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DIVISION 10 - SPECIALTIES

10 11 00 – VISUAL DISPLAY BOARDS

PART 1 - GENERAL

- A. Summary - Section includes:
 - 1. Markerboards.
 - 2. Tackboards.
- B. Referenced Standards/Minimum Criteria:
 - 1. None.
- C. Submittals Required:
 - 1. Shop drawings.
 - 2. Color options.
- D. Restrictions/Critical Criteria:
 - 1. Manufacturer shall provide fifty (50) year warranty on finish of boards.
 - 2. Accessories: Each markerboard unit shall be equipped with a continuous top display rail and bottom tray. Provide a total of two (2) roller map brackets and four (4) combination map and paper holders per classroom, sized to fit on display rail.
 - 3. Provide music staff on boards in Music Rooms. Lines shall be factory painted and fused to board; taped lines are not acceptable.
 - 4. Finish: Exposed trim and accessories shall be extruded 6063-T5 aluminum alloy with clear anodized finish.
 - 5. Provide wood blocking within gypsum board partitions as necessary to secure boards to walls.

PART 2 - PRODUCTS

- A. Acceptable Manufacturers - Chalkboard, Markerboards, Tackboards, Trim and Accessories:
 - 1. ADP/Lemco, Inc. www.adplemco.com.
 - 2. Claridge Products: www.claridgeproducts.com.
 - 3. Ghent Manufacturing, Inc. www.ghent.com.
 - 4. Marsh Industries: www.marsh-ind.com.
 - 5. Magnatag Visible Systems: www.magnatag.com.
 - 6. Nelson/Adams Co. www.nelsonadamsnaco.com.
 - 7. Polyvision: www.polyvision.com.
 - 8. Approved substitute.
- B. Acceptable Markerboards: Porcelain Enamel steel. Face sheet metal shall be 28 gauge or heavier. Core material shall be particleboard with overall thickness not less than 7/16-inch. Back shall be 0.15-inch thick aluminum sheet. Pre-frame boards at the factory into trim system



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specified. Size shall be 5'-0" high (Primary Schools) or 4'-0" (Secondary Schools) by required length. Boards up to 12-feet in length shall be in one piece.

- C. Acceptable Tackboards: 1/4-inch thickness vinyl plastic cork factory laminated to 1/4-inch thickness hardboard backing. Pre-frame at the factory into trim system specified. Size shall be 4'-0" high by required length.

10 14 00 – IDENTIFYING DEVICES

PART 1 - GENERAL

- A. Summary - Section includes:
 - 1. ADA Tactile Signs.
 - 2. Changeable Message Signs.
 - 3. Symbol Signs.
 - 4. Outdoor LED digital marquee.
 - 5. Dedication Plaque (by School District).
 - 6. Wall mounted building identification sign (by School District, layout by Architect).
- B. Referenced Standards (Minimum Criteria):
 - 1. ADA signs for ADA requirements.
- C. Submittals Required:
 - 1. Shop Drawings.
 - 2. Color Options / Samples.
- D. Restrictions/ Critical Criteria:
 - 1. Architect to provide as part of the construction documents, a signage schedule for doors/rooms. Specific rooms names and numbering / naming of signs shall be approved by the school district.
 - 2. General Signage Description: Raised numbers, letters, pictograms, and Braille shall be precision injection molded on photopolymer metal base plate. Photopolymer plate shall be secured to minimum 1/8-inch thick plexiglass backplate. Changeable message signs shall have photopolymer plate mounted on clear Plexiglass coverplate over changeable message slots. Changeable message slots shall be formed by solid color spacers on backplate. Exposed surfaces of all sign types shall have solid color. Corners of sign types shall have 1/2-inch radius. Text and background shall be contrasting colors, matte finish. Photopolymer paint shall be Matthew's Paint (Acrylic Polyurethane - Satin Finish Paint). Install signs with tamper resistant adhesive.
 - a. Room Signs:
 - 1) Size: Rooms signs with number and text shall be 7-inches high x 7-inches wide.
 - 2) Text Size: 1/32-inch raised, 1-inch high numbers and 5/8-inch letters, Helvetica Medium, upper and lower case, left center cop, all one line.
 - 3) Braille: Grade 2, raised 1/32-inch.



