

# THE BICYCLE STORAGE FACILITY GUIDE

THE ULTIMATE GUIDE TO  
INDOOR & OUTDOOR CLASS I  
BICYCLE PARKING



NAVIGATING  
ORDINANCES



SAVING  
TIME



SAVING  
SPACE



SAVING  
MONEY



## SPACE EFFICIENT, HIGH VALUE

In metropolitan areas price per square foot reaches \$5000 and up. More people than ever are riding bicycles and need a place to park, but space has never been more valuable.

The Bicycle Storage Guide accumulates best practices and offers simple steps to help make the most of your space.

# UNDERSTAND BICYCLE PARKING CLASSES

Bicycle parking is separated into classes, this Guide focuses on Class I parking, but projects often need both.

Generally speaking, Class I is considered long-term parking and usually requires shelter from most (if not all) elements.

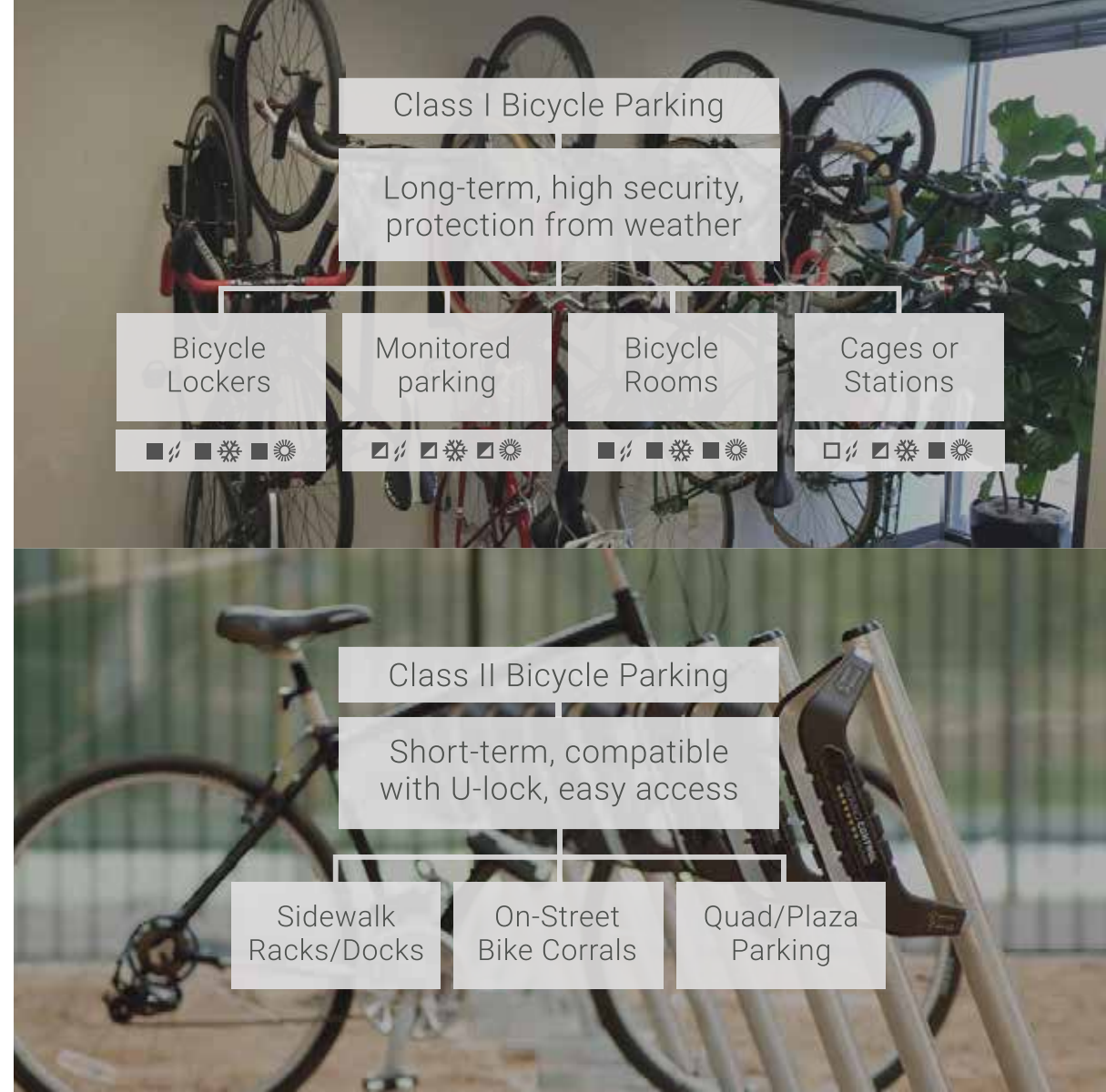
Short-term parking is intended for a couple of hours at most and is commonly seen on sidewalks, quads, or in converted car parking spaces.

## CLASS I BICYCLE PARKING KEY

Protection from elements?

■ Yes □ No ▣ Varies between product/space

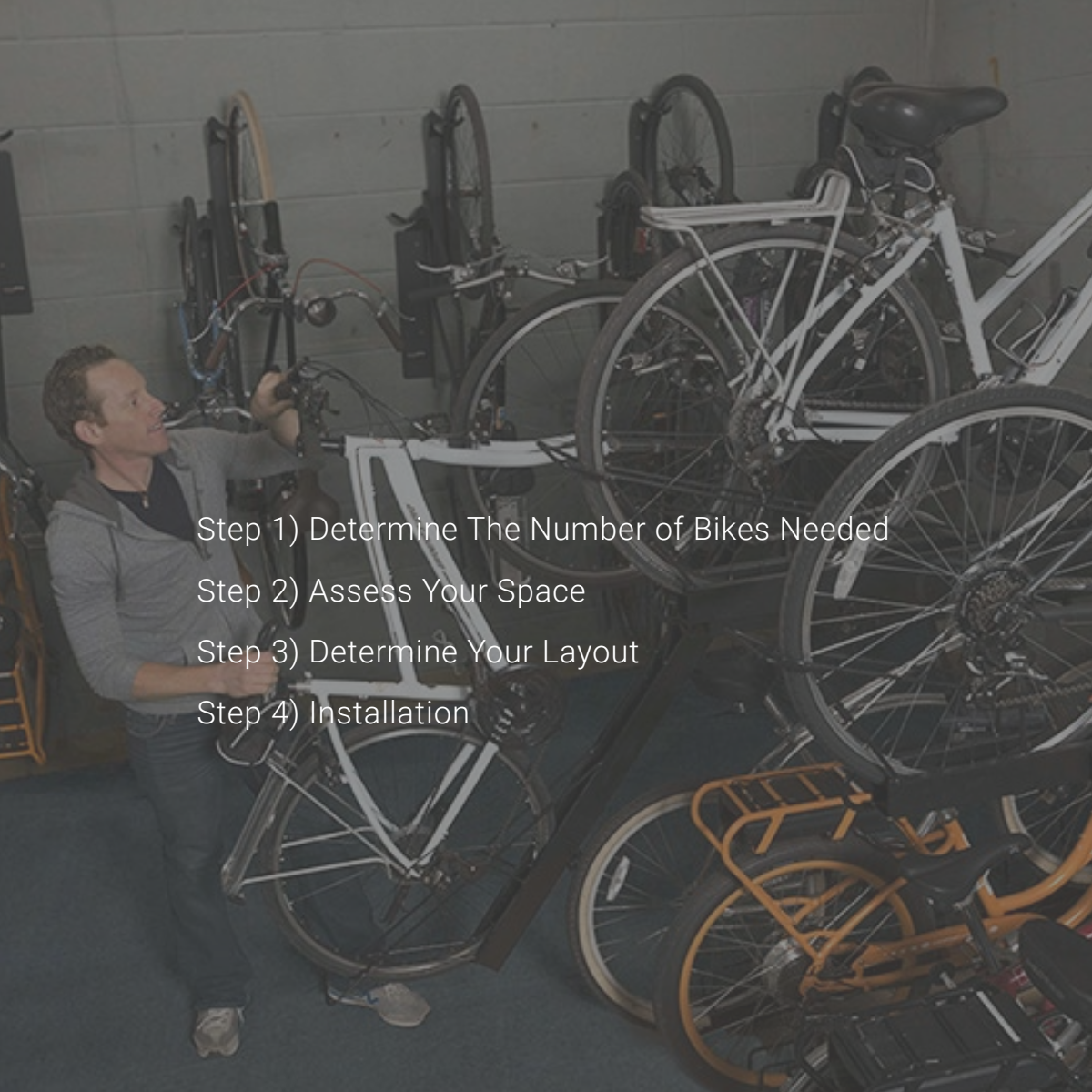
⚡ Rain ❄ Snow ☀ Sunlight



# ORDINANCE AWARENESS

Bicycle parking ordinances vary from location to location, but there are a few features that transcend across most major cities.

This Guide contains four steps to get your project started, incorporating tips on ordinance requirements to help ensure your bicycle parking is successful.

