

DIVISION TEN - SPECIALTIES

SECTION 10050

MISCELLANEOUS SPECIALTIES

1. SCOPE
 - A. Furnish and install all of the following equipment as shown on drawings and specified herein. Coordinate with other trades where such cooperation is indicated by furnishing installation requirements and details along with the material in adequate time for progress of the work. Furnish shop drawings.
 - B. All items shall be installed with anchors appropriate to the wall construction. See Section 05200.
 - C. Securely install, plumb, level, square with surrounding area to height and location as directed by engineer.
2. TACK BOARDS
 - A. Furnish and install tack board as shown on drawings. All tack boards shall be 4'-0" height x width as shown on drawings.
 - B. Tack board shall be 1/2" homosote vinyl covered. Vinyl wall covering shall be Borden-Columbus Coated Fabrics - Guard Vinyl Wall Covering, 15-oz. Gunny Type I. Vinyl shall extend over all edges and lap 2" on back. All corners shall be double wrapped with concealed vinyl layer at corners. Fabric at corners shall be installed to provide neat mitered appearance. Colors as selected by engineer. Install with concealed fasteners. Best-Rite Vin-Tak #20-410 and Greensteel are also approved.
3. MARKER BOARDS

This performance specification is based on products manufactured by Best-Rite, Inc., Cameron, Texas. Ghent, Lemco, and Tac-Rite are approved manufacturers providing the product meets the following specifications. Marker boards shall be capable of utilizing any dry erase marker on the board and shall be easily removed with a dry eraser without residual ghosting or shadows. Marker boards shall combine writing surface with high resolution projection screen which will also accept magnetized accessories.

 - A. Shop Drawing Submittal: Provide minimum 24" x 36" sample with all trim and accessories specified above with submittal data for review and approval prior to manufacture.
 - B. Material:
 - 1) Porcelain Enamel Marker Boards: Provide balanced, high-pressure laminated porcelain enamel marker board of 3-ply construction of face sheet, core material and backing.

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- a. Face Sheet: Provide face sheet of 28-ga. enameling grade steel especially processed for temperatures used in coating porcelain on steel. Coat the exposed face and exposed edges with a 3-coat process consisting of primer, ground coat, and color cover coat. Coat the concealed face with a 2-coat process consisting of primer and ground coat only. Fuse cover and ground coats to steel at standard firing temperatures, but no less than 1200 degrees F. (649 degrees C.).
 - b. Cover Coat: Provide the standard gloss finish cover coat intended for use with liquid felt-tipped markers.
 - c. Core: Provide 1/2" thick gypsum board or particle board. All surfaces must be concealed and coated to prevent off-gassing. Note that formaldehyde is prohibited from any use on this project.
 - d. Backing Sheet: Provide .005 aluminum foil backing.
- C. Size: All marker boards shall be 4'-0" height by width shown on drawings. All marker boards shall be one continuous length with no splices of divider trims acceptable.
- D. Accessories: Provide trim and accessories. #36 top trim with tack strip; #33 chalk tray with end caps; #18 end trim. Provide ten (10) No.85-013 combination map, hook, paper holders for each marker board. Provide two (2) flag holders at top rail of each board. Mount marker boards with concealed clips and anchors to securely attach boards to all wall surfaces.
4. BROOM AND MOP RACK

Furnish and install one broom and mop rack similar to Charles Parker No.608 stainless steel at janitor's closet above mop sink. Length shall be 36" with four holders. Metalines, Bobrick, and Valley Aluminum Products are also approved manufacturers. Furnish and install one (1) at each janitor's closet.

5. FIRE EXTINGUISHER CABINETS

Furnish and install fire extinguisher cabinets. J. L. Industries Cosmopolitan 1837, B10 door style (solid with lock and break glass insert), stainless steel, semi-recessed cabinet; 2 1/2" RT trim. Provide fire "FX" fire-rated tub option for fire rating of I that extinguisher is mounted in. Provide black "Fire Extinguisher" letters on each cabinet. Provide 5 lb. ABC extinguisher in each cabinet. Install at locations as shown on drawings. Also install 10 lb. ABC extinguisher (with wall-mount bracket) in new elementary school kitchen at location as directed by owner. Larsen and Dor-Red Products are approved manufacturers.