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- b. Symbol Signs:
 - 1) Size: 7-inches wide x 9-inches high.
 - 2) Symbol: 1/32-inch raised. 3-inches high minimum symbols as directed by Architect.
 - 3) Lettering: 1/32-inch raised, 1-inch high Helvetica Medium, upper and lower case.
 - 4) Braille: Grade 2, raised 1/32-inch.
- c. Changeable Message Signs:
 - 1) Size: 7-inches wide x 7-inches high.
 - 2) Braille: Grade 2, raised 1/32-inch.
 - 3) Text Size: 1/32-inch raised, 1-inch high numbers and 5/8-inch high letters, Helvetica Medium, upper and lowercase.
- d. Outdoor LED Digital Marquee:
 - 1) Outdoor LED Digital Marquee signage to help inform the community of school events, news and information to parents and students. Digital signs are used to promote school spirit, recognize outstanding teachers and award-winning students, and remind parents about school closures and academic and enrollment dates, all while engaging with high-visibility motion graphics.
 - 2) Size: Per project.
 - 3) Graphics to include School Name and Mascot Logo.

PART 2 - PRODUCTS

- A. Acceptable Manufacturers:
 - 1. ASI Sign Systems: www.asisignage.com.
 - 2. Best Sign Systems: www.bestsigns.com.
 - 3. Communication Industries, Inc. Golden, CO.
 - 4. Division Ten Signage Corp. www.division10sign.com.
 - 5. Platte Valley Signs. Aurora, CO.
 - 6. Signage, Inc.
 - 7. Signworks, LLC: www.wearesignworks.com.
 - 8. Approved Substitute.



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10 21 13 – METAL TOILET COMPARTMENTS

PART 1 - GENERAL

- A. Summary - Section includes:
 - 1. Metal toilet compartments.

- B. Referenced Standards/Minimum Criteria:
 - 1. ANSI A117.1 – Standard for Accessible and Usable Buildings and Facilities
 - 2. None.

- C. Submittals Required:
 - 1. Shop drawing.
 - 2. Color options.

- D. Restrictions/Critical Criteria:
 - 1. Construction:
 - a. Doors and Partitions: 1-inch thick made of two sheets of 20 gauge galvanized-bonderized cold-rolled steel assembled over and cemented under pressure to a 7/8-inch thick sound- deadening fiber core. The two face plates on doors and partitions shall have formed edges and to be sealed together with continuous drawn oval crown locking strips; interlocking strips on doors and partition shall be mitered and welded at corners. Reinforce partitions for support of grab bars.
 - b. Pilasters: 1-1/4-inch thick, constructed from two sheets of 20 gauge galvanized-bonderized cold-rolled steel assembled over and cemented under pressure to sound-deadening fiber core. Provide formed edges and continuous locking strips. Interlocking strips shall be mitered and welded at corners.
 - c. Headrail: Headrail tubular anti-grip type, clear satin extruded aluminum attached and bolted through top of pilasters. Tubular bracing shall extend full length of installation and over end compartment and be fastened into wall bracket. Aluminum headrails other than anti-grip type shall not be used.

 - 2. Hardware and Fittings: Dividing partitions shall be attached to pilasters and wall with full-height steel or aluminum stirrup brackets. Base of pilasters and floor anchorage shall be concealed by 3-inch high, Type 304 stainless steel plinth. Doors shall be equipped with gravity hinges. Hinges adjustable for holding door in open position when not latched. Each door shall be equipped with one cast alloy chrome plated coat hook and bumper and cast alloy chrome- plated combination doorstop and latch keeper. Provide door pulls for out-swinging doors. Provide Glynn-Johnson bumpers which strike gypsum board walls. Urinal screens shall be supported with full-height steel or aluminum stirrup brackets at wall, and full-height pilaster from floor-to-ceiling or floor-to-headrail at front edge.

 - 3. Finish: Factory applied, baked-on acrylic enamel.



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PART 2 - PRODUCTS

- A. Acceptable Manufacturers and Type: Floor mounted, overhead braced, flush type, as manufactured by Sanymetal: www.sanymetal.com, or equal partitions by one of the following:
1. Accurate Partitions Corporation: www.accuratepartitions.com.
 2. All American Metal Corporation: www.allamericanmetal.com.
 3. ASI Global Partitions: www.asi-globalpartitions.com.
 4. General Partitions Mfg. Corp.: www.generalpartitions.com.
 5. Hadrian, Inc. www.hadrian-inc.com.
 6. Knickerbocker Partition Corp.: www.knickerbockerpartition.com.
 7. Metpar Corporation: www.metpar.com.
 8. Scranton Products: www.scrantonproducts.com.
 9. Approved substitute.

