DOCUMENTS
FOR
MOORPARK COLLEGE

MOORPARK COLLEGE
HARDWARE REPLACEMENT
VARIOUS BUILDINGS
BID 447

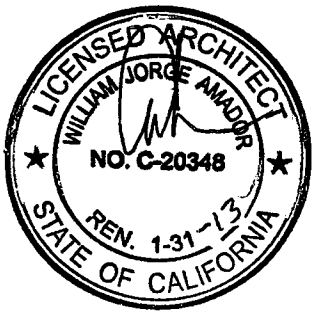
AT

7075 Campus Road, Moorpark, CA 93021

Prepared by
AMADOR WHITTLE ARCHITECTS, Inc.
17 East High Street
Moorpark, CA 93021

OWNER:

MOORPARK COLLEGE
December 18, 2012



William J Amador AIA, ARCHITECT
AMADOR WHITTLE ARCHITECTS, INC

SPECIFICATIONS
FOR
MOORPARK COLLEGE HARDWARE REPLACEMENT
VARIOUS BUILDINGS

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SECTION 02221

DEMOLITION

PART 1 - GENERAL

1.01 SUMMARY

A. Provisions of Division 01 apply to this section.

B. Section Includes: Furnishing labor, materials and equipment necessary for demolition, dismantling, cutting and alterations as indicated, specified, or required for completion of the Work. Includes items such as the following:

1. Protection of existing improvements to remain.

2. Cleaning existing improvements to remain.

3. Removing debris, waste materials, and equipment.

4. Removal of items for performance of the Work.

5. Salvageable items to be retained by the Owner.

C. Related Sections:

1. Section 00800 Special Conditions

1.02 QUALITY ASSURANCE

A. Perform the Work of this section by workers skilled in the demolition of buildings and structures. Perform the Work of this section under direct superintendence at all times.

B. Prior to commencement of Work, schedule a walkthrough with the Owner, to confirm Owner property items have been removed from scheduled Work areas. Identify and mark remaining property items and schedule their removal.

C. Coordinate demolition for the correct sequence, limits, and methods. Schedule demolition Work to create least possible inconvenience to the public and facility operations.

D. Related Standard: American National Standard A10.6-1983

1.04 PROJECT CONDITIONS

A. Drawings may not indicate in detail all demolition Work to be performed. Examine existing conditions to determine the full extent of required demolition.

B. Repair damage to existing improvements or damage due to excessive demolition.

C. Provide all measures to avoid excessive damage from inadequate or improper means and methods, improper shoring, bracing or support.

D. If conditions are encountered that varies from those indicated, promptly notify the Architect for clarification before proceeding.

PART 2 - PRODUCTS

2.01 HANDLING OF MATERIALS

A. Items scheduled for salvage by the Owner shall be delivered to a location designated by the Owner. Items shall be cleaned, packaged and labeled for storage.

B. Items scheduled for reuse shall be stored on the Project site and protected from damage, theft and other deleterious conditions.

PART 3 - EXECUTION

3.01 GENERAL

A. Protection:

1. Do not commence demolition until safety partitions, barricades, warning signs and other forms of protection are installed.

2. Provide all safeguards, including warning signs, lights and barricades, for protection of workers, occupants, and the public.

B. If, at any time, safety of existing construction appears to be endangered, take immediate measures to correct such conditions; cease operations and immediately notify the Architect and Owner.

3.02 DEMOLITION

A. Do not throw or drop materials. Furnish ramps or chutes as required by the Work.

B. Remove existing construction only to extent necessary for proper installation of Work and interfacing with existing construction. Cut back finished surfaces to straight, plumb or level lines as required for a smooth transition.

C. Where openings are cut oversize or in improper locations, replace or repair to required condition.

3.03 PATCHING

A. Patch and/or repair materials to remain when damaged by the performance of the Work of this section. Finish material and appearance of patch and/or repair Work shall match existing.

3.04 CLEANING

A. Clean existing materials to remain with appropriate tools and equipment.

B. Protect existing improvements during cleaning operations.

C. Debris shall be dampened by fog water spray prior to transporting by truck.

D. Debris pick-up area shall be kept broom-clean and shall be washed daily with clean water.

E. Remove waste and debris, other than items to be salvaged. Turn over salvaged items to Owner, or store and protect for reuse where required. Continuously clean up and remove items as demolition Work progresses.

F. Remove rubbish, debris, and waste materials and legally dispose of off the Project site.

END OF SECTION

SECTION 07920

JOINT SEALANTS

PART 1 - GENERAL

1.01 SUMMARY

A. Provisions of 00800 Special Conditions apply to this section.

B. Section Includes:

1. Joint sealants as indicated or required.

C. Related Sections:

1. Section 08110: Hollow Metal Door Frames.

1.02 SUBMITTALS

A. Shop Drawings: Submit Shop Drawings indicating sealant joint locations, with full-size sealant joint details.

B. Product Data: Submit manufacturer's literature for each sealant material.

C. Material Samples: Submit Samples indicating color range available for each sealant material intended for installation in exposed locations.

D. Certifications: Submit manufacturer’s certification materials comply with requirements specified.

E. Site Samples: At locations required, provide a Sample of sealant for each typical installation, approximately 24" long, including joint preparation, backing, sealant and tooling. Allow backing to extend 6" beyond end of sealant for inspection of substrate.

F. Test Reports: Submit manufacturer's adhesion compatibility test reports according to ASTM C 794 for each substrate.

1.03 QUALITY ASSURANCE

A. Qualifications of Installer: The Work of this section shall be installed by a firm which has been in the business of installing similar materials for at least 5 consecutive years; and can show evidence of satisfactory completion of 5 projects of similar size and scope. Installer shall have applicators trained and approved by manufacturer for performing this Work.

1.04 DELIVERY, STORAGE AND HANDLING

A. Store in accordance with manufacturer's recommendations. Provide a uniform ambient temperature between 60 and 80 degrees F.

1.05 WARRANTY

A. Manufacturer shall provide a 5 year material warranty.

B. Installer shall provide a 2 year labor warranty.

PART 2 - PRODUCTS

2.01 GENERAL

A. Furnish sealants meeting following in-service requirements:

1. Normal curing schedules are permitted.

2. Non-staining, color fastness (resistance to color change), and durability when subjected to intense actinic (ultraviolet) radiation are required.

B. Furnish the products of only one manufacturer unless otherwise required, sealant colors as selected to match the adjoining surfaces.

2.02 MATERIALS

A. Sealants:

1. Sealant 1: Acrylic latex, one-part, non-sag, mildew resistant acrylic emulsion compound complying with ASTM C 834, Type S, Grade NS, formulated to be paintable.

a. Tremco Inc., Acrylic Latex Caulk.

b. Bostik Construction Products Division, Chem-Calk 600.

c. Pecora Corporation, AC-20.

2. Sealant 2: Butyl sealant, one-part, non-sag solvent-release-curing sealant complying with FS TT-S-001657 for Type 1 and formulated with a minimum of 75 percent solids.

a. Tremco Inc., Tremco Butyl Sealant.

b. Bostik Construction Products Division, Chem-Calk 300.

c. Pecora Corp., BC-158.

3. Sealant 3: Silicone sealant, one-part non-acid-curing silicone sealant complying with ASTM C 920, Type S, Grade NS, Class 25.

a. Dow Corning Corp., Dow Corning 790, 791, 795.

b. General Electric Co., Silpruf.

c. Tremco, Inc., Spectrem 1.

d. Pecora Corp., 864.

4. Sealant 4: One-part mildew-resistant silicone sealant, complying with ASTM C 920, Type S, Grade NS, Class 25.

a. Dow Corning Corp., Dow Corning 786.

b. General Electric Co., Sanitary 1700.

c. Tremco, Inc., Proglaze White.

d. Pecora Corp. 863 White.

5. Sealant 5: One-part non-sag urethane sealant, complying with ASTM C 920, Type S, Grade NS, Class 25.

a. Bostik Construction Products Div., Chem-Calk 900.

b. Mameco International, Inc., Vulkem 116.

c. Tremco, Inc., Dymonic.

d. Sika Corporation, Sikaflex 1-A.

6. Sealant 6: Multi-part pouring urethane sealant, complying with ASTM C 920, Type M, Grade P, Class 25.

a. Tremco, Inc., HPL.

b. Mameco International, Inc., Vulkem 255.

c. Sika Corporation, Sikaflex 2C NS/SL.

d. W.R. Meadows, Pourthane.

7. Sealant 7: Acoustical sealant, non-drying, non-hardening permanently flexible conforming to ASTM D 217.

a. Pecora Corp., BA-98 Acoustical Sealant.

b. Tremco, Inc., Tremco Acoustical Sealant.

c. United States Gypsum Co., Sheetrock Acoustical Sealant.

B. Penetrations Through Fire Barriers: Refer to Section 07840: Fire Stops and Smoke Seals.

1. 3M Brand Fire Barrier Calk CP-25.

2. 3M Brand Fire Barrier Putty 303.

C. Joint Backing: ASTM D 1056; round, closed cell Polyethylene Foam Rod; oversized 30 to 50 percent larger than joint width, reticulated polyolefin foam.

D. Primer: Non-Staining Type. Provide primer as required and shall be product of manufacturer of installed sealant.

E. Lacquer sealer shall be clear, as recommended by sealant manufacturer.

F. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer.

G. Sealants shall have normal curing schedules, shall be nonstaining, color fast and shall resist deterioration due to ultraviolet radiation.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify that joint openings are ready to receive Work and field tolerances are within the guidelines recommended by sealant manufacturer.

3.02 SURFACE PREPARATION

A. Joints and spaces to be sealed shall be completely cleaned of all dirt, dust, mortar, oil, and other foreign materials which might adversely affect caulking Work. Where necessary, degrease with an solvent or commercial degreasing agent. Surfaces shall be thoroughly dry before application of sealants.

B. If recommended by manufacturer, remove paint and other protective coatings from surfaces to be calked before priming and installation of sealants.

C. Preparation of surfaces to receive sealant shall conform to the sealant manufacturer's specifications. Provide air pressure or other methods to achieve required results. Provide masking tape to keep sealants off surfaces that will be exposed in finished Work.

D. Etch concrete or masonry surfaces to remove excess alkalinity, unless sealant manufacturer's printed instructions indicate that alkalinity does not interfere with sealant bond and performance. Etch with 5 percent solution of muriatic acid; neutralize with dilute ammonia solution, rinse thoroughly with water and allow to dry before sealant installation.

E. Perform preparation in accordance with ASTM C 804 for solvent release sealants, and ASTM C 962 for elastomeric sealants.

F. Protect elements surrounding Work of this section from damage or disfiguration.

3.03 SEALANT APPLICATION SCHEDULE

	Location	Type	Color
A.	Exterior & Interior joints in horizontal surfaces of concrete; between metal & concrete masonry and mortar.	Sealant 6	To match adjacent material
B.	Under thresholds.	Sealant 2	Black
C.	All interior joints not otherwise scheduled	Sealant 1	To Match Adjacent Surfaces
D.	Heads and sills, perimeters of frames and other openings in insulated partitions	Sealant 7	Match Adjacent Surfaces

3.04 APPLICATION

A. Provide sealant around all openings in exterior walls, and any other locations indicated or required for structure weatherproofing and/or waterproofing.

B. Sealants shall be installed by experienced mechanics using specified materials and proper tools. Preparatory Work (cleaning, etc.) and installation of sealant shall be as specified and in accordance with manufacturer's printed instructions and recommendations.

C. Concrete, masonry, and other porous surfaces, and any other surfaces if recommended by manufacturer, shall be primed before installing sealants. Primer shall be installed with a brush that will reach all parts of joints to be filled with sealant.

