DIVISION 10 - SPECIALTIES

A. VISUAL DISPLAY BOARDS

1. Marker board and tack board sizes as well as horizontal and vertical mounting details shall be clearly indicated on plans. Unless otherwise noted and approved, marker boards and tack boards shall be 48" high and mounted as follows:

    a. Top of board at 7'- 0" above finish floor in high school classrooms, offices, and meeting rooms
    b. Top of board at 6' – 8" above finish floor in middle school classrooms
    c. Top of board 6'- 6" above finish floor in elementary grade school classrooms
    d. Top of board at 5'- 8" above finish floor in kindergarten and preschool classrooms

2. Preferred marker board size is 8' – 0" wide x 4' – 0" high
3. Preferred tack board size is 4' – 0" wide x 4' – 0" high
4. When "SMART BOARDS" are specified and provided, coordinate specific mounting details for smart boards, marker boards, and tack boards with Owner. Smart boards are furnished by Owner and installed by Contractor unless otherwise noted.
5. Materials:

    a. Marker board surface shall be minimum 28 gauge fused surface porcelain enamel steel facing sheet factory laminated to a 1/2" fiberboard core with foil backing as manufactured by ADP Lemco or equal. Color shall be white.
    b. Writing surface characteristics shall be equal to the latest edition of Performance Specifications for Porcelain Enamel Chalkboards published by the Porcelain Enamel Institute.
    c. Marker boards should be furnished in single sheets up to 12 feet long. Where longer boards are required they should be jointed using butt joints with adequate backing to provide a firm surface on each side of the vertical joint.
    d. Marker boards and tack boards shall be furnished and installed with manufacturer's pre-framed extruded aluminum trim in clear anodized finish.
    e. Marker boards shall be furnished and installed with manufacturer's continuous aluminum display/chalk rail capped on each end.
    f. Tack boards should be equal to ADP Lemco "C" series cork bulletin boards, ¼" thickness with burlap back on ¼" hardboard substrate. Tack boards shall be furnished and installed with manufacturer's pre-framed aluminum trim in clear anodized finish.
    g. All marker boards and tack boards shall be installed in accordance with the manufacturer's instructions and shall be installed perfectly level and shimmed to be completely rigid.
    h. Manufacturer's written lifetime marker board surface warranties shall be provided.

B. TOILET ROOM PARTITIONS

1. Metal Toilet Partitions. Metal toilet partitions shall be enameled steel, floor supported type F/S partitions as manufactured by All American Metal Corp. or approved equal.
2. All mounting hardware for toilet partitions shall be chrome plated or stainless steel.
3. Toilet partitions should be rigidly installed plumb and level, complete with all fastening devices in strict compliance with manufacturers printed instruction. Solid wood backing must be provided in all gyp board partition walls. Expansion bolts may be used for connection into masonry partitions.
4. Shop drawings shall be required for this section and should include brochures including full specifications, and color chips of all manufacturer's standard colors.

C. TOILET ROOM ACCESSORIES

Toilet room accessory specifications change periodically due to District's annual paper product purchase arrangements. Typically, CSSD #11 will furnish toilet tissue dispensers, paper towel dispensers, and soap dispensers unless otherwise noted. All products furnished by CSSD #11 shall be installed by Contractors.

1. Toilet room accessories to be furnished and installed by Contractor:

    a. Electric hand dryers shall be provided and installed in all student and multi-stall public restrooms. Electric hand dryers should be equal to GX series hand dryers by American Air, model GX3-M 208-240 volt, 6 amp, 1500 watt, 50/60 Hz dryer in white on steel finish. Provide minimum of one electric hand dryer for each public restroom area or one hand dryer per 3 lavs.
    b. Contractor shall furnish & install one Frankin Brass model #1985 or equal stainless steel sanitary napkin receptacle per stall in all multi-stall restrooms in middle schools, high schools, District offices, and other District public and athletic facilities. One sanitary napkin receptacle shall also be provided for all single use and faculty toilet rooms designated for women only.
    c. Mirrors should be No. 1 quality 1/4" polished plate glass with electro-copper back. Back sheet should be 23 gauge galvanized steel and shall have theft-proof mounting devices. Edge trim should be 1/2" wide 18 gauge stainless steel. Unless otherwise noted, mirrors shall be 18" wide x 30" high. For handicap requirements, use taller or lower mirrors instead of tilt mirrors.
    d. Provide one 48" long book shelf in each boys and girls toilet room, preferably with hooks below.
    e. Provide 1-1/2" stainless steel grab bars equal to Bobrick B-6806 series sized and located as per ADA requirements.
    f. Provide one each polished chrome or stainless steel coat/bag hook inside of each toilet compartment.