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- Step 1) Determine The Number of Bikes Needed
  - Step 2) Assess Your Space
  - Step 3) Determine Your Layout
  - Step 4) Installation

# STEP 1

## DETERMINE THE NUMBER OF BIKES NEEDED

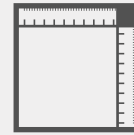
Here's what to look for in your local ordinances to quickly calculate the amount of bikes you need.



Ratios per dwelling unit, including student housing or other group housing buildings



Bed or room ratios, esp. for student housing or hotels



Square foot minimums, esp. for offices, retail, financial services, restaurants, and more



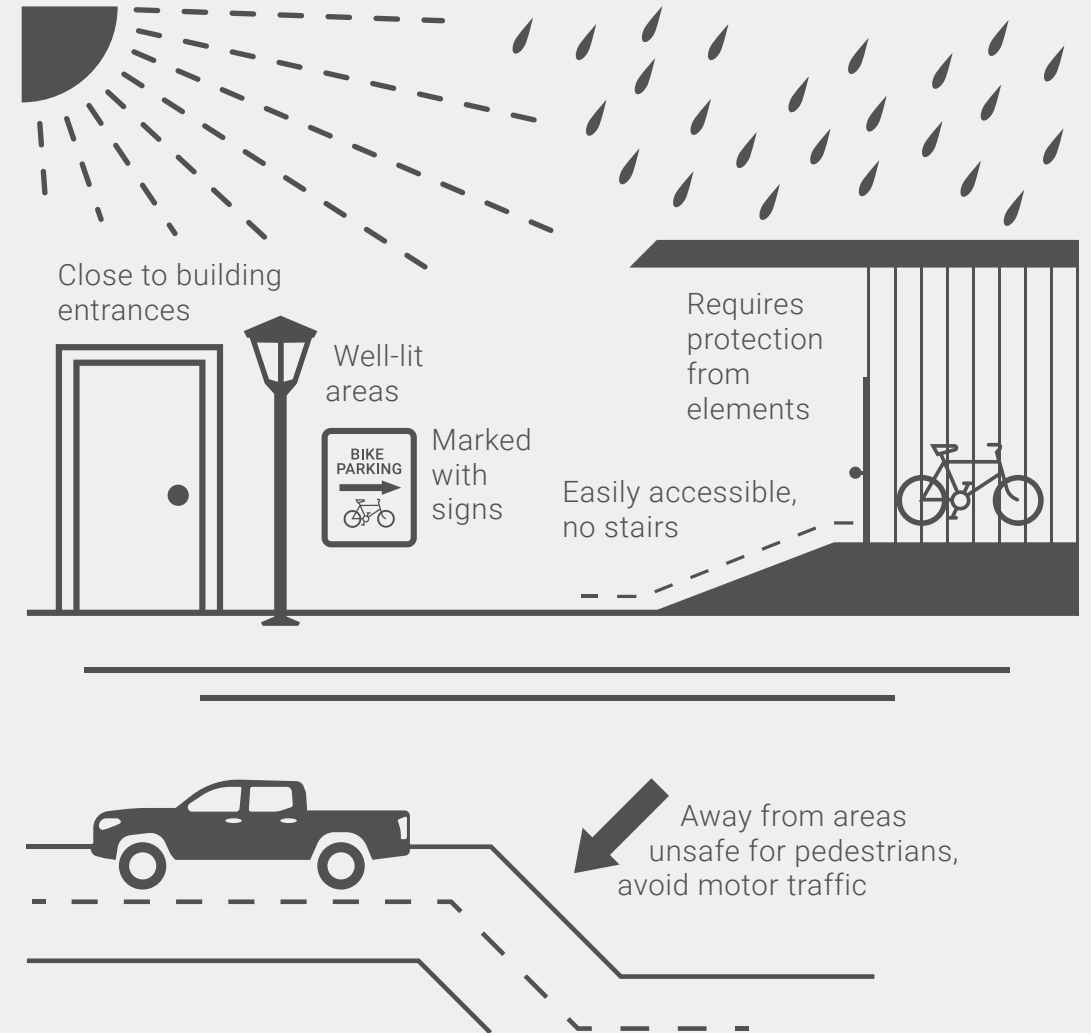
Minimum vehicle parking ratios & percentages



Employee or guest ratios, esp. for arenas or other large venues

# STEP 2 ASSESS YOUR SPACE

Decide where to put your bikes by assessing these common location and spacing requirements for indoor or outdoor Class I parking.

