

Examples of Adaptation in the City of Cambridge's Urban Forest

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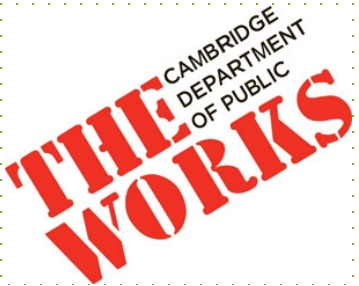
City Arborist/Tree Warden

City of Cambridge, MA

617-349-6433

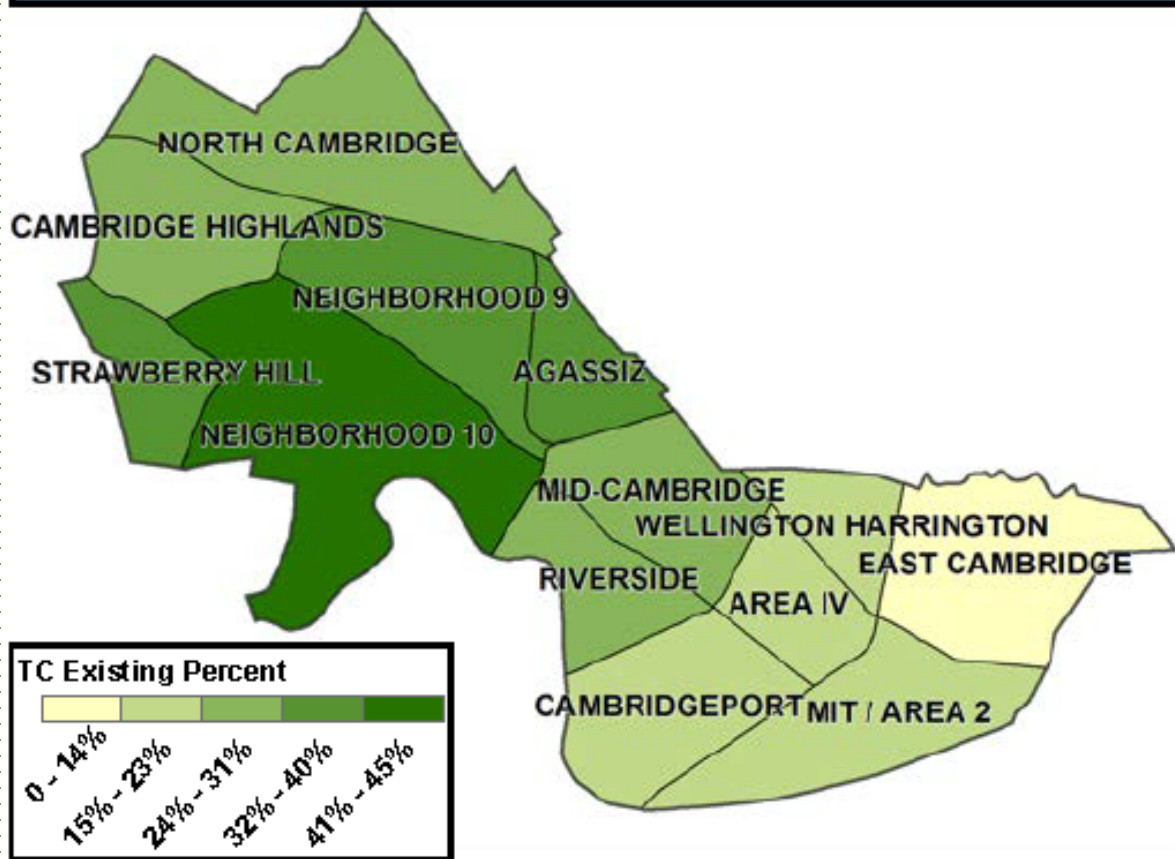
dlefcourt@cambridgema.gov

www.cambridgema.gov/tree

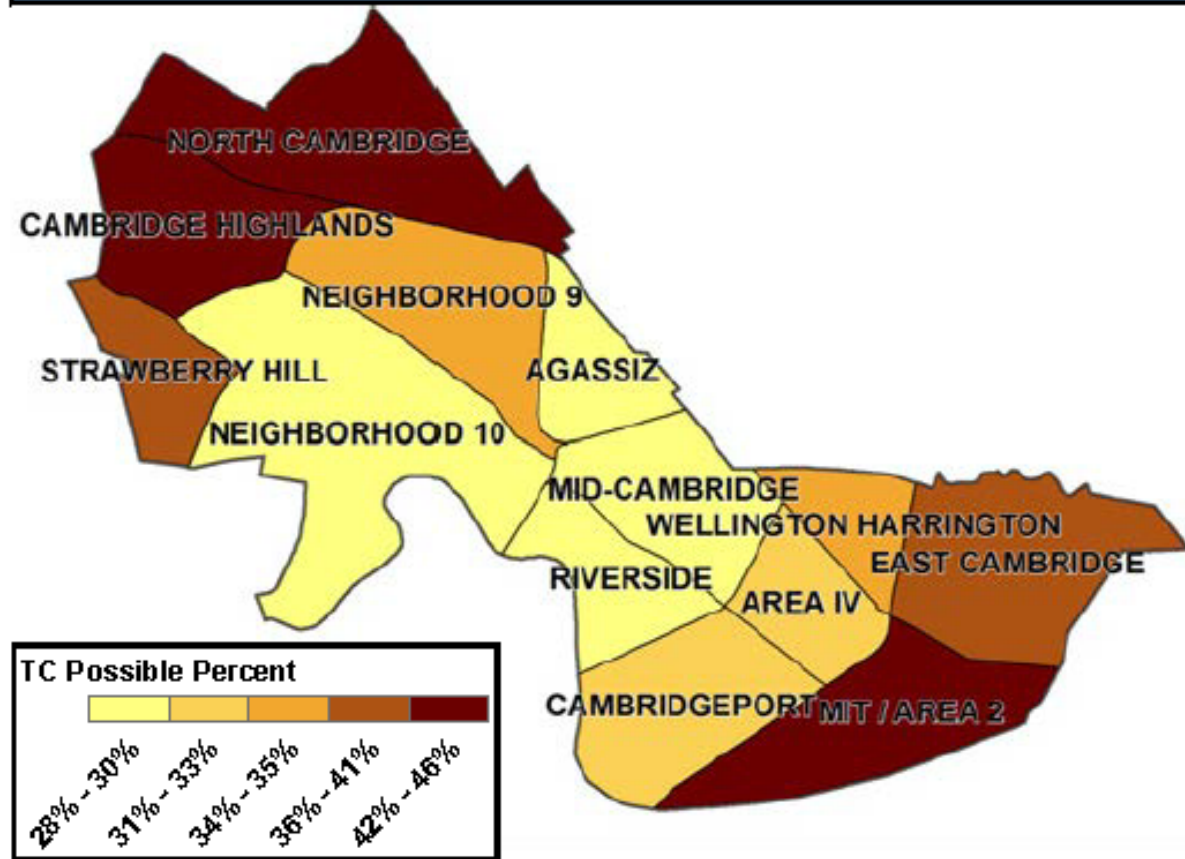


Tree Canopy Coverage in Cambridge

Existing Tree Canopy



Possible Tree Canopy



A 2012 study showed the city had 30% canopy coverage

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Additional Information

Funding for the project was provided by the City of Cambridge. More information on the TC assessment project can be found at the following website:
<http://nrs.fs.fed.us/urban/utcl/>



University of Vermont
Spatial Analysis Lab

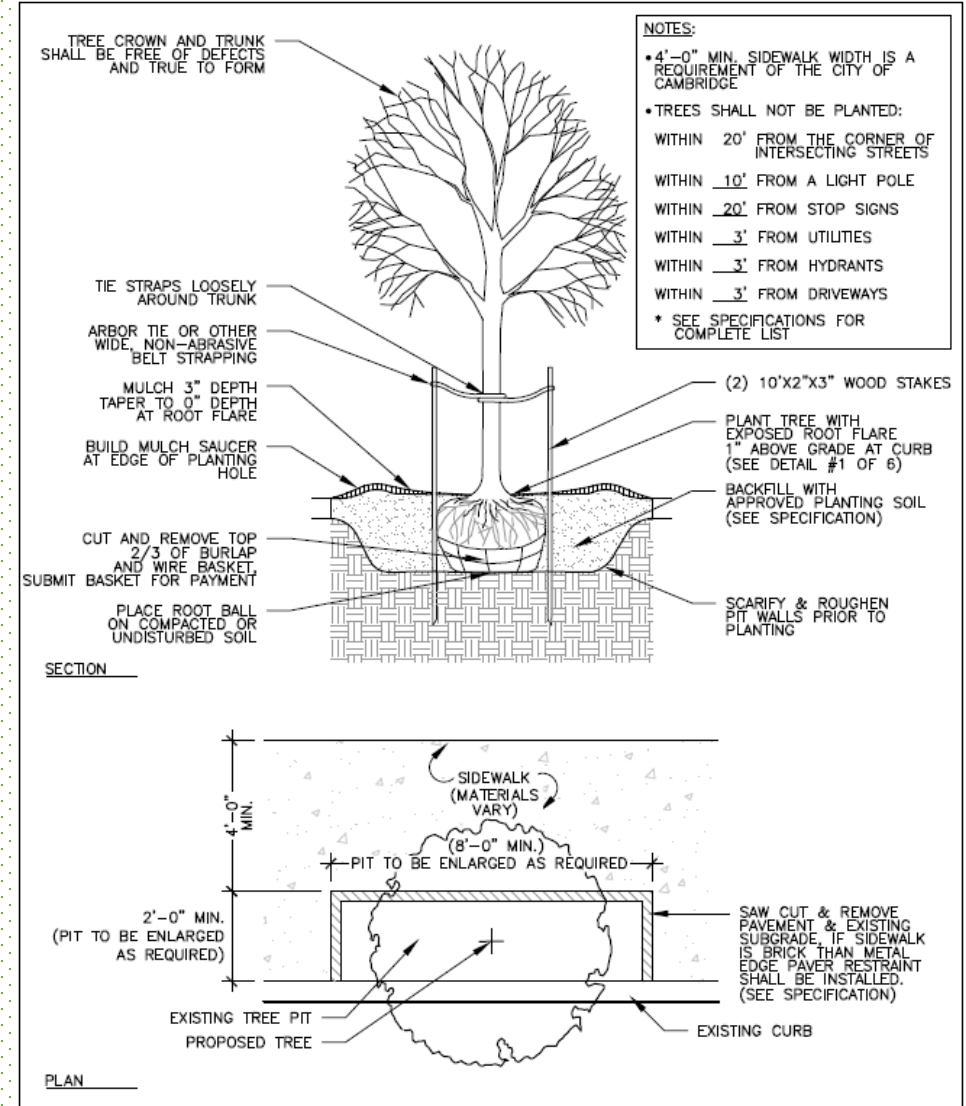
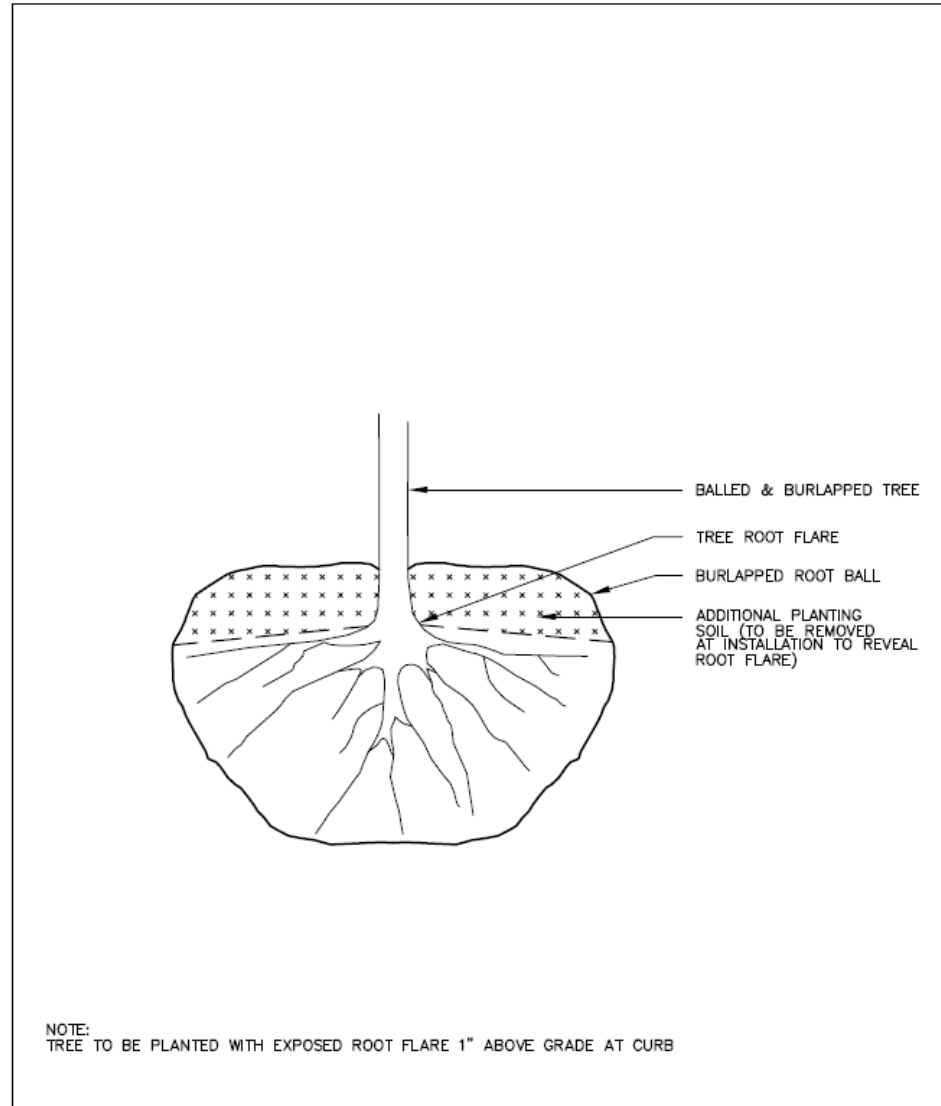
Spatial Analysis Lab Tree Canopy Assessment Team: Jarlath O'Neil-Dunne, Molly Brumberg, Brian East, Joseph Costello, Lauren Demko, Christopher Gossamer, Kay Gomer, Sean MacLellan, Michelle Marston, Jarlath O'Neil-Dunne, Scott Fogel, Andrew Fogel, Matt Fox, Anna Roper, Harry Sandby, Charles Seesholtz, Brad Stewart, D.J. Wexler, Adam Zyga, and Rebecca Zylka.

