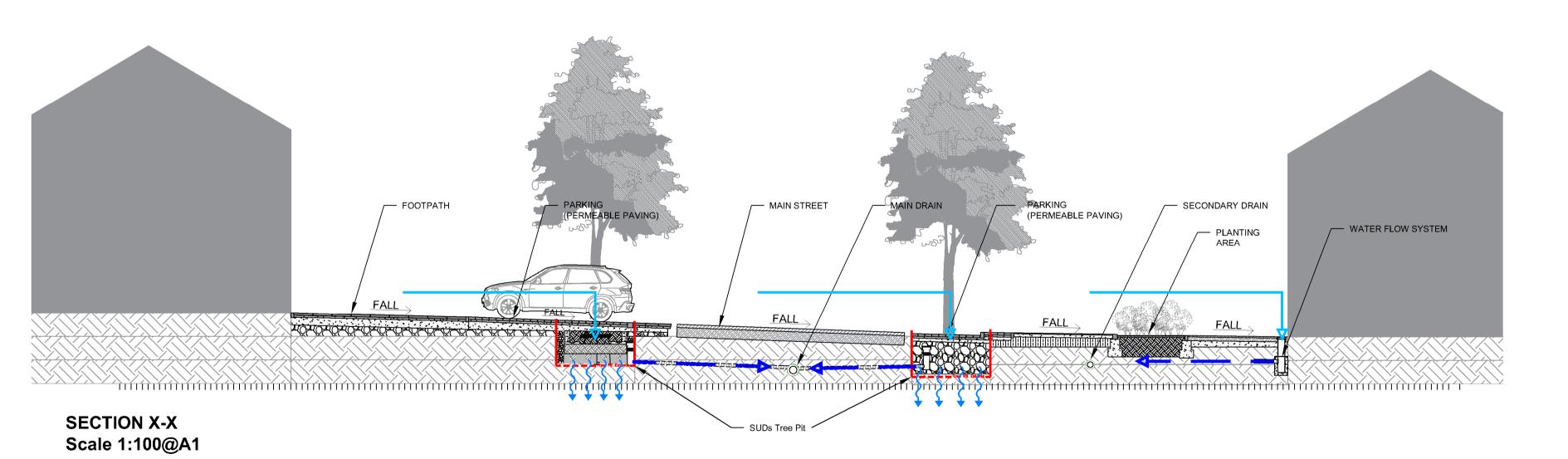
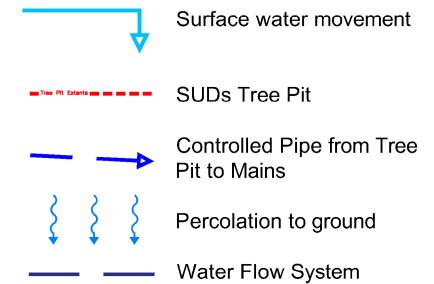


DETAIL AREA Scale 1:100@A1



LEGEND

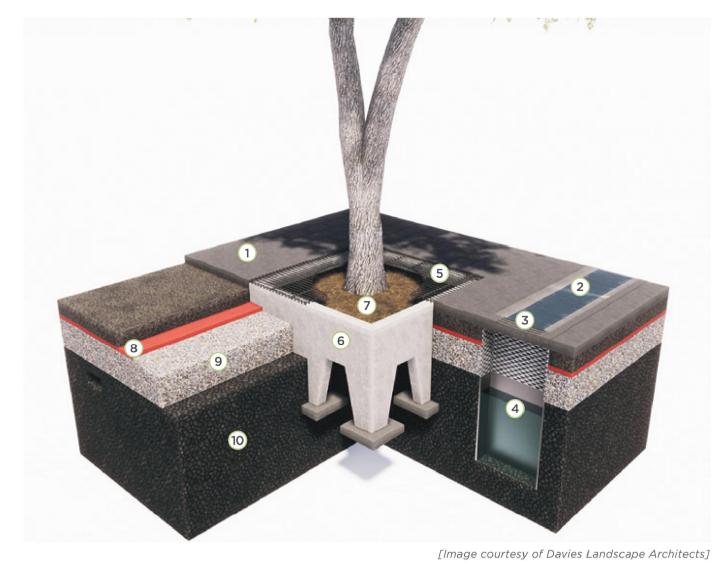


SUDS STRATEGY

Currently all surface water on Main Street and Market Square runs straight to the collector Drainage pipe in the centre of the road. This is then conveyed to outfalls with all surface water drains and ultimately to river or other water channels. In extreme events the sudden inflow of volumes of water can cause downstream flooding.

The SUDS drainage strategy seeks to capture surface water in specially constructed tree pits with a 30% by volume void or capacity which will "hold" water pending its controlled and slow release to the main drains thus avoiding a sudden influx of water to the system.

Much of the water in the tree pits will simply percolate away or be used by the trees, restoring natural water systems beneath the public realm.



- Permeable surface + Build-up
- Channel to divert rainwater (if required)
- Inlet/gully grate for water ingress and gaseous exchange
 - Aeration well with slit trap
 - Tree grille or gravel
- Concrete frame to direct roots to substrate
- Top soil area
- Separate geo-textile
- 9. Aeration layer, this is 200mm layer of 20-40mm clean stone. Water from the inlet is also distributed through this layer.
- 10. Structural soil; 20-40mm crushed rock with soil installed in 200mm layers.

Typical diagram of a SUDs Tree pit

Scale 1:1250@A1



NOTE: ALL MATERIALS AND FINISHES ARE SUBJECT TO **FURTHER DETAILED DESIGN**



County Council

A 09/12/2022 EDITS

REV DATE AMENDMENT

CUNNANE STRATTON REYNOLDS LAND PLANNING & DESIGN





21545-2-901

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PROJECT:	DATE:	NOV 2022
KINGSCOURT TOWN CENTRE REGENERATION DRAWING: OUTLINE SUDS STRATEGY	SCALE:	AS SHOWN
	DRAWN: CHECKED:	PG DOL

DRAWING NO: