REPUBLIC EMERGENCY RESPONSE LOCKER SPECIFICATIONS

SECTION 10500 - METAL LOCKERS

PART 1- GENERAL

1.1 RELATED DOCUMENTS:

We suggest use of your standard office reference to drawing, general and special conditions, etc.

1.2 SCOPE:

Furnish and install new steel lockers, accessories and finish metal trim as shown or indicated on approved drawings. Concrete or masonry bases, wood furring, blocking or trim as may be required by drawings are included in other sections of this specification.

1.2.1 SUBMITTALS:

Shop Drawings: Submit drawings showing locker types, sizes and quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.

Numbering: The locker numbering sequence shall be provided by the approving authority and noted on approved drawings returned to the locker contractor.

Color Charts: Provide color charts showing manufacturer's available colors. Request samples of paint on metal if required by normal office procedures or in the event of non-standard color selection.

Lock Combination Listings and Master Keys: Use only when combination locks are specified. Delivered directly to the owner's representative.

1.3 QUALITY ASSURANCE:

1.3.1 UNIFORMITY: Provide each type of metal locker as produced by a single manufacturer, including necessary accessories, fittings and fasteners.

1.3.2 JOB CONDITIONS: Do not deliver metal lockers until building is enclosed and ready for locker installation. Protect from damage during delivery, handling, storage and installation.

PART 2- PRODUCTS

2.1 MANUFACTURER:

Republic Storage Products, LLC. Products by other manufacturers may be approved provided they meet the detailed specifications written below. Approval procedure to be as specified in the General Conditions of these locker specifications.

2.2 LOCKERS:

Type: Emergency Response

Size: Width: 24, 30, 36 Depth: 24 Height: 72

Color:

No. of Locker Frames:

No. of Locker Openings:

2.3 FABRICATION - GENERAL

2.3.1 MATERIAL: All major steel parts shall be made of mild cold rolled steel, free from imperfections and capable of taking a high grade enamel finish.

-ALTERNATE: Specified locker components shall be manufactured from Galvannealed steel and finished by manufacturer's standard process.

2.3.2 FINISH: Surfaces of the steel to be thoroughly cleaned and phosphatized in a seven-stage process. All parts are then finished with a heavy coat of enamel, baked on at 300 degrees for 30 minutes.

2.3.3 CONSTRUCTION: Lockers shall be built on the unit principle, each locker shall have an individual door and frame, an individual top, bottom, back and shelves with common intermediate uprights separating units. Assembly of all locker components shall be by riveting with a backup washer to provide shake-proof permanent fastening while still permitting fastener removal by drilling to allow future rearrangement of lockers or replacement of damaged parts.

-ALTERNATE 1: Keps nuts and bolts may be used for assembly.

-ALTERNATE 2: Lockers shall be pre-assembled of welded construction conforming with job requirements. All welds shall be smooth and without burrs. No nuts, bolts, or rivets shall be allowed in assembly of main locker groups. Optional Locked Compartment, Foot Locker, Vertical Partition, Half Shelves, and/or Drawer are not welded into assembly.

2.3.4 DOOR FRAMES: Door frames shall be 16 gauge formed into 1" wide face channel shapes with a continuous vertical door strike, integral with the frame on both sides of the door opening. Top and bottom cross frame members of 16 gauge channel shapes shall be securely welded to vertical framing members to ensure a square and rigid assembly. A doorstop shall be provided at the top and bottom frame to prevent doors from swinging past the face of the frames.

2.3.5 DOORS: Each Locker shall have double door configuration with left and right hand doors each formed from one piece 14 gauge cold rolled sheet steel. Both doors shall have channel formation on the hinge side and right angle formations across the top and bottom. The latch side of left door shall have 3 frame hooks for engagement of lock bar as well as two spring-loaded cams that engage and disengage into top and bottom frames when the right door is opened and closed. There shall also be a full height flange to serve as door strike for right door. The left side of right door shall have channel formations of adequate depth to fully conceal the lock bar. Doors shall have diamond shaped perforations 3/4" wide by 1-1/2" high to provide free airflow while leaving sufficient metal for rigidity and strength.