10 21 16 – PLASTIC TOILET/SHOWER COMPARTMENTS

PART 1 - GENERAL

- A. Summary - Section includes:
1. Plastic toilet shower/compartments (HDPE) in middle schools and high schools.
- B. Referenced Standards/Minimum Criteria:
1. ANSI A117.1 – Standard for Accessible and Usable Buildings and Facilities
- C. Submittals Required:
1. Product data.
 2. Shop drawings.
 3. Color options.
- D. Restrictions/Critical Criteria:
1. Construction:
 - a. Partitions and Pilasters: 1-inch thick solid high-density polyethylene plastic.
 - b. Headrail: Anti-grip type, clear satin extruded aluminum.
 2. Hardware and Fittings: Dividing partitions shall be attached to pilasters and wall with continuous aluminum or plastic wall brackets. Bottom of pilasters and floor anchorage shall be concealed by stainless steel or solid plastic shoe. Doors shall be equipped with gravity hinges. Provide anodized aluminum latch and strike.



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PART 2 - PRODUCTS

- A. Acceptable Manufacturers - Solid Plastic (Composite Constructed Panels are not acceptable):
 - 1. Santana: www.scrantonproducts.com.
 - 2. Global Partitions: www.globalpartitions.com.
 - 3. Sanymetal: www.sanymetal.com.
 - 4. Scranton Products: www.scrantonproducts.com.
 - 5. Approved substitute (School District may consider Bobrick "SierraSeries 1090" – Solid Color Reinforced Composite: www.bobrick.com/toiletpartitionsystems).

10 21 23 – CUBICLE CURTAINS AND TRACK

PART 1 - GENERAL

- A. Summary - Section includes:
 - 1. Cubicle curtains and track in nurse's offices and health clinics.
- B. Referenced Standards/Minimum Criteria:
 - 1. None.
- C. Submittals Required:
 - 1. Shop drawings.
 - 2. Color options.
- D. Restrictions/Critical Criteria:
 - 1. Track to be designed for surface mounting on ceiling.

PART 2 - PRODUCTS

- A. Acceptable Manufacturers:
 - 1. Alderman Acres Mfg. www.aldermanacres.com.
 - 2. A.R. Nelson Company, Inc. www.arnelson.com.
 - 3. Construction Specialties: www.c-sgroup.com.
 - 4. Imperial Fastener Co. www.imperialfastener.com.
 - 5. InPro Architectural Products: www.inpro.com.
 - 6. Approved substitute.
- B. Acceptable Materials:
 - 1. Cubicle Track: General Cubicle Company (Construction Specialties) extruded aluminum track with nylon wheel carriers.
 - 2. Cubicle Curtains: One curtain per track required. Curtains to hang to within 15-inches of floor and shall be 10% wider than length of track. Cubicle curtain shall be manufactured utilizing Maharam Fabric Corporation 100% Trevira FR Polyester (inherently flame resistant). Style Duratex Game Board with 1/2-inch x 1/2-inch open Duratex Mesh sewn in the upper 18-inches of the cubicle curtain.



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10 22 26 – FOLDING PANEL PARTITIONS

PART 1 - GENERAL

- A. Summary - Section includes:
 - 1. Paired-panel folding panel partitions.
 - 2. Single-panel folding panel partitions.
 - 3. Pass-doors through folding panel partitions.

- B. Referenced Standards/Minimum Criteria:
 - 1. All partitions shall achieve specified STC ratings when tested by an approved independent acoustical laboratory in accordance with ASTM E90 and E413 test procedures.
 - 2. Upon completion, adjust partitions for smooth and easy operation and demonstrate use and maintenance to School District. Readjust in approximately 11 months after occupancy.

- C. Submittals Required:
 - 1. Product data.
 - 2. Shop drawings.
 - 3. Color options.

- D. Restrictions/Critical Criteria:
 - 1. Provide manufacturer's standard pass-door system with partition panel. Pass door shall be equipped with hollow metal frame and door with friction latch and recessed pull. No threshold permitted. Prime paint door and frame for field painting (verify).

PART 2 - PRODUCTS

- A. Acceptable Manufacturers:
 - 1. Advanced Equipment Corp. www.advancedequipment.com.
 - 2. Hufcor: www.hufcorworldwide.com.
 - 3. Moderco: www.moderco.com.
 - 4. Modernfold: www.modernfold.com.
 - 5. Approved substitute.

