Bicycle Parking Zoning Ordinance





Cambridge City Council Ordinance Committee April 3, 2013



Community Development
Department
City of Cambridge

Why is Bicycling Important?



Environment

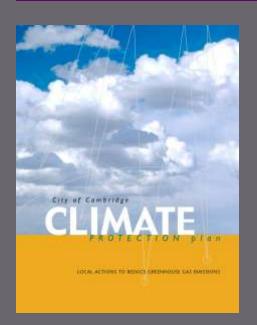


Public Health



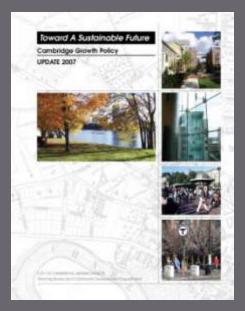
Economic Development

City Goals



Climate Protection Plan (2002)

Install more bicycle lanes and parking facilities; create and improve off-road paths including railroad rights-of-way; expand efforts to retrofit streets and intersections to better accommodate bicycles and pedestrians.



Growth Policy (1993 + 2007)

The two major facilities needed for the bicycle are a system of protected rights-of-way and secure storage spaces ...

Commercial districts, public buildings, most MBTA stations, and most employers in Cambridge offer very little in the way of bicycle parking facilities.

Updating the zoning requirements

Current bicycle parking requirements date to 1981

What needs to be updated?

Quantity

Support City's goal of 10% of all trips made by bicycle

Design

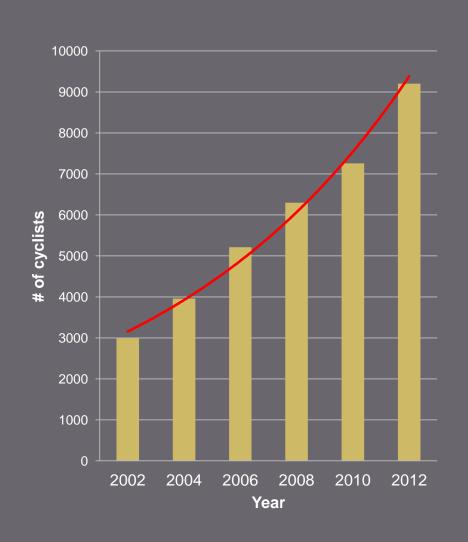
Apply best standards used in cities across the country

Consistency

Ensure that all new projects have clear requirements for providing bicycle parking

Dramatic increase in bicycling

Cambridge Bicycle Counts 2002-2012

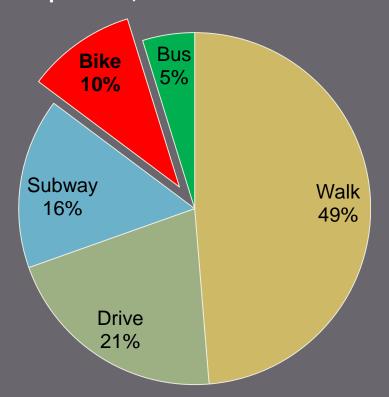


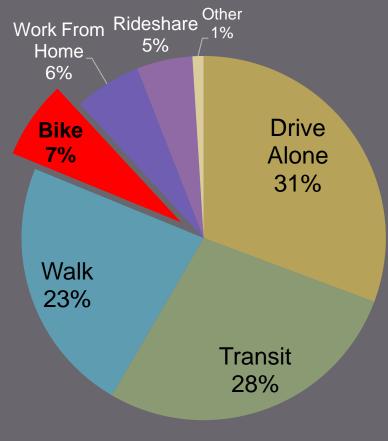
Bicycling has tripled in the past 10 years in Cambridge.

Numbers represent combined AM and PM peak hour cyclist counts at 16 locations on a fall weekday under similar weather conditions.

