



INSTALLATION DETAILS

FOR RP3500 SERIES KEY LOCK REMOVABLE BOLLARDS

- 1 NEVER ATTEMPT TO PLACE THE BOLLARD INTO THE GROUND SLEEVE WHILE IN THE LOCKED POSITION.**
- 2 PAY CAREFUL ATTENTION** to the placement of the location of the ground sleeve latch pin – this determines the location of the lock at the top of the post.
- 3 INSTALLATION OF A SMALLER FOUNDATION** than that specified may reduce the overall impact capacity of the TrafficGuard Bollard System.
- 4 TO PROTECT AGAINST A TRIP HAZARD** insert the galvanized ground sleeve filler piece at all times the bollard is removed from the ground sleeve insert.
- 5 PROPER DRAINAGE IS CRITICAL** to the life of the bollard and the locking system. You must keep water from standing in the hole.

IF YOU HAVE ANY CONCERNS OR QUESTIONS

before beginning the installation please call **TRAFFICGUARD DIRECT 877-727-7347 TOLL FREE.**

TrafficGuard®

"The Round Post Removable Bollard" Standard Features Include

Safety:

Smooth surface bollard post at 36" height and painted with highly durable "Safety Yellow" finish are standard features for high visibility and no sharp edges. Custom colors available upon request.

Heavy Duty:

Closed Steel Post Construction that will resist a static load of 3,000 to 15,000 pounds force or equivalent impact force at 27 inches above grade prior to failure depending on model selected. Galvanized (HDG) Anchor Post below grade shall be installed per "Bollard Post Concrete Anchorage Detail" provided by TrafficGuard. Other anchorage systems may cause premature failure.

Proven Performance:

References Available Upon Request

Low Maintenance

Warranty

\$1,000,000 Liability Coverage

Orders for "Safety Yellow" shipped in 48 hours.

Ease of use in five easy reversible steps :

1. Remove key from stored location and insert Key and unlock.
2. Lift and twist the bollard post counter clockwise
3. Lift to remove bollard post from anchor sleeve and store elsewhere.
4. Place the 6 pound anchor sleeve cover in the anchor sleeve with the reverse procedure to provide zero grade clearance and no hole for pedestrian and wheel traffic safety. This insertion MUST BE DONE at all times the bollard is removed.
5. Store Key in a safe location.

Owner provided Tools required: Use hands or nylon strap wrench to remove bollard post and standard flat pry bar, provided by TrafficGuard or screwdriver to twist and lift to remove the anchor sleeve cover.

TrafficGuard® Direct www.trafficguard.net P.O. Box 201, Geneva, IL 60134 Bus: 877-727-7347 Fax: 800-814-7194	NAME: _____	USED ON: _____	TOLERANCES: _____	ACTION: _____	BY: _____	DRAWING NUMBER: _____
	DISPLAY		± .01	DESIGN: _____	WKZ	RP-3506
1. DO NOT SCALE FROM DRAWING			± .005	DRAWING: _____	CJD	SCALE: 1:4 DATE: 10-23-06 SIZE: 34 X 22
2. UNITS ARE IN INCHES UNLESS NOTED OTHERWISE			ANGULAR: ± 1°	CHECKED: _____	WKZ	COPYRIGHT: 2006 1 of 1
3. DIMENSIONS BASED ON ASME Y14.5M-1994			FRACTION: ± 1/16			

ROUND POST CONCRETE ANCHORAGE SYSTEM

DESIGN AND CONSTRUCTION DATA SCHEDULE

1. THE DESIGN LOAD IS A STATIC LOAD LOCATED AT 27 INCHES ABOVE GRADE THAT SHOULD CAUSE FAILURE OF THE BOLLARD.
2. THE EARTH PRESSURE VALUE IS SHOWN AT DESIGN LOAD AND THE OWNER SHOULD VERIFY THAT THE EARTH IS ADEQUATE.
3. OTHER ANCHORAGE SYSTEMS MAY CAUSE PREMATURE FAILURE OF THE BOLLARD BY ROTATION OF ANCHORAGE.
4. FOR RPT & RPL FOUNDATION DETAILS USE CORRESPONDING PIPE OD SIZE. IE: RP3506 = RPT6601 OR RPL6.
EARTH PRESSURE MAXIMUM $Q = 3888 \text{ P} / \text{DB}(A+B)$

BOLLARD MODEL	DESIGN LOAD P	BOLLARD Fb PSI	EARTH Q MAX	PIER HT. C	VERTICAL REBAR		NO. HOOP REBAR	PVC DRN LENGTH	PIER CONCRETE	FRENCH DRAIN	PIER DIAMETER	DIMENSION	
					LENGTH	QTY						A	B
RP3501	3000 #	47093 PSI	2204 PSF	42 INCH	40 INCH	4	6 EACH	18 INCH	6 Cu Ft	0.5 Cu Ft	18 INCH	7 INCH	14 INCH
RP3503	3000 #	47093 PSI	2204 PSF	42 INCH	40 INCH	4	6 EACH	18 INCH	6 Cu Ft	0.5 Cu Ft	18 INCH	7 INCH	14 INCH
RP3504	6000 #	50467 PSI	4408 PSI	42 INCH	40 INCH	4	6 EACH	18 INCH	6 Cu Ft	0.5 Cu Ft	18 INCH	7 INCH	14 INCH
RP3504	6000 #	50467 PSI	2667 PSI	54 INCH	52 INCH	4	7 EACH	30 INCH	8 Cu Ft	0.5 Cu Ft	18 INCH	9 INCH	18 INCH
RP3505	10000 #	49541 PSI	4444 PSI	54 INCH	52 INCH	4	7 EACH	30 INCH	8 Cu Ft	0.5 Cu Ft	18 INCH	9 INCH	18 INCH
RP3505	10000 #	49541 PSI	3600 PSI	60 INCH	58 INCH	4	8 EACH	36 INCH	9 Cu Ft	0.5 Cu Ft	18 INCH	10 INCH	20 INCH
RP3505	10000 #	49541 PSI	2975 PSI	66 INCH	64 INCH	4	8 EACH	42 INCH	10 Cu Ft	0.5 Cu Ft	18 INCH	11 INCH	22 INCH
RP3506	15000 #	47647 PSI	3750 PSI	72 INCH	70 INCH	4	9 EACH	48 INCH	11 Cu Ft	0.5 Cu Ft	18 INCH	12 INCH	24 INCH
RP3506	15000 #	47647 PSI	3195 PSI	78 INCH	76 INCH	4	10 EACH	54 INCH	12 Cu Ft	0.5 Cu Ft	18 INCH	13 INCH	26 INCH
RP3506	15000 #	47647 PSI	3240 PSI	60 INCH	58 INCH	8	8 EACH	36 INCH	25 Cu Ft	1.6 Cu Ft	30 INCH	10 INCH	20 INCH
RP3506	15000 #	47647 PSI	3333 PSI	54 INCH	52 INCH	8	7 EACH	30 INCH	32 Cu Ft	1.8 Cu Ft	36 INCH	9 INCH	18 INCH
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This Drawing shall not be used nor reproduced except when authorized in writing by TrafficGuard Direct.

<h2 style="margin: 0;">TrafficGuard [®] Direct</h2> <p style="margin: 0; font-size: small;">www.trafficguard.net P.O. Box 201, Geneva, IL. 60134 Bus: 877-727-7347 Fax: 800-814-7194</p>		<p style="margin: 0; font-weight: bold;">NAME: RP ANCHORAGE</p> <p style="margin: 0; font-size: x-small;">1. DO NOT SCALE FROM DRAWING 2. UNITS ARE IN INCHES UN. 3. DIMENSIONING BASED ON ASME Y14.5M-1994</p>		<p style="margin: 0; font-weight: bold;">USED ON</p> <p style="margin: 0;">-</p>	<p style="margin: 0; font-size: x-small;">0.XX = ± 0.1 0.XXX = ± 0.06 ANGULAR = ± 1° FRACTION = 1/16</p>	<p style="margin: 0; font-weight: bold;">ACTION DESIGN</p> <p style="margin: 0;">DRAWING: CJD CHECKED: WKZ</p>	<p style="margin: 0; font-weight: bold;">BY WKZ</p> <p style="margin: 0;">SCALE: NTS DATE: 10-23-06 COPYRIGHT: 2006</p>	<p style="margin: 0; font-weight: bold;">DRAWING NUMBER: RP-3500-B01</p> <p style="margin: 0; font-size: x-small;">SIZE: 11x17 SHT: 2 of 2</p>
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