LEVEL 9
Fixed
Steel Vantage-Wall Holding Cell
Model: S-HLD-S

PART 1 GENERAL

1.01 **Description**

Holding cells shown on the plans and herein specified are the products of Kane Innovations, Erie, Pennsylvania. This manufacturer's name and products have been used to establish the standards of construction and quality of workmanship required for this project. Manufacturers bidding on this project must be actively engaged in the fabrication of specified items for a minimum of five (5) years prior to the bid date. Manufacturers requesting approval to bid their products as equal must submit to the architect full-size drawings, including details of construction, and a complete operating holding cell sample, ten (10) days prior to the bid date. General contract bidders shall base their bids on the form, list separately, additions or deductions for substitutions of other approved holding cell products.

1.02 **Submittals**

A. Manufacturer shall submit shop drawings, showing details of attachment to surround materials and scale elevations showing scope of the project.

B. Samples of materials as may be requested without cost to owner: frame sections, woven rod panel, fasteners, mullion section, corner section, etc.

1.03 **Warranty**

The operation of the holding cell supplied by Kane Innovations on the designated project is warrantied for one (1) year against any proven defective material or parts, as called for in the specifications and approved shop drawings. This warranty does not cover abuse by others.

PART 2 PRODUCTS

2.01 **Acceptable Manufacturers**

Kane Innovations, Erie, PA
☎ (800) 773-2439

2.02 **Materials**

Each holding cell shall consist of a Vantage-Wall® cell front with fixed panels and hinged door, solid wall panels, solid ceiling panels and all fittings needed for a complete installation. Options include acoustical infill in wall panels for sound deadening and perforated ceiling panels with sound-deadening insulation.

2.03 **Main Frame**

The main frame shall be built-up tubular type, measuring 1 3/4" x 2 1/2", consisting of an open channel with fixed concealment plates. The open channel elements shall be formed of 13-gauge sheet steel and shall have individual slots along the inner edges to support the woven rod panel(s). Before installing the woven rod panels, the corners of the open channel elements shall be electric flash welded and dressed smooth. Braces (similar to the main frame) shall be furnished when required.

2.04 **Sub frame** (Doors only)

The sub frame shall be formed of 12-gauge steel unequal leg channel shape. The top corners of the sub frame shall be electric flash welded and ground smooth. A 13-gauge steel spreader bar shall be welded in across the bottom to complete the sub frame.

2.05 **Rods**

A. Woven rod shall be fabricated from double crimped, low carbon, mild steel 1/4" diameter rod, woven with 2" mesh.

B. Backing options:

1. Wire cloth shall be woven 12-mesh to the inch from .028-inch diameter Type 304 stainless steel wire and double crimped.
2. 20-gauge stainless steel perforated panel. Perforated plate shall cover the entire main frame and be attached along the inner and outer edges.

2.06 **Rod Attachment**

Woven rod panels shall be installed symmetrically into the slotted main frame. Slots shall be centered according to the rod pattern. Each rod shall penetrate into each slot where it contacts the main frame. Every other rod shall be welded into the slot at both ends where it penetrates the main frame.

2.07 **Concealment plates**

Concealment plates of 13-gauge steel shall be applied to the back of the main frame to complete the tubular shape. Concealment plates shall be welded to the fixed panels and blind riveted 8" on center to the doorframe.

2.08 **Solid Wall Panels**

Wall panels of 13-gauge formed steel channels 20" wide with internal stiffeners. Cover plate of 13-gauge steel attached over back panel. Panels shall be filled with sound deadening insulation.

2.09 **Solid ceiling**

Ceiling panels of 13-gauge formed steel channels 20" wide with preparation for light fixtures as required.

2.10 **Fitting pieces**

Fitting of 13-gauge formed steel channel shapes welded back to back for mullion joints and welded to form corner joints shall be supplied for connection of wall panels with wall panels and ceiling panels and shall include anchor screw and adjusting screws as required. Fittings of 13-gauge formed steel channels shall be supplied for connection with existing floor or walls and shall include screws and anchors as required.

2.11 **Finish**

All interior and exterior surfaces of the main frame, rods and concealment plates shall be thoroughly cleaned in a 5-step bonderizing process. The surfaces shall receive an electrostatically applied thermoplastic, polyester powder coating which shall be applied and baked to a hard mar-resistant finish in one of Kane's standard colors.

2.12 **Hardware**

A. Concealed type hinges of electroplated steel with 1/4" diameter loose brass pins and integral compression guards.

B. Locking system consisting of four (4), 1/2" diameter casehardened steel bolts operating simultaneously from a Kane 107® Bitt key lock. All locking hardware shall remain completely concealed when the unit is in either the open or closed position.

PART 3 EXECUTION

3.01 **Inspection**

Verify that openings fit allowable tolerances, are plumb, level, provide a solid anchoring surface and comply with approved shop drawings.

3.02 **Installation**

A. Install in accordance with approved shop drawings and specifications.

B. After completion of installation, holding cells shall be adjusted, in working order and clean.