This guide is designed to give developers, architects, property managers, construction professionals, and County staff, the knowledge to design, install, and maintain great bicycle parking facilities. This guide outlines the current County design and installation standards and procedures for secure and visitor bicycle parking in both new and retrofitted construction. It is the property owner’s responsibility to keep these bicycle facilities well maintained and useful for tenants and residents. These high quality facilities aim to promote and encourage bicycling as an efficient and convenient form of transportation for residents, workers, and visitors to Arlington County.
TABLE OF CONTENTS

Short-Term Visitor Bicycle Parking (Class III) ............................................ 4
   General Requirements
   Approvable Class III Bicycle Rack Specifications
   Class III Layout and Installation
   Minimum Clearances
   Class III Plan Requirements

Long-Term Secure Bicycle Parking (Class I) ...............................................9
   General Requirements
   Class I Bike Parking Location Options
   Approvable Class I Bicycle Rack Options and Specifications
   Minimum Clearances
   Class I Plan Requirements
   Shower and Locker Facility Requirements

Plan Review .................................................................................................. 17
   Step by Step Guide to Bicycle Parking in New Construction Process
   Step by Step Guide to Bicycle Parking in Renovation or Retrofit Process

Appendix .................................................................................................... 20
   List of Approvable Racks and Vendors
   County Technical Specifications Sheets
   County Contact Information
SHORT-TERM VISITOR BICYCLE PARKING (CLASS III)
Class III bicycle parking refers to short term bicycle parking intended for visitors to an establishment. This parking is outdoors and uncovered. While this type of parking is exposed to the elements, it is meant to be convenient for visitors and customers who intend to stay a brief amount of time. Cyclists use their own locks to secure their bicycles to these racks.

**General Requirements**

- Installed within 50 feet of a main entrance
- Leaves pedestrian paths and vehicle rights-of-way clear
- Highly visible
- Other considerations:
  - Often placed in “landscape zone” in line with tree pits, benches, lamp posts, etc.
  - Achieves “Class II” status when covered by roof or overhang, which protects the rider and the bicycle from precipitation

**Approvable Class III Bicycle Rack Specifications**

- At least 18” wide and 33” tall when installed
- Secure anchor to a solid, immovable surface
- Provides two points of contact for typical adult or child’s bicycle frame
- Allows user to lock frame and one wheel to rack using standard U-lock
- Constructed of 2” Nom. (2.38” O.D.) Sch. 40 or 2” square steel pipe
- Approvable outdoor finishes include hot-dip galvanized, thermoplastic, or stainless steel
- See Appendix for list of approvable racks and County Construction Specifications
Class III Layout and Installation

Below is an overview of approvable options for Class III layout and installation. For detailed information on installation requirements, please see County specifications in the Appendix.

1. **In-Ground Mount (Preferred Method)**
   - Legs must be anchored 9” deep in new concrete within minimum dimensions, including a minimum of 3” of concrete encasement on all sides
   - Legs must be fitted with anchor pins to prevent lift-out

2. **Flange (Surface) Mount**
   - Must be installed on cured concrete sidewalk or continuous concrete subbase
   - Legs must have a minimum of two fasteners per flange
   - Concrete sidewalk must be minimum 4” thick and conform to County sidewalk standard
   - Anchors must be friction, mechanically expanded, or adhesive bonded, and may be threaded or driven; if threaded, they must be fixed with tamper-resistant nuts as approved by the County
   - Rack may not be bolted to unit pavers; however, unit pavers may be installed over flanges mounted to concrete
     - Pavers must be neatly cut and fit around flanges, fasteners, and legs of rack while maintaining the minimum height from finished grade

3. **Rack installation on a sloped sidewalk**
   - Ensure the legs of the rack are vertical (plumb) in two planes
   - Preferred method is using in-ground racks
   - For surface-mounted racks, the use of shims may accomplish this task
## MINIMUM CLEARANCES

<table>
<thead>
<tr>
<th>2 FT</th>
<th>3 FT</th>
<th>8 FT</th>
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<tbody>
<tr>
<td>MINIMUM CLEARANCE</td>
<td>MINIMUM CLEARANCE</td>
<td>MINIMUM CLEARANCE</td>
</tr>
<tr>
<td>Distance from any obstruction</td>
<td>Perpendicular on-center distance between parallel or angled racks</td>
<td>Distance—end to end U racks</td>
</tr>
</tbody>
</table>

Note: for complete installation, dimensions, and hardware details of bike racks, please reference “General Notes for Bicycle Rack Installation” Drawings R8.0 – R8.3 in the Appendix.
Class III Plan Requirements

Civil/Landscape Plans

Site or Streetscape Plan Sheet

1. Show and label all exterior bike parking locations. Must be able to count number of spaces in design.

Detail Drawings

1. Show and label distance between racks and all obstructions.

2. For each type of bicycle rack—provide a construction specification sheet with information from the manufacturer and hardware schedule.

