

### Design

The design of street trees shall generally be in accordance with the City's Urban Forest Plan, Street Tree Guide, Street Tree List & Matrix and these D&C Notes.

Design documentation including street trees is to be reviewed and approved by the City prior to the commencement of works.

#### Tree homes:

- The City aims to provide the best possible environment for street trees to establish, thrive and mature for many decades - an urban Tree Home. This is done by following the practices set out in this specification and subsequent details and includes the provision of adequate soil volumes, access to water and protection from vandalism or damage.
- Tree homes should include storm water harvesting systems and additional soil volumes via structural soils or cells wherever physically possible.
- Tree homes should be designed wholistically to maximise the size and health of the tree and it's future contribution to our urban forest.
- Further details of the various tree home elements are detailed below.
- Standard tree home designs are outlined in these Design and Construction Notes. Alternatives may be considered in wide verges or medians, parking bay alignments etc (Refer to Street Tree Guide). All alternative designs must be reviewed and approved by the City's Representative.

#### Alignment

- It is preferred new trees are aligned with existing trees
- Failing this, in softscapes, they are to be centrally located.
- Preferred alignment in hardscapes is grates 400mm (one full paver) from back of kerb.
- Alternative alignments shall be reviewed and approved by the City's Representative.
- Alignment closer to the kerb is sometimes acceptable in narrow footpaths or to avoid existing services. However this is not appropriate for certain species on bus routes.
- Alignments should always allow for a minimum of 2m accessible pedestrian thoroughfares around them (not including the grate). Exceptions to this may apply in very narrow streets. These must be reviewed and approved by the City's Representative.

#### Spacing

- Trees should be spaced to allow them to fully mature, providing maximum benefit for the longest possible lifespan. This shall include consideration of species, mature size, form, soil volume and above ground space.
- Sites are to be assessed for awnings, powerlines, light poles, CCTV cameras, signage, traffic signals etc.
- Trees should be at least 1.8m from crossovers to allow clear sight lines and 10m back from traffic signals where they could block sightlines to the signals.

Trees should generally be consistently spaced at

- Small Species = 6-8m (canopy spread)
- Medium Species = 8-10m
- Large Species = 10-12m
- Refer to Street Tree List for size categories for each species.