D. Sealants shall be stored and installed at temperatures as recommended by manufacturer. Sealants shall not be installed when they become too jelled to be discharged in a continuous flow from gun. Modification of sealants by addition of liquids, solvents, or powders is not permitted.

E. Sealants shall be installed with guns furnished with proper size nozzles. Sufficient pressure shall be furnished to fill all voids and joints solid. In sealing around openings, include entire perimeter of each opening, unless indicated or specified otherwise. Where gun installation is impracticable, suitable hand tools shall be provided.

F. Sealed joints shall be neatly pointed on flush surfaces with beading tool, and internal corners with a special tool. Excess material shall be cleanly removed. Sealant, where exposed, shall be free of wrinkles and uniformly smooth. Sealing shall be complete before final coats of paint are installed.

G. Comply with sealant manufacturer's printed instructions except where more stringent requirements are indicated on Drawings or specified.

H. Partially fill joints with joint backing material, furnishing only compatible materials, until joint depth does not exceed 1/2 inch joint width. Minimum joint width for metal to metal joints shall be 1/4 inch. Joint depth, shall be not less than 1/4 inch and not greater than 1/2 inch.

I. Install sealant under sufficient pressure to completely fill voids. Finish exposed joints smooth, flush with surfaces or recessed as indicated. Install non-tracking sealant to concrete expansion joints subject to foot or vehicular traffic.

J. Where joint depth prevents installation of standard bond breaker backing rod, furnish non-adhering tape covering to prevent bonding of sealant to back of joint. Under no circumstances shall sealant depth exceed 1/2 inch maximum, unless specifically indicated on Drawings.

K. Prime porous surfaces after cleaning. Pack joints deeper than 3/4 inch with joint backing to within 3/4 inch of surface. Completely fill joints and spaces with gun applied compound, forming a neat, smooth bead.

3.05 MISCELLANEOUS WORK

A. Sealing shall be provided wherever required to prevent light leakage as well as moisture leakage. Refer to Drawings for condition and related parts of Work.

B. Install sealants to depths as indicated or, if not indicated, as recommended by sealant manufacturer but within following general limitations:

1. For joints in concrete walks, slab and paving subject to traffic, fill joints to a depth equal to 75 percent of joint width, but not more than 3/4 inch deep or less than 3/8 inch deep, depending on joint width.

2. For building joints, fill joints to a depth equal to 50 percent of joint width, but not more than 1/2 inch deep or less than 1/4 inch deep.

3.06 CLEANING

A. Remove rubbish, debris, and waste materials and legally dispose of off the Project site.

3.07 CURING

A. Sealants shall cure in accordance with manufacturer's printed recommendations. Do not disturb seal until completely cured.

3.08 PROTECTION

A. Protect the Work of this section until Substantial Completion.

END OF SECTION

SECTION 08110

HOLLOW METAL DOOR FRAMES

PART 1 - GENERAL

1.01 SUMMARY

A. Provisions of 00800 Special Conditions apply to this section.

B. Section Includes:

1. Hollow metal frames as indicated.

C. Related Sections:

1. Section 07920: Joint Sealants.

2. Section 08210: Wood Doors.

3. Section 08710: Door Hardware.

5. Section 09900: Paints and Coatings.

1.02 SYSTEM DESCRIPTION

A. Design Requirements: Door-and-frame assemblies or frames shall include all reinforcing and provisions for hardware as shown and specified. Drawings indicate profile and general details of steel frame fabrication and installation, in addition to referenced details 1, 2, 3 and 3A in this section.

1.03 SUBMITTALS

A. Shop Drawings: Submit composite Shop Drawings indicating detailed relationships of installation including Work of adjacent construction, finish hardware, security, fire and life safety devices, glazing, caulking, and requirements for field installation. Include elevations of each hollow metal frame type, location schedule of doors and frames indicating same reference for details and openings as indicated on Drawings, conditions of openings of various wall sections and materials, typical and special details of construction, methods of assembling sections, location and installation requirements for hardware, material size, shape, and thickness, and all joints and connections.

B. Product Data: Submit manufacturer's Product Data indicating composition and construction for each fabricated item including louvers, coatings, finishes, and other components demonstrating compliance with referenced standards.

C. Certification: Submit certification of compliance with referenced standards and specified criteria, including but not limited to fire ratings in accordance with UL 10C, Physical Endurance in accordance with ANSI A250.4 and Prime Paint performance in accordance with ANSI A250.10..

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Minimum documented experience of more than five years in work of this section.

B. Installer Qualifications: Minimum documented experience of more than five years in work of this section

C. Coordinate with hardware supplier for fabrication of doors and frames to receive hardware items.

E. References: Work shall comply with physical and performance requirements of following standards, including all standards referenced in them, except for more stringent provisions specified herein or required by regulatory agencies:

1. ANSI/SDI A250.8 - 2003, SDI 100 Recommended Specifications for Standard Steel Doors and Fames.

2. HMMA, Guide Specifications for Commercial Hollow Metal Doors & Frames (Standard of National Association of Architectural Metal Manufacturers).

3. ANSI/SDI A250.4, Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frame Anchors and Hardware Reinforcings.

4. ANSI A250.10, Test Procedure and Acceptance Criteria for Prime Painted Steel Doors and Frames.

5. ANSI A250.6, Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.

F. Standards of Workmanship and Installation:

1. Finished Work shall be of uniform profile, accurately fabricated, rigid and strong, square and true, neat in appearance, smooth and free from dents, waves, warps, buckles, open joints, tool marks and/or other defects.

2. Steel sheet shall be clean with smooth surfaces free of scale, pitting or other defects.

3. Construction joints shall be flush, tight and welded their full length, ground flush and smooth on exposed surfaces.

4. All frame and door reinforcing and hardware provisions shall be performed in fabrication shop. Provide all cuts, welds, and other fabrications before galvanizing or shop priming.

5. Lines and molded members shall be straight and true with angles as sharp as practical for thickness involved, surfaces flat, and fastenings concealed.

1.05 DELIVERY, STORAGE AND HANDLING

A. Frames: Before shipment, install temporary spreaders at bottom of bucks and do not remove until frames are installed.

B. Inspect hollow metal Work upon delivery for damage. Remove and replace damaged items with new Work as required.

C. Store frames in an upright position at Project Site under cover and protected from weather-related elements. Do not store frames under plastic or canvas shelters that can create a humidity chamber. If shipping packaging becomes wet, immediately remove packaging.

1.06 WARRANTY

A. Manufacturer shall provide a 1 year material and workmanship warranty.

B. Installer shall provide a 2 year labor warranty.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. All frames shall be products of a single manufacturer.

B. The following are acceptable manufacturers, as are others that can demonstrate their products are equivalent in quality, performance and compliance with these specifications.

1. Security Metal Products Corp.

2. Curries Manufacturing, Inc.

3. Steelcraft.

4. Amweld Metal Doors and Frames.

5. Stiles Custom Metal, Inc.

6. Door Components Inc.

7. CECO Door.

C. All materials, fabrication and installation must comply with requirements of standards referenced in Section 1.04, Quality Assurance.

2.02 MATERIALS

A. Steel

1. Exterior Frames: Galvanized Carbon Sheet Steel, Commercial Quality, A60 zinc coating (0.30 ounces per square foot per side), ASTM A653.

2. Interior Frames: Cold-Rolled Steel Sheets, Commercial Quality Carbon Steel, ASTM A1008.

3. Steel shall be free of scale, pitting, coil breaks or other surface blemishes, and free of buckles, waves or other defects.

4. Steel thicknesses expressed in steel gages (MSG) is for reference only. Actual steel thicknesses must meet minimum requirements of ASTM standards and as described in ANSI/SDI A250.8.

B. Supports and Anchors: Fabricate from a minimum 16 gauge galvanized sheet steel unless noted otherwise.

C. Fasteners: Provide as shown on Drawings and to suit conditions of secure installations. Furnish 304 Grade stainless steel types at exterior doors.

D. Shop Paint:

1. Conform to Steel Structures Painting Council (SSPC) for all steel components.

2. Pretreatment/priming coatings shall be compatible with Project site finish painting system in accordance with Section 09900.

3. At frames to be grouted, all surfaces that are inaccessible after installation shall be coated with bituminous or asphaltic base paint.

2.03 FABRICATION GENERAL

A. General: Fabricate hollow metal units to be rigid, neat in appearance, and free from defects including warp or buckle.

1. Accurately form metal to required sizes and profiles. Fit and assemble all units in manufacturer's plant. Where practical, factory or shop fit and assemble units for shipment.

2. Weld all joints continuously; grind, dress, and make smooth, flush, and invisible. Filler to conceal manufacturing defects or damage is not permitted.

3. Corner Joints: Finish corner joints by mitering, or coping and butting, or a combination of both. Trim and backbend shall be continuous around corner.

4. Continuously weld joints for full depth and width of frame, trim, and backbends.

2.04 FRAMES

A. General: Provide fully welded steel frames with integral stops and trim for doors, transoms, sidelights, borrowed lights, and other openings, and with details indicated for type and profile. Use concealed fastenings, unless otherwise indicated.

B. Metal Thickness of Frames (minimum):

1.	Interior hollow metal frames up to 4’-0” wide	16 gage
2.	Interior hollow metal frames wider than 4’-0”	14 gage
3.	Exterior hollow metal frames	14 gage
4.	Borrowed lights up to 4’-0” wide	16 gage

C. Supports and Anchors: Fabricate from at least 16-gage, galvanized steel sheet. Frame anchors shall comply with fire rated label requirements of opening.

1. Floor Anchors:

a. Minimum thickness: 12 gage galvanized steel sheet or bent steel plate, securely fastened inside each jamb, with two holes in anchor at each jamb for 3/8” floor anchorage fasteners. For preframed wood stud walls provide and additional wood stud anchor located as close to the bottom of the jamb as is practical.

b. Where required at sloping and uneven floor conditions, or to coordinate adjustments for trim alignments, provide adjustable floor anchors, providing at least 2” height adjustments.

2. Jamb Anchors:

a. Locate anchors near top and bottom and at intermediate points not to exceed 24 inches on center. Provide 2 anchors per head for openings up to 48 inches wide; over 48 inches wide provide anchors at 24 inches on center maximum.

b. Anchors in masonry construction: Provide manufacturers standard jamb anchors. Steel wire complying with ASTM A510, 0.177 inch in diameter, may be furnished.

c. Anchors in Stud Partitions: Provide steel anchors, 16 gauge minimum sheet steel, of design to suit partition construction, securely welded inside each jamb.

d. Through-Frame Anchors: At frames indicated to be anchored with bolts through frame, provide countersunk holes for bolts with 16 gauge minimum sheet steel stiffeners full thickness of frame, and securely welded inside each frame at each hole.

D. Inserts, Bolts, and Fasteners: Provide manufacturer's standard units. Where zinc-coated items are to be built into exterior walls, comply with ASTM A153 Class C or D as required.

E. Head Reinforcing: Refer to Detail #2 of this section. Reinforcing shall not act as lintel or load-carrying member and shall comply with fire rating requirements. Provide at all frames regardless of whether or not closer is called for.

F. Hardware Reinforcement and Accessories:

1. Butt Hinge: 7 gage minimum.

2. Continuous hinge: 14 gage continuous strip reinforcing.

3. Head assemblies: Reinforced internally with, full length, 10 gage angles on each side of frame and bar at bottom of stop for closer reinforcement in all frames as shown in Detail #2 of this section.

4. Reinforcing for other items of finish hardware shall be accomplished according to ANSI A250.6.

5. Plaster Guards: Provide 26 gage galvanized steel plaster guards or dust cover boxes, welded to frame, at back of finish hardware cutouts where mortar or other materials might obstruct hardware operation and to close off interior of openings.

