PART 0 A/E INSTRUCTIONS

0.01 GENERAL DESIGN REQUIREMENTS

A. Architect shall coordinate with the DPS Project Manager the type, layout and size of lockers required on the project.

B. Varsity athletic Lockers shall be fully vented on all sides and be used only for varsity athletic lockerooms, not for P.E.

C. Architect shall coordinate locker installations with both the Children's and Adult ADA guidelines, depending on the project.

D. Architect shall specify locations of fire treated blocking required by locker installation that are attached to walls.

E. Architect shall specify type of base to be provided and provide details for mounting.

F. All locker doors shall be free of any obstructions.

G. Architect to coordinate depth of locker and cavity depth when using recessed conditions.

H. All lockers not recessed are to receive sloped tops.

I. Provide not more than six separate colors in a single school.

J. No open leg lockers shall be permited.

K. Minimum locker dimensions for lockers:

1. Standard locker: 15"W x 18"D x 72"" high single tier.
2. Varsity athletic locker: 18"W x 18"D x 72" high single tier.
3. P. E. locker: 18" W x 18" D x 72" high double tier

L. Consult with DPS Project Manager for locker sizes and layouts

PART 1 GENERAL No standards

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. DeBourgh Manufacturing Co.

B. Penco

C. List Industries, Inc.

D. Lyon Metal Products, Inc.

E. Republic Lockers.

2.02 MATERIALS

A. Sheet Steel: ASTM A653, Grade B, galvanized to G90 coating; cold-rolled steel.

B. Standard Corridor/personell/wardrobe : locker minimum standards:

1. Body : 16-gauge.
2. Door: 14-gauge. Provide no fewer that six (6) louver openings at top and bottom.
3. Doorframe: 16-gauge.
4. Hinges: 14-gauge five-knuckle: 18-gauge continuous: or nut and bolt connected hinges.
5. Sloping top and trim: 18-gauge with horizontal intermediate bracing at each locker for dimensions more than 6" wide. 1'-6" o.c. in the vertical directions.
6. End panels: 16-gauge.

7. Latch hooks: 12-gauge, form from steel, welded or riveted to doorframes. Projecting surface mounted lift handle and latch: manufacturer's standard three-point tamper guard latch, consisting of two (2) steel rods or bars engaging frame at top and bottom, and center latch engaging strike jamb.
8. Bottom: 18 gauge.
9. Shelf. 18 gauge.
10. Cross frames: 16-gauge.
11. Filler panels: 18-gauge.
12. Surface mounted combination locks.
13. Shelves: provide hat shelf, fabricated from steel sheet

C. P.E. Locker: all welded, locker minimum standards:

1. Body and shelf: 16-gauge steel sheet.
2. Door : 14-gauge with net louvered vent area of no less than 25 percent of gross door surface area with minimum perforations as follows:

   a). In double tiers - no fewer than three (3) louver openings at top and bottom .
3. Doorframe: 16-gauge or steel sheet channels or steel angles.
4. Bottom: 16-gauge.
5. Hinges: 14 gauge heavy duty steel, full loop, five or seven knuckle; tight pin; minimum 2” high. Weld to inside of doorframe. Provide at least three (3) or more hinges for each door more than 42” high and at least two (2) or more hinges for each door 42” high or less.
6. Sloping top and trim: 16-gauge, providehorizontal intermediate bracing at each locker
7. End panels: 14-gauge. Provide horizontal intermediate bracing for dimensions more than 6” wide, 16” o.c. in vertical dimensions.
8. Filler panels: 16-gauge.
9. Shelves: provide hat shelf, fabricated from steel sheet.
10. Provide surface mounted combination locks.
11. Latch hooks: 12-gauge, form from steel, welded or riveted to doorframes. Projecting surface mounted lift handle and latch: manufacturer's standard three-point tamper guard latch, consisting of two (2) steel rods or bars engaging frame at top and bottom, and center latch engaging strike jamb.
12. Locks: Built in combination locks with key activated combination change.

