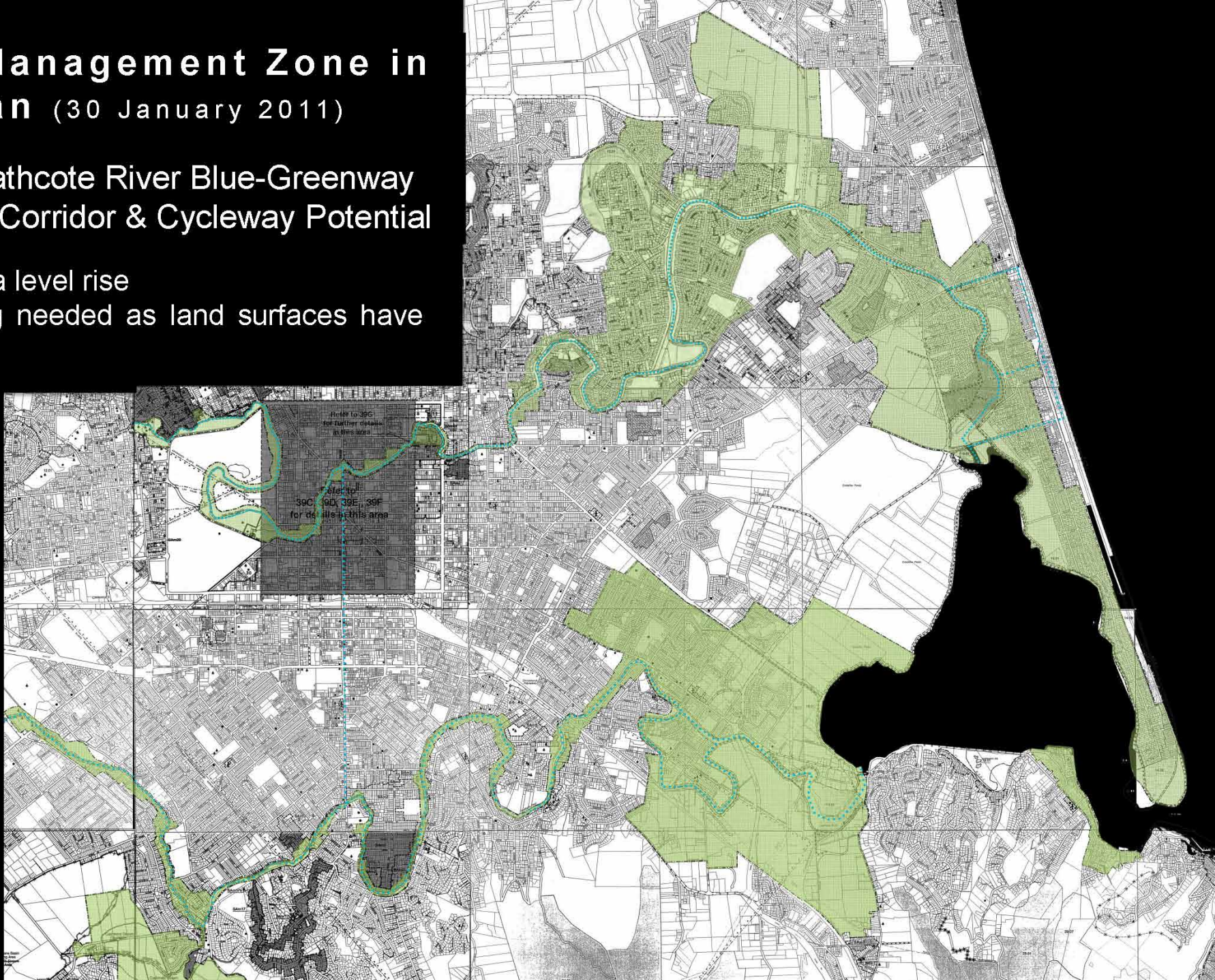


Flood Management Zone in City Plan (30 January 2011)

