1.0 INTRODUCTION
This specification describes the caging requirements for a Braun Class ‘D’ Low Floor Minivan (Make/Model: Chrysler Entervan) to be utilized as an Inmate Security Transport Vehicle (ISTV). The van will be used by the California Department of Corrections and Rehabilitation (CDCR) for daily transport of inmate population. The ISTV shall be able to withstand the rigors of daily trips and vehicle inspections while transporting CDCR inmates.

This vehicle will be used by CDCR, a law enforcement agency, and is subject to all laws, rules and regulations of the State of California, Motor Vehicle Code and all Federal Motor Vehicle Safety Standards as applicable. The various seating arrangements allows for the transportation of up to four (4) inmates, one of them in a wheelchair, in a secured area and isolated from two (2) officers in the driver and front passenger seats.

The following terms shall be used throughout this document to reference key features and components that shall be fabricated and installed as needed:

- Front mounted partition one (1st position behind driver and front passenger)
- Sliding partition two (2nd position)
- Rear mounted partition number three with emergency exit (3rd position)
- Inside window guards
- Kick panels (positioned under rear bench seating)
- Gun rack (to hold one mini 14 rifle)

2.0 SCOPE OF WORK
The Braun Class ‘D’ Low Floor Minivan to be modified is equipped with a center fold away seat and a wheelchair ramp. Inmate seating shall be isolated from the driver and front passenger seats in an effort to provide a safe and secure environment for inmates while protecting onboard officers during transport.

Main Passenger Compartment Partitions: Main passenger compartment security partitions shall be fabricated of high quality steel and partially fitted with steel screening but must allow for maximum driver visibility. Security partitions, when noted, shall be fitted with clear plastic spit guards and allow for a 2” maximum clearance between steel members and edges.

Windows: Main passenger compartment windows shall be fixed to remain in the closed position. Interior window openings shall be fitted with high quality steel metal screening or security steel bars incorporated into partitions with no more than 6” apart.

Seat Belts and Seating Area: Seat belts shall be removed and returned to agency.

Main Compartment A/C Ventilation: All modifications need to allow ample ventilation for inmate seating area.

A. All seat belts behind the driver and passenger shall be removed and secured so as to not allow inmates access to seat belt components (Inmates have been known to use seat belts as weapons and self destruction tools). See California Vehicle Code sections 27302-27317 for law enforcement vehicles.

B. Partition One shall include clear Plexiglas shield installed over expanded metal grating at the top half section to isolate officers from inmates. The lower half of the partition shall be constructed of sheet metal (Refer to Exhibit B2 for photographs).

C. Sliding Partition Two shall be constructed using expanded metal grating without Plexiglas and with a track and roller assembly (Refer to Exhibit B1 for photographs).
D. Partition Three shall be constructed using expanded metal grating and shall have a lockable emergency exit (Refer to Exhibit B2 for photographs).

E. Window guards shall be mounted at hard points and bolted with tamper proof screws on the interior of the vehicle. Window guards shall be flush mounted to the interior and allow access for cleaning and sanitizing as necessary.

F. Kick panels shall be constructed from sheet metal and shall be installed under the rear seat as to “not allow” access from isolated seating areas.

G. Gun rack shall be installed between the driver and front passenger seats, for quick access. Gun rack shall be mounted so that the mini-14 rifle is set in upright position. Gun rack shall be a Big Sky Racks ELS 260, or equal.

3.0 MATERIAL REQUIREMENTS
All metal fabrication shall be adequately reinforced at all mounting joints and fastening areas where stress concentration may occur and adhere to the following specifications:

A. All manufactured components shall be of high quality steel construction, joined by fillet welding or tamper proof riveting and securely bolted to the interior of vehicle.
   - The frame construction of window guards and partitions shall be constructed out of square, one inch (1”) tube steel construction where joints are fillet welded all around and ground smooth. Material 1”x1” x13 GA (.095”). ASTM A-500 Grade B.
   - Sheet metal shall be of high quality 14 gauge (.0747”) metal.
   - Expanded metal grating shall be track welded to square tube construction at each end point projection of the grating material and welded all around the perimeter. Reference expanded metal (RYEX) 5-LB material, or equal. Alternate designs will be considered such as flat metal with 1” round holes as provided in examples. All welds and material shall be ground smooth and free of burs and sharp edges.

B. All manufactured components shall be powder coated in black and painted in areas to prevent corrosion and scuffing from normal usage.

C. The final size and construction will be determined during the submittal process, prior to the fabrication of any components.

D. Factory installed interior shall remain in the vehicle and areas that require additional security protection shall be constructed of a material of comparable color and strength, riveted in place, flush mounted and properly secured to the vehicle.

Additional security items for inmate seating can be addressed during the question and answer period of the IFB.
Exhibit B1: ISTV Example photos to illustrate current models in use with barn door set up and side step.

NOTE: SAMPLE PHOTOGRAPHS ARE OF 12-PASSENGER VANS AND SHOULD ONLY BE REFERENCED FOR SAMPLE PARTITION CONSTRUCTION, NOT VAN LAYOUT.

Inside view of passenger van with one slider partition in the open position and closed position.

Inside view of passenger van with slider partition and example of roller wheel set up with lock assy.

Inside view from rear of van looking at slider partition two in open position.

Slider partition two with roller assembly
Exhibit B2: ISTV Example photos to illustrate current models in use with barn door set up and side step.

Partition number three with emergency exit

Partition number one

Example of partition number one to the right with Plexiglas installed.

Partition one (on the right) has Plexiglas installed over diamond plate grate material at the top half section to isolate officers from inmates. Window guards are flush mounted with interior and can be cleaned under window guard. Partitions are built out of one inch square tube construction with diamond grate expanded metal (RYEX) 5-LB material. Sheet metal for lower section shall be of high quality 14 gage (.0747") metal and painted black.
Exhibit B3: ISTV Example photos to illustrate current models in use with barn door set up and side step.
Exhibit B4: ISTV Example photos to illustrate current models in use with barn door set up and side step

Example of diamond grate material used on 12 or 15 passenger vans with the slider door in the closed position. Window guards and slider door are constructed of same material with one inch square tube construction and diamond grate expanded metal material.

Example of flat material with one inch round holes for air circulation. Bids can include diamond grate expanded metal or the flat material as illustrated below.