Maxi*Force*™ Steel Bollard Base Installation Schedule

For Universal, Simple, Removable, and EZ Bases

Engineered Anchorage System for Maxi <i>Force</i> ™ Steel Bollard Bases - Single Footing (For Universal, Simple, Removable and EZ Bases)									
Base Type	Concrete Pier Diameter (In.)	Concrete Pier Height (In.)	Concrete Pier Reinforcing	Bollard Base/Embedment at Concrete Pier					
Universal	12"	39"	2 - #4 Vert.	8" Min					
Simple	12"	39"	2 - #4 Vert.	8" Min					
Removable	12"	39"	2 - #4 Vert.	8" Min					
EZ	12"	39"	2 - #4 Vert.	6" Min					

Engineered Anchorage System for Maxi <i>Force</i> ™ Steel Bollard Bases - Continuous Beam Footing (For Universal, Simple, Removable and EZ Bases)									
Base Type	Concrete Grade Beam Width (In.)	Concrete Grade Beam Height (In.)	Concrete Grade Beam Reinforcing	Bollard Base/Embedment at Concrete Grade Beam					
Universal	12"	22"	3 - #4 Cont.	8" Min					
Simple	12"	22"	3 - #4 Cont.	8" Min					
Removable	12"	22"	3 - #4 Cont.	8" Min					
EZ	12"	22"	3 - #4 Cont.	6" Min					

Design and Construction Notes

- 1.0 For continuous concrete grade beam footing, pipe bollards shall be spaced 4' 0" O.C. maximum.
- 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 footing 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).

Drawing Rev. 1	Created 11/1/2010	7		Maxi Force [™] Traffic Control Bollards			
PROPRIETARY AND CONFIDENTIAL THIS DRAWING CONTAINS PROPRIETARY INFORMATION OF BLUE EMBER TECHNOLOGIES.				7560 Main Street Sykesville, MD 21784 410-552-9888 (phone) - 410-552-9939 (fax) www.maxiforcebollards.com - sales@maxiforcebollards.com			
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