-ALTERNATE: Lockers shall be provided as open front frames without full height doors.

2.3.6 DOOR REINFORCEMENT: Each door shall be reinforced with a 16 gauge by 7/8" wide hat shaped channel welded to inside face of door. Reinforcement shall be located in solid area on each door between diamond perforations.

2.3.7 PRE-LOCKING DEVICE: Except for turn handle configuration, Lockers shall be equipped with a positive automatic pre-locking device whereby the locker may be locked while door is open and then closed without unlocking and without damaging locking mechanism.

2.3.8 LATCHING: Latching shall be a one-piece, pre-lubricated spring steel latch, completely contained within the lock bar under tension to provide rattle-free operation. The lock bar shall be of pre-coated, double-channel steel construction. The lock bar shall be securely contained in the door channel by self-lubricating polyethylene guides that isolate the lock bar from metal-to-metal contact with the door. There shall be three latching points of the right door to left door. The lock bar travel is limited by contacting

resilient high-quality elastomeric cushioning devices concealed inside the lock bar. Frame hooks to accept latching shall be of heavy gauge steel, set close in and welded to the door. Continuous vertical door strike shall protect frame hooks from door slam damage. A soft rubber silencer shall be securely installed on each frame hook to absorb the impact caused by closing of the door. A Latch Guard steel plate shall be welded on each frame hook.

- ALTERNATE: Turn Handle: Lockers can also be equipped with a three point latching turn handle that provides latching rod engagement at the top and bottom cross frames and a 1" wide center latch engaging the vertical locker jamb.

2.3.9 HANDLES - A non-protruding 14 gauge lifting trigger and slide plate shall transfer the lifting force for actuating the lock bar when opening the door. The exposed portion of the lifting trigger shall be encased in a molded ABS thermoplastic cover that provides isolation from metal-to-metal contact and be contained in a formed 20 gauge stainless steel pocket. This stainless steel pocket shall contain a recessed area for the various lock types available and a mounting area for the number plate.

-ALTERNATE: Turn Handle: Tiered athletic lockers can also be equipped with an externally mounted turn handle compatible with both padlocks and built-in dead bolt locks.

2.3.10 HINGES: Hinges to be 2" high, 5-knuckle, full loop, tight pin style, securely welded to frame and riveted to the inside of the door flange. Hinges are attached with two rivets. Each door shall have three hinges.

2.3.11 BODY: Locker body components shall be made of cold rolled steel specially formed for added strength and rigidity and to ensure tight joints at fastening points. 16 gauge side uprights are perforated with diamond shaped openings 3/4" wide by 1 1/2" high for maximum ventilation. Diamond pattern shall be located between the lower shelf and the clothes hooks. Solid steel sections shall occur at the locked compartment above the upper shelf and below the lower shelf or hinged seat to provide closed compartments. Locker backs shall be 18 gauge steel with right angle flanges on each vertical side for stiffness, ease of assembly and corner rigidity (16 gauge backs with optional welded construction). Tops, bottoms, shelves and compartment dividers shall be 16 gauge steel, fully flanged on all sides for added stiffness. Shelves shall have an additional return flange on the front edge creating a channel shape to make the impact surface rigid. Locker bottom will have an integral door strike and rubber silencer to provide both a kick-resistant door stop and a smooth surface for loading equipment. Locker bottom shall be reinforced underneath with a 16 gauge 1½" tall channel. All locker components are finished in the same color.

2.3.12 INTERIOR EQUIPMENT: Lockers shall be equipped with one full width shelf located a nominal 12 3/4" down from the top of the locker and having a 13 3/4" nominal depth. The locker shall be equipped with four single-prong clothes hooks, one mounted on each side and two mounted on the locker back. In addition, a coat rod shall be provided for the full width of the locker.

-ALTERNATE: Optional Drawer: The bottom portion of the locker shall have a full width, enclosed drawer. The drawer shall be fabricated and welded into a square and rigid assembly composed of 16 and 18 gauge panels. Drawer shall be mounted on ball-bearing drawer slides rated at 200 pound capacity. Drawer slides to be three piece full-extension slide with rubber cushioned stop for quiet operation and no less than 54 ball bearings per slide to ensure smooth and long-lasting operation. The top of the drawer case shall be a 16 gauge shelf with a 16 gauge channel reinforcement that will allow it to be used as a seat. The top of this seat shall be up 15" from the bottom of the locker. The front of the drawer shall be formed into an integral handle pull. Brackets and holes shall be provided to use either a built-in keyed cylinder cam lock or a padlock. There shall also be provision for adding optional dividers to partition the space within the drawer.