Species Diversity

Over 130
different
tree species
are installed
throughout
the city



Improved Tree Planting Specifications



	LOCATING THE ROOT FLARE			
	CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS			
	SCALE: NTS	DATE OF ISSUE: MARCH 2016	SPEC. SECTION REF# 02910	# 1 OF 6

	TREE PLANTING DETAIL (REPLACEMENT AT EXISTING TREE PIT)			
	CITY OF CAMBRIDGE STANDARD SPECIFICATIONS AND DETAILS			
	SCALE: NTS	DATE OF ISSUE: MARCH 2016	SPEC. SECTION REF# 02910	# 2 OF 6

New Street Tree Wells

City is installing structural soil behind many new tree wells to help increase soil volume and encourage roots to spread out



Construction Coordination: Flexi-Pave



Construction Coordination

Engineering Division is now creating expanded tree areas utilizing Sand Based Structural Soil (SBSS) and irrigation where possible

Larger soil volume should help trees develop larger calipers and live longer in harsher planting environments.



Construction Coordination: New Cycle Track with SBSS



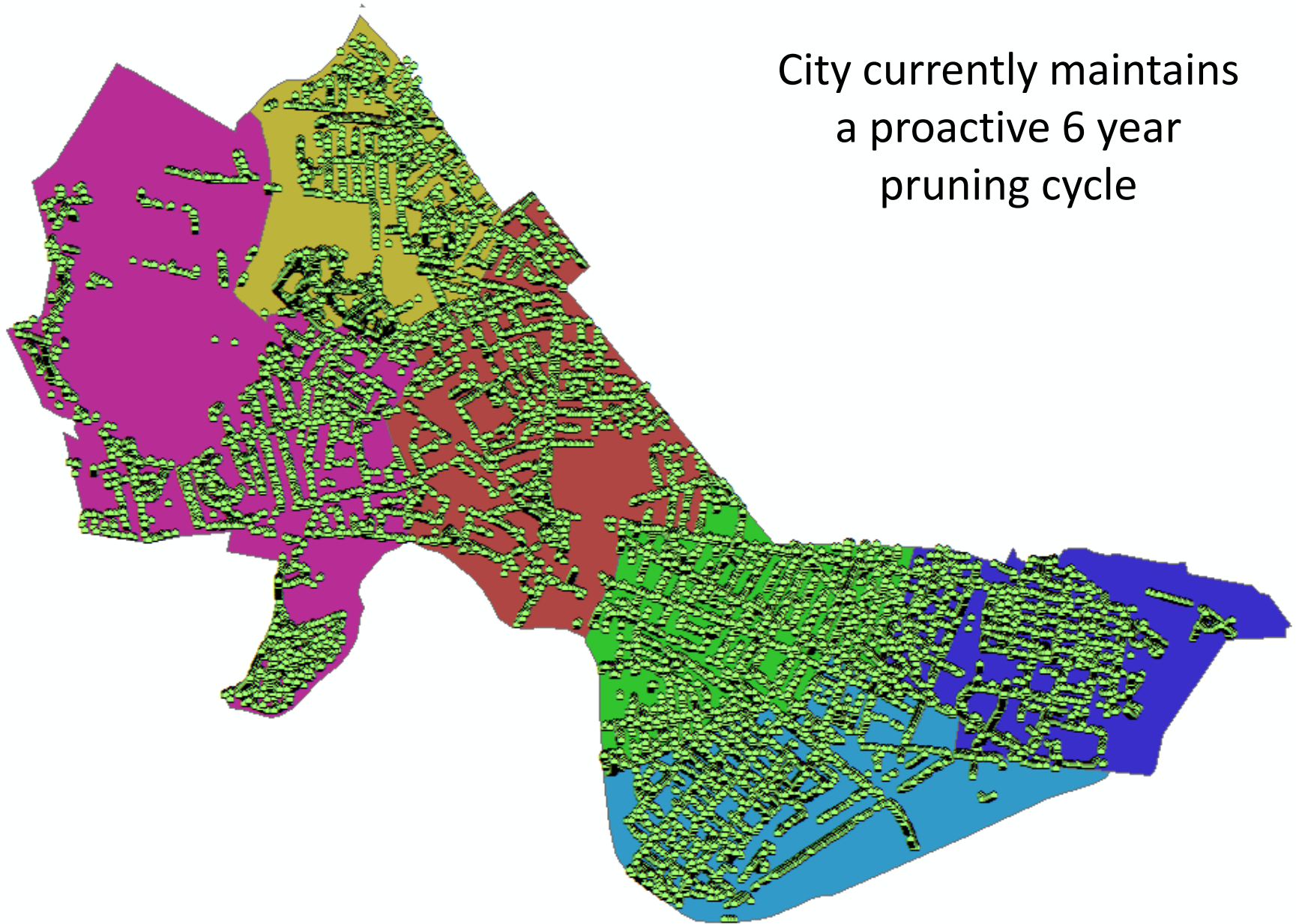
Tree Planting: Watering

- For the past 5 summers, the DPW has employed Water-By-Bike/Tree Ambassadors to help care for the young street trees throughout the City
- DPW sends out a daily watering crew during the growing season to help ensure trees establish quicker and thrive
- All new trees installed by the City have a 2 year warranty



Tree Pruning – 6 Zones

City currently maintains
a proactive 6 year
pruning cycle



Thank you