- B. Acceptable Models - Paired Panels:
 - 1. "Pathfinder 5500-R Series" by Hufcor.
 - 2. "Acousti-seal 932" by Modernfold.
 - 3. Approved substitute.



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- C. Acceptable Products – Paired Panels:
1. Type: Paired panels, top supported, manually operated. Provide fixed top seal and manually activated bottom mechanical seals and all factory hardware. Hinged panel closure in stacked position shall not protrude beyond stacked panels.
 2. Panel Construction: Gypsum board skins assembled to welded steel frame. No exposed vertical edge trim allowed.
 3. Suspension System: Center stack with Modernfold No. 17 track (steel or aluminum - standard of manufacturer) with four-wheel steel ball-bearing trolley; bracket or direct mount as indicated.
 4. Markerboards: Provide liquid type white markerboards with recessed chalk trays (minimum one tray per marker board) where required by School District.
 5. Panel Finish: Manufacturer's heavy weight (27 oz./lineal yard) vinyl wall covering.
 6. STC Rating: Minimum of 43.
 7. Accessories: If loose manual operating devices are required for bottom seals, furnish one (1) device for each side of partition.
- D. Acceptable Models - Single Panels:
1. "Acousti-seal 931 Series" by Modernfold.
 2. "Series 600" by Hufcor.
 3. Approved substitute.
- E. Acceptable Products:
1. Type: Individual panels, top supported, manually operated. Provide fixed top seal and manually activated bottom mechanical seals and all factory hardware.
 2. Panel Construction: Steel face skins over assembled to welded steel frame. No exposed vertical edge trim allowed.
 3. Suspension System: Off-set stack as indicated with Modernfold Omni-Directional track with programmed switches (steel or aluminum - standard of manufacturer) with four-wheel steel ball-bearing trolley; bracket or direct mount as indicated.
 4. Markerboards: Provide liquid type white markerboards with recessed chalk trays (minimum one tray per marker board) where required by School District.
 5. Panel Finish: Manufacturer's vertical ribbed carpet finish
 6. STC Rating: Minimum of 49 at stage areas of elementary/middle schools and 43 at other locations.
 7. Accessories: If loose manual operating devices are required for bottom seals, furnish one (1) device for each side of partition.



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10 26 00 – WALL PROTECTION

PART 1 - GENERAL

- A. Summary - Section includes:
 - 1. Solid color vinyl corner guards.
 - 2. Stainless steel corner guards.
 - 3. Wall guards.
- B. Referenced Standards (Minimum Criteria):
 - 1. None.
- C. Submittals Required:
 - 1. Product Data.
 - 2. Color Options.
- D. Restrictions/ Critical Criteria:
 - 1. Use colored vinyl corner guards to match color of walls in all schools where gypsum board is used for corridor walls.
 - 2. Stainless steel corner guards shall be installed on outside corners in kitchen area.
 - 3. Sheet wall covering manufacturer of extruded rigid plastic or stainless steel sheet material may be used in lieu of ceramic tile in student restrooms. Verify with owner.

PART 2 - PRODUCTS

- A. Acceptable Manufacturers - Vinyl Corner Guards:
 - 1. InPro Architectural Products: www.inprocorp.com.
 - 2. Pawling Corporation: www.pawling.com.
 - 3. Koroseal Interior Products: www.koroseal.com.
 - 4. Construction Specialties, Inc. www.c-sgroup.com.
 - 5. Balco: www.balcousa.com.
 - 6. Approved substitute.
- B. Description:
 - 1. Material: Solid color PVC vinyl extrusion with embossed finish, 0.10-inch thickness minimum.
 - 2. Size: 2-1/2-inches x 2-1/2-inches by full height of wall (floor to ceiling).
 - 3. Configuration: 90-degree angle and other angles as required.
 - 4. Mounting: Adhesive.
 - 5. Fire Rating: Class I (ASTM E84).
- C. Acceptable Manufacturers – Stainless Steel Corner Guards
 - 1. InPro Architectural Products: www.inprocorp.com.
 - 2. Pawling Corporation: www.pawling.com.
 - 3. Balco: www.balcousa.com.
 - 4. Approved substitute.



