ADVANCED SECURITY TECHNOLOGIES

AST

Bringing Advanced Technologies to the Security World

May 13th, 2024

William Davis
Police Captain
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REFERENCE: Modular Vehicle Barrier 3X System
Price Quotation: AST3X-72/72-320206-40-4B

Captain Davis,

It was a pleasure talking with you regarding the Modular Vehicle Barrier (MVB3X) System. Please find specifications and price information related to the entire system enclosed for your review.



A. Performance Based Specifications:

1. Must be US Department of Homeland Security Safety Act Designated
2. Barrier System must be certified to ASTM-F2656-15.
3. Barriers System must be certified to ASTM/PAS 68 & IWA standards.
4. Barrier System must be modular and adaptable to any road width.
5. Multiple traffic lanes of continuous coverage must be able to be assembled without the use of cables or ball/hitch connections. Cables cannot be used in a modular vehicle barrier perimeter.
6. Three points of connection via metal structure and pins are REQUIRED to connect the barriers to each other to ensure continuity in the barrier integrity and stopping capability.
7. The system must be an “open” design where no piece of metal is more than 18” x 24”. This ensures that no adversary can use a vehicle barrier system for cover and concealment.
8. The Barriers MUST be Safety Yellow in color for maximum visibility
9. Open and close a lane in less than ten seconds by a single person using no tools
10. One person to assemble, deploy and dismantle
11. Quick perimeter access in case of an emergency
12. No tools required for assembly
13. Zero maintenance

14. Individual Barrier Units must fold for easy carrying and storage

B. Modular Vehicle Barrier Product Specifications:

1. Barrier Units must be able to be deployed in increments of 2 feet or less to ensure it will fit any size roadway.
2. Each complete MVB3X unit must weigh less than 53 lbs.
3. Each unit dimensions: L~46.5", W~21", H~32".
4. Tools shall not be required. System is to be assembled with pins.
5. Barriers must have the ability to be folded for transportation.
6. MVB3X units must have the option to pivot and transition into an operational gate.
7. MVB3X units must have the option of slide wheels for lateral movement.
8. Barriers must be capable of quick deployment (less than a minute to deploy a single unit).
9. Barriers must be able to be deployed by one person.
10. Bottom edges of the barriers must be protected by aluminum covers (for pedestrian safety).
11. Barriers shall be capable of deploying from the road and onto a curb in one continuous line.
12. MVB3X units shall have multi-terrain capability.
13. MVB3X units shall not require any maintenance.
14. Magnetic sequential lights shall attach to MVB3X units.

C. MVB3X Transport Trailer Specifications:

1. The Trailer shall be made in the United States and comply with U.S. DOT regulations.
2. The Trailer must be New/Unused.
3. Trailer to include drip rails.
4. 72 MVB3X units + Pivots.
5. 72-unit Trailer will have 6 doors on each side.
6. Trailers shall be 20 feet long.
7. Trailer shall be 101.5" wide.
8. Trailer shall be tandem axel.
9. 14,000 lb. hauling capacity.
10. Electric brakes.
11. LED lighting.
12. 15,000 pound safety chain.
13. Trailer will come equipped with a 2 5/16" hitch.
14. Spare wheel + Tire ST225/75/R12 (6 Lug).
15. All containment steel shall be powder coated.
16. MVB3X barriers can be loaded/stored from both sides.
17. Each MVB3X unit has its own dedicated slot for safe transport.
18. Each MVB3X is locked in place for transport with secondary retainment system.
19. Unit shall have Stainless Steel latches & hinges.
20. Zinc coated steel rivet, zinc coated nuts & bolts.
21. Dedicated space for pivot units.
22. Each door has locks for safe storage. All keyed alike.
23. Single storage compartment shall be provided on the trailer. Each compartment shall be 24" tall x 35" deep x 96" wide. Compartment shall have dedicated slots for the pivot units.
24. Trailer shall be black in color.

D. Sequential Lighting Specifications

1. 24+ hours of continuous flash.
2. Charge all flares at once - 6 hour recharge time from completely dead battery.
3. Visible range of 3,000+ feet
4. RDS™ (Rapid Deployment System): Automatically turns on flare when removed from case.
5. 30,000 lbs crush strength.
6. Flare specification: Weight = .5 lbs.
   Dimensions: L = 4.25 in, W = 3.5 in, H = 1 in.
7. 10 Set specification: Weight with flares = 7 lbs,
   Dimensions: L = 11.7 in, W = 9.2 in, H = 1.2 in
   Includes: Carrying/Charging case, DC 12/24V car charger plug, AC wall charger plug

E. Pricing Information

72 Unit MVB3X System (Up to 10 Lanes of Coverage)

System Number	Description	Unit Price	Quantity	Extended
AST3X-72/72-320206-40-4B	72 MVB3X Capacity Fully Loaded Trailer Package	$179,209	1	**$179,209**

Single Trailer System Inventory

Description	QTY
MVB3X unit	72
Pivot system	32
Slide Wheels - fixed	2
Slide Wheels - rotating	6
Storage/Shipping Box	4
Set of 10 ICS Sequential Flares (Rechargeable)	4
Banner to cover 8 x MVB3X	4
Shipping of MVB's to your site	1
Trailer for up to 72 x MVB3X units plus pivots. Trailer will have 6 door on each side. Each section will be two rows of 3 sections tall	1
Shipping of Trailer to your site	1





F. Notes:

1. The number of pivots is based upon your specific operational requirements.
2. Slide wheels are used for the purposes of moving assembled sections of MVB3X laterally throughout an area of operation without requiring the end user to disassemble and re-assemble the section.
3. The quantity of individual components can be adjusted to meet budgetary and operational requirements.
4. Included On-Site Training. AST also provides a user's manual for the MVB3X and online access to instructional videos for all of the components of the system.

G. Terms & Conditions:

1. F.O.B – Destination. Shipping has been included in the above price.
2. Taxes are not included. Should any taxes are levied they will be paid for by the purchaser.
3. Delivery: 8-10 weeks ARO – depending on material availability.
4. Payment terms – TBD
5. Prices are valid for 90 days.
6. Purchase of equipment is subject to Advanced Security Technologies LLC standard terms and conditions.

Please do not hesitate to contact me should you require additional information.

Sincerely,



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