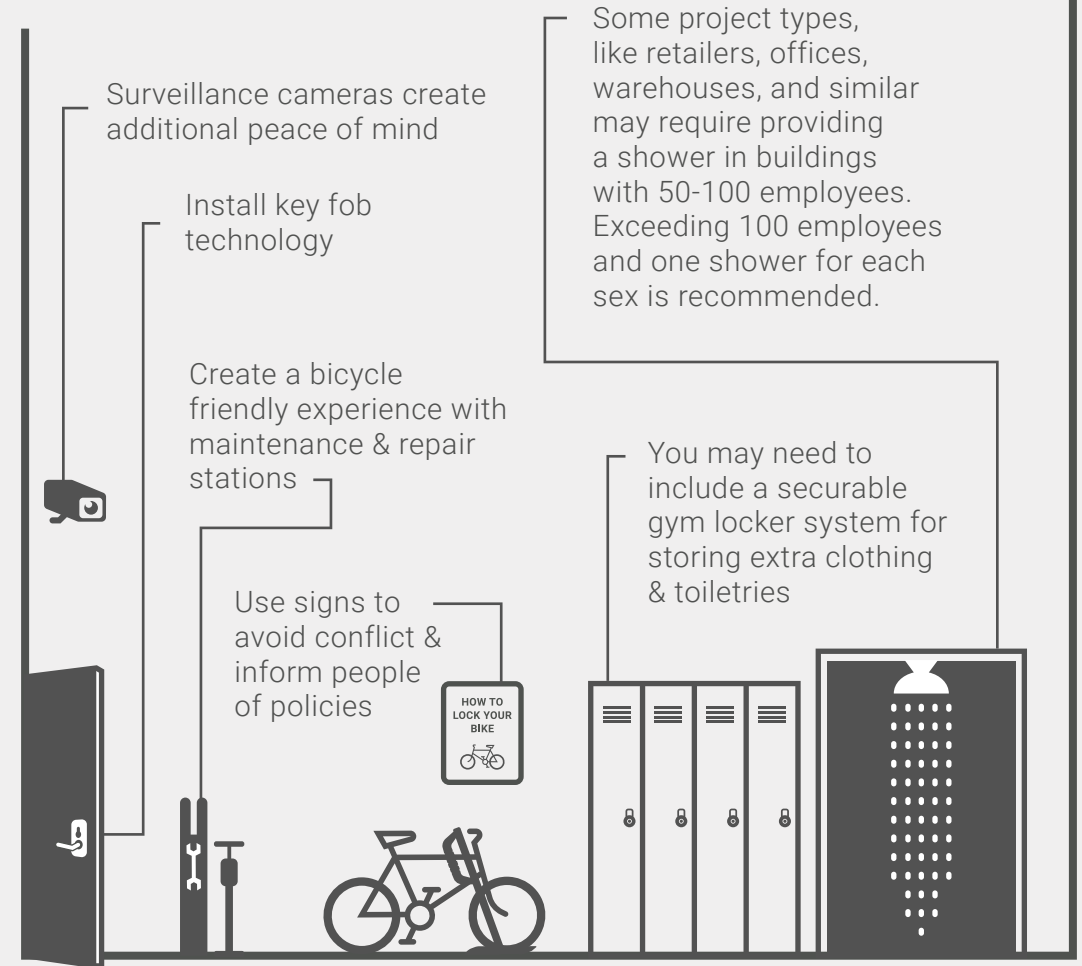


# STEP 3 DETERMINE YOUR LAYOUT

On top of bicycle parking, certain features may be required to meet your local ordinances.

Step 3 covers recommended additions and the most common successful layout designs.

## RECOMMENDED ADDITIONS



# SUCCESSFUL LAYOUT DESIGNS

Determine your layout type, build a layout that accommodates for the future, and fill the layout with durable and efficient products for long-term satisfaction.

Ground Control System's Rider Friendly, Max Density, and Balanced layouts are based on successful projects from over 25 years of experience.