How many people bike

Porter Square Customer Intercept Survey September, 2012 - Mode of Travel



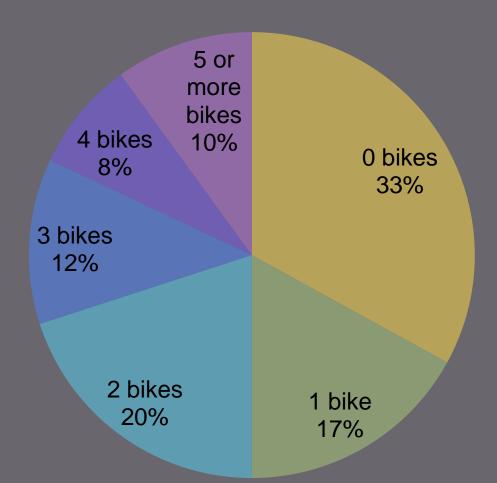


Cambridge Residents Journey-to-Work American Community Survey 2006-2010

City Goal:

- 10% (or more) of all trips made by bicycle
- 20% for colleges and universities

Bicycle Ownership in Cambridge



About 67% of households own bikes

About 75% of households owning bikes own two or more bikes

Average is already more than one bicycle owned per household (and increasing)

Data source: Cambridge CitySmart transportation surveys, 2009-2011

More cyclists = higher demand for bike parking



What happens when there is not enough bike parking



Bikes parked to anything – and everything!





Bike theft is made easier

Why is Design Important?

When bicycle parking isn't done right ...



... not as many bikes can be parked ...

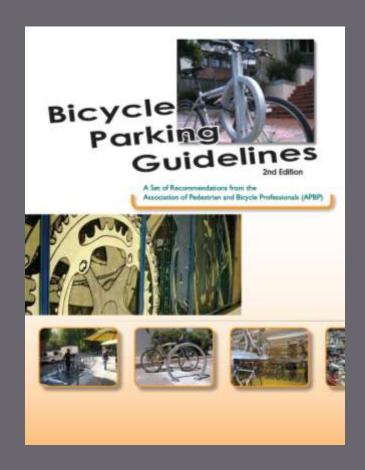


... storage/removal becomes awkward ...



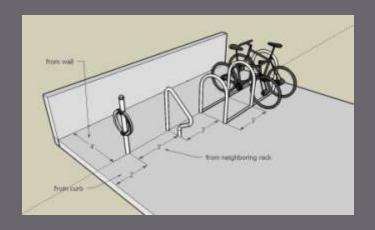
... and bikes end up where they don't belong

Design, Layout and Location Requirements



Association of Pedestrian and Bicycle Professionals (APBP):

Officials from around the country with experience in bicycle facilities planning (including Cambridge!)



- Convenient storage/extraction
- Protection from damage/theft
- Accessible to all users
- Wide range of bicycle types
- Facility installation & maintenance

Short-term and long-term bicycle parking



Short-term
Direct access for trips of short
duration/visitors
e.g. post office, coffee shop

Long-term
Enclosed, secure parking
e.g., residential, office



Bike Parking for all users and all bikes



- I. Create a New Section 6.100 Bicycle Parking
- II. Modify the Definition of Parking and Create a Definition for Bicycle Parking in Article 2.000
- III. Modify the Definition of Gross Floor Area in Article 2.000
- IV. Modify the Definition of Private Open Space in Article 2.000
- V. Modify the Yard Standards in Article 5.000
- VI. Modifications to Ensure Consistency between Existing and Proposed Zoning

6.101 – Purpose

In order to support the ongoing viability of bicycle travel as a transportation option that mitigates the impacts of automobile use, the following regulations are provided to ensure that secure, conveniently accessible bicycle parking is provided in adequate quantity to serve new development and land uses throughout the city.

