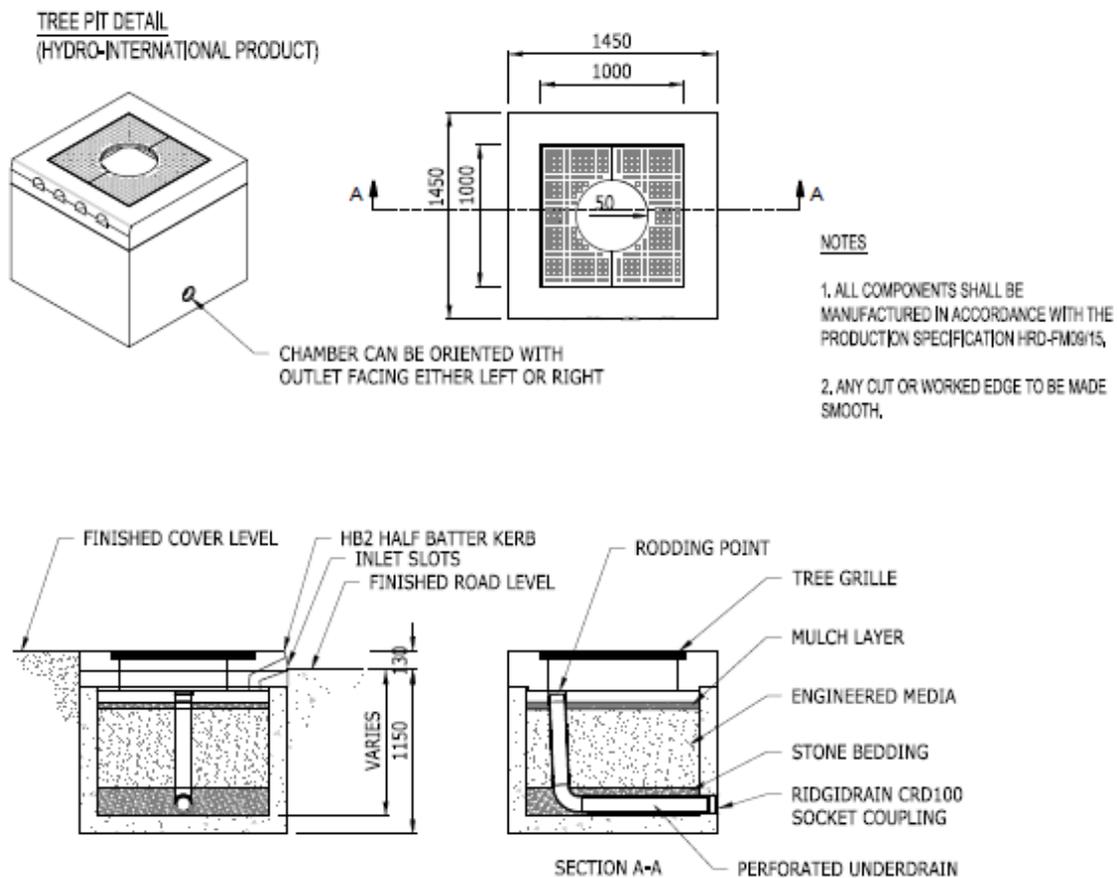


Sustainable Drainage Systems (SuDS)

Within the Uckfield Town Centre – Highway Improvement Scheme (UTC-HIS) we are reviewing the possibility of incorporating a number of SuDS into the scheme to reduce the flow of surface water in a southerly direction down the High Street, thereby reducing the risk of flooding near the Bell Lane Junction. The SuDs (in the form of tree pits) will help to capture water as it moves along the footways and down the kerb line between carriageway and footway.

The diagrams below provide some details on how the SuDs are constructed. (Please note that this exact design may not be utilised within this scheme)



TREE PIT
(HYDRO-INTERNATIONAL PRODUCT)



Once surface water makes its way into the tree pit, it will filter down the soil medium. Excess water collected at the bottom of the system will discharge into the existing sewer in the High Street through an outlet pipe. The tree pits will provide a level of surface water treatment via its medium and reduce peak discharges and volumes into Southern Water surface and foul water sewers.

The tree pits require basic maintenance, such as the removal of sediments and litter, replacement of mulch and ensuring inlets and outlets are clear. Maintenance is typically required twice a year.

The UTC – HIS Project Team are currently considering the utilisation of Acer Streetwise trees within the Tree Pits. The Acer Streetwise is an ideal tree for urban sites:

- tolerant of all soil types
- Drought resistant
- Able to cope with water ingress (which may occur on occasion within the Tree pit)
- Pollution tolerant
- Shallow routes that do not exhibit aggressive routes (they will not be causing paving slabs to lift)
- Pest and disease tolerant

The Acer Streetwise has a neat upright habit, with a relatively small crown. The growth of the trees within the SuDs will be limited by chamber they are placed in. Its Deciduous with a 'clean' leaf drop i.e. they do not drop fruit or flowers. The aesthetic appearance of the tree is enhanced by its Brilliant Yellow autumn colour. The picture on the next page gives an indication of what they will look like.