G. Mullion and Transom bars: Furnished and fabricated as specified for frames.

H. Glazed Openings: Applied stops with mitered or butted corners, of minimum 18 gage galvanized steel, one-piece lengths, secured within 3” of ends and at 12” centers with oval head countersunk tamper resistant screws. Corner joints shall be furnished with contact edges closed tight, with trim faces mitered and continuously welded. Frames for multiple openings shall be provided with mullion and/or rail members, fabricated of closed tubular shapes with no visible seams or joints. All joints between faces of

abutting members shall be securely welded and finished smooth. Provide condensate weeps 4 inches on centers, maximum.

I. Door Silencers: Except for exterior doors, drill and punch frames for three silencers at lock jamb of single swing doors or in double doors with astragal and one silencer per leaf in heads of doubled door frames.

J. Where frames are installed in walls sitting on a concrete curb, provide a closure plate or extend backbends to provide closure where frame abuts concrete curb.

K. Hardware Reinforcement and Accessories:

1. Provide sheet steel or plate reinforcement for finish hardware items wherever necessary. Mortise, drill and tap to template requirements for mortise type hardware.

2. Butt reinforcing: 7 gage minimum, of length 4" longer than length of butt. Minimum 3 spot welds at top and bottom.

3. Door closer reinforcement: 14 gage minimum steel channel, 6" high on each side of door.,. Reinforcement to extend full width of door in accordance with Detail #1 of this section.

4. Other Hardware Requirements: Cut, reinforce, drill, and tap doors and frames for other hardware, including energy management switches or contacts and security devices, in accordance with furnished hardware templates for accessory items. Thickness and size of reinforcement shall be as required by ANSI A250.6.

2.06 SHOP PRIMING

A. All exposed and concealed metal surfaces of all hollow metal doors, frames and other hollow metal Work of this Section shall be bonderized and then shop primed.

B. Exposed surfaces of doors, frames and accessories shall be filled, sanded smooth and cleaned before painting.

C. All exposed surfaces shall be shop primed after assembly.

PART 3 - EXECUTION

3.01 FRAME INSTALLATION

A. Install steel frames accurately in location, perfect alignment, plumb, straight and true. Brace frames to prevent displacement.

B. Anchor frames in concrete and concrete unit masonry with galvanized anchor bolts; 3/8 inch diameter, counter-sunk at 24 inches on center at head and jamb unless noted otherwise.

C. Anchor frames in steel and wood frame partitions with manufacturer recommended anchors.

D. Install frame at fire rated openings in accordance with NFPA Standard No. 80.

E. Furnish filler for anchor attachment screws, and sand smooth.

3.02 PRIME COAT TOUCH-UP

A. Immediately after installation, remove rust, repair damaged surfaces to new condition, sand smooth, and install touch-up primer.

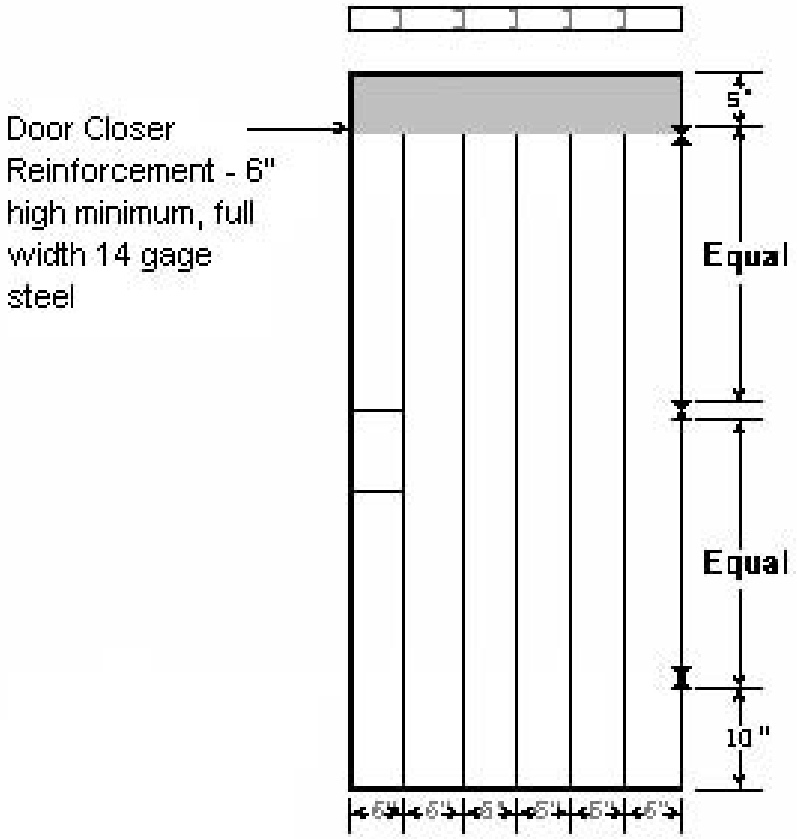
3.03 CLEAN UP

A. Remove rubbish, debris and waste materials and legally dispose of off Project site.

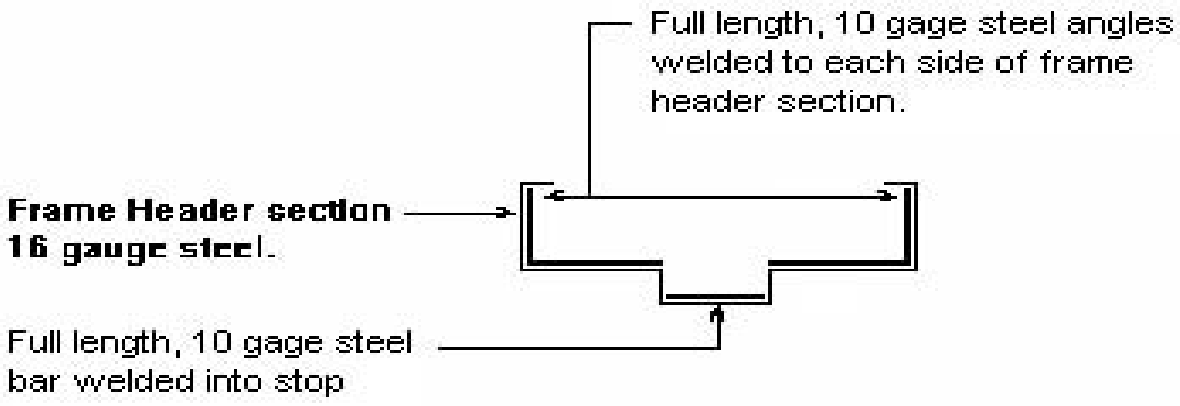
3.04 PROTECTION

A. Protect Work of this section until Substantial Completion.

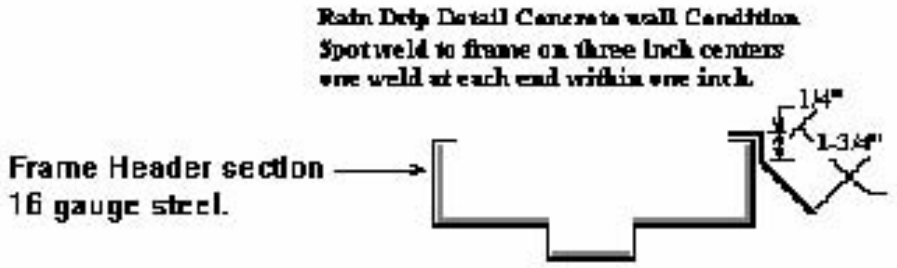
Detail # 1 - Door Hardware Reinforcement



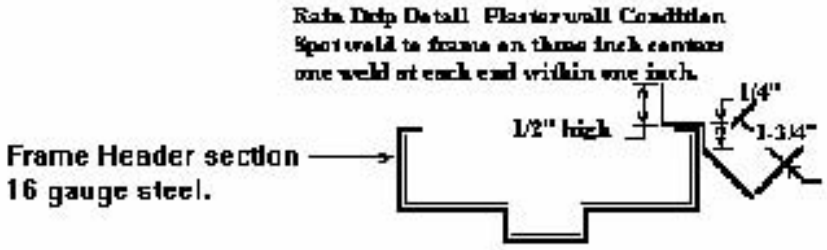
Detail # 2 – Frame Header Reinforcement
Door Closer reinforcement for all steel door frames.



Detail # 3 - Concrete Wall Condition Rain Drip
Detail fro Exterior Door where Rain Drip Required
Exterior Side with rain drip welded in place.



Detail # 3A
Plaster Wall Condition -
Detail for Exterior doors where rain drip is required.
Exterior side with rain drip welded in place.



END OF SECTION

SECTION 08210

WOOD DOORS

PART 1 - GENERAL

1.01 SUMMARY

A. Provisions of 00800 Special Conditions apply to this section.

B. Section Includes:

1. Wood doors.

C. Related Sections:

1. Section 08110: Steel Doors and Frames

2. Section 08710: Door Hardware.

3. Section 09900: Paints and Coatings.

1.02 SYSTEM DESCRIPTION

A. Design Requirements: Drawings indicate sizes, locations and general details of wood door construction and installation.

B. Regulatory Requirements:

1. Fire rated doors shall be listed by a nationally recognized testing and certification agency in accordance with local building codes and acceptable to the authorities having jurisdiction. The listed doors shall meet or exceed the requirements of UL10B, NFPA 252 and NFPA 80. All door requiring fire-rating shall carry either a UL or ITS (Intertek Testing Services-Warnock Hersey) label.

2. Comply with CBC requirements. Provide products that have been tested and passed as an assembly in compliance with CBC Standard 7-2 positive pressure smoke testing requirements.

3. ASTM E 2074 – Standard Test Method for Fire Tests of Door Assemblies, Including Positive Pressure on Side-Hinged and Pivoted Swinging Door Assemblies.

1.03 SUBMITTALS

A. Shop Drawings: Submit schedules, plans, elevations and details indicating door construction details, opening identification symbols, sizes, door type and grade, fire classification, swing, light and louver cutout size and locations, and undercuts.

B. Product Data: Submit manufacturers technical data for each specified door type, including details of wood species, design and construction, factory finishing specifications and installation instructions.

C. Construction Samples: Submit 3 samples of not less than 6 inches by 6 inches for each type of door to be furnished, showing face, edge and core construction.

D. Color/finish Samples: Submit 3 samples of not less than 4 inches by 6 inches on representative door finish and 3 samples of 3 inches by 8 inches for the exposed edges. Each sample shall bear a label identifying the job name, Architect, Contractor and the Woodwork Insitute finish system number.

E. Certificates:

1. Submit Certificate that solid core fire doors comply with all requirements of ANSI/WDMA I.S. 1A-97..

2. Submit certification that doors comply with CBC 7-2 or UL 10B.

1.04 QUALITY ASSURANCE

A. Wood doors shall conform to industry standard and all requirements of the American National Standards Institute, Inc., the Window & Door Manufacturers Association's Architectural Wood Flush Door Section standard ANSI / WDMA I.S. 1A-97 including the latest revisions, and special requirements herein specified.

B. All doors shall be fabricated by the manufacturer to the dimensions specified.

C. Doors shall be products of one manufacturer.

D. Door modifications are not permitted, unless reviewed by the Architect.

1.05 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in manufacturers original, unopened, undamaged containers with identification labels intact.

B. Deliver doors to the Project site only after building has been provided with design temperature and humidity.

C. Store and handle in accordance with ANSI / WDMA I.S.1A-97. Store doors protected from exposure to harmful conditions and at temperature and humidity conditions recommended by the manufacturer.

1.06 PROJECT CONDITIONS

A. Do not install doors until building is enclosed and ambient conditions are within the temperature and humidity range recommended by door manufacturer.

