

COOL TOWNS

Establishing the future urban landscape





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COOL TOWNS

Towards heat resilient cities

Water Quantity



Water Quality



Amenity



Biodiversity



THE FOUR PILLARS OF SUDS

In 2015, CIRIA (Construction Industry Research and Information Association) launched the SuDS Manual, which stated that the overarching principle of SuDS design should be that surface water runoff should be used for maximum benefit.

The 'four pillars' detail the means by which these benefits can be delivered.

Maynard Avenue, Margate



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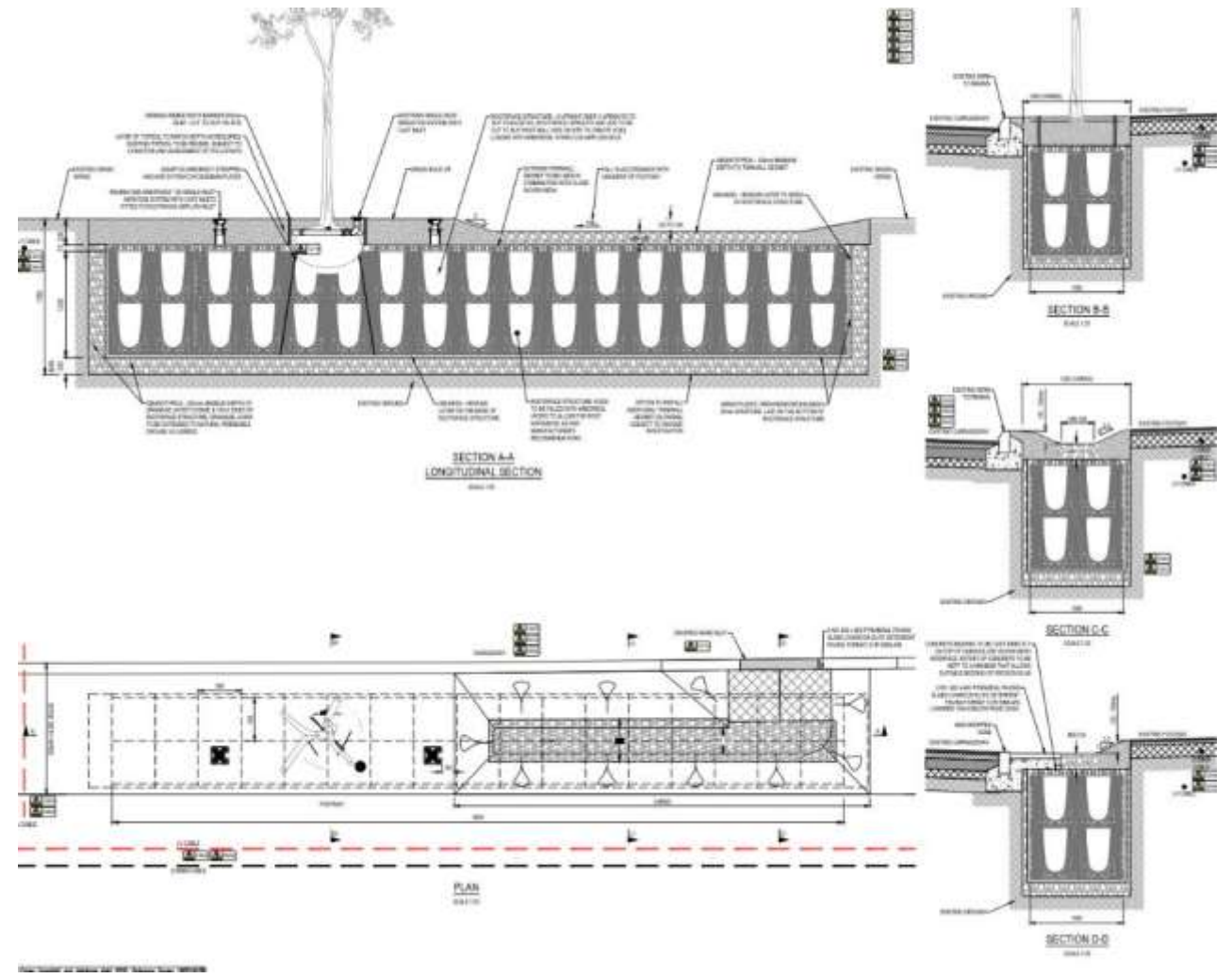
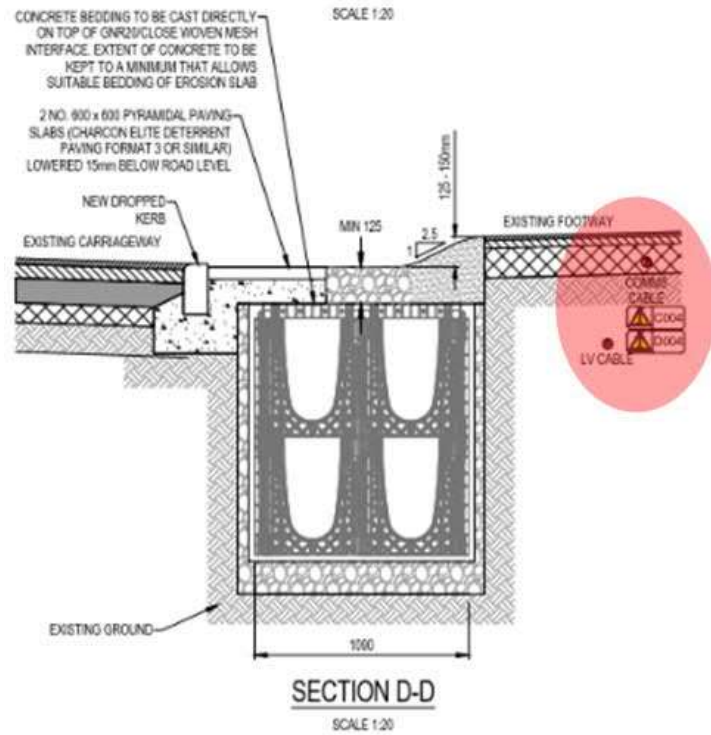
Collaborating with Kent County Council & WSP to make Margate a cooler, greener place