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6. DOOR GRILLES

Door louvers shall be 16-ga. extruded aluminum T63815-W; 1 1/2" water baffle blades as manufactured by Airolite Co., Marietta, Ohio. Molding and louver shall be bonderized followed by baked-on epoxy primer and final finish of two coats of high grade alkyd baked-on enamel in color as selected by owner.

7. COUNTER SHUTTERS

- A. Manufactured by Atlas Door Corp., Orlando, FL, Model L11.
- B. Curtain: 6063 extruded aluminum slats, minimum .050" slat thickness; tubular reinforcing batten bar with vinyl astragal. Aluminum finish to be 204R1 clear anodized.
- C. Guides of 6063 extruded aluminum with wool piling; guide construction to include curtain retainer.
- D. Provide spring counterbalance sealed ball bearings, bracket plates, etc.; manual operation.
- E. Hood shall be .040" thick aluminum; recess mounted between jambs, head, sill; see details.
- F. Location/Size (Verify exact size at job site):
 - 1) Gym Door: 6'-0" width x 4'-6" height.
 - 2) Dishwashing: 4'-0" width x 4'-0" height.
- G. Approved Manufacturers: Windsor, Little Rock, AR; Cookson, Gastonia, NC; Cornell, Mountain Top, PA; Overhead Door Corp., Dallas, TX; Kinnear/Nonh American by Wayne-Dalton Corp.; Southwestern, Dallas, TX.

8. COUNTER SHUTTERS - FIRE RATED

- A. Manufactured by Atlas Door Corp., Orlando, FL, Model L11; 1-1/2 hr. fire rated; provide U.L. label.
- B. Location/Size (verify exact size at job site):
 - 1) Door: 10'-6" width x 4'-6" height.
- C. Operation to be manual; shutters are to close automatically in event of fire; wire into fire alarm system.

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- D. Curtains are to be galvanized steel, 24-ga. Fit each end of every slat with end locks to act as a wearing surface and to maintain slat alignment. Reinforce curtain with bottom bar. Locking to be by slide bolts.
- E. Guides are to be fabricated of steel and constructed in accordance with U.L. approved details.
- F. Spring counterbalance is to be housed in steel pipe. Springs to be helical torsion type designed to include an overload factor of 25%. Springs are to be greased packed and are to be mounted on steel inner shaft rod. Furnish sealed ball bearings to minimize wear of pipe shaft rotation around inner shaft.
- G. Bracket plates carrying pipe counterbalancing shaft are to be of steel plate not less than 1/8" thickness.
- H. Hoods to be rectangular and of galvanized steel, 24-ga; face of wall mounted.
- I. Finish to be a powder coat colored finish on both sides of shutter (color as selected by owner).

9. METAL LOUVERS

- A. All formed metal louvers shall be Type No. 609-A, 16-ga. steel on exterior, Airolite Co., Marietta, Ohio. Blades shall be set on 45° slope spaced 4" o.c. with 1/4" leg top and bottom. Fabricate throughout of 16-ga. galvanized steel and with 15 x 14 mesh, bronze insect screen mounted in folded U-type frame and attached to exterior face of louvers with sheet metal screws. Provide woven wire screens. Louvers shall be bonderized followed by baked-on epoxy primer and a final finish of two coats of high grade alkyd baked-on enamel in color as selected by engineer. Construction Specialties and Industrial Louvers, Inc. are approved manufacturers.
- B. Contractor shall install straight and plumb and caulk around exterior louver frame for finished, neat installation.

10. STAFF LOCKERS

- A. Kitchen Area: Vogel Peterson TR2H - single locker tier - 2 door (lockers). Provide four tiers for a total of 8 lockers; each locker 12" wide x 15" deep x 36" ht. (each tier is 12" wide x 15" deep x 79 1/2" height). Install in Kitchen ; see drawings for location.

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11. SECTIONAL DOOR (OVERHEAD DOOR)

Clopay Model No. 630S (20-ga. standard ribbed steel exterior panels and 24-ga. interior panels). Exterior panel prefinished with 3-coat baked-on polyester top coat over primer on phosphate coating; interior prefinished baked-on polyester over primer. Interior and exterior finishes guaranteed for five (5) years. provide polyurethane insulation with fire-retardant additive. Provide four (4) 4 1/2" x 20" window lites (horizontal in one panel section) in each door. Provide all hardware, tracks, spring counterbalances, spring loaded slide bolt locks, vinyl floor seal, perimeter jambs and head seal weatherstripping, etc. for complete finished installation. Provide steel closure trim at jambs and head. Attach vertical track sections to wall at 2 ft. o.c. and attach horizontal track sections to roof structure at 3 ft. o.c. Berger, Ideal, Overhead, Wayne/Dalton, and Windsor are approved manufacturers.