1.07 WARRANTY

A. Manufacturer shall provide a 2 year material warranty for exterior doors.

B. Manufacturer shall provide a life time material warranty for interior doors.

C. Installer shall provide a 2 year labor warranty for all doors.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Provide products manufactured by one of the following:

1. Algoma Hardwood Inc.

2. Brentwood Manufacturing.

3. Eggers Industries.

4. Mohawk Flush Door, Inc.

5. Western Oregon Door.

2.02 DOOR CONSTRUCTION

A. Exterior Flush Doors:

1. Exterior doors shall be furnished as follows:

a. Opaque Finished (Painted): Custom Grade. Solid wood core flush veneered, 5 ply, faced both sides with smooth resin fiber medium density overlay, bonded to core.

2. Staved Lumber Core shall be low density, thoroughly kiln-dried wood blocks not more than 2-1/2 inches wide, with joints staggered, and random lengths.

3. Edge strips: Shall be kiln-dried birch or maple

a. Transparent Finished Doors: Same species as face veneer or similar in overall color, grain, character and contrast as the face veneer.

b. Opaque Finished Doors: Closed grain hardwood.

4. Full stile edge strip shall be not less that 2 inches wide. Stiles shall be fully bonded to the core. The outer face stiles shall be full length ¾ inch birch or maple. The inner back stile shall be 1-1/4 inches, 2 ply of similar species which may have four finger joints well staggered or be full lengths.

5. Top rail shall be a minimum of 2 inches with a maximum of 3 plies. Bottom rail shall be a minimum of 5 inches with a maximum of 6 plies. The outer rail faces shall be full length 7/8 inch of same species as edge strips. The inner rails shall be full length of similar species. Rails shall be fully bonded to core.

6. Crossbanding: Doors shall be furnished with full width crossbanding of properly dried hardwood, 1/16 inch thick, with a density of 52 pounds or higher per cubic foot.

7. Face Veneer for Opaque Finished Doors: Custom grade "A" medium density overlay.

8. Adhesive and Bonding: Bonding between veneer plies of wood face panels, and between door faces, frame and core unit shall be fabricated with type I waterproof cross-linking emulsion PVA adhesive.

9. Openings: Openings for lights, louvers and grilles, shall be fabricated by manufacturer, or in a certified door service mill in accordance with manufacturer's details, and in compliance with approved testing agency.

B. Interior Flush Doors:

1. Interior doors shall be furnished as follows:

   a. Transparent Finished (Stained): Custom grade. Solid wood core flush veneered, 5 ply minimum, faced both sides with faced veneer, fully bonded to core.

2. Staved Lumber Core shall be low density, thoroughly kiln-dried wood blocks not more than 2-1/2 inches wide, with joints staggered, and random lengths.

3. Edge strips: Kiln-dried birch, maple or other material as indicated.

   a. Transparent Finished Doors: Same species as face veneer or similar in overall color, grain, character and contrast as the face veneer.

   b. Opaque Finished Doors: Closed grain hardwood.

4. Full stile edge strip shall be not less that 1-1/2 inches wide, 2 ply stile. Stiles shall be fully bonded to the core. The outer face stile shall be full length ¾ inch birch or maple. The inner back stile shall be ¾ inch of similar species which may have two finger joints fully bonded to core.

5. Top and bottom edge rails shall be full length and may be of glued up stock of similar species as edge strip, white fir or douglas fir, minimum density 24.33 pounds or higher per cubic foot. Top rail shall be minimum of 2 inches. Bottom rail shall be minimum of 5 inches fully bonded to core.

6. Crossbanding: Doors shall be furnished with full width crossbanding of properly dried hardwood or engineered fiber composite material, 1/16 inch thick, with a density of 52 pounds or higher per cubic foot.

7. Face Veneer for Transparent Finished Doors: Custom grade, veneer shall be Grade"A". Minimum thickness shall be 0.0277 inches before sanding and 0.020 inches after sanding of specified face veneer.

a. Veneer Species: Maple

b. Veneer Cut: Rotary

c. Veneer Match: Book

8. Adhesive and Bonding: Bonding between veneer plies of wood face panel, and between door faces, frame and core unit shall be fabricated with type I or II waterproof adhesives for interior doors.

C. FireRated Doors:

1. All fire doors must meet the requirements of recognized fire door tests and bear certifying labels of an approved independent testing agency.

2. With exception to the requirements that would adversely affect the fire rating, rated doors shall meet the specifications listed in this section.

3. Door shall be constructed that when installed as an assembly and tested it will pass ASTM E-2074 “Standard Test Method for Fire Test of Door Assemblies Including Positive Pressure Testing of Side-Hinged and Pivoted Swinging Door Assemblies,” and can be rated as required.

4. Reinforcement Blocking: Provide hardware reinforcement blocking of size as required to secure specified hardware. Reinforcement blocking shall be in compliance with the manufacturer’s labeling requirements and shall not be of mineral material.

2.03 FINISHING:

A. JOB SITE FINISHING:

1. Doors indicated to be job site finished shall be factory back primed.

a. Doors Scheduled for Opaque Paint finish: Prime with one coat of wood primer indicated on Section 09900, Paints and Coatings.

b. DoorsSchedules for Transparent Finish: Prime with stain and first coat of finish as indicated in Section 09900, Paints and Coatings.

2. Door Finish: Per Section 09900, Paints and Coatings.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install Work of this section as specified in the Woodwork InstituteI Manual of MillWork, Section 12 and provide a Woodwork Institute Certified Compliance Certificate for Installation at Substantial Completion. Install fire doors in accordance with NFPA 80.

B. Provide each door accurately cut, trimmed, and fitted to its frame and hardware. Clearance at lock and hanging stile and at top shall be 1/8 inch, and bottom shall not exceed 1/4 inch except where otherwise indicated. Arises shall be rounded to a 1/16 inch radius, and lock rail edges shall be slightly beveled. Screws for hardware shall not be driven but screwed into pre-drilled holes.

C. Doors shall operate freely, but not loosely, without sticking or binding, without hinge-bind conditions and with hardware properly adjusted and functioning.

3.02 CLEAN UP

A. Remove rubbish, waste and debris and legally dispose of off the Project site.

3.03 PROTECTION

A. Protect the Work of this section until Substantial Completion.

END OF SECTION

SECTION 08710

DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Door Hardware.
2. Storefront and entrance door hardware.
3. Gate Hardware.
4. Padlocks.
5. Cylinders.

B. Related Sections:

1. Section 06200 - Finish Carpentry: Finish Hardware Installation
2. Section 07900 - Joint Sealers – exterior thresholds
3. Section 08100 - Metal Doors and Frames
4. Section 08200 - Wood Doors
5. Section 08300 - Special Doors
6. Section 08400 - Entrances and Storefronts
7. Section 16722 - Fire/Life-Safety System
8. Section 16724 - Security Access Systems

C. Specific Omissions: Hardware for the following is specified or indicated elsewhere.

1. Windows.
2. Cabinets.
3. Installation.
4. Rough hardware.
5. Sliding aluminum doors, except cylinders where detailed.

1.2 REFERENCES:

Use date of standard in effect as of Bid date.

A. American National Standards Institute – ANSI 156.18 – Materials and Finishes.

B. BHMA – Builders Hardware Manufacturers Association

C. DHI – Door and Hardware Institute

D. NFPA – National Fire Protection Association

1. NFPA 80 – Fire Doors and Windows

2. NFPA 105 – Smoke and Draft Control Door Assemblies

3. NFPA 252 – Fire Tests of Door Assemblies

E. UL – Underwriters Laboratories

1. UL10C – Positive Pressure Fire Tests of Door Assemblies.

2. UL 305 – Panic Hardware

F. WHI – Warnock Hersey Incorporated

G. 2010 State of California Building Code

H. Local applicable codes

I. SDI – Steel Door Institute

J. WI – Woodwork Institute

K. AWI – Architectural Woodwork Institute

L. NAAMM – National Association of Architectural Metal Manufacturers

1.3 SUBMITTALS & SUBSTITUTIONS

A. SUBMITTALS: Submit six copies of schedule per Section 01330. Only submittals printed one sided will be accepted and reviewed. Organize vertically formatted schedule into “Hardware Sets” with index of doors and headings, indicating complete designations of every item required for each door or opening. Include following information:

1. Type, style, function, size, quantity and finish of hardware items.

2. Use BHMA Finish codes per ANSI A156.18.

3. Name, part number and manufacturer of each item.

4. Fastenings and other pertinent information.

5. Description of door location using space names and numbers as published in the drawings.

6. Explanation of abbreviations, symbols, and codes contained in schedule.

7. Mounting locations for hardware.

8. Door and frame sizes, handing, materials, fire-rating and degrees of swing.

9. List of manufacturers used and their nearest representative with address and phone number.

10. Catalog cuts.

11. Wiring Diagrams.

12. Manufacturer's technical data and installation instructions for electronic hardware.

13. Date of jobsite visit.

B. Bid and submit manufacturer's updated/improved item if scheduled item is discontinued.

C. Deviations: Highlight, encircle or otherwise identify deviations from "Schedule of Finish Hardware" on submittal with notations clearly designating those portions as deviating from this section.

D. If discrepancy between drawings and scheduled material in this section, bid the more expensive of the two choices, note the discrepancy in the submittal and request direction from Architect for resolution.

E. Substitutions per Division 1. Include product data and indicate benefit to the Project. Furnish operating samples on request.

F. Furnish as-built/as-installed schedule with closeout documents, including keying schedule, wiring diagrams, manufacturers' installation, adjustment and maintenance information, and supplier's final inspection report.

1.4 QUALITY ASSURANCE:

A. Qualifications:

1. Hardware supplier: direct factory contract supplier who employs a certified architectural hardware consultant (AHC), available at reasonable times during course of work for project hardware consultation to Owner, Architect and Contractor.

a) Responsible for detailing, scheduling and ordering of finish hardware. Detailing implies that the submitted schedule of hardware is correct and complete for the intended function and performance of the openings.

B. Hardware: Free of defects, blemishes and excessive play. Obtain each kind of hardware (latch and locksets, exit devices, hinges and closers) from one manufacturer.

C. Exit Doors: Operable from inside with single motion without the use of a key or special knowledge or effort.

D. Fire-Rated Openings: NFPA 80 compliant. Hardware UL10C / California State Fire Marshal Standard 12-7-4 (positive pressure) compliant for given type/size opening and degree of label. Provide proper latching hardware, non-flaming door closers, approved-bearing hinges, and resilient seals. Coordinate with wood door section for required intumescent seals. Furnish openings complete.

1. Note: scheduled resilient seals may exceed selected door manufacturer's requirements.

2. See 2.6.E for added information regarding resilient and intumescent seals.

E. Furnish hardware items required to complete the work in accordance with specified performance level and design intent, complying with manufacturers' instructions.

F. Pre-Installation Meetings: Initiate and conduct with supplier, installer and related trades, coordinate materials and techniques, and sequence complex hardware items and systems installation. Include manufacturers' representatives of locks, panic hardware and door closers in the meetings. Convene prior to commencement of related work.

1.5 DELIVERY, STORAGE AND HANDLING:

A. Delivery: coordinate delivery to appropriate locations (shop or field).

1. Permanent keys and cores: secured delivery direct to Owner's representative.

B. Acceptance at Site: Items individually packaged in manufacturers' original containers, complete with proper fasteners and related pieces. Clearly mark packages to indicate contents, locations in hardware schedule and door numbers.

C. Storage: Provide securely locked storage area for hardware, protect from moisture, sunlight, paint, chemicals, dust, excessive heat and cold, etc.

1.6 PROJECT CONDITIONS AND COORDINATION:

A. Where exact types of hardware specified are not adaptable to finished shape or size of members requiring hardware, provide suitable types having as nearly as practical the same operation and quality as type specified, subject to Architect's approval.

