



Bicycle Advisory Council

5-15-2018

Bicycle Parking— Issues and Solutions

Active Transportation Division

Austin Transportation Department



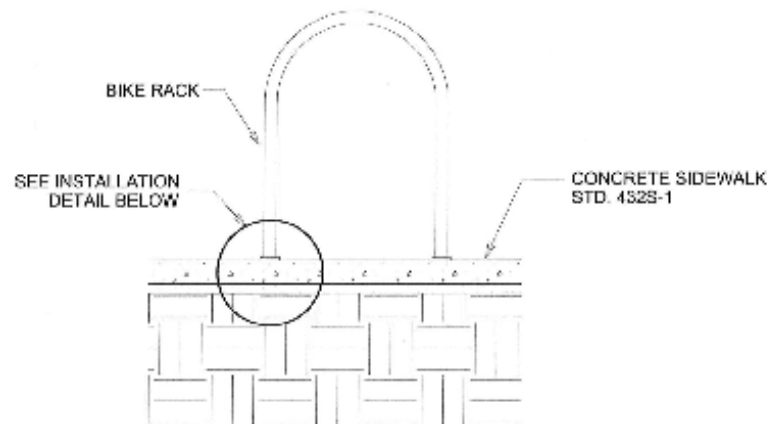
# Current bike rack installation issues

## Deforming regular wedge anchors presents issues:

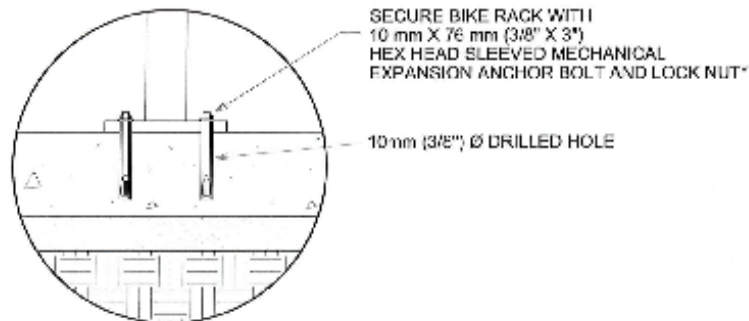
- Difficult for crews to install correctly
- Difficult for CIP Inspectors to verify correct installation
- Unreliable – often still vulnerable to tampering







### BASIC INSTALLATION



### INSTALLATION DETAIL

#### GENERAL NOTES:

1. RACKS SHALL COMPLY WITH CITY STANDARD DETAIL 710S-1 OR 710S-2.
2. RACK PLACEMENT SHALL COMPLY WITH APPLICABLE CITY STANDARD DETAILS 710S-6A, 710S-6B, OR 710S-6C AND IN COMPLIANCE WITH CITY OF AUSTIN CODE SECTION 25-8-477 OR ITS SUCCESSOR.

\*TO PREVENT THEFT OF BICYCLE RACK OR BIKES, EXPOSED BOLTS MUST BE DEFORMED AND NUTS RE-TIGHTENED TO PREVENT THEM FROM BEING EASILY UNTHREADED. NUTS SHOULD BE TESTED TO ENSURE THAT THEY CANNOT BE EASILY REMOVED AFTER DEFORMATION.

CITY OF AUSTIN  
DEPARTMENT OF PUBLIC WORKS

7/26/12  
ADOPTED

BICYCLE RACK INSTALLATION  
IN CONCRETE SIDEWALK-ALTERNATE 1

THE ARCHITECT/ENGINEER ASSUMES  
RESPONSIBILITY FOR APPROPRIATE USE  
OF THIS STANDARD.

STANDARD NO.

710S-4  
1 OF 1



# Solutions

## Security hardware :

- Mushroom head crimp anchors
  - Easy and fast to install
  - Easy to inspect
  - Inexpensive and widely available



- Breakaway stainless nuts
  - More secure than deforming regular wedge anchors
  - Expensive and not widely available
  - Installation takes time and is prone to error



# Transportation Criteria Manual and CodeNEXT updates

- Improved installation methods
- Clearer design guidance
- Easier inspection
- Potential changes to relationship between bike and automotive parking



# Issues With Bike Racks in Downtown Area

- Some existing downtown bike racks may be vulnerable to tampering
- A plan is being formed for a contractor to remediate these racks to make them secure



# Website Updates

- Easily accessible bike parking application form
- Rack type recommendations and requirements
- Best practice instructions

Austin Transportation Department | City of Austin

## Application | Bicycle Parking

Before filling out this application, please ensure that all required criteria listed on the Bicycle Parking FAQ Sheet have been met.

☐ I have read and checked yes to all of the required criteria listed on the FAQ Sheet.

Applicant Name: \_\_\_\_\_ Date: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

Business/Organization: \_\_\_\_\_

### Facility Requested

**Bike Rack** (U-frame, parks two bikes, installed in sidewalk area) \_\_\_\_\_

How many are needed on the block (both sides)? \_\_\_\_\_

**Bike Corral** (Spaces for up to 14 bikes in one on-street parking space) \_\_\_\_\_

### Location Requested





Jesse Duncan  
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Street Designer