D. Varsity Athletic Locker:all welded.locker minimum standards:

1. Body and shelf: 16-gauge steel sheet.
2. Door: 14-gauge with net vent area of no less than 50 percent of gross door surface area with perforations.
3. Expanded metal backs- form from expanded metal; welded to steel angle or steel channel frame.
4. Expanded metal sides and intermediate partitions; form from expanded metal; welded to steel angle or steel channel frame. Provide minimum 50% free area.
5. Doorframe: 14-gauge steel sheet channels or steel angles.
6. Hinges: 14-gauge. heavy-duty steel, full loop, five or seven knuckle; tight pin; minimum 2” high. Weld to inside of doorframe and to door. Provide at least three (3) hinges for each door more than 42” high and at least two (2) hinges for each door 42” high or less
7. Sloping top and trim: 16-gauge.

8. End panels: 14-gauge w/ horizontal reinforcing at maximum 16” on center.
9. Filler panels: 14-gauge w/ horizontal reinforcing at maximum 16” on center
10. Bottom: 16-gauge.
11. Shelves: provide hat shelf in single-tier units, fabricated from steel sheet
12. Latch hooks: 12-gauge, form from steel, welded or riveted to doorframes. Projecting surface mounted lift handle and latch: manufacturer's standard three-point tamper guard latch, consisting of two (2) steel rods or bars engaging frame at top and bottom, and center latch engaging strike jamb.
13. Provide combination padlocks (1 per locker) with master keyed backs for each,

E. Corridor/Personnel (K/D)

1. Body: form backs, tops, bottoms, sides, and intermediate partitions from steel sheet; flanged for double thickness at back vertical corners.
2. Frames: form channel frames from steel sheet; lapped and welded at corners. Form continuous integral door strike on vertical frame members. Provide resilient bumpers to cushion door closing.
3. Latch hooks: form from steel; welded or riveted to doorframes.
4. Cross frames: form intermediate channel cross frames between tiers from steel sheet. Weld to vertical frame members.
5. Doors: One-piece steel sheet, formed into channel shape at vertical edges and flanged at right angles at top and bottom edges. Fabricate to prevent springing when opening or closing, and to swing 180 degrees.
6. Reinforcement: brace or reinforce inner face of doors more than 15” wide.
7. Acoustical treatment: fabricate lockers for quiet operation with manufacturer's standard rattle-free latching mechanism and moving components isolated to prevent metal-to-metal contact.
8. Louvered vents: stamped, louvered vents in door face.
   a) Single-tier lockers: no fewer than six (6) louver openings at top and bottom.
   b) Double-tier lockers: no fewer than three (3) louver openings at top and bottom.

F. Alternate

1. See latching specification below for door construction option associated with single-point latching.

G. Shelves: provide hat shelf in single-tier units.

H. Hinges

1. Steel, full loop, five or seven knuckle; tight pin; minimum 2” high. Weld to inside of doorframe and attach to door to each hinge with at least two (2) factory-installed fasteners that are completely concealed and tamper-resistant when door is closed.
2. Provide at least three (3) hinges for each door more than 42” high and at least two (2) hinges for each door 42” high or less.
3. Option: continuous 18-gauge hinge.

I. Recessed Handle and Latch

1. Manufacturer's standard housing, formed from nickel-plated steel or stainless steel, with integral door pull, recessed for latch lifter and locking devices; non-protruding latch lifter; and automatics, pre-locking, pry-resistant latch.
   a) Provide minimum three-point latching for each door more than 42” high; minimum two-point latching for each door 42” high or less.

b) Three-point Cremonie-type latch shall consist of two (2) steel rods or bars engaging frame at top and bottom, and center latch engaging strike jamb.

2. Alternate locker latching mechanisms: provide single-point latching with locker doors that are double-faced with reinforced core.