2. Toilet Accessories to be furnished by Owner and installed by Contractor (unless otherwise noted)

    a. Toilet paper holders (one per toilet)
    b. Paper Towel Dispensers (typically one in classrooms with sinks, one in each single use restroom, and one/3 sinks in public restrooms unless otherwise noted)
    c. Soap dispensers (typically one per single use restroom and one/2 sinks in public restrooms)

3. Free-standing waste receptacles will be supplied, uncrated, and placed by the Owner.

D. LOCKERS

All locker specifications and installations to be job-specific with sizes and functions defined by programmatic needs. District Project Manager (COTR) shall collaborate with District staff to determine and provide job-specific requirements for Architects and Contractors. In General:

1. Student Corridor Lockers:

    a. Provide "quiet style" sloped top at all wall-mounted locations.
    b. Construct doors and frames of pickled, cold-rolled and patent leveled sheet steel.
    c. Construct doors of 14-gauge cold-rolled sheet steel adequately flanged. Weld all flanges together at corners.
    d. Frames to be constructed of 16-gauge steel formed into face channel shapes. Body may be constructed of 24-gauge material. Tops, bottoms, and tier dividers shall be constructed of 20-gauge steel.
    e. Provide prefinished 16-gauge end panel at all exposed ends.

f. Provide positive automatic type latching device whereby locker may be locked while door is open then closed without unlocking and without damaging locking mechanism. Provide 3 latching points for single tier lockers and 2 latching points for multi-tier lockers.
g. All lockers shall be furnished with built-in Master combination locks #1630.
h. Provide 5 knuckle hinges – 2ea/door up to 42" high and 3ea/door for doors exceeding 42" high.
i. Provide one each zinc plated double prong back hook and two (2) each zinc plated single prong wall hooks in each locker. All hooks shall be attached with two (2) bolts or rivets.
j. Each locker shall be provided with polished aluminum number plates, aluminum background with etched numerals not less than ½" high. Plates shall be attached with split rivets. Coordinate locker numbering with Owner prior to fabrication.
k. Finish lockers with a heavy coat of high-quality baked on enamel. Prior to application of enamel finish, all painted surfaces shall be phosphatized in a five (5) stage process to inhibit corrosion and increase the durability of the applied enamel.

2. Physical Education and Athletic Lockers:

a. Provide sloped top at wall-mounted locations.
b. Construct doors and frames of pickled, cold-rolled and patent leveled sheet steel.
c. Construct doors of diamond-perforated 14-guage single piece cold-rolled sheet steel. Weld all flanges together at corners.
d. Frames to be constructed of 14-gauge steel formed into face channel shapes. Body may be constructed of 24-gauge material. Tops, bottoms, and tier dividers shall be constructed of 20-gauge steel.
e. Provide prefinished 14-gauge end panel at all exposed ends.
f. Provide positive automatic type latching device whereby locker may be locked while door is open then closed without unlocking and without damaging locking mechanism. Provide 3 latching points for single tier lockers and 2 latching points for multi-tier lockers.
g. Door handles shall be fully recessed with finger lift control.
h. All lockers shall be furnished with built-in Master combination locks #1630
i. Provide 5 knuckle hinges – 2ea/ door up to 42" high and 3ea/ door for doors exceeding 42" high
j. Provide one each zinc plated double prong back hook and two (2) each zinc plated single prong wall hooks in each locker. All hooks shall be attached with two (2) bolts or rivets.
k. Each locker shall be provided with polished aluminum number plates, aluminum background with etched numerals not less than ½" high. Plates shall be attached with split rivets. Coordinate locker numbering with Owner prior to fabrication.
l. Finish lockers with a heavy coat of high-quality baked on enamel. Prior to application of enamel finish, all painted surfaces shall be phosphatized in a five (5) stage process to inhibit corrosion and increase the durability of the applied enamel.