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- D. Description:
 - 1. Material: 16-gauge, Type 304 stainless steel with #4 satin finish.
 - 2. Size: 3-1/2-inches x 3-1/2-inches x 4'-0".
 - 3. Configuration: 90-degree angle and other angles as required.
 - 4. Mounting: Adhesive.

- E. Sheet Wall Covering: Stainless Steel
 - 1. Material: 0.0625-inch, Type 304 stainless steel with #4 finish.
 - 2. Radius Corners: 1/8-inch.
 - 3. Exposed Edge Finish: Ease all exposed edges.
 - 4. Size: 4'-0" high x length of wall.
 - 5. Mount tight to wall with silicone adhesive.

10 28 00 – TOILET AND SHOWER ACCESSORIES

PART 1 - GENERAL

- A. Summary - Section includes:
 - 1. Toilet and shower accessories.

- B. Referenced Standards/Minimum Criteria:
 - 1. ANSI A117.1 – Standard for Accessible and Usable Buildings and Facilities.
 - 2. None.

- C. Submittals Required:
 - 1. Product data.

- D. Restrictions/Critical Criteria:
 - 1. Owner will furnish toilet tissue dispensers, soap dispensers, and paper towel dispensers to Contractor for installation. Remaining accessories shall be provided by Contractor.
 - 2. Fasten accessories rigidly and securely to walls using methods and materials recommended by manufacturer. Provide wood blocking or plywood in stud cavity for mounting accessories to gypsum board partitions.

PART 2 - PRODUCTS

- A. Acceptable Manufacturers:
 - 1. American Specialties, Inc. (ASI): www.americanspecialties.com.
 - 2. Bobrick Washroom Equipment, Inc. www.bobrick.com.
 - 3. Bradley Corporation: www.bradleycorp.com.
 - 4. Approved substitute.



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- B. Acceptable Products:
1. Mirror: Bobrick "B-165 Series", sizes per design, or equal of other acceptable manufacturer.
 2. Hand Dryer (High School/Middle School): Bradley "Model 2902" or equal by other acceptable manufacturer. All dryers to have fixed nozzles.
 3. Grab Bars: Bobrick "B-68137", "B-6806" and "B-6861" or equal of other acceptable manufacturer.
 4. Sanitary Napkin Disposal (High School/Middle School): Bobrick "B-270" or equal of other acceptable manufacturer.
 5. Sanitary Napkin Vendor (High School/Middle School): Bradley "Model 4781-11" or equal of other acceptable manufacturer.
 6. Shower Rod/Curtain/Hooks (High School/Middle School): Bobrick "B-6047", "204-2", "204-1", or equal by other acceptable manufacturer.
 7. Robe/Towel Hook (High School/Middle School): Bobrick "B-672" or equal of other acceptable manufacturer.
 8. Mop Holder and Shelf: Bobrick "B-224 x Length" required.
 9. Splash Guard: Provide wall mounted 18-gauge stainless steel splash guards on walls above mop basins to 4-inches above height of faucet.
 10. Stainless Steel Mirrors: 20 gauge stainless steel mirrors with edges formed around 1/4-inch tempered hardboard. Adhere steel face to hardboard. Mirror shall be free of distortion and installed with vandal proof stainless steel screws.

10 44 00 – FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

PART 1 - GENERAL

- A. Summary - Section Includes:
1. Fire extinguisher cabinets.
 2. Fire extinguishers for fire extinguisher cabinets.
 3. Fire blanket cabinets in chemistry labs.
- B. Referenced Standards/Minimum Criteria:
1. Fire rated cabinets shall be one-hour rated and non-combustible, and meet the requirements of ASTM E814 "Standard Test Method for Fire Tests of Penetration Firestop Systems".
- C. Submittals Required:
1. Product data.
- D. Restrictions/Critical Criteria:
1. Cabinets: Install cabinets to manufacturer's instructions. Install cabinet with door handle height of 4'-0" A.F.F. field paint cabinets. Apply decals on cabinets after cabinets are field painted.