12. DISAPPEARING STAIRWAY

Furnish and install Super Simplex Disappearing Stairways at locations shown on drawings. Model #SSAL108 as manufactured by Precision Stair Corporation, Morristown, TN. Provide special deep steel frame custom fabricated for 11'-7" +/- floor to floor heights and 9'-0" floor to ceiling height (verify dimensions at job site prior to fabrication). Stair shall be piano hinged in a steel frame for a 30" x 64" rough opening and shall have non-skid serrated treads with 9-1/2" riser height. Unit shall be tested to support 400 lbs. Provide 1-hr. fire door/stair rating with 1-3/4" 1-hr. fire door panel and seals, steel box frame with built-in steps. Provide aluminum handrails on both sides; stringers are aluminum. Provide cam lock keyed to school's key system.

13. ROLLING SERVICE DOORS (OVERHEAD COILING DOOR)

A. Rolling service door shall be Thermo-Tite 800C, Model SDF2 Series doors as manufactured by Wayne-Dalton Corp. Atlas, Orlando, FL; Windsor, Little Rock, AR; Cookson, Gastonia, NC; Raynor, Dixon IL; Southwestern, Dallas, TX; Cornell, Mountain Top, PA; Overhead Door, Dallas, TX and Overhead Door Company of San Antonio, TX are approved manufacturers.

B. Curtain shall be galvanized steel (No. 22 gauge), 3" flat steel slats galvanized to ASTM standards on each side of foamed-in place polyurethane insulation. Both ends of each slat equipped with webbed malleable iron in locks. The bottom of curtain shall be reinforced with two (2) galvanized steel angles. Guides are to be standard steel.

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- C. Provide counterbalance assembly, bracket plates, and all miscellaneous components necessary for complete installation. Hoods shall be 24-gauge galvanized steel. Provide vinyl floor seal, perimeter jambs, and head weatherstrip, etc. Provide steel closure trim at jambs and head.
- D. Provide doors in width and height as shown on plan.
- E. Doors shall be operated by means of manual chain operation.
- F. Finish painting of entire assembly. Doors, guides, etc. shall be completed by Painting Specification Section 09900.

14. SHOWER / DRESSING COMPARTMENTS

- A. Combination shower and dressing compartments shall be Capital Partition, Inc., "Poly Pro", size as shown on drawings; install at gym showers; see drawings for size, location, configuration, etc.
- B. All walls shall be solid "Poly Pro", 1-inch thick. All materials shall be impervious to water. Connections shall be made by means of continuous aluminum corner section. Headrail shall be "Brite" anodized aluminum of "Anti-Grip" design with integral shower curtain track. Provide track hooks and two (2) shower curtains at each compartment. Provide braced seat in dressing area unless noted otherwise on drawings. Each compartment shall be 36" x 36" x 82" ht. shower area and 36" x 36" x 82" ht. dressing area; provide grab bars and hinged seat in shower area. Provide soap dish in shower and robe hook in dressing area. Provide two shower rods and curtains at each compartment.
- C. Shower receptor shall be precast, one piece terrazzo 6" high. Receptor shoulders shall be rabbeted to receive panels. Brass drain shall be cast integrally and shall provide for sealant connection, not less than 1" deep to a 2" pipe and shall have removable stainless steel strainer plate.
- D. Use sealant at all panel to panel; setting trim sealant shall be similar to "Synthacaulk" GC-9 Thiokol polysulfide base, one part, synthetic rubber.
- E. Installation: Panels shall be connected to (1) walls with #201C continuous (58" long) brackets; (2) pilasters with #001C continuous channel; and (3) at panel to pilaster to panel connections; utilize #201C continuous bracket with two continuous channels. Fasten pilaster to floor with 1/8" thick aluminum clip angles covered by stainless steel cover (floor shoe). All anchors into floor and walls shall be with stainless steel screws into lead shields.

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- F. Santana Products Co., "Poly-Mar HD" and Sany Metal, "Solid Polymer" are approved manufacturers. Same products by Comtec and General Partitions are also approved manufacturers.

END OF SECTION 10050