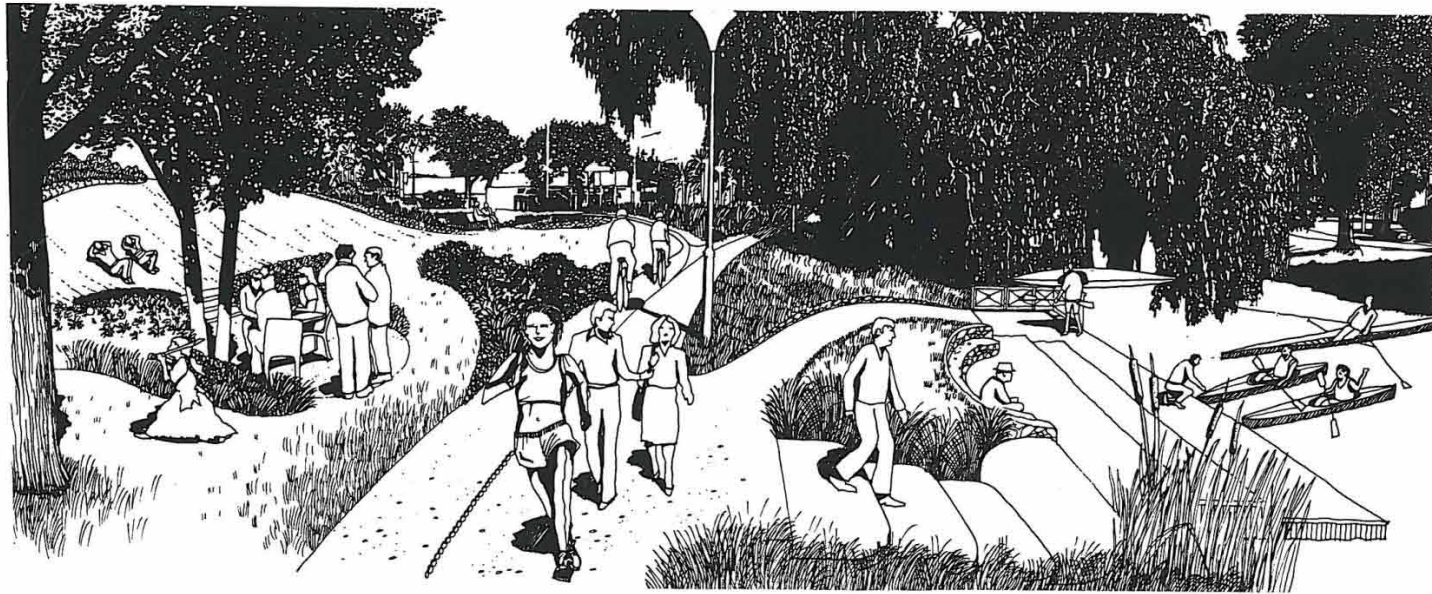
Avon & Heathcote River Blue-Greenway Pedestrian Corridor & Cycleway Potential

