

**Section 12 93 13 Bicycle Racks**  
**SPECIFICATIONS FOR GROUND CONTROL SYSTEMS® VARSITY® MBA**  
**BIKE DOCK – DV215**

**PART 1: GENERAL**

**1.1 Summary**

Section includes written specifications for the Varsity® MBA (Multi-Base Accessory) Bike Dock – DV215.

**1.2 Quality Assurance**

*A. Manufacturer Qualifications:*

1. A manufacturer experienced in producing commercial bicycle parking racks like the desired specification described for this project.
2. Product Options: The manufacturer will be able to produce several finish and color options, shapes and types of bicycle racks from a single source or from resources able to provide product options of like quality in both form and function.
3. Manufacturer Service Options: The manufacturer will be able to present product specific drawings of the bicycle racks size, shape, dimensional requirements, and weight.

*B. Installer Qualifications:* Experienced installer has completed installation of bicycle racks similar in specification to that indicated for this project.

**1.3 Submittals**

*A. Product Information:* Must contain physical descriptions such as bicycle parking capacity dimensions, shape, installation hardware requirements, and finish options for each bicycle rack.

*B. Installation Drawings and/or Installation Video:* Detailed installation instruction for the designated bicycle rack. Drawing packages and submittals can be supplied by Ground Control Systems.

*C. Product Verification:* Able to submit finished samples for review and verification upon request.

*D. Manufacturer's Project References:* Able to provide a minimum of three references for whom the firm provided similar or comparable services during the last 5 years and a description of the services provided.

*E. Warranty:* Submit manufacturer's standard warranty.

## 1.4 Delivery, Storage and Handling

A. *Delivery*: In order to ensure shipments are received undamaged, a thorough inspection must be made and noted on the B.O.L.

B. *Storage*: Bicycle racks should be stored in their original packages or containers until they are ready for installation.

C. *Handling*: Before and up to installation, bicycle racks should be handled with sufficient care in order to prevent any finish damage.

## 1.5 Warranty

*Manufacturer's Warranty*: Bicycle racks carry a limited warranty against defects in materials and workmanship beginning on the date they are received.

## PART 2: PRODUCTS

### 2.1 Manufacturer

Provided bicycle racks manufactured by Ground Control Systems™ 708 Alhambra Blvd, Suite 200, Sacramento, CA, 95816, 1-800-630-7225, Fax: 1-866-532-9049, Website: [www.groundcontrolsystems.com](http://www.groundcontrolsystems.com)

### 2.2 Materials

A. *Pipe*: ASTM A53 Steel for all pipe

B. *Flange*: ASTM A36 Steel

C. *Locking Loop*: ASTM A36 Steel

D. *Smart Guards*: Two cushioned black injection molded urethane Smart Guards that attach to the Locking Loops (wings) for extra protection for bikes against paint damage from the metal dock.

E. *MBA Base*: Roto-molded low/medium density Polyethylene (100% Recycled)

F. *Tire Bar*: Aluminum SCH 40 pipe

G. *Filling*: All-Crete™ or similarly specified concrete, Sand (Reclaimed/Recycled) 12136-0120

### 2.3 Finishes

DV215 Varsity® Head:

1. DuraPlas® finish – Standard Black Thermoplastic.
2. Hot Dipped Galvanized finish (marine environment).

MBA Base:

- A. Standard Black Polyethylene (100% Recycled)

## 2.4 Product Details

Varsity<sup>®</sup> MBA – DV215

A. 2 bike capacity, long or short term parking

B. Polyethylene formed wheel pockets: index either front or rear wheel in a well. C.

Non-permanent freestanding for quick deployment or permanent with rail attachment D.

Locking Loops: resist cutting, rusting, and bending or deformation

E. Angled stem for space efficiency and prevention of overlapping handlebars. Creates a sweet spot for locking bikes.

F. Injection molded urethane guards protect the bicycle from metal-to-metal contact to prevent damage to the bicycle.

G. Hardware:

1. Head: Carriage Bolt ½”-13 X 2.50” HD Galv QTY: 2, Flat Washer HD Galv QTY: 2, Hex Nut ½”-13 HD Galv QTY: 2

2. Base: Cleat Plate QTY: 2, Rubber Bumper QTY: 4, Threaded Anchor QTY: 12

## 2.5 Space Use

DV215 MBA Setbacks:

Measurements are from said setback to the center of the rack unless otherwise specified. 1.

Wall Setback: For bikes set parallel to the wall, a minimum of 24" is recommended. For bikes perpendicular to the wall, a minimum of 19" is recommended. For diagonal parking with a 30° angle, a minimum of 16" is recommended.

2. Street Setback: For bikes parallel to the street 45" is recommended. For bikes perpendicular to the street 38" measured to the edge of the rack is recommended. Where vehicle parking is prohibited 19" is the recommended minimum. If possible, avoid installing the bike rack in a car door opening zone.

3. Distance Between Racks: A minimum of 32" center-to-center spacing is recommended for best space and bike efficiency. 38 ½" is recommended for the best user-friendly experience. 4. Diagonal positioning will increase walk space for narrow areas but will decrease the space needed for locking the bike.

## 2.6 Mounting

A. Freestanding, concrete filled – optional anchors available

B. Rail Mount

1. Precision Laser Cut Steel ASTM A36 Sheet Metal

2. Comes in 2, 3, or 4 bike segments

3. Extendable with use of rail extensions and common rack mounting hardware for infinite lengths and combinations.

4. Can be used with other products from Ground Control Systems.

5. Hardware per base: Nut Plate QTY: 1, Button Socket Cap Screw QTY: 2

## **PART 3: EXECUTION**

### **3.1 Examination**

Examine footprint to ensure conditions are adequate per architect specifications and plans. Do not proceed with installation if conditions are not adequate for install. Notify the project architect if conditions are unsatisfactory.

### **3.2 Preparation**

Make sure the location of the racks is flat, level, square, accurate for alignment, and correctly located for install of bicycle racks.

### **3.3 Installation**

*Surface mount:* Freestanding – concrete filled

*Surface Rail Mount:* An above ground rail that allows for the mounting of 2, 3 or 4 bikes and has the option to adjoin rails for additional parking.

### **3.4 Quoting**

A. *Product specification:* Make sure the product item, finish options, fasteners, and expected lead time have been included in the estimate.

B. *Pricing:* Estimates are good for 45 days; contact a Ground Control representative for a current price list.

### **3.5 Freight**

A. The Varsity<sup>®</sup> MBA Bicycle Rack can be shipped UPS and in some cases ship freight, dependent on quantity order. Call Ground Control at 1-800-630-7225 for a freight quote.

### **3.6 Purchasing**

A. *Product specification:* Make sure the product item, finish options, fasteners, and expected lead time have been included in the estimate.

B. *Pricing:* Estimates are good for 45 days; contact a Ground Control Systems representative for a current price list if estimate has expired.

C. *Placing an order:* You can order via phone 1-800-630-7225; Fax: 1-866-532-9049; email - info@groundcontolsystems.com. Or, if submitting purchase orders, mail to: 708 Alhambra Blvd., Suite 200, Sacramento, CA 95816