3. Include County technical specification sheets R8.0-R8.3.

*Civil and Landscape Plans Must Match*
LONG TERM SECURE BICYCLE PARKING (CLASS I)
Class I bike parking refers to secure bicycle storage facilities that are intended for all-day or overnight storage. These are typically provided for employees in commercial buildings or residents and regular employees in multi-family residential properties. Class I facilities are characterized by protection from the weather and protection from theft via a locked, enclosed room. Class I bike parking requirements for commercial properties in Arlington may also include shower and locker facilities to serve bike commuters.

**General Requirements**

- Protection from weather
- Security of locked room or cage
- Ability to lock bicycle to a rack within the room or cage
Class I Bike Parking Location Options

Preferred option

- Fully enclosed ground floor room with direct sidewalk access
  
  Clean, efficient to access, highly secure, less conflict with cars

Additional options

- Fully enclosed room in garage
  
  Discrete, highly secure; however, can conflict with cars and be less inviting for users

- Cage in a garage
  
  Secure; however, conflicts with cars, can appear less clean and inviting, and bikes are visible to potential thieves

- Bike lockers (for unique scenarios)
  
  Secure; however, not space-efficient and if placed outdoors, bicycle riders are not protected from the weather
Design requirements

- At least 30% of bicycle parking must be horizontal and at floor level
- Doors must be hollow metal
- Doors must use a heavy-duty cipher lock or electronic lock
- For cages only:
  - Hollow metal doors still required, but cage walls may need to be supplemented by sheet metal plating (3 feet in each direction) as needed to prevent tampering with door handle or lock
  - Cage walls must be made of industrial grade expanded metal or welded wire mesh; other acceptable wall materials are concrete block and drywall
  - Cage walls must reach all the way from floor to ceiling (not drop ceiling)

*Photos are only intended to show approvable lock types and are not representative of approvable door/cage material or design.*
Approvable Class I Bicycle Rack Options and Specifications

- Standard inverted-U or hoop racks for surface mount to floor. At least 30% of bicycle parking must be horizontal and at floor level.
- Vertical racks on walls or freestanding frames
- “Double decker” racks for more efficient use of extra vertical space

Note: for complete installation, dimensions, and hardware details of bike racks, please reference “General Notes for Bicycle Rack Installation” Drawings R8.0-8.3 in the Appendix.

<table>
<thead>
<tr>
<th>MINIMUM CLEARANCES</th>
<th>5 FT</th>
<th>7 FT</th>
<th>3 FT</th>
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</thead>
<tbody>
<tr>
<td>Aisle width—single level</td>
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<tr>
<td>Aisle width—double-decker racks</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Perpendicular on-center distance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>or angled racks</td>
<td></td>
<td></td>
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<tr>
<td>Minimum clearance</td>
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<td></td>
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<tr>
<td>Distance—end to end U racks</td>
<td>8 FT</td>
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<tr>
<td>Minimum clearance</td>
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<tr>
<td>Distance from any obstruction</td>
<td>2 FT</td>
<td></td>
<td></td>
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<tr>
<td>Minimum clearance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vertical clearance for hanging</td>
<td>See specific manufacturer’s specs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or double-decker rack</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum clearance</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

*Note: for complete installation, dimensions, and hardware details of bike racks, please reference “General Notes for Bicycle Rack Installation” Drawings R8.0-8.3 in the Appendix.*
Class I Plan Requirements

Architectural plans: interior bike rack locations

1. Show and label all interior bike parking locations on appropriate architectural floor plan.
Enlarged architectural plans: interior bike rack details

Show and label the following:

- Proposed room or cage walls
- Wall and door material
- Cage wall and/or door security plates (if applicable)
- Door lock type
- Dimensions between racks
- Dimensions from racks to walls and other obstructions
- Aisle widths

- For each type of bicycle rack—provide a construction specification sheet with information from the manufacturer and hardware schedule
- Include County technical specification sheets R8.0-R8.3
- Where needed for clarity for vertical and double-decker rack installations, there should be a drawing depicting sufficient ceiling clearance above the racks
Shower and Locker Facility Requirements

Showers and lockers complement Class I bike parking for bicycle commuters by providing dedicated space for riders to clean up before the workday and to store things such as clothes or toiletries rather than traveling back and forth with these items.