3. Pool Lockers

a. Pool lockers shall be constructed of high density polyethylene with homogenous color and matte finish texture.
b. Doors shall be constructed of ½" high density polyethylene and shall have ventilation slots.
c. Frames to be constructed of ½" high density polyethylene. Frames shall be welded to the locker box. Sides of frames shall form a continuous door strike.
d. Provide positive automatic type latching device whereby locker may be locked while door is open then closed without unlocking and without damaging locking mechanism. Provide 3 latching points for single tier lockers and 2 latching points for multi-tier lockers.
e. All lockers shall be furnished with built-in Master combination locks #1630.

f. Sides, tops, bottoms, and dividers shall be constructed of 3/8" high density polyethylene. Sides and back of box to be formed from a single sheet of HDPE with fused corners.
g. Provide fillers, end caps, and trim pieces as required for specific installation.
h. Provide 1ea polycarbonate hook per locker.
i. Each locker shall be provided with polished aluminum number plates, aluminum background with etched numerals not less than ½" high. Plates shall be attached with split rivets. Coordinate locker numbering with Owner prior to fabrication.
j. Owner to select from manufacturer's standard color selections.

4. Installation:

a. Lockers shall be installed by factory trained skilled installers with previous experience in locker installations.
b. Lockers should be securely fastened to wall and to each other at top and bottom in accordance with manufacturer's recommendations. Furnish and install any additional anchoring devices as may be necessary to complete the installation in a satisfactory manner.
c. Furnish and install all necessary trim pieces, filler panels, top caps, and end panels for a complete installation in accordance with manufacturer's recommendations.
d. Lockers shall be installed on 4" high concrete bases. Rubber base to be applied to exposed concrete in student corridors but is not required in locker rooms or pool rooms.

E. SIGNAGE

1. Contractor to furnish and install all "code-required" signage including but not limited to building address, handicap and standard restroom signage, mechanical room identification signage, electrical room identification signage, electrical panel identifications, fire sprinkler control valve signage, stairwell signage, and any other signage as required by the IBC, NEC, Colorado Springs Fire Department, El Paso County Health Department, or any other authority having jurisdiction with signage requirements.
2. Owner will furnish and install room identification signage, department signage, building directories, and "non-code-required" convenience or directional signage.

F. FOLDING PANEL PARTITIONS

At room separations, folding panel partitions shall be by Approved manufacturers with minimum STC rating of 43 (stage partitions rated 53) and gypsum board face panels finished with vinyl wall covering (matching adjacent VWC surfaces where applicable). Operation shall be paired hinged panels with hinged panel closure. Acceptable manufacturers and models:

1. Hufcor Model 5500 or approved Substitution.
2. Factory must certify proper installation and operation as completed by Contractor.

G. ROLLING SECURITY GATES AND MESH PARTITONS

1. Folding security gates (if used) shall be Bostwick 500 series folding gates by Miller Wire Works, Inc.
2. Mesh partitions shall be 300M heavy duty partitions with door by Miller Wire Works, Inc.

H. CORNER GUARDS

Heavy gauge solid color embossed PVC corner guards shall be applied to all outside corners of gypsum board partitions in corridors and high traffic areas. 2-1/2" x 2-1/2", floor to ceiling.

I. FIRE EXTINGUISHERS AND CABINETS

Contractor shall furnish and install fire extinguishers in accordance with Colorado Springs Fire Department requirements. In General:

1. Non-rated fire extinguisher cabinets shall be equal to J.L. Industries Ambassador Series steel semi-recessed cabinets with duo break glass door and tempered glazing. Fully recessed cabinets should be furnished and installed if wall condition permits.
2. Fire-rated fire extinguisher cabinets shall be equal to J.L. Industries Ambassador Series steel semi-recessed cabinets with duo break glass door and tempered glazing. Fully recessed cabinets should be furnished and installed if wall condition permits. Fire-rated cabinets shall match the rating of the wall in which they are installed and shall meet the requirements of IBC and ASTM E814.
3. Fire extinguishers shall be 10 pound ABC multi-purpose dry chemical type unless otherwise specified.

J. FLAGPOLE

A flagpole shall be provided at all CSSD #11 sites. Location of flagpole shall typically be near front entrance to building but must be approved by District PM (COTR). Flagpole shall be installed in concrete base in accordance with applicable codes and manufactures recommendations. Flagpole shall be 30' (exposed length) seamless tapered alloy 6063-T6 aluminum tubing with clear satin anodized finish.

1. Overall pole length shall be 34'-0" with setting depth of 4'-0". Flagpole wall thickness shall be minimum .188 with a minimum 6" butt diameter.
2. Pole shall have revolving truck with 6" diameter 14 gauge clear anodized aluminum ball, one aluminum sheave, one polypropylene halyard, and two sets chrome plated snap hooks for two flags. Provide matching clear anodized flashing collar.
3. Flagpole shall have internal halyard system with manually operated cam action cleat and key operated flush access door.
4. Provide galvanized corrugated steel foundation tube with self-centering bottom plate and lightning protector ground spike.

<<<<END OF DIVISION 10>>>>