ZONING FOR DEVELE PARKING

NYC Dept of City Planning Transportation Division November 17, 2008



Background – Federal Legislation and Bicycle Planning in New York City

1991 Intermodal Surface Transportation Efficiency Act (ISTEA) Congestion Mitigation Air Quality (CMAQ)



- Improve Air Quality
- Reduce Energy Costs
- Reduce Congestion
- Lower Transportation Costs
- 350 Mile Network of Greenways (1993)
- Comprehensive 909 Mile Bicycle Network (1997)
- Implement Network of Bicycle Facilities
- Improve Safety
- Provide Bicycle Parking and Support Facilities
- Improve Bicycle Access on Bridges and Mass Transit
- Institutionalize



Background – Bicycle Planning in New York City



This project is part of a multi-pronged, multiagency effort to support bicycle use in the city:

Bicycling in PlaNYC

- 1. The bicycle network
 - a) Full build-out Bicycle Master Plan
 - b) 200 New Miles of Bike Lanes by 2009
- 2. Parking
- 3. Promotion
- 4. Education and Enforcement
- 5. Mainstreaming

Bicycling in DOT Strategic Plan

- 1. Double Commuting by 2015
- 2. Triple Commuting by 2020
- 3. Install 5,000 Outdoor Bike Racks by 2009
- 4. Bike Rack Design Competition

Background – City Planning Reports



DCP research shows a need for secure bicycle parking facilities at home and at work:

- New Yorkers use bicycles for recreation, exercise, shopping and commuting
- Bicycle ownership generally requires secure indoor home storage
- Cyclists considering commuting place a high priority on indoor bike parking
- Top 2 Reasons non-commuting cyclists do not commute by bike:
 - 1) driver behavior/traffic
 - 2) lack of safe storage at work

Background - Trends



Current Annual count: More than doubled (116%) from 2000 – 2008; 35% increase from 2007 to 2008.

Background – Types of Bicycle Parking

Class 1 Bicycle Parking

- Secure
- Covered and usually indoors
- Weather protected
- Long-term (more than a few hours)
- For residents, employees, students

Class 2 Bicycle Parking

- Less Secure than Class 1
- Usually outdoors, open
- Best suited to short-term use
- For shoppers, customers, messengers, visitors



Background – Types of Bicycle Parking

Types of Bicycle Parking

Class 1: Indoor, secure, longer-term parking

Class 2: Outdoor, less secure, short-term parking

This project focuses on secure, longer-term bicycle parking.

short-term parking

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storage

commuting

seneral purpose

work

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CLASS 1 BIKE PARKING

* existing NYCDOT CityRacks program

* existing commercial parking lot regulations

CLASS 2 BIKE PARKING

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Bicycle Parking Text Amendment – Goals

In new or significantly enlarged buildings, and conversions to residential uses, require facilities for secure parking and long-term storage of bicycles:

Multifamily Residential: provide parking where bicycles are stored most of the time.

Commercial and community facilities: provide parking for employees to support bicycle commutation.

Public parking garages: support bicycles as a transportation mode.

Balance bicycle parking with the needs of new development:

- allow a range of parking solutions and flexibility in meeting requirements
- do not count required facilities toward floor area
- allow waiver of requirements for small buildings and other unusual conditions



Bicycle Parking Text Amendment – Parking Systems

A variety of technologies exist from simple to space-saving:



Bicycle Parking Text Amendment – Size of Spaces

Bicycle parking can be accommodated in 15 square feet per space or less:



Small Bike Room - 10 bikes





Medium Bike Room - 20 bikes





total area: 270 sq ft space per bike: 13.5 sq ft

total area: 180 sq ft space per bike: 9 sq ft

Large Bike Room – 40 bikes



total area: 540 sq ft space per bike: 13.5 sq ft



Bicycle Parking Text Amendment – Flexibility in Location

There are many ways that new buildings can be configured to provide accessible bicycle parking and storage:

Residential buildings

- in cellar
- on ground floor
- in rear yard
- in parking garage
- along wall niche in common area

Commercial and other buildings

- in cellar
- on loading dock
- in parking garage
- on ground floor

Access

- through service entrance
- through lobby
- through parking garage
- through courtyards
- through loading dock



Proposal – General Requirements

• 15 square feet per bicycle parking space

- Space can be reduced to 6 square feet with efficient parking systems
- Requirements apply to new buildings, enlargements of 50% or more, conversions to residential use
- Parking must be enclosed, secure, and accessible to designated user
- Bicycle parking does not count as floor area (up to maximum amount requirement)
- Allow enclosed bicycle parking as permitted obstruction in rear yards



Proposal – Residential

Purpose:

Provide for secure, long-term parking where bicycles are stored most of the time.

Requirement:

• 1 space per 2 dwelling units

Example:

- 16-unit building in R6 district
- 8 bicycle spaces required (48 120 square feet)



Proposal – Residential waiver

Waiver:

- waive requirement for buildings with 10 or fewer units
- calculate requirement by individual building segment (e.g., rowhouse) rather than zoning lot

Example:

- Rowhouses on a single zoning lot (21 units in a R7 district)
- Requirement waived (each building is less than 10 units)



Proposal – Commercial Office

Purpose:

Provide bicycle parking for employees to support bicycle commutation.

Requirement:

- 1 space per 7,500 square feet of floor area
- Provides parking for approximately 3% of workers

Example:

- 1.7 million square feet commercial office tower in C6-6 district
- 227 bicycle spaces required (1,362 3,405 square feet)



GROUND FLOOR





Proposal – Commercial Office waiver

Waiver:

- Waive up to 3 bicycle parking spaces \sim less than 26,250 square feet of floor area used for office

Example:

- Small commercial office building
- Requirement of 3 spaces is waived (building is approximately 22,500 square feet)
- 3 bicycle spaces permitted (18 45 square feet)
- 2 short-term, outdoor bicycle spaces required under existing commercial parking lot regulations



GROUND FLOOR

Proposal – Retail and most commercial uses

Purpose:

Provide bicycle parking for employees to support bicvcle commutation.

Requirement:

- 1 space per 10,000 square feet of floor area
- Provides parking for approximately 3% of workers
- For certain commercial uses with lower employment densities, such as large entertainment facilities, 1 space per 20,000 square feet of floor area; up to 3 spaces may be waived

Example:

- 73,500 square feet of commercial retail in C4-4 district
- 7 bicycle spaces required (42 105 square feet)









Proposal – Retail and most commercial uses waiver

Waiver:

 \bullet Waive up to 3 bicycle parking spaces \sim less than 35,000 square feet of commercial floor area

Example:

- Mixed-use building in C6-3A district with 3,000 square feet of commercial retail
- Bicycle parking requirement waived for retail



GROUND FLOOR

Proposal – Public Parking Garages

Purpose:

Support bicycling as a transportation mode.

Requirement:

• 1 space per 10 vehicle spaces

Example:

• Mixed-use building in C6-4 district with 4,500 square feet of retail space and 365 residential units

- 108 vehicle parking spaces
- 11 bicycle spaces required (66 165 square feet)

Waiver:

• Waive up to 3 spaces ~ garages with less than 35 vehicle spaces





🥢 maximum bike area required 🛛 🗕 🏓 access



Proposal – Community Facilities

Purpose:

Provide parking for employees to support bicycle commutation.

Requirement:

• For most community facilities 1 space per 10,000 square feet. Up to 3 spaces may be waived (less than 35,000 square feet of floor area).

• Universities and Colleges \sim 1 space per 5,000 square feet of floor area. Up to half of the required spaces may be outdoors. Requirements of up to 3 indoor spaces may be waived (less than 35,000 square feet of floor area).

 \bullet Dormitories \sim 1 space per 5 beds. Up to 5 spaces may be waived.

Example:

- 400,000 square feet hospital
- 40 bicycle spaces required (240 600 square feet)





Proposal – Manufacturing and Semi-Industrial

Purpose:

Accommodate bicycle parking where possible in various uses with varying employment characteristics and space demands.

Permitted:

• 1 space per 10,000 square feet of floor area

• Permitted bicycle parking does not count as floor area provided that it meets zoning standards



Proposal – Accessory Parking Garages

For All Uses when an Accessory Parking Garage is Provided:

- Apply the requirement for the use, or
- 1 per 10 vehicle parking spaces
- \sim whichever is greater \sim

Example

- 47,000 square feet commercial retail building with 280 space accessory parking garage
- Retail bicycle parking requirement: 5 spaces
- Accessory parking garage bicycle parking requirement: 28 spaces (168 – 375 square feet)
- 28 bicycle parking spaces required



Proposal – Authorization for Waiver or Reduction

Purpose:

Accommodate special conditions where bicycle parking may not be feasible.

Waiver or Reduction:

• the CPC may authorize a reduction or waiver of bicycle parking spaces when subsurface or below-ground infrastructure conditions or other site planning constraints make bicycle parking difficult or infeasible



Proposal – Summary Chart of Requirements

Use	Required Bicycle Parking		Permitted Bicycle Parking (maximum excluded from floor area)
	Number of Spaces	Waivers	Number of Spaces
Residential Uses			
1- and 2-Family	No requirement	n/a	n/a
Multi-Family	1 per 2 units	Waived for buildings with ≤ 10 units	1 per 2 units
Commercial Uses			
Office	1 space per 7,500 SF floor area	Up to 3 spaces may be waived (less than 26,250 SF)	1 space per 7,500 SF
Retail, hotels, & most other commercial	1 space per 10,000 SF floor area	Up to 3 spaces may be waived (less than 35,000 SF)	1 space per 10,000 SF
Large entertainment facilities	1 space per 20,000 SF floor area	Up to 3 spaces may be waived (less than 70,000 SF)	1 space per 10,000 SF
Public parking garages	1 space per 10 vehicle spaces	Up to 3 spaces may be waived (less than 35 vehicle spaces)	1 space per 10 vehicle spaces
Public service & wholesale establishments; semi-industrial	No requirement	n/a	1 space per 10,000 SF
Community Facility Uses			
Universities and Colleges	1 space per 5,000 SF floor area; up to half of the required spaces can be outdoor	Requirements of up to 3 indoor spaces may be waived (less than 35,000 SF)	1 space per 5,000 SF
Dormitories	1 space per 5 beds	Up to 5 spaces may be waived	1 space per 5 beds
Hospitals	1 space per 10,000 SF	Up to 3 spaces may be waived (less than 35,000 SF)	1 space per 5,000 SF
Houses of Worship	No requirement	n/a	1 space per 10,000 SF
Other	1 space per 10,000 SF	Up to 3 spaces may be waived (less than 35,000 SF)	1 space per 10,000 SF
Manufacturing Uses			
All	No requirement	n/a	1 space per 10,000 SF
Note: for all uses, if an accessory p space per 10 vehicle spaces, which		g requirement is either the applicable requ	irement for the use or 1 bicycle

New York City Department of City Planning

Zoning for Bicycle Parking

2008