B. Coordination: Coordinate hardware with other work. Furnish hardware items of proper design for use on doors and frames of the thickness, profile, swing, security and similar requirements indicated, as necessary for proper installation and function, regardless of omissions or conflicts in the information on the Contract Documents. Furnish related trades with the following information:

1. Location of embedded and attached items to concrete.
2. Location of wall-mounted hardware, including wall stops.
3. Location of finish floor materials and floor-mounted hardware.
4. Locations for conduit and raceways as needed for electrical, electronic and electro-pneumatic hardware items. Fire/life-safety system interfacing. Point-to-point wiring diagrams plus riser diagrams to related trades.
5. Manufacturer templates to door and frame fabricators.

C. Check Shop Drawings for doors and entrances to confirm that adequate provisions will be made for proper hardware installation. Do not order hardware until the submittal has been reviewed by the frame and door suppliers for compatibility with their products.

D. Prior to submittal, carefully inspect existing conditions at each opening to verify finish hardware required to complete Work, including sizes, quantities, existing hardware scheduled for re-use, and sill condition material. If conflict or incompatibility between the specified/scheduled hardware and existing conditions, submit request for direction from Architect. Include date of jobsite visit in the submittal.

1. Submittals prepared without thorough jobsite visit by qualified hardware expert will be rejected as non-compliant.

1.7 WARRANTY:

A. Part of respective manufacturers' regular terms of sale. Provide manufacturers' written warranties:

1.	Locksets:	Three years
2.	Extra Heavy Duty Cylindrical Lock:	Seven Years
3.	Exit Devices:	Three years
4.	Closers:	Ten years
5.	Hinges:	One year
6.	Other Hardware	Two years

1.8 COMMISSIONING:

A. Conduct these tests prior to request for certificate of substantial completion:

1. With installer present, test door hardware operation with climate control system and stairwell pressurization system both at rest and while in full operation.
2. With installer, access control contractor and electrical contractor present, test electrical, electronic and electro-pneumatic hardware systems for satisfactory operation.
3. With installer and electrical contractor present, test hardware interfaced with fire/life-safety system for proper operation and release.

PART 2 PRODUCTS

2.1 MANUFACTURERS:

A. Listed acceptable alternate manufacturers: submit for review products with equivalent function and features of scheduled products.

ITEM:	MANUFACTURER:	ACCEPTABLE SUB:
Hinges	(IVE) Ives	Bommer
Key System (interior of lock)	(SCH) Schlage	Owner's Standard
Key System (exterior of lock)	(VID) Videx	Owner's Standard
Locks	(SCH) Schlage	Owner's Standard
Exit Devices	(VON) Von Duprin	Owner's Standard
Closers	(LCN) LCN	Owner's Standard
Auto Flush Bolts	(IVE) Ives	DCI
Coordinators	(IVE) Ives	DCI
Silencers	(IVE) Ives	Trimco
Push & Pull Plates	(IVE) Ives	Trimco
Kickplates	(IVE) Ives	Trimco
Stops & Holders	(IVE) Ives	Trimco
Overhead Stops	(GLY) Glynn-Johnson	None
Thresholds	(NGP) NGP	Zero
Seals & Bottoms	(NGP) NGP	Zero
Aluminum Door Locks	(ADA) Adams Rite	None

2.2 HINGING METHODS:

A. Drawings typically depict doors at 90 degrees, doors will actually swing to maximum allowable. Use wide-throw conventional or continuous hinges as needed up to 8 inches in width to allow door to stand parallel to wall for true 180-degree opening. Advise architect if 8-inch width is insufficient.

B. Conform to manufacturer's published hinge selection standard for door dimensions, weight and frequency, and to hinge selection as scheduled. Where manufacturer's standard exceeds the scheduled product, furnish the heavier of the two choices, notify Architect of deviation from scheduled hardware.

C. Conventional Hinges: Steel or stainless steel pins and concealed bearings. Hinge open widths minimum, but of sufficient throw to permit maximum door swing.

1. Outswinging exterior doors: non-ferrous with non-removable (NRP) pins and security studs.

2. Non-ferrous material exteriors and at doors subject to corrosive atmospheric conditions.

2.3 LOCKSETS, LATCHSETS, DEADBOLTS:

A. Mortise Locksets and Latchsets: as scheduled.

1. Chassis: cold-rolled steel, handing field-changeable without disassembly.

2. Latchbolts: 3/4 inch throw stainless steel anti-friction type.

3. Lever Trim: through-bolted, accessible design, cast lever or solid extruded bar type levers as scheduled. Filled hollow tube design unacceptable.

a) Spindles: security design independent breakaway. Breakage of outside lever does not allow access to inside lever's hubworks to gain wrongful entry.

b) Inside lever applied by screwless shank mounting – no exposed trim mount screws.

c) Outside and inside trim thru-bolted together and through the door.

4. Spring-loaded fusible link provides fail secure mode in case of fire.

5. Universal lock case – 10 functions in one case.

6. Floating mounting tabs automatically adjusts to fit a beveled door edge.
7. Field reversible handing without opening lock case.
8. External spring cages allow for simple trim retrofit.
9. Lever rotation in both directions(up & down) for ease of use.
10. Independent lever rotation.
11. Furnish solid cylinder collars with wave springs. Wall of collar to cover rim of mortise cylinder.
12. Thumbturns: accessible design not requiring pinching or twisting motions to operate.
13. Deadbolts: stainless steel 1-inch throw.
14. Electric operation: Manufacturer-installed continuous duty solenoid.
15. Strikes: 16 gage curved steel, bronze or brass with 1 inch deep box construction, lips of sufficient length to clear trim and protect clothing.
16. Scheduled Lock Series and Design: Schlage L series, 06A design, with “locked/unlocked” indicator where scheduled.
17. Certifications:
    a) ANSI A156.13, 1994, Grade 1 Operational, Grade 1 Security.
    b) ANSI/ASTM F476-84 Grade 31 UL Listed.
18. Accepted substitutions: None

B. Extra Heavy Duty Cylindrical Locks and Latches: as scheduled.
1. Chassis: cylindrical design, corrosion-resistant plated cold-rolled steel, through-bolted.
2. Locking Spindle: stainless steel, integrated spring and spindle design.
3. Latch Retractors: forged steel. Balance of inner parts: corrosion-resistant plated steel, or stainless steel.
4. Latchbolt: solid steel.
5. Backset: 2-3/4" typically, more or less as needed to accommodate frame, door or other hardware.
6. Lever Trim: accessible design, independent operation, spring-cage supported, minimum 2” clearance from lever mid-point to door face.
7. Electric operation: Manufacturer-installed continuous duty solenoid.

8. Strikes: 16 gage curved steel, bronze or brass with 1” deep box construction, lips of sufficient length to clear trim and protect clothing.

9. Lock Series and Design: Schlage ND series, “Rhodes” design, with engraved “locked/unlocked directional arrow” rose where scheduled.

10. Certifications:

    a) ANSI A156.2, 1994, Series 4000, Grade 1.

    b) UL listed for A label and lesser class single doors up to 4ft x 8ft.

11. Accepted substitutions: None

2.4 EXIT DEVICES / PANIC HARDWARE

A. General features:

1. Independent lab-tested 1,000,000 cycles.

2. Push-through push-pad design. No exposed push-pad fasteners, no exposed cavities when operated. Return stroke fluid dampeners and rubber bottoming dampeners, plus anti-rattle devices.

3. 0.75-inch throw deadlocking latchbolts.

4. End caps: impact-resistant, flush-mounted. No raised edges or lips to catch carts or other equipment.

5. No exposed screws to show through glass doors.

6. Non-handed basic device design with center case interchangeable with all functions, no extra parts required to effect change of function.

7. Releasable in normal operation with 15-lb. maximum operating force per California State Fire Marshal Standard 12-10-3, and with 32 lb. maximum pressure under 250-lb. load to the door.

8. Exterior doors scheduled with XP-series devices: Static load force resistance of at least 2000 pounds.

9. Where devices span over door lite frame and the face of the selected lite manufacturer’s frame is raised from the face of the door, furnish panic hardware manufacturer’s fitted shims or glass-bead kits at no additional cost to the project.

10. Comply with CBC Section 1003.3.1.9 and 1008.1.9.

B. Specific features:

1. Non-Fire Rated Devices: cylinder dogging.
2. Lever Trim: breakaway type, forged brass or bronze escutcheon min .130" thickness, compression spring drive, match lockset lever design.
3. Rod and latch guards with sloped full-width kickplates for doors fitted with surface vertical rod devices with bottom latches.
4. Removable Mullions: Removable with single turn of building key. Securely reinstalled without need for key. Furnish storage brackets for securely stowing the mullion away from the door when removed.
5. Accepted substitutions: None

2.5 CLOSERS

A. Surface Closers:

1. Full rack-and-pinion type cylinder with removable non-ferrous cover and cast iron body. Double heat-treated pinion shaft, single piece forged piston, chrome-silicon steel spring.
2. ISO 2000 certified. Units stamped with date-of-manufacture code.
3. Independent lab-tested 10,000,000 cycles.
4. Non-sized, non-handed, and adjustable. Place closer inside building, stairs, and rooms.
5. Plates, brackets and special templating when needed for interface with particular header, door and wall conditions and neighboring hardware.
6. Adjustable to open with not more than 5.0lbs pressure to open at exterior doors and 5.0lbs at interior doors. As allowed per California Building Code, Section 1133B.2.5, local authority may increase the allowable pressure for fire doors to achieve positive latching, but not to exceed 15lbs.
7. When provided, the sweep period of the closer shall be adjusted so that from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the landing side of the door.
8. Separate adjusting valves for closing speed, latching speed and backcheck, fourth valve for delayed action where scheduled.
9. Extra-duty arms (EDA) at exterior doors scheduled with parallel arm units.

10. Exterior door closers: tested to 100 hours of ASTM B117 salt spray test, furnish data on request.

11. Exterior doors: seasonal adjustments not required for temperatures from 120 degrees F to -30 degrees F, furnish checking fluid data on request.

12. Non-flaming fluid, will not fuel door or floor covering fires.

13. Pressure Relief Valves (PRV) not permitted.

14. Supply Special Rust Inhibitor(SRI) at corrosive environments. This special corrosion resistant pretreatment, when added to the powder coat finish, gives the closer a tremendous advantage over a potentially corrosive environment.

15. Accepted substitutions: None

2.6 OTHER HARDWARE

A. Automatic Flush Bolts: Low operating force design.

B. Overhead Stops: Non-plastic mechanisms and finished metal end caps. Field-changeable hold-open, friction and stop-only functions.

C. Kick Plates: Rounded and relieved edges, .050 inches minimum thickness, height and width as scheduled. Sheet-metal screws of bronze or stainless steel to match other hardware.

D. Door Stops: Provide stops to protect walls, casework or other hardware.

1. Unless otherwise noted in Hardware Sets, provide floor type with appropriate fasteners. Where floor type cannot be used, provide wall type. If neither can be used, provide overhead type.

2. Locate overhead stops for maximum possible opening. Consult with Owner for furniture locations. Minimum: 90deg stop / 95deg deadstop. Note degree of opening in submittal.

E. Seals: Finished to match adjacent frame color. Resilient seal material: polyurethane, polypropylene, nylon brush, silicone rubber or solid high-grade neoprene as scheduled. Do not furnish vinyl seal material. UL label applied to seals on rated doors. Substitute products: certify that the products equal or exceed specified material's thickness and durability.