6.102 - General Terms and Standards



Long-Term

- secure
- enclosed
- for authorized users (employees, residents)



Short-Term

- available to the public
- convenient to entrances
- for everyone (customers, visitors)

6.103 – Applicability

Bicycle parking is required under same circumstances as auto parking, *except not on lots with* ≤ 2 *units*

- New construction
- Increase of 15% or more in intensity of use

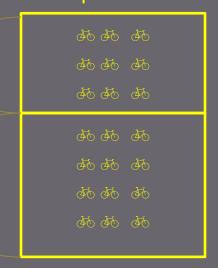
Parking Requirements



Increase in intensity ≥15%
Existing use

intensity

Bicycle Parking Requirements



6.104 – Location

Long-Term



Within same building, or ...



Separate structure within 200' walking distance

Short-Term

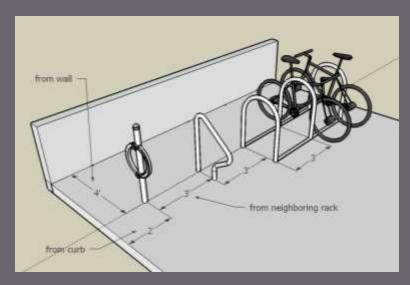


Within 50' of entrance, or ...



Contribute to public bicycle parking fund

6.105 – Design and Layout



Bicycle Racks



Bicycle Lockers

6.106 – Access

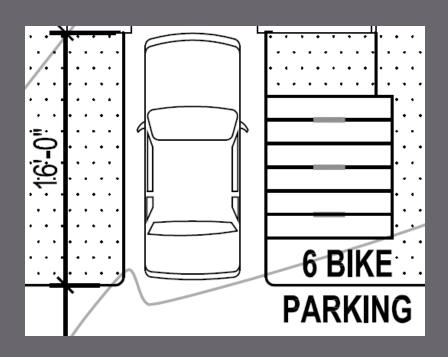
Primary access:

- 5' aisle width
- 5% ramp (or 8% with landings)
- Elevator @ 80" by 54"

Secondary access:

- Garage ramps
- Stairway channels

NO OBSTRUCTIONS



What's wrong with this?

6.107 – Quantity

| Use Type | Long-Term (Minimum) | Short-Term (Minimum) |
|-------------------------------------|--|--|
| Residential | | |
| Family Dwellings (at least 4 units) | 1.00 space per dwelling unit for first 20 units 1.05 spaces per dwelling unit for additional units | 0.10 space per dwelling unit |
| Elderly or Group Housing | 0.50 per living unit/bed | 0.05 space per living unit/bed |
| Hotel/Motel | 0.02 per sleeping room | 0.05 space per sleeping room |
| Non-Residential | | |
| Commercial Uses | Range: 0.10 – 0.30 space per 1,000 SF (based on approx. 10% of expected employees) | Range: 0.06 – 1.00 space per 1,000 SF (based on approx. 10% of expected visitors) |
| College/University | 0.20 space per 1,000 SF | 0.40 space per 1,000 SF academic/administrative 1.00 space per 1,000 SF student activities |
| K-12 School | 0.30 space per classroom or 0.015 space per auditorium seat (greater of) | 1.70 spaces per classroom or 0.085 space per auditorium seat (greater of) |

Note: Can shift some required long-term spaces to short-term (e.g., for small businesses)

6.108 – Modifications by Special Permit

Why allow modifications?

New technologies/ideas



Testing, monitoring may be needed

Area-wide master planning



Pooled bicycle parking strategies may be better in campus areas

Modify Definitions in Article 2.000

Current Zoning Definitions



Proposed Zoning
Definitions



あめめめめ BICYCLE PARKING めめめめ

Gross Floor Area (Article 2.000)

Private Open Space (Article 2.000)

Yards (Article 5.000)



Resolve impediments:

- Covered/indoor bicycle parking – exempt from FAR (including access aisles)
- Allow bicycle parking to occupy required private open space
- Allow bicycle parking in front, side, rear yards

Other Article 6.000 Modifications

- Remove/modify language that is inconsistent with new Section 6.100
- Revise plan submission requirements

Where's the bike parking?

Does it conform?



Questionsand **Discussion**