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PART 2 - PRODUCTS

- A. Acceptable Manufacturers: Fire Extinguishers and Cabinets:
1. J.L. Industries: www.activarcpg.com.
 2. Larsen's Manufacturing Company: www.larsensmfg.com.
 3. Elkhart Brass Manufacturing Company: www.elkhartbrass.com.
 4. General Fire Extinguisher Corporation: www.generalfireequipment.net.
 5. Potter-Roemer: www.potterroemer.com.
 6. Approved substitute.
- B. Acceptable Products:
1. Non-Rated Cabinets: Larsen's Manufacturing Co., "Model 2409 Architectural Series" steel or equal of other acceptable manufacturer with 24" x 9-1/2" x 5" minimum inside dimensions. Provide Duo Panel Break Glass Door. Cabinet finish shall be factory painted acrylic enamel as primer coat. Provide red decal reading "FIRE EXTINGUISHER" for job application. Cabinets shall be semi- recessed (ADA compliant) or fully recessed as required by wall conditions.
 2. Fire Rated Cabinets: Larsen's Manufacturing Co., "Model FS 2409" steel or equal of other acceptable manufacturer with 24" x 9-1/2" x 5" minimum inside dimensions.
 3. Fire Blanket Cabinets: Larsen's Manufacturing Co., "Model FB 3612-Series" steel or equal by other acceptable manufacturer with 36" x 12" x 8" minimum inside dimensions. Trim width to match other fire extinguisher cabinets. Cabinet finish shall be factory painted acrylic enamel as primer coat.
 4. Provide red decal reading "FIRE EXTINGUISHER" and "FIRE BLANKET" for job application.
 5. Cabinets shall be semi-recessed.
 6. Fire Blanket Cabinet shall be factory equipped with fire retardant blanket.

10 51 00 – LOCKERS

PART 1 - GENERAL

- A. Summary - Section includes:
1. Student corridor lockers (middle schools and high schools).
 2. Athletic lockers (middle schools and high schools).
 3. Employee lockers (kitchen areas).
 4. Locker Room benches.
- B. Referenced Standards (Minimum Criteria):
1. ANSI A117.1 – Standard for Accessible and Usable Buildings and Facilities.
- C. Submittals Required:
1. Product data.
 2. Shop drawings.
 3. Color Options.



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D. Restrictions/Critical Criteria:

1. Student Corridor and Employee Lockers:
 - a. Material: Construct doors and frames of pickled, cold-rolled and patent leveled sheet steel. Construct other parts from good grade annealed specially treated and patent leveled steel.
 - b. Doors: Construct solid panel doors of 16 gauge cold-rolled sheet steel adequately flanged. Formations shall consist of two right angles at lock side of doors, two right angles at hinge side and one right angle formation at top and bottom. Weld all flanges together at corners.
 - c. Door Frames: Construct door frames of not less than 16 gauge steel formed into face channel shapes. Frame channel formation shall be securely welded together. Sides of frames shall form a continuous door strike.
 - d. Locking Device: Provide positive automatic type locking device of the pre-locking type whereby locker may be locked while door is open, then closed without unlocking and without damaging locking mechanism. There shall be three (3) latching points on single tier lockers and two (2) latching points on multi-tier lockers. Provide rubber silencers installed on each frame hook. Provide built-in combination locks and recessed handles on student corridor lockers. Employee lockers shall be padlockable.
 - e. Hinges: Five (5) knuckle hinges shall be at least two (2) inches high of the full loop, tight pinset type, securely welded to frame and riveted to door with two rivets per hinge. Locker doors 42-inches high and less shall have two hinges. Doors over 42-inches high shall have three hinges.
 - f. Body: Construct body of locker of not less than 24-gauge steel with necessary formation to make rigid locker and to ensure tight joints between bolts.
 - g. Tops, Bottoms, Shelves, and Tier Dividers: Constructed of 24-gauge sheet steel. Provide flat and sloping tops and necessary fillers for lockers as indicated or needed.
 - h. Fillers and Tops: Provide 24-gauge sheet steel blank front and top filler pieces of size required and necessary wherever groups of lockers adjoin in corners yet do not meet or wherever lockers abut walls.
 - i. Hooks: Provide hooks as noted. Hooks shall be zinc-plated forged steel with ball ends. Attach hooks with two bolts.
 - j. Number Plates: Provide each locker with polished aluminum plates, aluminum background and etched blank numerals not less than 3/8-inch high. Attach plates with split rivets. Number lockers per Owner's directions.
 - k. End and Back Panels: Where a group of lockers has an exposed end or back, provide prefinished 16-gauge end finishing panel securely attached to end or back of locker.
 - l. Finish: Thoroughly clean and phosphatize all steel parts. Finish with heavy coat of high-quality enamel. Enamel shall be baked at 300 degrees for minimum of 20 minutes. Where bolts heads are visible on outside of locker, finish to match balance of locker. Bolts and nuts shall be rust-proofed before finishing.



