PROCUREMENT SPECIFICATION
MODEL SGC1000 CRASH RATED SWING GATE MANUALLY OPERATED

1.0 SCOPE

This specification defines the procurement of a DELTA MODEL SGC1000, CRASH RATED SWING GATE, consisting of a cable reinforced swing gate, support column buttresses, heavy-duty hinge assemblies and latching mechanism. The standard version is a manual unit that can be pushed into place by one person.

2.0 GENERAL CONSTRUCTION AND APPEARANCE

2.0.1 Gate Construction. The gate shall be an above grade assembly consisting of a steel weldment strengthened with a wire cable assembly of crash tested design, capable of being swung into a guard position either manually or with power assist. The guard position shall present a formidable obstacle to approaching vehicles. Upon impact, forces shall be first absorbed by the gate assembly and then transmitted to the supporting buttresses and the foundation.

2.0.2 The lower portion of the gate system shall constitute a cable crash beam designed to withstand the vehicle impact defined herein. The superstructure of the gate shall provide a solid framework to which, chain mesh and barbed wire materials can be attached as defined by the architect.

2.0.3 Gate height. Height of the Gate shall be 96.0 inches [2,4 m] as measured from the road surface to the top of the gate frame. (Gate can be optionally specified to a maximum height of 120 inches [3,1 M] or a minimum length of 36 inches [1,0 M].)

2.0.4 Gate Length. Gate length shall be suitable to close and protect a 240 inch [6,1 M] clear opening. (Gate can be optionally specified to a maximum length of 276 inches [7,0 M] or a minimum length of 72 inches [1,8 M].)

2.0.5 Finish. The Gate work and buttresses of the system shall be mechanically and chemically cleaned and painted with two coats primer gray of industrial enamel paint, per manufacture's specification, unless otherwise noted.

3.0 UNATTENDED SECURITY

The Model SGC1000 crash rated swing gate shall be manually locked in place with manual latch pins and provide padlock attachment points. An optional remotely controlled locking pin may be specified.

4.0 PERFORMANCE

4.1 Experience. Gate and auxiliaries shall be of proven design. Manufacturer shall have had similar Gates in field operation for a minimum of 5 years with documented field experience

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for all major components and design features.

4.2 Certifications. The manufacturer shall certify that a detailed finite element structural analysis has been conducted on each Barricade configuration and that the results of that analysis supports the specified stopping capacity of the system as defined in paragraphs 4.3.1 and 4.3.2. The analysis shall be based on underlying data gathered by the manufacturer from certified results of not less than ten successful full scale crash tests of similar, but not necessarily identical Gate and/or Barricade systems.

4.3 IMPACT RESISTANCE.

4.3.1 Crash Rated Swing Gate shall be designed to survive after successfully stopping vehicles(s) in the priority direction, weighing:

5,500 pounds at 30 mph

5.0 ENVIRONMENTAL DATA (Please supply the following data.)

5.1 Extremes in temperature
Yearly maximum drybulb temp _____f/c
Yearly minimum drybulb temp _____f/c

5.2 Rainfall
Yearly average _____inches
Maximum expected hourly rate_____inches/hour

5.3 Snowfall
Maximum expected hourly rate_____ inches/hour
Roadway will be (mechanically/manually/chemically)
cleared _____.

6.0 QUALITY ASSURANCE PROVISIONS

6.1 Testing. Upon completion, the Gate system will be fully tested in the manufacturer's shop. In addition to complete cycle testing to verify function and operating speeds, the following checks shall be made:

6.1.1 Identification. A nameplate with manufacturer's name, model number, serial number and year built shall be located in a protected and accessible area.

6.1.2 Workmanship. The Gate and subsystems shall have a neat and workmanlike appearance.

6.1.3 Dimensions. Principal dimensions shall be checked against drawings and ordering information.

6.1.4 Finish. Coatings shall be checked against ordering information and shall be workmanlike in appearance.

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7.0 PREPARATION FOR SHIPMENT

7.1 The Gate system shall be crated or mounted on skids as necessary to prevent damage from handling. The shipping container(s) shall be of sufficient structural integrity to enable the assembly to be lifted and transported by overhead crane or forklift without failure.

8.0 MANUFACTURER'S DATA

8.1 Drawings and installation data. The Gate system drawings and installation, maintenance and operating manuals shall be sent to purchaser within 4 weeks of order. ___ additional copies shall be supplied (1 copy supplied at no cost).

9.0 DISCLAIMER

Please note - careful consideration must be devoted to the selection, placement and design of a Barricade installation. Just as in the case of any Barricade system, perimeter security device or security gate that blocks a roadway or drive, care must be taken to ensure that approaching vehicle as well as pedestrians are fully aware of the Barricades and their operation. Proper illumination, clearly worded warning signs, auxiliary devices such as semaphore gates, stop-go signal lights, audible warning devices, speed bumps, flashing lights, beacons, etc. should be considered. Delta has information available on many such auxiliary safety equipment not specifically listed herein. It is strongly recommended that an architect and or a traffic and or safety engineer be consulted prior to installation of a Barricade system. Delta will offer all possible assistance in designing the operating equipment, controls and the overall system but we are not qualified nor do we purport to offer either traffic or safety engineering information.

10.0 PROCUREMENT SOURCE

The **Model SGC10000** Crash Rated Swing Gate Manually Operated shall be purchased from:

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