## RIDER FRIENDLY

- Follows APBP guidelines
- Easier to use bicycle docks
- No bike-on-bike conflict
- Greatest user satisfaction
- Lower density bikes per square foot



20'x40'  
38 Bikes



20'x40'  
104 Bikes



## MAX DENSITY

- Highest density bikes per square foot
- Highest value layout
- Some lifting required, may not accommodate all riders

## BALANCED

- Accommodates all cyclists
- Follows APBP guidelines with on-ground parking
- May use a combo of two-tier racks, docks, and vertical racks



20'x40'  
74 Bikes



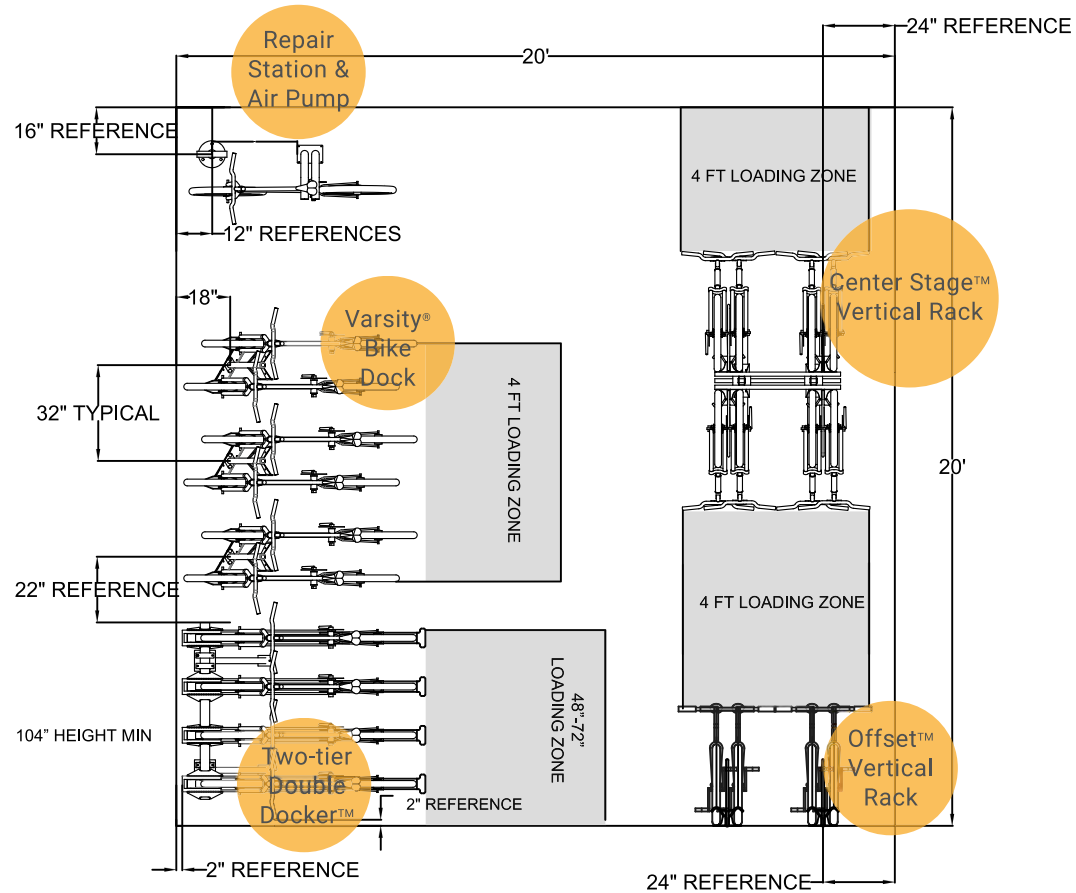


## STEP 4 INSTALLATION

Here are a few installation tips before you get started and some typical product setbacks and specs.

- Fully read the installation instructions before beginning
- Double check that the proper equipment, tools, and safety gear are on hand
- Make sure the installation area is properly lit
- Using bicycles as a test will help with aisle spacing and installation
- Concrete is preferred, asphalt and pavers are possible but require different mounting hardware

# Typical Installation Sample Setbacks Using APBP\* guidelines



\*Association of Pedestrian and Bicycle Professionals - go to [APBP.org](http://APBP.org) for helpful information



# BICYCLE STORAGE IS AN AMENITY

Bicycle parking facilities may be a requirement, but bicycle parking requirements can work for you.

Make Bicycle Storage an Amenity

## FOR THE OWNER:

Stay in tune with the Bicycle Friendly movement & gain recognition

\*Bike storage deposits & fees help create ancillary revenue

Tax credits & LEED certification

Some commercial and government programs may exist to subsidize the cost of bicycle parking

Reduce costly vehicle parking requirements with bicycle parking instead

\*Note: some ordinances do not allow additional fees, so check if your project type allows it!

## FOR THE USER:

Healthy bike riding employees = happy, productive employees

Employers may offer \$20/month to reimburse bicycle commuting expenses

Class I Facilities support inexpensive, environmentally friendly traveling

Class I Facilities protect property with high-security, long-term parking

Resources:  
[groundcontrolsystems.com](http://groundcontrolsystems.com)  
[bikeleague.org](http://bikeleague.org)



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