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2. Athletic Lockers:
 - a. General: Pre-assembled all welded construction. Sheet steel locker material shall be cold- rolled and patent leveled. Sheet steel shall be free from buckle, scale, and other imperfections. Steel angle framing members shall be continuous 1" x 1" x 1/8-inch pickled angle iron steel. Expanded metal shall be 13-gauge 3/4-inch flattened expanded metal with bond sheared edges to prevent snags or cuts.
 - b. Sides and Vertical Partitions: Construct sides and partitions of expanded metal welded to angle frame.
 - c. Shelves: Provide 16 gauge cold-rolled sheet steel shelf, flanged at sides, back and hemmed to front. Shelf to be welded to sides and back and shall be 12-inches from top of locker.
 - d. Doors: Construct doors of expanded metal welded to angle frame. Provide solid cold- rolled 13-gauge sheet steel handle panel with 16 gauge back panel welded to frame at center span and latching device of door.
 - e. Hinges: Doors over 42-inches high shall have three (3) hinges per door. Doors under 42-inches high shall have two (2) hinges per door. Hinges shall be heavy-duty five knuckle, full loop, tight pinset type. Hinges shall be minimum of 2-inches high. Hinges shall be welded to frame and riveted to door with two (2) rivets per hinge or welded to door, standard of manufacturer.
 - f. Tops, Backs, and Tier Dividers: Constructed of solid 16-gauge sheet steel. Provide sloping tops and necessary fillers for lockers as indicated or needed. Backs may be 18-gauge sheet steel.
 - g. Bottoms: Provide ventilated 16-gauge sheet bottom panels.
 - h. Latching: Provide three (3) point positive latching mechanism with provision for padlock at single tier units. Provide lever-type handle to activate latching rods.
 - i. Number Plates: Each locker shall have a polished aluminum number plate with black numerals not less than 3/8-inch high. Attach plates with rivets. Number lockers per Owner's directions.
 - j. Hooks: Provide hooks as noted. Hooks shall be zinc-plated forged steel will ball ends.
 - k. Fillers and Tops: Provide 16-gauge sheet steel blank front and top filler pieces of size required and necessary wherever groups of lockers adjoin in corners yet do not meet.
 - l. End and Back Panels: When a group of lockers has an exposed end or back, provide solid 16-gauge end finishing panel attached to end or back of locker.
 - m. Finish: Thoroughly clean and phosphatize all steel parts. Finish with a heavy coat of high-quality enamel. Enamel shall be baked at 300 degrees for a minimum of 20 minutes. Pool area lockers shall receive corrosion-resistant electro-galvanizing and high solids epoxy prior to color finish enamel.
3. Install locker numbers on each locker according to a schedule to be furnished by the Owner.
4. Locker Room Benches: Bolt to concrete floors in accordance with manufacturer's instructions.
5. Extra Materials: Provide the Owner at the completion of the project the following items:
 - a. Locker Doors: Verify number of extra doors for each locker type with School District.
 - b. Locking Devices: Twenty (20) Built-In Combination Locks
 - c. Touch-Up Paint: Provide eight (8) fluid ounces for each 100 lockers or fraction, of each color installed; up to one (1) quart total for standard colors and up to two (2) quarts for custom colors.



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PART 2 - PRODUCTS

- A. Acceptable Manufacturers – Student Corridors and Employee "Quiet" Lockers:
 - 1. Republic Storage Products, LLC: www.republicstorage.com.
 - 2. Lyon, LLC: www.lyonworkspace.com.
 - 3. Penco Products, Inc. www.pencoproducts.com.

- B. Acceptable Manufacturers – Athletic Lockers:
 - 1. DeBourgh Mfg Co: www.debourgh.com.
 - 2. Lyon, LLC: www.lyonworkspace.com (alternate)
 - 3. Republic Storage Products, LLC: www.republicstorage.com (alternate)
 - 4. Penco Products, Inc. www.pencoproducts.com (alternate)