J. Locks

1. Built-in combination locks: key-controlled, three-number dialing combination locks; capable of at least five combination changes made automatically with a control key.

2. Latching mechanism shall permit doors to be closed and latched with lock in locked position.

2.03 LOCKER ACCESSORIES

A. Interior equipment: furnish each locker with the following items, unless otherwise indicated.

1. Hooks: manufacturer's standard zinc-plated, ball-pointed steel. Provide one double-prong ceiling hook, and not fewer than two single-prong wall hooks for single, double, and triple-tier units. Attach hooks with at least two (2) fasteners.

2. Number plates: manufacturer's standard etched, embossed, or stamped aluminum number plates with numerals at least 3/8" high. Number lockers in sequence as coordinated with the DPS Project Manager. Attach plates to each locker door, near top, centered, with at least two (2) aluminum rivets.

3. Integrated or free standing post-mounted, fixed locker bench at P.E. and varsity athletic lockers.

a). Wood surface

b). Steel surface matching finish of locker.

2.04 FABRICATION

A. Corridor/personell/wardrobe lockers (knocked down construction): fabricate lockers for nominal assembly at project site.

B. P.E. and Varsity Athletic Lockers (All-Welded Construction): pre-assemble lockers by welding all joints, seams, and connections; no bolts, screws, or rivets shall be used in assembly. Grind exposed welds flush. Connection of door to hinges to be securely fastened with a minimum of two (2) factory-installed rivets per hinge.

C. Fabricate lockers square, rigid, and without warp, with metal faces flat and free of dents or distortion. Make exposed metal edges free of sharp edges and burrs, and safe to touch. Weld frame members together to form a rigid, one-piece assembly.

2.05 FINISHES

A. Powder-Coated Finish- Immediately after cleaning and pre-treating, electrostattically apply manufacturer's standard backed polymer finish consisting of thermosetting power topcoat. Comply with paint manufacturer's written instructions for applying and baking to achieve a minimum dry film thickness of 2 mils (0.05").

1. Select from manufacturer's standard colors. (Maximum of six per school).

Part 3 EXECUTION

3.01 INSTALLATION

A. Install metal lockers and accessories level, plumb, rigid, and flush according to manufacturer's written instructions.

B. Adjust hardware and doors after installation for proper operation.

C. Anchor lockers to floors and walls at intervals recommended by manufacturer, but not more than 30" on center and at each end. Install anchors through backup reinforcing plates where necessary to avoid metal distortion, using concealed fasteners.

D. Fit exposed connections of trim, fillers, and closures accurately together to form tight hairline joints to lockers and surrounding construction with concealed fasteners and splice plates.

E. Provide fasteners appropriate to the substrate and as approved by the DPS Project Manager.

F. Each anchor must withstand a pull of 200 lbs. of force on all sides and locations.

G. Coordinated Blocking requirements per section 06100.

3.02 ADJUSTING, CLEANING, AND PROTECTION

A. Adjust doors and latches to operate easily without binding. Verify that integral locking devices operate properly.

B. Clean interior and exposed exterior surfaces, and polish stainless steel and nonferrous metal surfaces.

C. Protect lockers from damage, abuse, dust, dirt, stain or paint. Do not permit locker use during construction.

D. Touch up all damaged finishes to factory level finish, or replace locker units that cannot be restored to factory finish appearance. Use only materials and procedures recommended or furnished by locker manufacturer.

3.03 SPARE PARTS

A. Provide the following for each type of locker provided:

1. Combination locks- 5% of total, but not less than 10 units.
2. Full Latch Mechanism- 5% of total, but not less than 10 units.
3. Door strikes - 5% of total, but not less than 10 units.
4. Locking bars- - 5% of total, but not less than 10 units.
5. Hinges - 5% of total, but not less than 10 units.
6. Hooks - 5% of total, but not less than 10 units.
7. One dozen master keys- delivered to DPS Project Manager only.

END OF SECTION 10500