- Address sea level rise
- Re-mapping needed as land surfaces have dropped



AVONSIDE ~~DRIVE~~ PARK

from Fitzgerald Avenue to Linwood Avenue



Lucas Associates

Art work

Cycleway

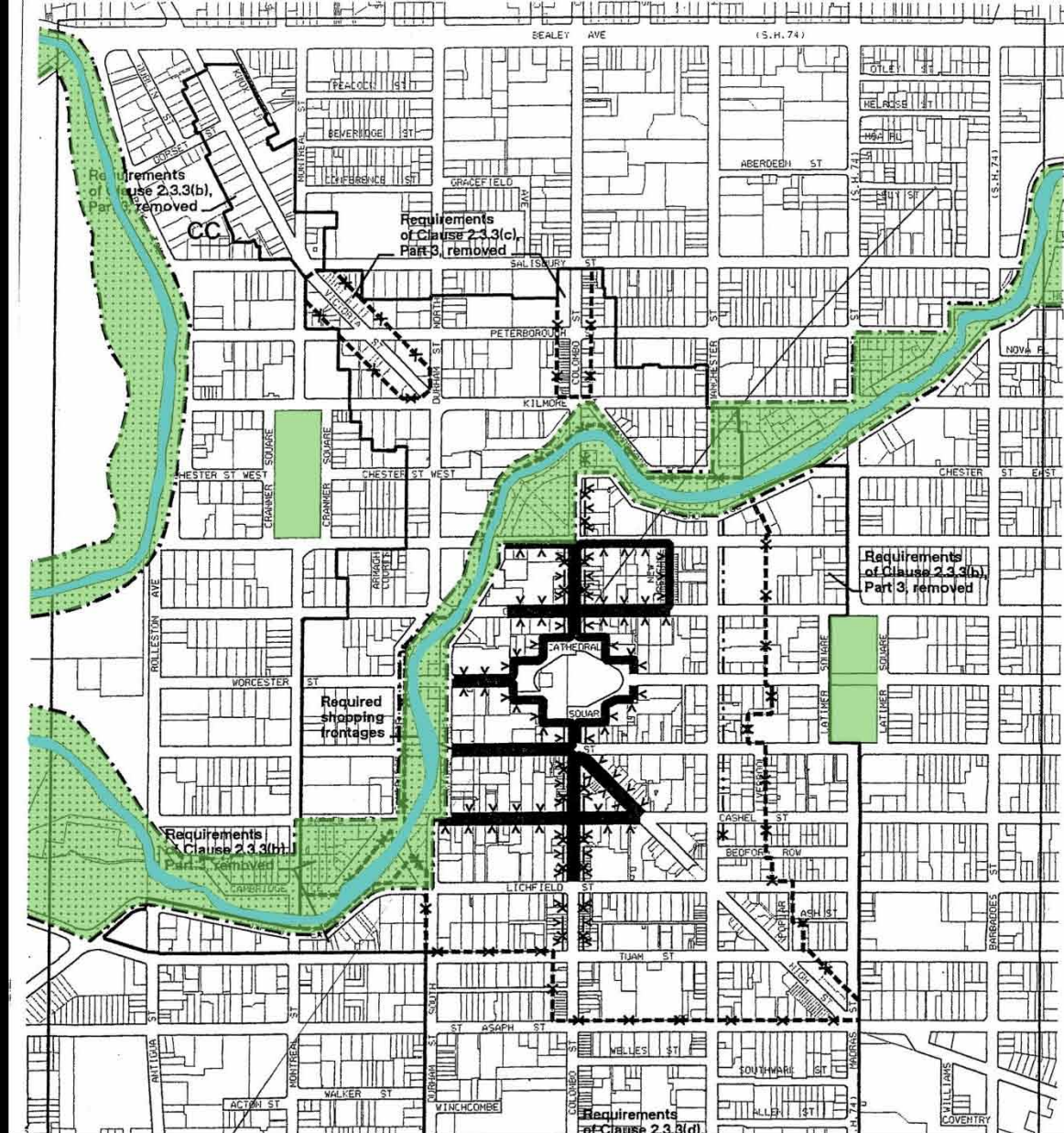
Art work

Promenade

Allotments



Avon River corridor



Flood Management Zone in City Plan
 January 30, 2011
 Avon River Blue-Greenway Pedestrian Corridor & Cycleway

Neighbourhood Centre



Sustainable design & comprehensive planning needs to be implemented



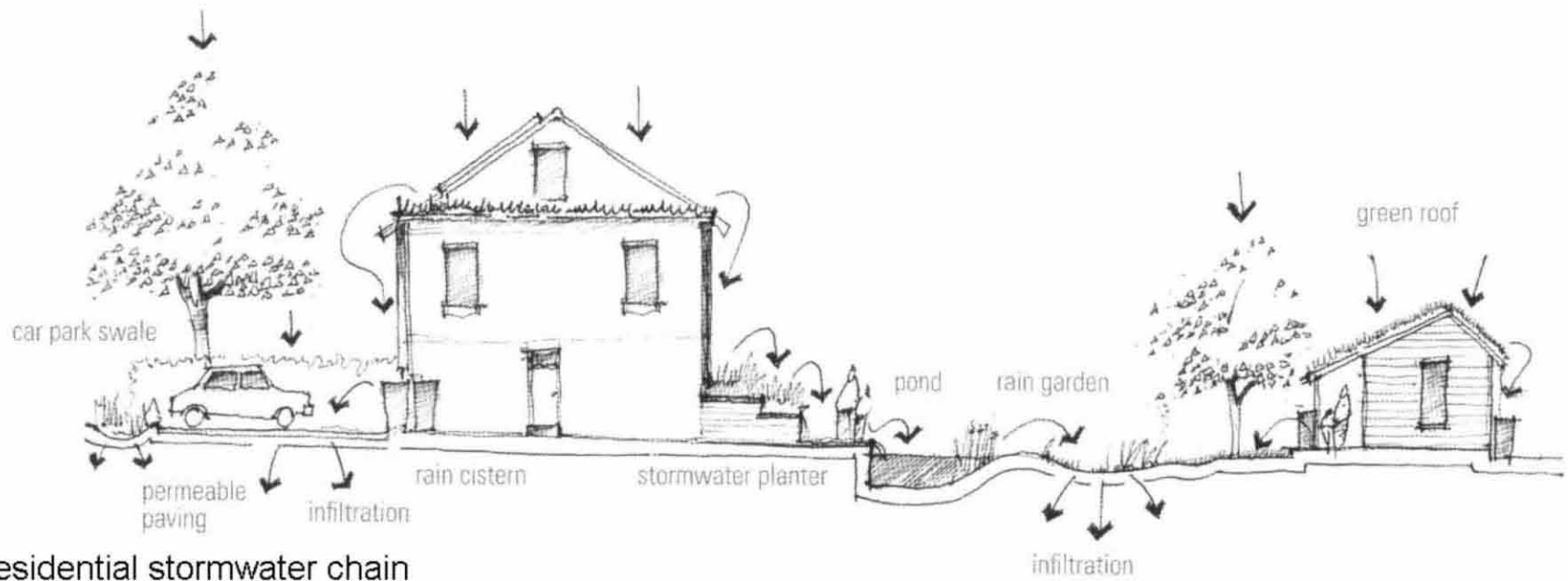
Green Building Model

'Marokapara' Green Roof (built 1998)

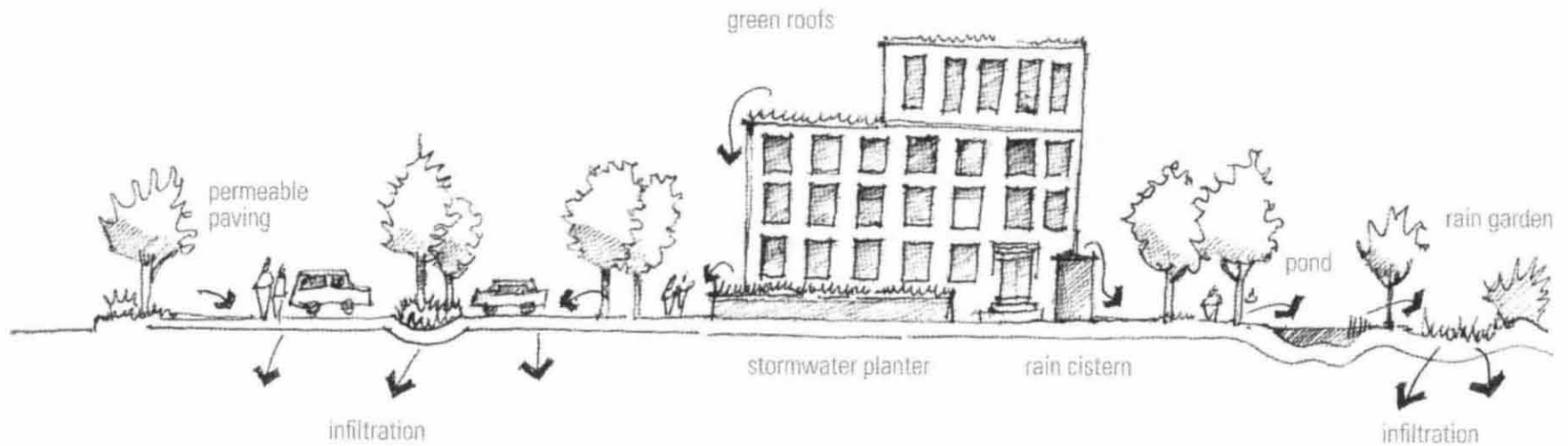
example of a 'green roof' in the city increasing local biodiversity while reducing water runoff



Wall greened with native climber



Residential stormwater chain

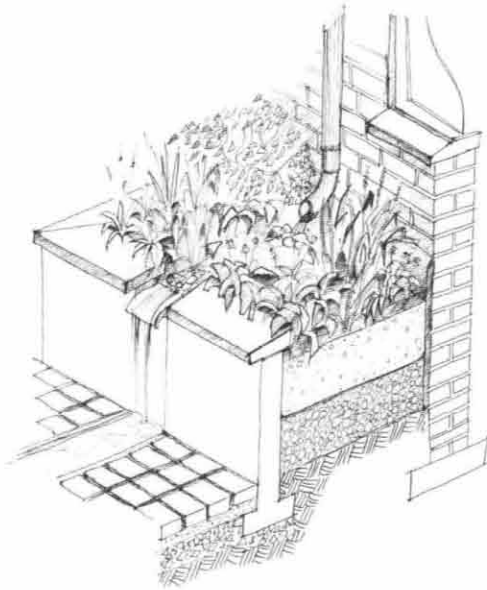


Commercial stormwater chain

Linked sequences of features can capture rainfall and release it back into the landscape.

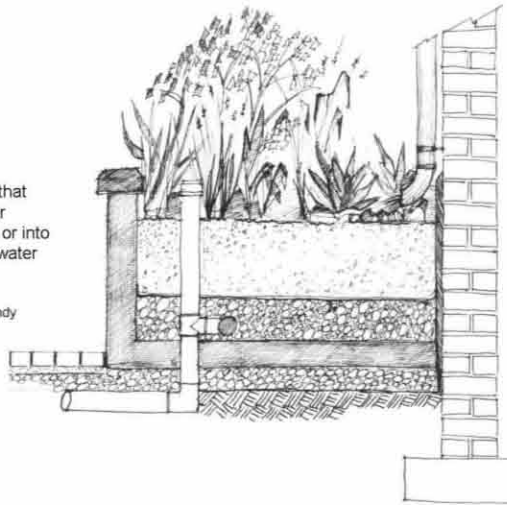
Adapted from Nigel Dunnett and Andy Clayden. 2007: Rain Gardens

Rain Gardens



Infiltration planter intercepts water from the roof before being gradually released into the groundwater. Excess water overflows the planter into the next stage in the link of stormwater features.

Adapted from Nigel Dunnelt and Andy Clayden, 2007: Rain Gardens



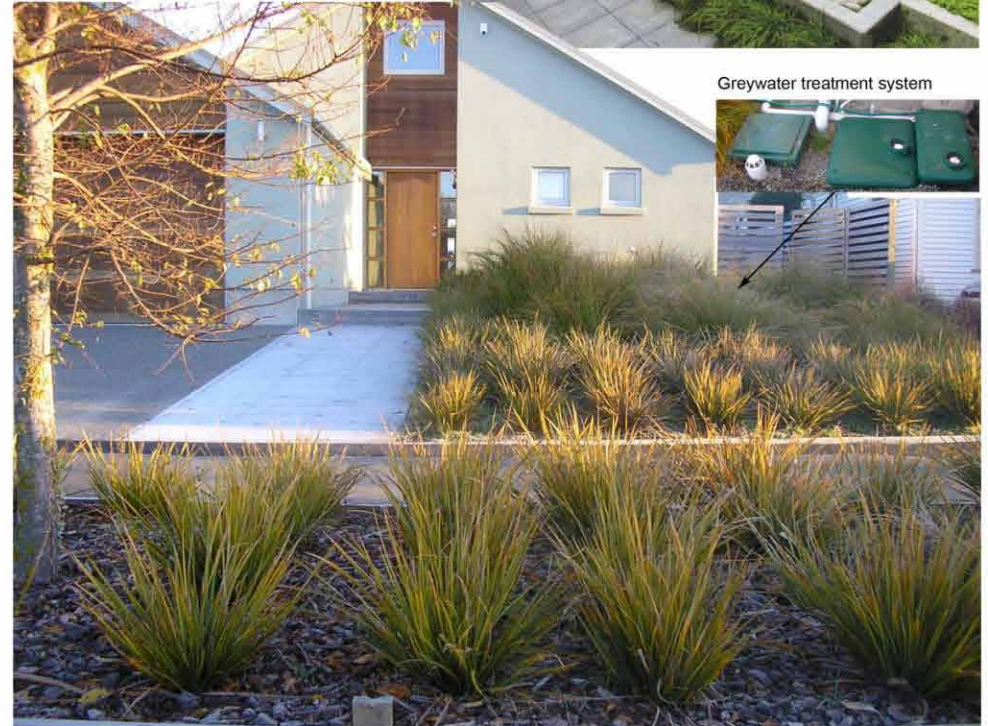
The flow-through planter creates a sealed container that gradually releases the water through evapotranspiration or into the next stage of the stormwater features.

Adapted from Nigel Dunnelt and Andy Clayden 2007: Rain Gardens

Source: Lucas Associates



Rain Art. Source Landscape Architecture 2006



Greywater treatment system

Dune garden, Lonsdale Street, New Brighton. Permeable boardwalk entrance. The greywater treatment system is tucked beside the house yet remains easily accessible. Lucas Associates Ltd,



Rain Art. Source Landscape Architecture 2006



hidden under deck

blended into outdoor space

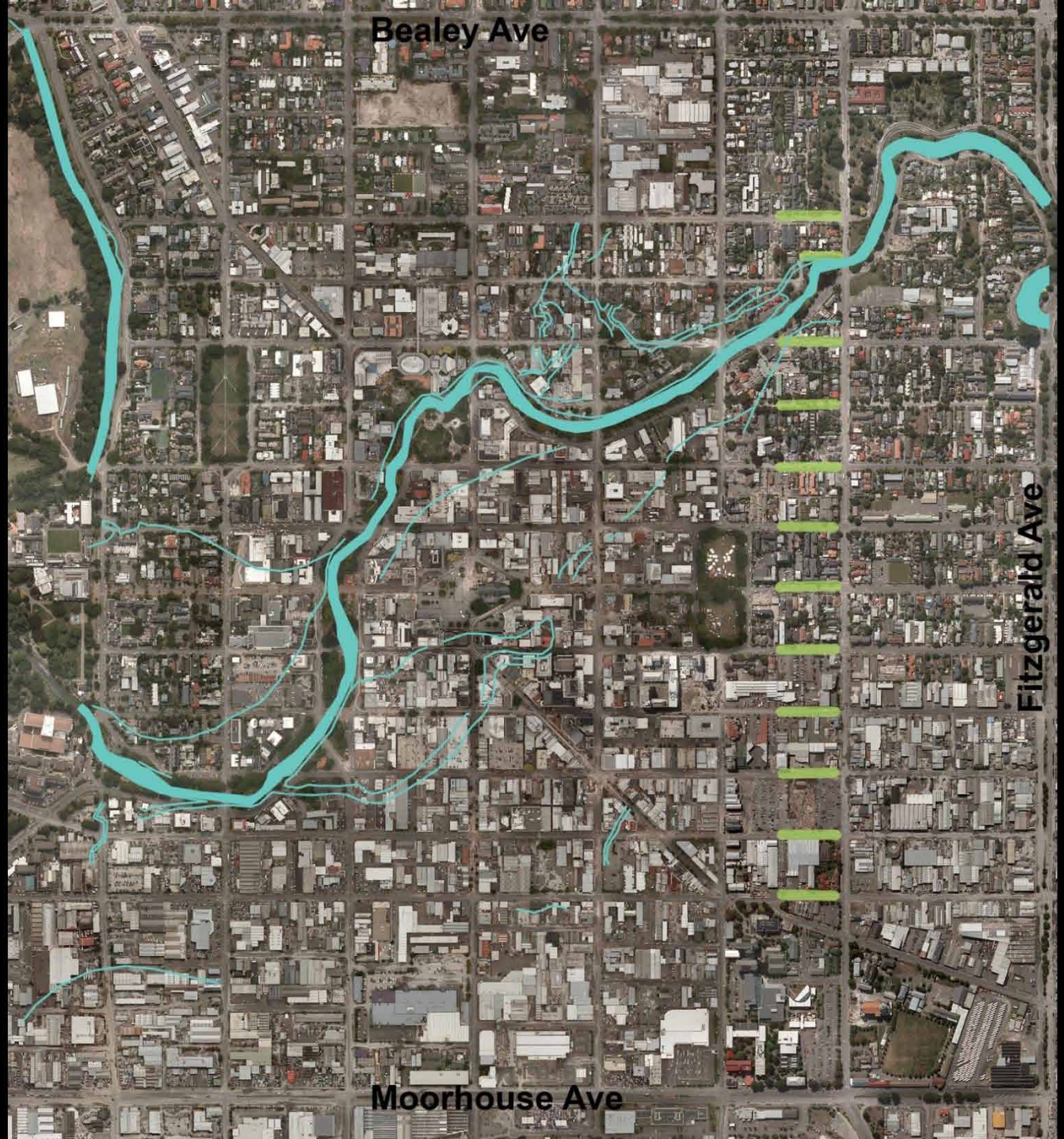


Rainwater collection tanks

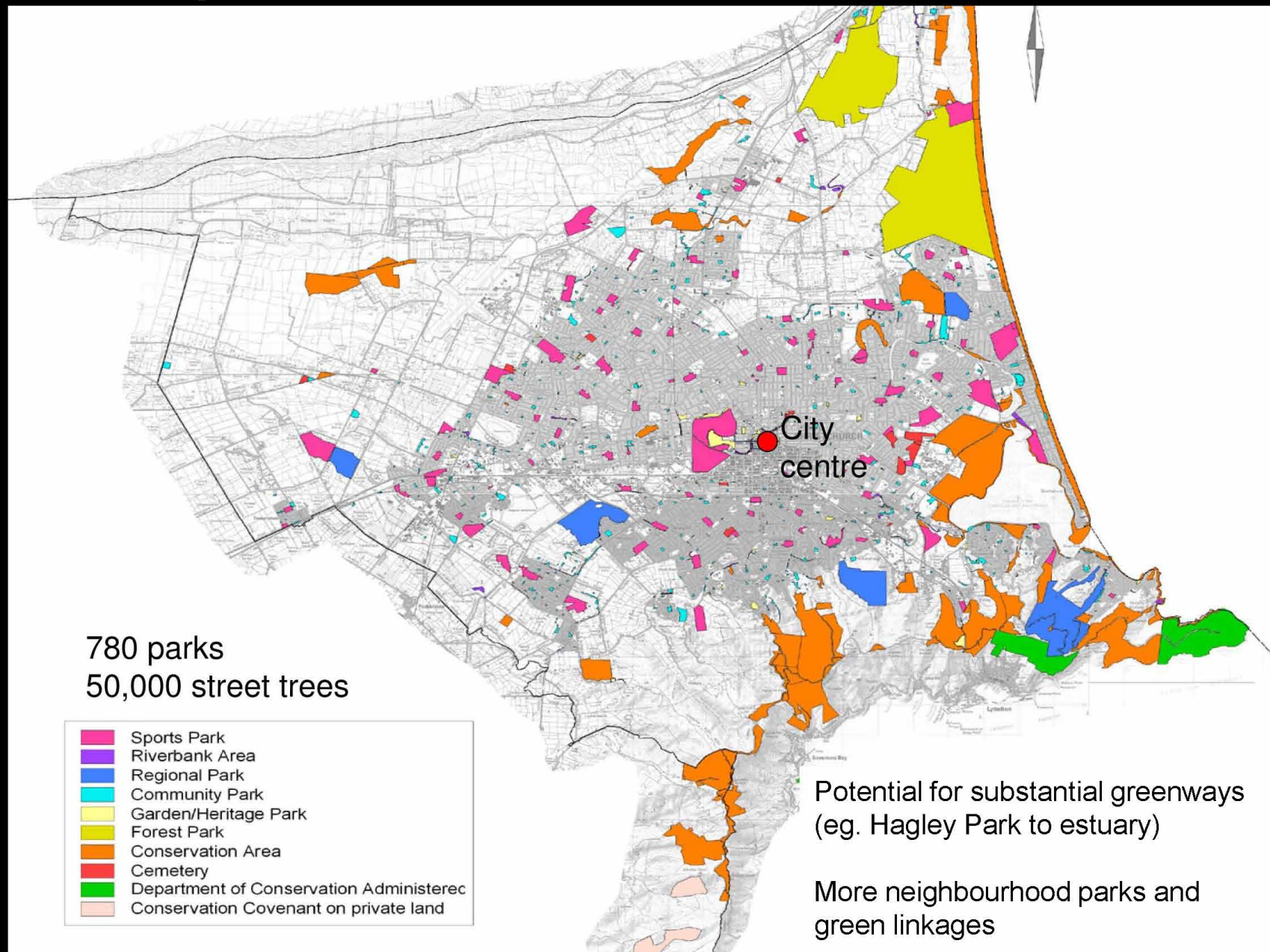
STUFF THE GRID!

The draughty east-west channels, that is, plant them up.

Bisect & intersect the grid to create friendly, green lane spaces.



