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Addendum No. 3

page I

Project: 2016 Addition & Renovations

architects

North Harrison Middle School Ramsey, Indiana

Proj. No: 1518.01

Kovert Hawkins

Date: December 10, 2015

This addendum is a part of the bid documents. Acknowledge receipt on the Proposal Form.

General

Addendum No. 2 indicated Drawing P-401 was revised. This drawing was never previously issued and was added in its Ι. entirety by Addendum No. 2.

Specifications

- Section 01120 Summary of Work Multiple Contracts Ι.
 - Contract No. I: General, add the following:
 - 14. Contractor No. I to install all roof curbs provided by Owner's separate Food Service Equipment Contractor.
 - 15. Contractor No. I to install all roof penetrations required for roof mounted food service equipment provided and installed by Owner's separate Food Service Equipment Contractor.
 - Contractor No. I to provide and install all steel supports and framing required for roof penetrations and roof 16. curbs for food service equipment. Verify locations with Owner's separate Food Service Equipment Contractor.
- Section 02735 Sewer Lift Station 2. 2.01, A: Basis of Specification, Change to read: 1."Zoeller", Model J7110 HFV, Duplex

2.01, B, 3: Type, Change to read: 3. Discharge piping shall be 2 inch NPT

2.01, C, I: Operating Conditions, Change to read: 1. 60 GPM minimum, at 36 feet total head

- 2.01, D, Motor, Change to read:
- I. Size: 3 HP
- 3. Electric: 208 volt, 3-phase

2.02, C, Basin, Change first sentence to read: 2. 144" deep, minimum, contractor to field verify.

2.02, G, Discharge Piping, Change to read: I....terminate at a 2 inch discharge flange...

3. Section 04220 - Concrete Unit Masonry

- 2.02 Integrally-Colored Concrete Masonry Units (CMU), revise Paragraph B as follows:
- Integrally-colored through entire body of masonry units. Color to match existing 8"x8" clay tile units on Β. adjacent North Harrison High School gymnasium.
- 4. Section 04222 - Concrete Unit Masonry Acoustical Units Delete section in its entirety; no CMU acoustical units are required for this project.
- Section 07531 Elastomeric Sheet Roofing System Fully Adhered (EPDM) 5. Paragraph 1.01 B., delete reference to extruded polystyrene flute fillers. Flute fillers are not required for this project. Replace Paragraph 2.02 F with the following:
 - PRE-MANUFACTURED METAL COPING F.
 - Ι. Provide products, as approved by the Architect and roof membrane manufacturer, by one of the following approved manufacturers:



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- "Metal-Era". a.
- b. "Hickman".
- "Architectural Products Company". c.
- 2. Product:
 - Basis of Specification: "Metal-Era", Anchor-Tite Fascia, AF Series. a.
 - Description: Extruded aluminum fascia, splice plate and galvanized steel cant dam. b.
 - Extruded Aluminum 6063-T5 Alloy. Style: c.
 - d. Size: To be selected from the manufacturer's standard sizes of 4", 5-1/2", 7" or 8-1/2". See Drawings for sizes. If not indicated, provide 7" height. See details and drawings for special conditions that may require differing sizes.
 - Thickness: e.
 - .040" minimum, aluminum. 12'-0" lengths. f. Length:
 - Compression screw and clamp for non-penetrating securing of roof membrane. No exposed g. fasteners permitted.
 - h. All corners to be mitered and fully welded, then factory finished.
 - i. FM I-120 approved.
 - Finish: Kynar 500, 20-year finish warranty. i.
 - Color: Selected by Architect from manufacturer's entire standard selection. k.
- 6. Section 07600 - Flashing, Sheet Metal and Roof Accessories Delete Paragraph 2.03, Pre-Manufactured Metal Coping in its entirety. Scope of work is covered in Section 07531.
- 7. Section 08710 - Finish Hardware Replace existing section in its entirety with the attached. Hardware sets have been added.
- 8. Section 09520 - Sound Absorptive Panels Paragraph 2.01 A, Add "Lamvin Inc" