• industrial or commercial</li> </ul> | 450 – 650<br>600 - 700         |
| Sealed roads   | 600 - 700                      |
| Major roadways / embankments   | 750                            |
| Freeways   | 1200                           |

# depth from ground surface to top of pipe barrel.

## Sewer and enclosed/buried stormwater conduits

Because sewer and stormwater mains are generally designed for gravity flow, there is no standard depth at which they are constructed. For each situation, design depth (and hence cover) needs to be ascertained from our Sydney Water plans.