Greenspace around Christchurch



Moa Reserve
Central Christchurch



Community Park & Reserve

Packe Street community Garden, Christchurch

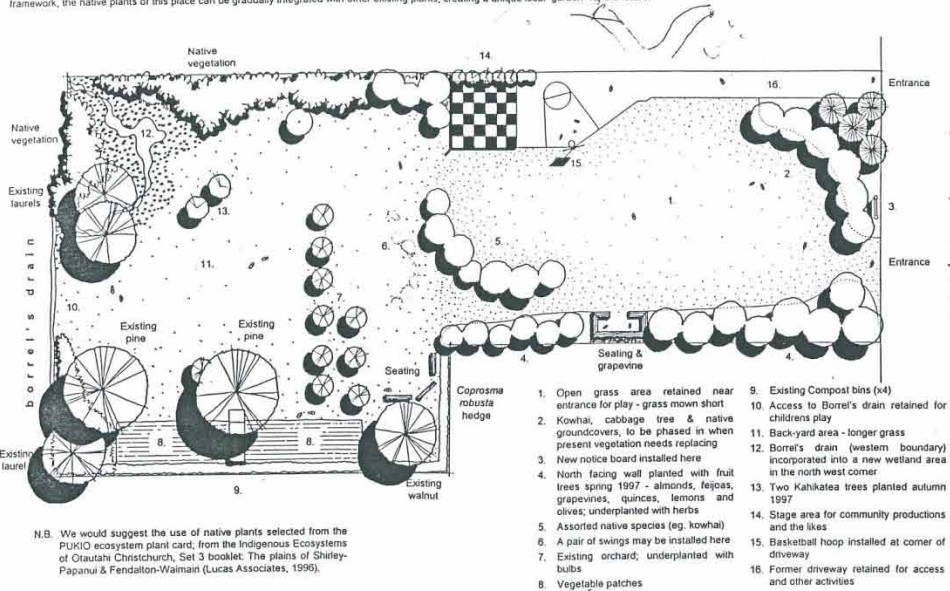
Neighbourhood Park

Wildness, informal play, flowers/food growing, performance, art & gatherings



long term vision

This concept plan is intended to provide a framework for the development of the community garden at 125-129 Packe Street. Within this framework, the native plants of this place can be gradually integrated with other existing plants, creating a unique local "garden" for the future.

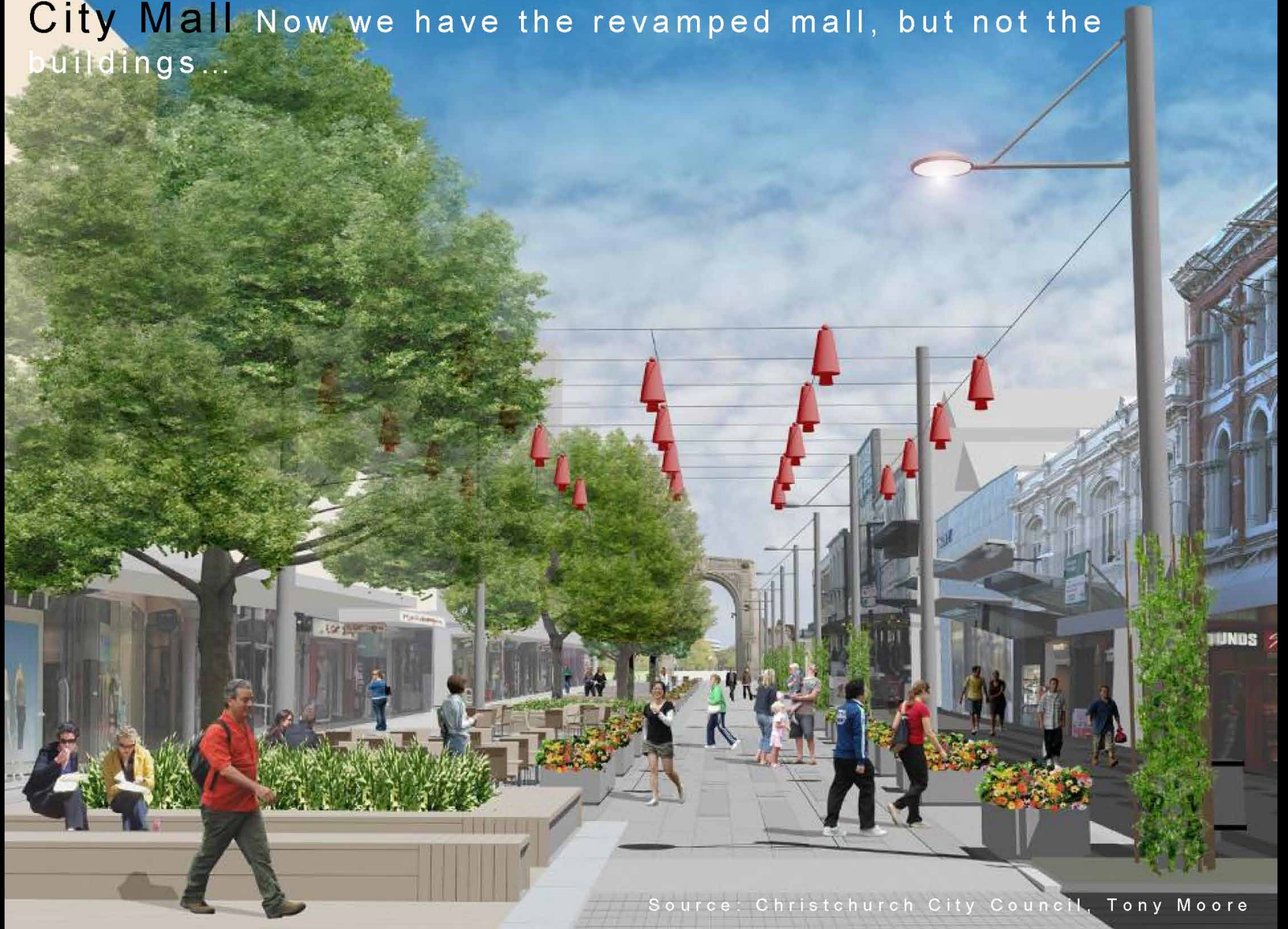


N.B. We would suggest the use of native plants selected from the PUKIO ecosystem plant card, from the Indigenous Ecosystems of Otautahi Christchurch, Set 3 booklet: The plains of Shirley-Papanui & Fendalton-Waimaiti (Lucas Associates, 1996).

packe street community garden
(125-129 packe street)



City Mall Now we have the revamped mall, but not the buildings...