-ALTERNATE: Optional Locked Compartment: Shall consist of a 16 gauge vertical partition extending from the 13 3/4" deep, full width shelf to the locker top, forming a security box on the left side of the shelf. Channel-shaped, 16 gauge framing members complete the door opening. The locked compartment door shall be 14 gauge steel with right angle flanges on all four sides. The door latch shall be a protruding padlock hasp and a stainless steel strike plate with an integral handle. The door shall be punched to accept built-in combination or key locks. The door shall also be equipped with two spring-loaded hinges to hold it closed for safety purposes. Locked compartment available as 12" or 24" wide.

-ALTERNATE: Optional Foot Locker: The bottom portion of the locker shall have a full width, enclosed foot locker with a hinged lid that also serves as a built-in seat. This option is only available for lockers without full-height doors. The front panel of the foot locker shall be 14 gauge steel with right angle flanges on the two sides and bottom which attach the panel to the locker frame. The front panel shall also have a channel shaped top flange which supports the hinged seat/lid. The face of the front panel to be fully punched with mini-louvers on either side of a recessed opening that accepts a padlock hasp mounted on the hinged seat/lid. The recessed opening shall contain a stainless steel strike plate and have a tapered bottom flange for number plate mounting. The hinged seat/lid shall be 14 gauge steel with right angle flanges on the sides and rear, and channel-shaped flanges across the front. The seat front shall be further reinforced with a 16 gauge box formation running side to side on which are mounted four rubber bumpers that bear on the top channel of the front panel. An additional 16 gauge reinforcing angle shall be welded to the underside of the lid midway between the front box formation and the rear flange. The seat/lid shall have a full width, continuous hinge riveted to the rear flange and welded to a 16 gauge channel-shaped hinge post attached to the locker back and sides. Two channel-shaped side fillers shall be mounted to the locker sides to provide supporting flanges along the sides of the seat/lid.

-ALTERNATE: Optional Vertical Partition and Half Shelves: A 16 gauge vertical partition shall be provided to divide the interior space. It shall be located in the center of the locker running from under the upper shelf to either the bottom of the locker or down to the top of the lower shelf. This partition shall be flanged and fastened at the top and bottom, and a full height double bend at the front shall ensure both rigidity and safety. Optional half width shelves can be spaced approximately 11" apart, on either side of the partition, to provide additional divisions of space. When using the partition and half shelves, the coat rod is only half the width of the locker.

2.3.13 NUMBER PLATES: Each locker shall have a polished aluminum number plate with black numerals not less than 1/2" high. Plates may be riveted to the shelf face with two rivets and on the full height locker door, if provided.

2.3.14 COLOR: Frames and all body parts shall be finished in colors selected from Republic's collection of twenty-five colors.

-ALTERNATE: Specifier may modify above paragraph if non-standard custom colors are selected.

PART 3- EXECUTION

3.1 INSTALLATION: Lockers must be installed in accordance with manufacturer's approved drawings and assembly instructions. Installation to be level and plumb with flush surfaces and rigid attachment to anchoring surfaces.

Space fasteners at 36" O.C. or less as recommended by manufacturer. Use fasteners appropriate to load and anchoring substratum. Use reinforcing plates wherever fasteners could distort metal.

Various trim accessories where shown such as sloping tops, fillers, bases, recess trim, etc., shall be installed using concealed fasteners. Flush, hairline joints are provided at all abutting trim parts and at adjoining surfaces.

3.2 ADJUSTMENT: Upon completion of installation, inspect lockers and adjust as necessary for proper door and locking mechanism operation. Touch up scratches and abrasions to match original finish.

3.3 QUALITY ASSURANCE: Republic reserves the right to modify the design and/or change specifications or colors/finish consistent with our policy of product excellence.