- C. Locker Types and Sizes:
 - 1. Student Corridor Lockers – High Schools: Republic "Quiet Lockers" or equal by other acceptable manufacturer. Single tier "quiet" type, 9-inches wide, 15-inches deep, 72-inches high, mounted on concrete or masonry base. Provide one double prong back hook, two single prong wall hooks, and one shelf. Recessed handle. Built-in combination lock.
 - 2. Student Corridor Lockers – Middle Schools: Republic "Quiet Lockers" or equal by other acceptable manufacturer. Double tier "quiet" type, 9-inches or 12-inches wide, 15-inches deep, 36-inches high. Mounted on concrete or masonry base. Provide one double prong back hook, two single prong hooks, and on shelf. Recessed handle. Built-in combination lock.
 - 3. Athletic Lockers – High Schools: DeBourgh "All-Welded All-American Lockers" or equal by other acceptable manufacturer. Single tier "athletic type", 12-inches or 18-inches wide, 15-inches deep, 72-inches high, mounted on concrete or masonry base. Provide one double prong back hook, two single prong wall hooks, and one shelf. Sloping top. Lever-type handle. Padlocks by Owner.
 - 4. Athletic Lockers – Middle Schools: DeBourgh "All-Welded All-American Lockers" or equal by other acceptable manufacturer. Double and triple tier "athletic type", 18-inches wide, 15-inches deep, 60-inches high (each locker 20-inches or 30-inches), mounted on concrete or masonry base. Provide one double prong back hook, two single prong wall hooks. Sloping top. Lever-type handle. Padlocks by Owner.
 - 5. Kitchen Employees Lockers: Republic "Quiet Lockers" or equal of other acceptable manufacturer. Double tier "quiet" type, 12-inches wide, 15-inches deep, 72-inches high, mounted on concrete or masonry base. Provide one double prong back hook, two single prong wall hooks. Sloping top. Lever-type handle. Padlocks by Owner.
 - 6. Security Office Employee Lockers at High Schools: Republic "Quiet Lockers" or equal by other acceptable manufacturer. Double tier "quiet" type, 12-inches wide, 15-inches deep, 72-inches high, mounted on concrete or masonry base. Provide one double prong back hook, two single prong wall hooks and one shelf. Recessed handle. Padlocks by Owner.



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- D. ADA Compliant Lockers:
 - 1. Provide at least 5% of the lockers, but no less than one locker, to meet ADA requirements. For single tier lockers, the shelf and coat hooks must be lowered to no more than 48-inches above the floor, with an extra shelf added to bring the bottom of the locker to no lower than 15-inches above the floor. Provide Accessibility Graphic on locker face.

- E. Locker Room Benches:
 - 1. Where benches are provided in Locker Rooms, provide benches in compliance with ADA requirements for size and clearances. Benches must have seats that are a minimum of 20-inches to a maximum of 24-inches in depth and 42-inches minimum in length.
 - 2. Provide benches with backs where accessible benches are not positioned against a wall.
 - 3. Benches must have a clear floor space positioned to allow persons using wheelchairs or other mobility devices to approach parallel to the short end of a bench seat.
 - 4. Benches must be strong enough to withstand a vertical or horizontal force of 250 pounds applied at any point on the seat, fastener, mounting device or supporting structure.

10 75 00 – FLAGPOLES

PART 1 - GENERAL

- A. Summary - Section includes:
 - 1. Flag Poles.

- B. Referenced Standards (Minimum Criteria):
 - 1. None.

- C. Submittals Required:
 - 1. Product Data.

- D. Restrictions/ Critical Criteria:
 - 1. Description: Flagpole shall be 30-feet (exposed length) seamless cone tapered aluminum 6063- T6 tubing.
 - 2. Overall pole length shall be 3'-6" longer than exposed length. Flagpole wall thickness shall be minimum 0.188-inch with a minimum 6-inch butt diameter.
 - 3. Pole shall have standard revolving truck with one aluminum sheave, one polypropylene halyard, and two sets chrome plated snap hooks for two flags. Provide matching flashing collar.
 - 4. Flagpole shall have interior halyard system with manually operated cam action cleat, key operated flush access door with top revolving trunk and 6-inch ball.
 - 5. Provide galvanized corrugated steel foundation tube with self-centering bottom plate and lightning protector ground spike.



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PART 2 - PRODUCTS

- A. Acceptable Manufacturers:
1. American Flagpole & Flag Co.: www.aflag.com.
 2. Concord American Flagpole: www.concordamericanflagpole.com.
 3. Eder Flag Mfg. Co. www.ederflag.com.
 4. Pole-Tech Co., Inc. www.poletch.com.
 5. Approved substitute

END OF SECTION