Source: Christchurch City Council, Tony Moore

Transparent or translucent structure

Shops, cafes, markets & vegetation spaces under canopy



Retail & Entertainment Area

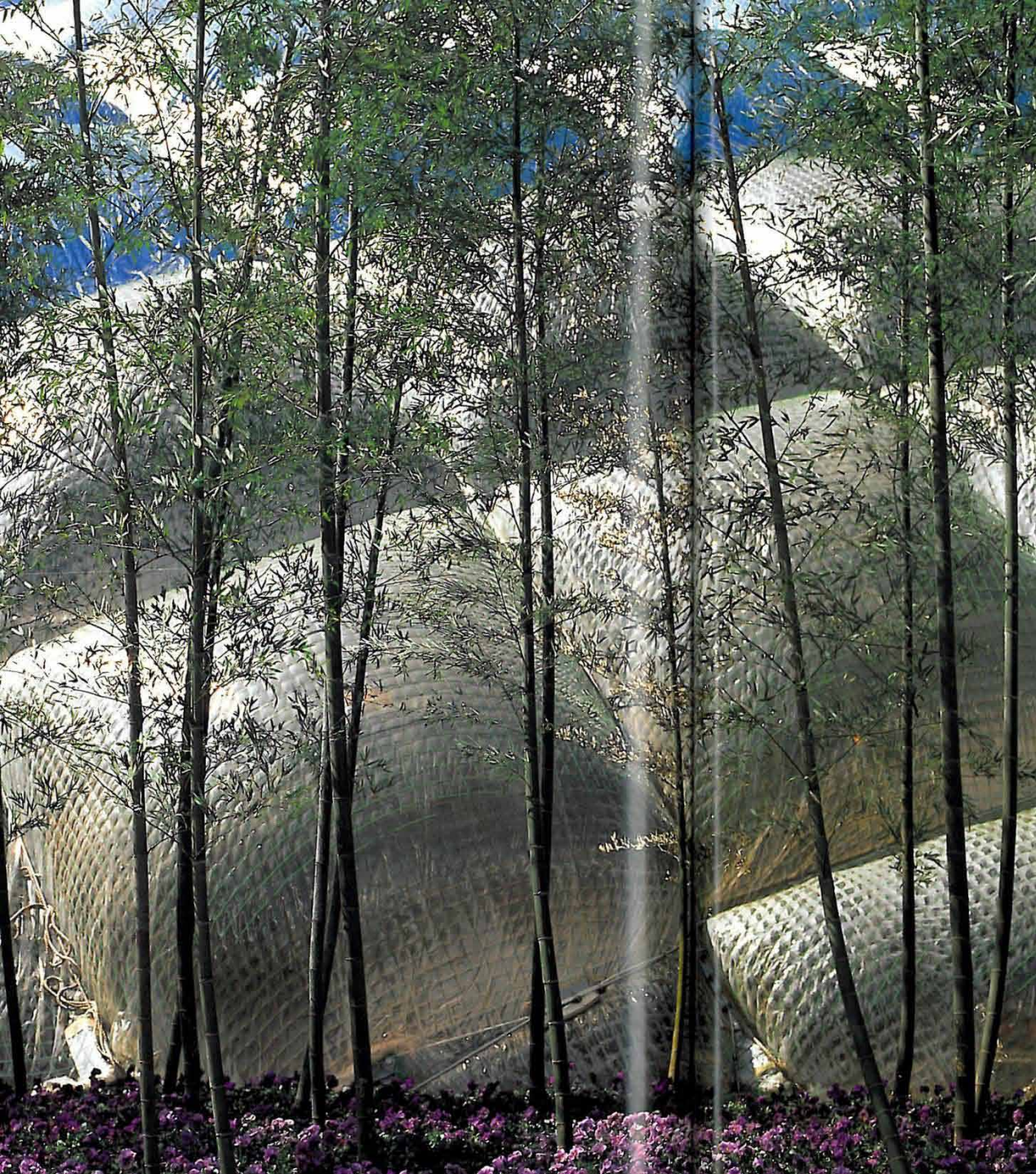
Easily accessed by pedestrians & cycles, create city centre attractions & canopy a block or two



A permanent canopy structure,
Waitomo



Source: Architecture NZ Magazine 2011



Temporary canopy structure, Japan

By: Nobuo Shurasuna

'the garden city is ripe for renewal'
-Di Lucas



Lucas Associates

www.lucas-associates.co.nz



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Architect