- Shower and locker facilities should be accessible for storage 24/7, and at a minimum should be accessible for active use during normal business hours
- Lockers should be provided within the secure bike parking area or nearby locker room and located adjacent to shower facilities
- If lockers are provided in separate gender locker rooms, each room needs to have the required number of lockers (not split between the two)
- The minimum acceptable locker dimensions are 12” wide, 18” deep, 36” tall
Step by Step Guide to Bicycle Parking in New Construction Process

1. Depict interior bike parking on architectural plans.
2. Depict exterior bike parking on civil engineering plans (civil and landscape plans must match).
3. Submit complete plans via electronic plan review.
4. Make revisions to plans as required (typically for Footing to Grade Permit) until approved.
5. Order materials.
6. Schedule installation coordination meeting with TDM staff prior to install for layout guidance and troubleshooting.
7. Complete installation.
8. Schedule inspection of installation with TDM staff prior to need for release of First Certificate of Occupancy.
Step by Step Guide to Bicycle Parking in Renovation or Retrofit Process

1. Obtain copy of relevant plan sheets for area on property where bike rack installation is to be considered.
2. Schedule site selection meeting with TDM staff for location and layout guidance and troubleshooting.
3. Submit drafts of revised plan and detail drawings to TDM staff for review.
4. Submit approvable drawings as a part of application for administrative change (contact Zoning for determination if administrative change is necessary).
5. If administrative change is approved, order materials.
6. Schedule installation coordination meeting with TDM staff prior to install for layout guidance and troubleshooting.
7. Complete installation.
8. Schedule inspection of installation with TDM staff.
List of Approvable Racks and Vendors (Not Exhaustive)

<table>
<thead>
<tr>
<th>VENDOR</th>
<th>APPROVABLE PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Bicycle Security Company</td>
<td>Same as approvable Dero models</td>
</tr>
<tr>
<td>BikeParking.com</td>
<td>Double-Decker with Locking Arm</td>
</tr>
<tr>
<td></td>
<td>Welle Series Racks (standard and flat top)</td>
</tr>
<tr>
<td></td>
<td>Welle Circular Racks (round and square)</td>
</tr>
<tr>
<td>Creative Pipe</td>
<td>Inverted-U (SU-20 or WU-20)</td>
</tr>
<tr>
<td></td>
<td>Horseshoe</td>
</tr>
<tr>
<td></td>
<td>Funnel</td>
</tr>
<tr>
<td>Cyclesafe</td>
<td>U/2 Square</td>
</tr>
<tr>
<td></td>
<td>Staple</td>
</tr>
<tr>
<td>Dero</td>
<td>Hoop Rack Heavy Duty</td>
</tr>
<tr>
<td></td>
<td>Downtown</td>
</tr>
<tr>
<td></td>
<td>Arc</td>
</tr>
<tr>
<td></td>
<td>Ultra Space Saver</td>
</tr>
<tr>
<td></td>
<td>Decker</td>
</tr>
<tr>
<td></td>
<td>Alley**</td>
</tr>
<tr>
<td>Landscape Forms</td>
<td>Ring Rack (special order height only)*</td>
</tr>
<tr>
<td>Madrax</td>
<td>U (Square only)</td>
</tr>
<tr>
<td></td>
<td>U-two</td>
</tr>
<tr>
<td></td>
<td>UX (Square and Round)</td>
</tr>
<tr>
<td>Bike Fixation by Saris</td>
<td>Bike Dock (2.38&quot; and 2&quot; square)</td>
</tr>
<tr>
<td></td>
<td>Circle Dock</td>
</tr>
<tr>
<td></td>
<td>Stretch Rack (locking arm)</td>
</tr>
<tr>
<td>Victor Stanley</td>
<td>BRHS-101</td>
</tr>
<tr>
<td></td>
<td>BRWS-101</td>
</tr>
<tr>
<td></td>
<td>BRQS-101</td>
</tr>
<tr>
<td>Sportworks</td>
<td>Circular</td>
</tr>
<tr>
<td></td>
<td>Inverted-U Narrow</td>
</tr>
<tr>
<td></td>
<td>Inverted-U Wide</td>
</tr>
<tr>
<td></td>
<td>Heavy Duty Inverted-U</td>
</tr>
</tbody>
</table>

Notes

1. The focus of this list is on Class III installations, though some Class I options are provided. Other Class I products may be approvable with staff review.
2. All racks must be installed to offer a minimum of 33” of height and 18” of width.
3. This list is not comprehensive—any racks that meet the standards in this guide will be considered for approval.
4. Staff reserves the right to not approve a rack model on this list based on site design context, changes to rack design/finish by the vendor, or other considerations.

* Landscape Forms ring rack default height from their website is not approvable. This rack may only be approvable special ordered to meet minimum height requirements, which will vary based on the installation finished grade material.

** Alley rack by Dero may be approved for special situations only.
NOTES:

GENERAL:

1. THIS TECHNICAL SPECIFICATION IS INCLUDED BY REFERENCE IN THE ARLINGTON COUNTY BICYCLE PARKING STANDARDS.
2. BICYCLE RACKS SHALL BE OF AN ACCEPTED DESIGN THAT PROVIDES TWO POINTS OF CONTACT WITH A PARKED BICYCLE. INVERTED "U" RACKS AND OTHER DESIGNS CONSTRUCTED OF TUBING SHALL BE 2" NOM. (2.38" O.D.) SCH. 40 STEEL PIPE AS PER ASTM A53, OR 2" SQUARE SECTION 8 GAUGE AS PER ASTM A-500.
3. TOP OF INSTALLED BICYCLE RACKS SHALL BE MINIMUM 33" ABOVE FINISHED GRADE.
4. BICYCLE RACKS SHALL BE INSTALLED USING THE FOLLOWING OPTIONS ONLY:
   a. FLANGE-MOUNTED TO CURED CONCRETE
   b. IN-GROUND (ANCHORED IN NEW CONCRETE)
   c. MOUNTED ON RAILS MOUNTED TO CURED CONCRETE OR ASPHALT
5. IF MULTIPLE RACKS ARE INSTALLED, THEY SHALL BE UNIFORMLY ALIGNED, AND EVENLY SPACED. FOR LAYOUT PURPOSES, EACH BICYCLE RACK SHALL BE CENTERED IN A "DESIGN STALL" OF MINIMUM DIMENSION 36" X 72".
6. ACCEPTABLE MATERIALS AND COATINGS. PIPE (AND FLANGES, RAILS, ANCHOR PINS, SHIMS, AND FASTENERS, IF APPLICABLE) SHALL BE HOT-DIPPED GALVANIZED (HDG) AS PER ASTM A123 AND A304; OR STAINLESS STEEL AS PER ASTM A666 AND A240. BICYCLE RACKS MAY BE POWDER COATED OVER HDG AS PER ASTM D 7803, OR THERMOPLASTIC COATED AS APPROVED BY THE COUNTY. COATING MUST BE COMPLETE, I.E., DIPPED OR COMpletely POWDER COATED.
7. BICYCLE RACKS SHALL BE ANCHORED FIRMLY, AND INSTALLED VERTICAL (PLUMB) IN TWO PLANES.
8. NO COMPONENT OF THE INSTALLED BICYCLE RACK SHALL RESULT IN A TRIPPING HAZARD.
9. BICYCLE RACKS SHALL NOT BE MOUNTED DIRECTLY TO UNIT PAVERS ONLY.
10. FASTENERS WHEN USED SHALL:
   a. BE OF ACCEPTABLE MATERIAL AND COATING.
   b. MEET ONE OF THE FOLLOWING REQUIREMENTS