On-site constraints

- **Narrow verges**
- **Utilities below ground**
- **Overhead cables**





Tree pit designs

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11 of 31 trees planted in a RootSpace SuDS system



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Each SuDS tree pit provides 15 cubic metres of uncompacted soil volume



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**Soil within a GreenBlue
Rootspace System can store
water in approximately
22% of its total volume.**

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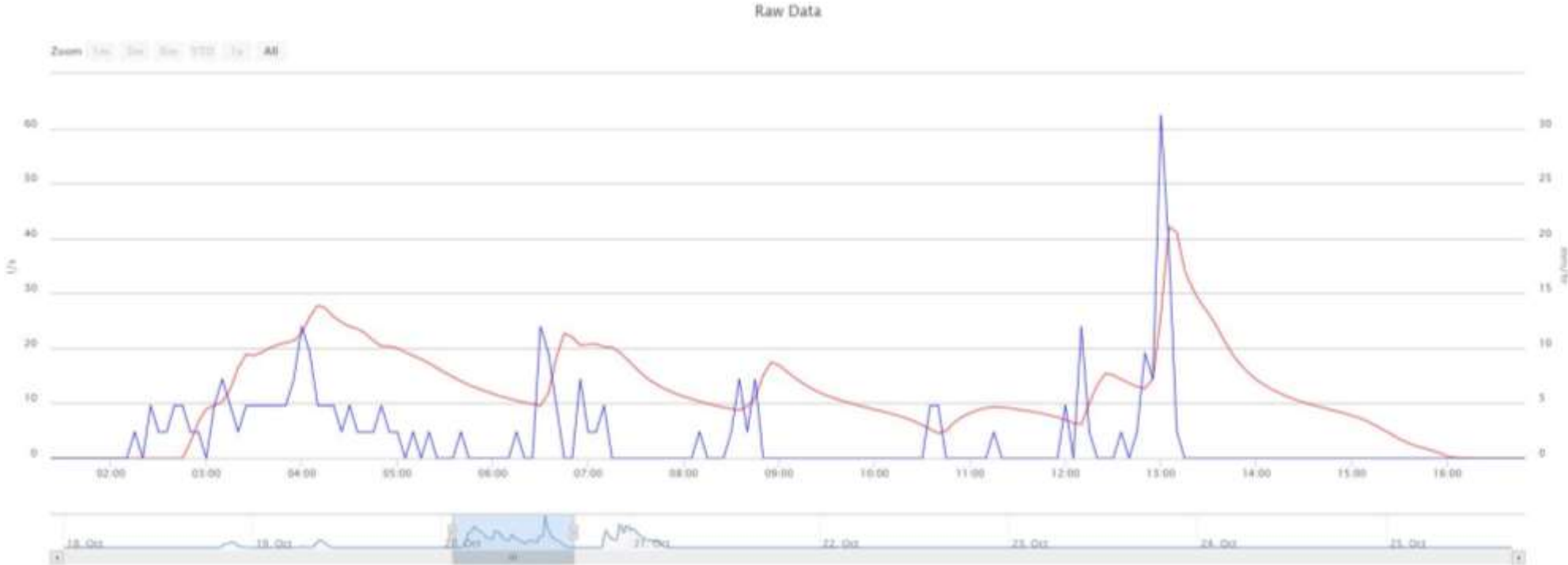


Monitoring stormwater outflow

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Slowing the Flow



■ Rainfall

■ Outflow

Keighley, North Street



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2019



2021



Tree Growth



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Evapotranspiration – trees

'breathe' water – a mature tree

can use up to 200 litres per

day, cleaning & cooling the air.



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Southend, Cool Towns

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Breda, Cool Towns, Joosten

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**Thank you for
listening**

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Interreg 
EUROPEAN UNION
2 Seas Mers Zeeën
European Regional Development Fund

GreenBlue [®]
URBAN