1. Proposed substitutions: submit for approval.

2. Solid neoprene: MIL Spec. R6855-CL III, Grade 40.

3. Non-corroding fasteners at in-swinging exterior doors.

4. Sound control openings: Use components tested as a system using nationally accepted standards by independent laboratories. Ensure that the door leafs have the necessary sealed-in-place STC ratings. Fasten applied seals over bead of sealant.

5. Fire-rated Doors, Resilient Seals: UL10C / UBC Standard 7-2 compliant. Coordinate with selected door manufacturers' and selected frame manufacturers' requirements. Where rigid housed resilient seals are scheduled in this section and the selected door manufacturer only requires an adhesive-mounted resilient seal, furnish rigid housed seal at minimum, or both the rigid housed seal plus the adhesive applied seal. Adhesive applied seals alone are deemed insufficient for this project where rigid housed seals are scheduled.

6. Fire-rated Doors, Intumescent Seals: Furnished by selected door manufacturer. Furnish fire-labeled opening assembly complete and in full compliance with UL10C / UBC Standard 7-2. Where required, intumescent seals vary in requirement by door type and door manufacture -- careful coordination required

F. Thresholds: As scheduled and per details. Comply with CBC Section 1133B.2.4.1. Substitute products: certify that the products equal or exceed specified material's thickness. Proposed substitutions: submit for approval.

1. Exteriors: Seal perimeter to exclude water and vermin. Use sealant complying with requirements in Division 7 "Thermal and Moisture Protection". Non-ferrous 1/4inch fasteners and lead expansion shield anchors, or Red-Head #SFS-1420 (or approved equivalent) Flat Head Sleeve Anchors (SS/FHSL).

2. Flat saddle type thresholds shall have a minimum wall thickness of .125".

3. Fire-rated openings, 90min or less duration: use thresholds to interrupt floor covering material under the door where that material has a critical radiant flux value less than 0.22 watts per square centimeter, per NFPA 253. Use threshold unit as scheduled. If none scheduled, request direction from Architect.

4. Fire-rated openings, 3hour duration: Thresholds, where scheduled, to extend full jamb depth.

5. Acoustic openings: Set units in full bed of Division-7-compliant, leave no air space between threshold and substrate.

6. Plastic plugs with wood or sheet metal screws are not an acceptable substitute for specified fastening methods.

7. Fasteners: Generally, exposed screws to be Phillips or Robertson drive. Pinned TORX drive at high security areas. Flat head sleeve anchors (FHSL) may be slotted drive. Sheet metal and wood screws: full-thread. Sleeve nuts: full length to prevent door compression.

G. Silencers: Interior hollow metal frames, 3 for single doors, 2 for pairs of doors. Omit where adhesive mounted seal occurs. Leave no unfilled/uncovered pre-punched silencer holes.

2.7 FINISH:

A. Generally BHMA 626 Satin Chromium and BHMA 613 Oxidized and Oil Rubbed Bronze.

1. Areas using BHMA 626 to have push-plates, pulls and protection plates of BHMA 630, Satin Stainless Steel, unless otherwise noted.

B. Door closers: factory powder coated to match other hardware, unless otherwise noted.

C. Aluminum items: match predominant adjacent material. Seals to coordinate with frame color.

2.8 KEYING REQUIREMENTS:

A. Key System (for interior of locks): Schlage Everest Primus high-security utility-patented keyway, conventional cylinders. Utility patent protection to extend at least until 2014. Key blanks available only from factory-direct sources, not available from after-market keyblank manufacturers. For estimate use factory GMK charge. Initiate and conduct meetings(s) with Owner to determine system keyway(s), keybow styles, structure, degrees of physical security and degree of geographic exclusivity. Furnish Owner's written approval of the system.

1. Existing factory registered master key system.

2. Primus Level 9

B. Cylinders/cores: keyed at factory of lock manufacturer where permanent records are maintained. Locksets and cylinders same manufacturer.

C. Permanent keys: use secured shipment direct from point of origination to Owner.

1. For estimate: 3 keys per change combination, 5 master keys per group, 5 grand-master keys, 3 control keys.
2. For estimate: VKC stamping plus “Do Not Duplicate”.

D. Bitting List: use secured shipment direct from point of origination to Owner at completion.

2.9 KEYING REQUIREMENTS:

A. Key System (for exterior of locks): Videx CL-LF01

B. Finish: Nickel plating

C. Operating Temperature: -40º to 160º F; -40º to 70º C, non-condensing

D. Power Requirements: None; power is supplied by the key’s battery.

E. Hardware Security Features: No keyway to pick.

1. If torque is applied to the front of the cylinder, it separates from the back half leaving
2. The cylinder in the locked position.
3. Resists electric charge applied to the face of the lock.

F. Hardware Options: Tamper pin which blocks the locking pin automatically when impact force is applied to the front of the lock.

1. Hardened metal.
2. Drill-resistant pins.

G. Number of Keys per Lock: No limit to the number of keys that the lock can support.

H. Number of Locks per Key: Up to 3300 locks can be accessed with a standard user key.

1. A Master key has no limit to the number of locks it can access.
2. A database has no limit to the number of locks or keys it can manage.

I. Lost Keys: The system can designate and disable lost keys.

J. Access Schedules: Schedules programmed into the CyberKey provide complete control over specific days and times that a key will operate. A key can use up to 49 different schedules to access locks.

1. A database has no limit to the number of schedules it can manage.
2. Holidays may be set as exceptions to the schedules.

K. Audit Capacities: The lock remembers the last 1100 events with date and time.

1. A key remembers up to 3900 events with date and time. It can be set to keep only the most recent set of events or to stop operating when its audit trail is full.

L. Electronic Security Features: Key Expiration – a begin/end date range can be set during which the key will work.

1. Delayed entry – a lock can be set to delay entry for up to 20 minutes.
2. Multiple key custody – a lock may be set to require more than 1 key (up to 4) before opening.

M. Electronic Rekeying: Rekeying a system is done via the software; no need to install new locks and issue new keys.

PART 3 - EXECUTION

3.1 ACCEPTABLE INSTALLERS:

A. Contractors' installers are to be trained and certified by a door hardware manufacturer representative on the proper installation and adjustment of fire, life safety, and security products. Installers should understand manufacturers' templates, suppliers' hardware schedules and printed installation instructions. Must also understand that any fasteners other than the manufacturers, voids warranties. Installers must be available to meet with manufacturers' representatives and related trades to discuss installation of hardware.

3.2 PREPARATION:

A. Ensure that walls and frames are square and plumb before hardware installation. Make corrections before commencing hardware installation.

B. Locate hardware per SDI-100 and applicable building, fire, life-safety, accessibility, and security codes.

1. Notify Architect of code conflicts before ordering material.
2. Locate levers, key cylinders, t-turn pieces, touchbars and other operable portions of latching hardware between 30 inches to 44 inches above the finished floor, per CBC Section 1133B.2.5.2.
3. Where new hardware is to be installed near existing doors/hardware scheduled to remain, match locations of existing hardware.

C. Overhead stops: before installing, determine proposed locations of furniture items, fixtures, and other items to be protected by the overhead stop's action.

D. Existing frames and doors to be retrofitted with new hardware:

1. Field-verify conditions and dimensions prior to ordering hardware. Fill existing hardware cut outs not being reused by the new hardware. Remove existing hardware not being reused, return to Owner unless directed otherwise.

2. Remove existing floor closers not scheduled for reuse, fill cavities with concrete and finish smooth

3. Cut and weld existing steel frames currently prepared with 2-¾" height strikes. Cut an approx. 8" section from the strike jamb and weld in a reinforced section to accommodate specified hardware's strike.

4. Provide wrap-around repair plates at doors where required to cover the original preparation and allow installation of new hardware.

3.3 INSTALLATION

A. Install hardware per manufacturer's instructions and recommendations. Do not install surface-mounted items until finishes have been completed on substrate. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate for proper installation and operation. Remove and reinstall or replace work deemed defective by Architect.

1. Gaskets: install jamb-applied gaskets before closers, overhead stops, rim strikes, etc; fasten hardware over and through these seals. Install sweeps across bottoms of doors before astragals, cope sweeps around bottom pivots, trim astragals to tops of sweeps.

2. When hardware is to be attached to existing metal surface and insufficient reinforcement exists, use RivNuts, NutSerts or similar anchoring device for screws.

3. Use manufacturers' fasteners furnished with hardware items, or submit Request for Substitution with Architect.

4. Replace fasteners damaged by power-driven tools.

B. Locate floor stops no more than 4 inches from walls and not within paths of travel. See paragraph 2.2 regarding hinge widths, door should be well clear of point of wall reveal. Point of door contact no closer to the hinge edge than half the door width. Where situation is questionable or difficult, contact Architect for direction.

C. Locate overhead stops for minimum 90 degrees and maximum allowable degree of swing.

D. Drill pilot holes for fasteners in wood doors and/or frames. Centerpunch hole locations before using self-drilling type screws to prevent skating. Replace screws that are not centered in their holes.

E. Lubricate and adjust existing hardware scheduled to remain. Carefully remove and give to Owner items not scheduled for reuse.

F. Field verify existing conditions and measurements prior to ordering hardware. Fill existing hardware cut outs not being used by the new hardware. Remove existing hardware not being reused.

G. Disable or remove existing floor closers where they exist. If disabled cut or remove spindle.

H. Where existing wall conditions will not allow door to swing using the scheduled hinges, provide wide-throw hinges and if needed extended arms on closers.

I. Provide proper brackets to accommodate the mounting of closers on doors with flush transoms.

3.4. ADJUSTING

A. Adjust and check for proper operation and function. Replace units, which cannot be adjusted to operate freely and smoothly.

1. Hardware damaged by improper installation or adjustment methods: repair or replace to Owner's satisfaction.

2. Adjust doors to fully latch with no more than 1 pound of pressure.

3. Adjust delayed-action closers on fire-rated doors to fully close from fully-opened position in no more than 10 seconds.

4. Adjust door closers per 1.9 this section.

B. Final inspection: Installer to provide letter to Owner that upon completion installer has visited the Project and has accomplished the following:

1. Re-adjust hardware.

2. Evaluate maintenance procedures and recommend changes or additions, and instruct Owner's personnel.

3. Identify items that have deteriorated or failed.

4. Submit written report identifying problems

3.5 DEMONSTRATION:

A. Demonstrate mechanical hardware and electrical, electronic and pneumatic hardware systems, including adjustment and maintenance procedures.

3.6 PROTECTION/CLEANING:

A. Cover installed hardware, protect from paint, cleaning agents, weathering, carts/barrows, etc. Remove covering materials and clean hardware just prior to substantial completion.

B. Clean adjacent wall, frame and door surfaces soiled from installation/reinstallation process.

C. Hardware items specified to receive antimicrobial coating may be cleaned with a mild detergent, air-dry or dried with a soft cloth. Avoid harsh abrasive cleaners and abrasive cleaning pads.

3.7 SCHEDULE OF FINISH HARDWARE

A. See door schedule in drawings for hardware set assignments.

SPEXTRA: 22854

HARDWARE GROUP NO. 001

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	L9071 J(EXT)/R (INT) 06A XL11-986	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

NEED TO DISCUSS PAD LOCK AT THE TOP OF THE ACTIVE LEAVE ON THE EXTERIOR SIDE

HARDWARE GROUP NO. 002

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYLINDER	20-061(LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 003

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYLINDER	20-062 (LESS CORE)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 004

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	L9071 J(EXT)/R (INT) 06A XL11-986	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

HARDWARE GROUP NO. 005

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	L9071 J(EXT)/R (INT) 06A XL11-986	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 006

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	L9071 J(EXT)/R (INT) 06A XL11-986	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP SCUSH	695	LCN

HARDWARE GROUP NO. 007

PROVIDE EACH SL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE CYLINDER	20-061(LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 008

PROVIDE EACH SL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	MORTISE CYLINDER	20-061(LESS FSIC)	626	SCH
2	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 009

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	MORTISE CYLINDER	20-061(LESS FSIC)	626	SCH
2	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 010

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 011

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	SURFACE CLOSER	4040XP	689	LCN
1	EA	ASTRAGAL SEAL	5060B	BRN	NGP

HARDWARE GROUP NO. 012

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 013

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONST LATCHING BOLT	FB61T	630	IVE
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	SURFACE CLOSER	4040XP HEDA	689	LCN
2	EA	FLOOR STOP	FS436/WS407CVX (AS REQ'D)	626	IVE

NEED TO REMOVE DEADBOLT.