<table>
<thead>
<tr>
<th>TYPE</th>
<th>SPECIFICATION</th>
<th>MINIMUM SIZE</th>
<th>MINIMUM INSTALLATION DEPTH</th>
<th>ACCEPTABLE EMBEDMENT MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>THREADED</td>
<td>ASME B18.18:2017</td>
<td>3/8&quot;</td>
<td>AS NECESSARY</td>
<td>METAL TO METAL, TAMPER-RESISTANT NUTS REQUIRED.</td>
</tr>
<tr>
<td>FRICTION</td>
<td>A-4-1925sa, ASTM E 488</td>
<td>3/8&quot;</td>
<td>3&quot;</td>
<td>CONCRETE</td>
</tr>
<tr>
<td>MECHANICALLY EXPANDED</td>
<td>A-4-55614, ASTM E 488</td>
<td>3/8&quot;</td>
<td>3.5&quot;</td>
<td>CONCRETE</td>
</tr>
<tr>
<td>ADHESIVE BONDED</td>
<td>ASTM C 881, ASTM E1512</td>
<td>3/8&quot;</td>
<td>6&quot;</td>
<td>CONCRETE, ASPHALT</td>
</tr>
</tbody>
</table>

c. BE ABLE TO PROVIDE FIRM, SECURE ANCHORING WITH A MAXIMUM OF ¼'-INCH NON-TRIP HAZARD PROJECTION ABOVE FINISHED GRADE.
d. BE THREADED OR DRIVEN ANCHORS. THREADED FASTENERS TO BE FIXED WITH TAMPER-RESISTANT NUTS AS APPROVED BY THE COUNTY.
NOTES:

FLANGE MOUNTED INSTALLATION:

1. FLANGE MOUNTED RACKS SHALL BE INSTALLED ON EXISTING CURED CONCRETE. USE FLANGE RACKS WITH FASTENERS AS SPECIFIED ABOVE. EXISTING CONCRETE SHALL CONFORM TO CONCRETE SIDEWALK STD., ARLINGTON COUNTY CONSTRUCTION SPECIFICATION SECTION 02611, AND STD. DWG. R-2.0 (MIN. 4” THICKNESS).
2. RACK LEGS SHALL BE WELDED TO FLANGES WITH COMPLETE SEAMLESS CONTINUOUS FILLET WELDS CONFORMING TO ASTM A36, ASTM A312, AND AWS D1.1. SPOT, TACK, OR INTERMITTENT WELDING IS NOT ACCEPTABLE.
3. FLANGES SHALL BE MINIMUM 3/8” THICK, WITH MINIMUM TWO 5/16” DIA. HOLES (TWO FASTENERS) PER FLANGE.
4. FLANGE MOUNTED RACKS SHALL NOT BE BOLTED TO UNIT PAVERS.
5. WHERE CONCRETE PAVERS OR FIRED CLAY BRICK ARE INSTALLED OVER CONTINUOUS CONCRETE SUB-BASE, FLANGE-MOUNTED RACKS SHALL BE INSTALLED ON CONCRETE SUB-BASE. INSTALLATION MUST NOT COMPROMISE ANY WATERPROOFING OF CONCRETE. (FOR EXAMPLE, INSTALLATION ABOVE UNDERGROUND PARKING STRUCTURE.)
6. UNIT PAVERS SHALL BE INSTALLED IN ACCORDANCE WITH ARLINGTON COUNTY CONSTRUCTION SPECIFICATION SECTION 02612.
7. UNIT PAVERS SHALL BE NEATLY CUT AND FIT AROUND FLANGES, FASTENERS, AND LEGS OF RACK.
8. LEGS OF FLANGE MOUNTED RACKS SHALL BE OF SUFFICIENT LENGTH TO PROVIDE MINIMUM ACCEPTABLE HEIGHT OF 33” ABOVE FINISH GRADE.

IN-GROUND RACK INSTALLATION:

1. LEGS OF IN-GROUND RACKS SHALL BE FITTED WITH ANCHOR PINS TO PREVENT LIFT-OUT. ANCHOR PINS SHALL BE:
   a. OF ACCEPTABLE MATERIAL.
   b. MIN. 3/8” DIAMETER WITH MIN. 3” CONCRETE ENCASEMENT.
2. IN-GROUND RACKS SHALL BE INSTALLED AND FIRMLY ANCHORED IN NEW CONCRETE OF MINIMUM DIMENSIONS SHOWN.
3. ANCHORED PORTIONS OF RACK SHALL HAVE MIN. 3” CONCRETE ENCASEMENT ON ALL SIDES.
4. FOR RACK INSTALLATIONS ON SITES WITH CONCRETE PAVERS OR FIRED CLAY BRICK INSTALLED OVER COMPACTED SOIL SUB-BASE AND SAND LEVELING COURSE AS PER ARLINGTON COUNTY STANDARD SPECIFICATIONS SECTION 02612, AND STANDARD DWG. R-2.1, RACKS SHALL BE INSTALLED IN CONCRETE FOOTING OF DIMENSIONS SHOWN.
5. WHERE IN-GROUND RACKS ARE INSTALLED IN UNPAVED SOIL, OR SOD/GRASS/TURF, PROVIDE A SINGLE CONCRETE FOOTING OF DIMENSIONS SHOWN. PROVIDE A TAMBED GRAVEL PAD MIN. 4” THICKNESS, AND MIN. 36” X 72” CENTERED ON EACH INSTALLED RACK.
6. LEGS OF IN-GROUND RACKS SHALL BE OF SUFFICIENT LENGTH TO PROVIDE ANCHORING BELOW GRADE A MINIMUM OF 9” AND BE A MINIMUM HEIGHT OF 33” ABOVE FINISH GRADE.

INSTALLATION ON RAILS:

1. BICYCLE RAMS MAY BE APPROVED IN “GANGED” ASSEMBLIES OF FROM 2 TO 7 RAMS ON CONTINUOUS RAMS.
2. RAMS SHALL BE TYPE AISI C3 X 4.1 STEEL CHANNEL AS PER ASTM A36, HDG, OR POWDER COATED OVER HDG TO MATCH RAMS.
3. INDIVIDUAL RAMS CAN BE WELDED TO RAMS. WELDS SHALL BE COMPLETE SEAMLESS CONTINUOUS FILLET WELDS CONFORMING TO ASTM A36, ASTM A312, AND AWS D1.1. SPOT, TACK, OR INTERMITTENT WELDING IS NOT ACCEPTABLE.
4. INDIVIDUAL RAMS CAN BE BOLTED TO RAMS.
5. IF RAMS ARE BOLTED TO RAMS, FASTENERS SHALL BE:
   a. OF ACCEPTABLE MATERIAL.
   b. MIN. 3/8” DIAMETER.
   c. ABLE TO PROVIDE FIRM, SECURE ANCHORING WITH THREADED NUTS ON UNDERSIDE OF STEEL CHANNEL.
   d. FITTED WITH TAMPER-RESISTANT THREADED NUTS AS APPROVED BY THE COUNTY.
6. RAMS ON RAMS MAY BE APPROVED FOR INSTALLATION ON FINISHED ASPHALT. IN SUCH CASES, A PERMANENTLY GRUCUTED, INTERNALLY THREADED ASPHALT ANCHOR AS APPROVED BY THE COUNTY SHALL BE USED TO PROVIDE ATTACHMENT.

SITE APPLICATION NOTES FOR BICYCLE RACK INSTALLATION

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

DRAWING NO.
R-8.1
NOTES:

1. FOR LAYOUT PURPOSES, EACH BICYCLE RACK SHALL BE CENTERED IN A "STALL" OF MINIMUM DIMENSION 36" X 72".
2. IF MULTIPLE RACKS ARE ANGLED OR SKEWED, CENTER-TO-CENTER SEPARATION BETWEEN PARALLEL RACKS MUST BE INCREASED TO MAINTAIN THE MINIMUM 36" X 72" CLEAR "STALL" AREA AT EACH RACK.
3. MINIMUM 24" CLEARANCE IS NEEDED FROM WALL OR OTHER OBSTRUCTIONS.

BICYCLE RACK LAYOUT

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

DRAWING NO. R-8.2
FLANGE MOUNT FLUSH
(TYPICAL INSTALLATION)

IN-GROUND RACK INSTALLATION

INSTALLATION ON RAILS

ANCHOR DETAILS

BICYCLE RACK INSTALLATION

ARLINGTON COUNTY, VIRGINIA
DEPARTMENT OF ENVIRONMENTAL SERVICES

DRAWING NO. R-8.3
For more information, contact:

TDM Planning Program Manager
Melissa McMahon | w: 703.228.0651 | mmcmahon@arlingtonva.us