MaxiForce™ 3" x 6" Rectangular Fixed Steel Bollard Installation Schedule Per International Building Code (IBC) Section 1607.7.3

| Engineered Anchorage System for Maxi Force™ 3" x 6" Rectangular Fixed Steel Bollards per International Building Code (IBC) Section 1607.7.3 | | | | | | | | | | | |
|--|--|-----------------------|---------------------------------|-------------------------------|------------------------------|---------------|------------------------------------|------------------------------------|-----------------------------|------------------------------|--|
| Bollard Array | Bollard Ultimate Load / Max. Capacity | Design Load (lbs.) | Concrete Pier Diameter (in.) | Concrete Pier Height (in.) | Concrete Pier Reinforcing | | Concrete Grade Beam Depth (In.) | Concrete Grade Beam Width (In.) | Concrete Grade Longitudinal | Beam Reinforcing Stirrups | |
| | | | Indi | vidual Footing Op | ption | | | Continuous Footing Option | | | |
| 3 (5.0) | 11,110 | 2,000 | 12 | 42 | 4 - #4 vert. | 18" Embedment | 26 | 12 | 4 - #4 cont. | #3 at 12" o.c. | |
| 3 (5.0) | 11,110 | 2,000 | 16 | 39 | 4 - #4 vert. | 18" Embedment | 24 | 16 | 4 - #4 cont. | #3 at 10" o.c. | |
| 3 (5.0) | 11,110 | 2,000 | 18 | 38 | 4 - #4 vert. | 18" Embedment | 22 | 18 | 4 - #4 cont. | #3 at 10" o.c. | |
| 2 (1.0) | 11,110 | 3,000 | 12 | 48 | 4 - #4 vert. | 18" Embedment | 28 | 12 | 4 - #4 cont. | #3 at 12" o.c. | |
| 2 (1.0) | 11,110 | 3,000 | 16 | 45 | 4 - #4 vert. | 18" Embedment | 24 | 16 | 4 - #4 cont. | #3 at 10" o.c. | |
| 2 (1.0) | 11,110 | 3,000 | 18 | 42 | 4 - #4 vert. | 18" Embedment | 24 | 18 | 4 - #4 cont. | #3 at 10" o.c. | |
| 1 (6.0) | 11,110 | 6,000 | 12 | 62 | 4 - #4 vert. | 18" Embedment | 28 | 12 | 4 - #4 cont. | #3 at 12" o.c. | |
| 1 (6.0) | 11,110 | 6,000 | 16 | 56 | 4 - #4 vert. | 18" Embedment | 26 | 16 | 4 - #4 cont. | #3 at 10" o.c. | |
| 1 (6.0) | 11,110 | 6,000 | 18 | 54 | 4 - #4 vert. | 18" Embedment | 24 | 18 | 4 - #4 cont. | #3 at 10" o.c. | |

Design and Construction Notes:

- 1.0 Two (2) bollard array required to meet IBC section 1607.7.3. Minimum of 2 bollards shall engage the vehicle in a vehicle barrier design. Maximum bollard spacing at 3'-0" o.c.
- 2.0 Allowable Foundation Pressure = 2,000 psf. Allowable Lateral Bearing = 150/psf. Assumed in-place soil: Sand, Silty Sand, Clayey Sand, Silty Gravel, or Clayey Gravel. For higher soil allowable design values, site soil investigation by a Registered Geotechnical Engineer is required.
- 3.0 See supplemental concrete pier / beam details for additional information.
- 4.0 Material Specifications: Concrete = 3,000 psi (28-day min.); Reinforcing ASTM A615 (60 ksi for all bars #5 and larger/ 40 ksi for all bars #4 and smaller).
- 5.0 Three (3) bollard array required to meet IBC section 1607.7.3. Minimum of 3 bollards shall engage the vehicle in a vehicle barrier design. Maximum bollard spacing at 2'-0" o.c.
- 6.0 For continuous footing option, maximum single bollard spacing at 4'-0' o.c.

Drawing Rev. Created 11/1/2010

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MFS Inst Sched (IBC 1607)

C Scale NA DO NOT SCALE DRAWING Sheet 1 Of 1

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