HARDWARE GROUP NO. 014

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	FLOOR STOP	FS436/WS407CVX (AS REQ'D)	626	IVE

HARDWARE GROUP NO. 015

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	OH STOP	450S	630	GLY

HARDWARE GROUP NO. 016

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

INSTALL SCUSH ON RHR LEAF

HARDWARE GROUP NO. 017

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

INSTALL SCUSH ON RHR LEAF

HARDWARE GROUP NO. 018

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 019

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

-MISSING CLOSER COVER

HARDWARE GROUP NO. 020

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 021

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 022

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	AL80JD SAT	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 023

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	OFFICE/ENTRANCE LOCK	ND53JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 024

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	OFFICE/ENTRANCE LOCK	ND53JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

DR 2-110A IS BLOCKED BY BOOK CASE FROM EXTERIOR SIDE.
DR 2-139A NEED TO REMOVE HASP LOCK ABOVE CYLINDRICAL LOCK
DR 7-122 NEED TO REMOVE DEAD BOLT
DR 11-151 NOT ACCESSIBLE TO USE, BUT CURRENTLY STILL HAS A DOOR KNOB ON THE EXTERIOR SIDE.
DR 12-121A NOT ACCESSIBLE FROM EXTERIOR SIDE. BLOCKED BY LOCKERS.
DR. 13-X01 SCOTT COLVIN ADDED VIA PH CALL ON 12.6.12
DR. 13-X02 SCOTT COLVIN ADDED VIA PH CALL ON 12.6.12

HARDWARE GROUP NO. 025

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	OFFICE/ENTRANCE LOCK	ND53JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	WALL STOP	WS407CVX	630	IVE

DR.5-213H TOP HINGE MIGHT NEED TO BE REPLACED.

HARDWARE GROUP NO. 026

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	OFFICE/ENTRANCE LOCK	ND53JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

HARDWARE GROUP NO. 027

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	OFFICE/ENTRANCE LOCK	ND53JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 028

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	OFFICE/ENTRANCE LOCK	ND53JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 029

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	OFFICE/ENTRANCE LOCK	ND53JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 030

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	ENTRANCE W/DEADBOLT	L9453J 06A L583-363	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 031

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

DR 17-145 REMOVE REMAINING PARTS OF THE DEADBOLT AND PATCH HOLES
DR 17-131 REMOVE REMAINING PARTS OF THE DEADBOLT AND PATCH HOLES
DR 19-207C NEED TO MODIFY GATE FOR LOCK PREP.

HARDWARE GROUP NO. 032

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	WALL STOP	WS407CVX	630	IVE

HARDWARE GROUP NO. 033

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	WALL STOP	WS407CVX	630	IVE

HARDWARE GROUP NO. 034

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

HARDWARE GROUP NO. 035

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 036

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

MIDDLE HINGE IS MISSING.

HARDWARE GROUP NO. 037

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 038

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 039

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP H	689	LCN
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 040

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	8" LOCK COVER PLATE	4-2-CW	626	DON
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 041

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	5050B	BRN	NGP

HARDWARE GROUP NO. 042

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 043

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	SET	SEALS	5050B	BRN	NGP

HARDWARE GROUP NO. 044

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP HEDA	689	LCN
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 045

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP HEDA	689	LCN
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 046

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	L9071 J(EXT)/R (INT) 06A XL11-986	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 047

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	DBL CYL STORE LOCK	ND66JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

HARDWARE GROUP NO. 048

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	DBL CYL STORE LOCK	ND66JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE
1	SET	SEALS	5050B	BRN	NGP

HARDWARE GROUP NO. 049

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	DBL CYL STORE LOCK	ND66JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

DR.4-109C IS BLOCKED BY LOCKERS ON ONE SIDE.
DR 4-114D IS BLOCKED BY BOOK CASE FROM EXTERIOR SIDE.
DR 8-114 HAS AN 8" WRAP AROUND ON LOCK

HARDWARE GROUP NO. 050

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

DR 12-137A IS BLOCKED FROM THE BOOKSTORE SIDE.

HARDWARE GROUP NO. 051

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4031	689	LCN
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

HARDWARE GROUP NO. 052

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

DR 137A IS BLOCKED FROM THE BOOKSTORE SIDE.

HARDWARE GROUP NO. 053

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 054

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	SET	SEALS	5050B	BRN	NGP

DR.12-116C IS BLOCKED OFF FROM OFFICE SIDE. MANAGER SAYS THEY NEVER USE THAT DOOR.

HARDWARE GROUP NO. 055

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP H	689	LCN

HARDWARE GROUP NO. 056

PROVIDE EACH DD DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE
1	EA	WALL STOP	WS407CVX	630	IVE

HARDWARE GROUP NO. 057

PROVIDE EACH DD DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO XN12-035	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

-ADJUST HEIGHT OF THE LOCK OR SHELF OF THE DUTCH DOOR IN ORDER TO USE THE LOCK. THE LEVER IS CURRENTLY INSTALLED TO HIGH AND CANNOT USE THE LOCK CORRECTLY.

HARDWARE GROUP NO. 058

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

DR.12-116C IS BLOCKED OFF FROM OFFICE SIDE. MANAGER SAYS THEY NEVER USE THAT DOOR.
DR. 13-X03 SCOTT COLVIN ADDED VIA PH CALL ON 12.6.12. NEED TO REMOVE DEADBOLT.

HARDWARE GROUP NO. 059

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 060

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 061

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 062

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	ND80JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP	689	LCN
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE
1	SET	SEALS	5050B	BRN	NGP

HARDWARE GROUP NO. 063

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	L9080J 06A	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

HARDWARE GROUP NO. 064

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	L9080J 06A	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 065

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	STOREROOM LOCK	L9080J 06A	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 066

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PRIVACY LOCK	ND40S RHO	626	SCH

DR 14-103 NEED TO REMOVE DEADBOLT

HARDWARE GROUP NO. 067

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PRIVACY LOCK	ND40S RHO	626	SCH
1	EA	OH STOP	450S	630	GLY

DR 14-104 NEED TO REMOVE DEADBOLT

HARDWARE GROUP NO. 068

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CORRIDOR LOCK	ND73JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 069

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PASSAGE SET	ND10S RHO	626	SCH
1	EA	DBL CYL STORE LOCK	ND66JD RHO	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

NEED TO DISCUSS FUNCTION THAT IS DESIRED. THIS DOOR HAS NOT BEEN PREPPED FOR ANY LOCK.

HARDWARE GROUP NO. 070

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PASSAGE SET	ND10S RHO	626	SCH

HARDWARE GROUP NO. 071

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

DR 14-102 NEED TO REMOVE PULL HANDLE ABOVE PANIC.
DR 14-002B NEED TO REMOVE PULL HANDLE ABOVE PANIC.

HARDWARE GROUP NO. 072

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	OH STOP	450S	630	GLY

DR 14-002A NEED TO REMOVE PULL HANDLE ABOVE PANIC.

HARDWARE GROUP NO. 073

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 074

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 075

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 076

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
2	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 077

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 078

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PADLOCK	KS43F3200	452	KRY

HARDWARE GROUP NO. 079

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SEC HOLDBK	L9077 J(EXT)/R(INT) 06LLL 06A	613	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	DOOR PULL	VR900/VR900-LLP (AS REQ'D)	630	IVE

DR 18-111 CENTER LINE TO LOCK IS 4 FT. NEEDS TO BE PREPPED FOR ADA HEIGHT.

HARDWARE GROUP NO. 080

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SEC HOLDBK	L9077 J(EXT)/R(INT) 06LLL 06A	613	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	DOOR PULL	VR900/VR900-LLP (AS REQ'D)	630	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

DR 18-111 CENTER LINE TO LOCK IS 4 FT. NEEDS TO BE PREPPED FOR ADA HEIGHT.

HARDWARE GROUP NO. 081

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SEC HOLDBK	L9077 J(EXT)/R(INT) 06LLL 06A	613	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	DOOR PULL	VR900/VR900-LLP (AS REQ'D)	630	IVE
1	EA	SURFACE CLOSER	4040XP	689	LCN

HARDWARE GROUP NO. 082

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN

HARDWARE GROUP NO. 083

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN

HARDWARE GROUP NO. 084

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CD-98-L-996-06	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP HEDA	689	LCN
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 085

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	98-L-996-06	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 086

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	98-L-996-06	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
	EA	SURFACE CLOSER	4040XP HEDA	689	LCN

HARDWARE GROUP NO. 087

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CD-98-L-996-06	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 088

NOT USED

HARDWARE GROUP NO. 089

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	CD-XP-98-L-2-996-06	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	PRIMUS RIM CYLINDER	20-757 (FOR DBL CYL)	626	SCH
1	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE
1	SET	SEALS	700NA	CL	NGP

INSTALL SEALS BEFORE CLOSER

HARDWARE GROUP NO. 090

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CD-98-L-996-06	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP HEDA	689	LCN

HARDWARE GROUP NO. 091

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CD-98-L-996-06	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN

HARDWARE GROUP NO. 092

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	98-L-NL-996-06	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 093

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	35A-L-360-06-1439	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 094

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CD-9827-EO	626	VON
1	EA	PANIC HARDWARE	CD-9827-L-996-06	626	VON
2	EA	ROD AND LATCH GUARD	RG-27	US32D	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
2	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
1	SET	ASTRAGAL	137NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 095

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	9827-EO	626	VON
1	EA	PANIC HARDWARE	9827-L-996-06	626	VON
2	EA	ROD AND LATCH GUARD	RG-27	US32D	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
1	SET	ASTRAGAL	137NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

FS NEEDED FOR LHR LEAF.

HARDWARE GROUP NO. 096

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CD-9827-EO	626	VON
1	EA	PANIC HARDWARE	CD-9827-L-996-06	626	VON
1	EA	ROD AND LATCH GUARD	RG-27	US32D	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
2	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 097

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CD-9827-EO	626	VON
1	EA	PANIC HARDWARE	CD-9827-L-996-06	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
2	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	FLOOR STOP	FS436/WS407CVX (AS REQ'D)	626	IVE

HARDWARE GROUP NO. 098

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CD-9827-EO-LBR	313	VON
1	EA	PANIC HARDWARE	CD-9827-L-LBR-996-06	313	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	613	SCH
2	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	SURFACE CLOSER	4040XP EDA	695	LCN
2	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

HARDWARE GROUP NO. 099

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	PANIC HARDWARE	CD-3527A-EO	626	VON
1	EA	PANIC HARDWARE	CD-3527A-L	626	VON
1	EA	ROD AND LATCH GUARD	RG-27	US32D	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
2	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	SET	SEALS	700NA	CL	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP

HARDWARE GROUP NO. 100

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	50X80 OPENINGS	ENTIRE OPENING TO BE DISCUSSED		

HARDWARE GROUP NO. 100A

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HW HINGE	5BB1HW 5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	CD-XP-98-NL-OP-LESS TRIM	626	VON
1	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
1	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
1	EA	DOOR PULL	VR910 NL	630	IVE
1	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
1	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	700NA	CL	NGP
1	EA	DOOR SWEEP	200NA	CL	NGP
1	EA	THRESHOLD	PER DETAIL		

INSTALL SEALS BEFORE CLOSER

HARDWARE GROUP NO. 100B

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
8	EA	HW HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	STORAGE KIT	MT54		VON
1	EA	KEYED REMOVABLE MULLION	KR4954	689	VON
2	EA	PANIC HARDWARE	CD-XP-98-NL-OP-LESS TRIM	626	VON
2	EA	RIM CYLINDER	20-057 (LESS FSIC)	626	SCH
3	EA	PRIMUS MORT. CYL.	20-771 (FOR CYL DOG)	626	SCH
2	EA	VIDEX CORE	CL-LF01	626	
2	EA	DOOR PULL	VR910 NL	630	IVE
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B4E	630	IVE
2	EA	FLOOR STOP	FS18L	BLK	IVE
1	SET	SEALS	5050B	BRN	NGP
1	EA	MULLION SEAL	5100	BLK	NGP
2	EA	DOOR SWEEP	200NA	CL	NGP
1	EA	THRESHOLD	PER DETAIL		

INSTALL FLOOR STOP UNDER GUARD RAIL

HARDWARE GROUP NO. 101

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO 43-005 XN12-035 (5" BACKSET)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 102

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO 43-005 XN12-035 (5" BACKSET)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	
2	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

HARDWARE GROUP NO. 103

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM SECURITY	ND75 JD (EXT)/RD (INT) RHO 43-005 XN12-035 (5" BACKSET)	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 104

PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CLASSROOM DEADBOLT	B663J	626	SCH
1	EA	VIDEX CORE	CL-LF01	626	

HARDWARE GROUP NO. 105

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	FLOOR STOP	FS436/438 (AS REQ'D)	626	IVE

ALREADY HAS AN ADA COMPLIANT LEVER PASSAGE SET

HARDWARE GROUP NO. 106

PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	MORTISE THUMBTURN	4066	628	ADA

MISCELLANEOUS ITEMS

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
500	EA	PRIMUS KEY BLANKS	35-004		SCH

END OF SECTION

SECTION 09900

PAINTS AND COATINGS

PART 1 - GENERAL

1.01 SUMMARY

A. Provisions of 00800 Special Conditions apply to this section.

B. Section Includes:

1. Interior and exterior painting.

1.02 SYSTEM DESCRIPTION

A. Regulatory Requirements:

1. Paint materials shall comply with the Food and Drug Administration's (F.D.A.) Lead Law and the current rules and regulations of local, state and federal agencies governing the use of paint materials.

1.03 SUBMITTALS

A. List of Materials: Before submittal of samples, submit a complete list of proposed paint materials, identifying each material by distributor's name, manufacturer's name, product name and number, including primers, thinners, and coloring agents, together with manufacturers' catalog data fully describing each material as to contents, recommended installation, and preparation methods. Identify surfaces to receive various paint materials.

B. Material Samples: Submit manufacturer's standard colors samples for each type of paint specified. Once colors have been selected, submit Samples of each color selected for each type of paint accordingly:

1. Samples of Paint and Enamel must be submitted on standard 8 ½" x 11" Leneta Opacity-Display Charts. Each display chart shall have the color in full coverage. The sample shall be prepared from the material to be installed on the Work. Identify the school on which the paint is to be installed, the batch number, the color number, the type of material, and the name of the manufacturer.

2. Elastomeric shall be submitted in duplicate samples of the texture coating. Samples will be not less than 2 ½" by 3 ½" in size and installed upon backing. Finished Work will match the reviewed Sample in texture.

3. All materials and color samples shall be reviewed before starting any painting.

C. For transparent and stained finishes, prepare samples on same species and quality of wood to be installed in the Work, with written description of system used.

1.04 QUALITY ASSURANCE

A. Certification of Materials: With every delivery of paint materials, the manufacturer shall provide written certification the materials comply with the requirements of this section.

B. Coats: The number of coats specified is the minimum number. If full coverage is not obtained with the specified number of coats, install additional coats as required to provide the required finish.

C. Install coats and undercoats for all types of finishes in strict accordance with the recommendations of the paint manufacturer as reviewed by the Architect.

D. Paint materials shall comply with the following as a minimum requirement:

1. Materials shall be delivered to Project site in original unbroken containers bearing manufacturer's name, brand number and batch number.

2. Open and mix ingredients on premises in presence of the IOR.

1.05 DELIVERY, STORAGE AND HANDLING

A. Storage and Mixing of Materials: Store materials and mix only in spaces suitable for such purposes. Maintain spaces clean and provide necessary precautions to prevent fire. Store paint containers so the manufacturer's labels are clearly displayed.

1.06 SITE CONDITIONS

A. Temperature: Do not install exterior paint in damp, rainy weather or until surface has thoroughly dried from effects of such weather. Do not install paint, interior, or exterior, when temperature is below 50 degrees F, or above 90 degrees F, or dust conditions are unfavorable for installation.

1.07 WARRANTY

A. Manufacturer shall provide a 3 year material warranty.

B. Installer shall provide a 3 year labor warranty.

1.08 MAINTENANCE

A. Provide at least one gallon of each type, color and sheen of paint coating installed. Label containers with color designation indicated on Drawings.

PART 2 - PRODUCTS

2.01 PAINT MATERIALS

A. Furnish the products of only one paint manufacturer unless otherwise specified or required. Primers, intermediate and finish coats of each painting system must all be the

products of the same manufacturer, including thinners and coloring agents, except for materials furnished with shop prime coat by other trades.

B. Factory mix paint materials to correct color, gloss, and consistency for installation to the maximum extent feasible.

C. All paint materials to be minimum “Architectural Grade”.

D. Gloss degree standards shall be as follows:

HIGH GLOSS	70 and above	EGGSHELL	30 to 47
SEMI-GLOSS	48 to 69	SATIN	15 to 29

2.02 MANUFACTURERS

A. Acceptable manufacturers, unless otherwise noted:

1. Dunn-Edwards Corporation Paints

2. Frazee Paints & Wall coverings

3. Vista Paints

4. Sherwin Williams

5. ICI Paints

PART 3 - EXECUTION

3.01 PREPARATION

A. Examine surfaces to receive paint finish. Surfaces which are not properly prepared and cleaned or which are not in condition to receive the finish specified shall be corrected before prime coat is installed.

B. New woodwork shall be thoroughly cleaned, hand sandpapered, and dusted off. Nail holes, cracks or defects in Work shall be filled. On stained woodwork, fill shall be colored to match stain. Filling shall be performed after the first coat of paint, shellac or varnish has been installed.

C. Metal surfaces to be painted shall be thoroughly cleaned of rust, corrosion, oil, foreign materials, blisters, and loose paint.

D. Do not install painting materials to wet, damp, dusty, dirty, finger marked, rough, unfinished or defective surfaces.

E. Concrete surfaces shall be dry, cleaned of dirt and foreign materials and in proper condition to receive paint. Neutralize spots demonstrating effects of alkali.

F. Mask off areas where necessary.

3.02 APPLICATION

A. Backpainting: Immediately upon delivery to the Project site, finish lumber and millwork shall be backpainted on surfaces that will be concealed after installation. Items to be painted shall be backpainted with priming coat specified under "Priming".

B. Priming: New wood and metal surfaces specified to receive paint finish shall be primed. Surfaces of miscellaneous metal and steel not embedded in concrete, and surfaces of unprimed plain sheet metal Work shall be primed immediately upon delivery to the Project site. Galvanized metal Work and interior and exterior woodwork shall be primed immediately after installation. Priming of surfaces and priming coat shall be as follows:

1. Knots, Pitch and Sap Pockets: Shellac before priming.

2. Exterior Woodwork and Wood Doors: Prime with one coat of exterior waterborne emulsion wood primer.

3. Interior Woodwork: Where indicated to be painted, prime with one coat of waterborne wood primer.

4. Stain: Woodwork indicated to receive a stain and varnish finish shall be stained to an even color with water borne stain. On open-grained hardwood, mix stain with paste filler and completely fill pores in wood.

5. Galvanized Metal Work: Clean oil, grease and other foreign materials from surfaces. Install vinyl wash pretreatment coating. Follow manufacturer's instructions for drying time, and then prime with one coat of metal primer.

6. Unprimed Iron, Steel, and Other Uncoated Metals: Where specified to be painted, prime with one coat of metal primer.

7. Shop Primed Metal Items: Touch up bare and abraded areas with metal primer before installation of second and third coats.

8. Coats shall be installed evenly and with full coverage. Finished surfaces shall be free of sags, runs and other imperfections.

C. Allow at least 24 hours between coats of paint.

D. Rollers shall not be used on wood surfaces.

E. Each coat of painted woodwork and metal, except last coat, shall be sandpapered smooth when dry. Texture-coated gypsum board shall be sanded lightly to remove surface imperfections after first coat of paint has been installed.

F. Each coat of paint or enamel shall be a slightly different tint as required. Each coat of paint, enamel, stain, shellac, and varnish will be inspected by the IOR before next coat is applied. Notify the IOR that such Work is ready for inspection.

1. Tinting Guideline: The first coat, primer/undercoat(s) to be untinted or tinted up to 50% lighter or darker (at the discretion of the installer) than the finish coat. The second coat (or third coat if a seal coat and undercoat have been specified) is

to be factory tinted in the range of 10% to 15% lighter or darker (at the discretion of the installer) than the finish coat. The final coat is to be factory tinted to the required color selected. These tinting guidelines shall be provided on all surfaces receiving paint.

G. Do not "paint-out" UL labels, fusible links and identification stamps.

3.03 CLEANING

A. Remove rubbish, waste, and surplus material and clean woodwork, hardware, floors, and other adjacent Work.

B. Remove paint, varnish and brush marks from glazing material and, upon completion of painting Work, wash and polish glazing material both sides. Glazing material, which is damaged, shall be removed and replaced with new material.

C. Clean hardware and other unpainted metal surfaces with recommended cleaner. Do not furnish abrasives or edged tools.

3.04 SCHEDULE

A. Interior:

1. Woodwork, Painted: 3 coats.

a. First Coat: As specified in this section under Priming.

b. Second and Third Coats: Interior enamel, semi-gloss or gloss as indicated.

2. Woodwork, Stained and Varnished: 4 coats.

a. First Coat: As specified in this section under Priming.

b. Second, Third and Fourth Coats: Varnish, semi-gloss.

3. Wood Corridor doors: 4 coats.

a. First Coat: As specified in this section under Priming.

b. Second, Third, and Fourth Coats: Varnish, gloss.

4. Other Wood Doors: 4 coats.

a. Varnished or painted as indicated.

b. If varnished, same finish system as painted woodwork, with semi-gloss or gloss finish to match adjacent wall.

5. Metal: Shall be cleaned, pre-treated and painted with 3 coats. Items to be painted include, but are not limited to: exposed structural and miscellaneous steel, metal doors and frames, ladders, table and bench legs.

a. First Coat: Metal primer.

b. Second and Third Coats: Interior gloss enamel, except metal doors and frames which shall be semi-gloss or gloss to match adjacent wall.

B. Exterior:

1. Wood Doors: 3 coats.

a. First Coat: As specified in this section under Priming.

b. Second and Third Coats: Exterior gloss enamel.

2. Metal: 3 coats. Shall be cleaned and pre-treated. Items to be painted include, but are not limited to: steel columns and miscellaneous steel items, gravel stops, metal doors and frames, hoods and flashings.

a. First Coat: As specified in this section under Priming.

b. Second and Third Coats: Exterior gloss enamel.

3.05 PROTECTION

A. Protect the Work of this section until Substantial Completion.

3.06 CLEANUP

A. Remove rubbish, debris, and waste materials and legally dispose of off the Project site.

END OF SECTION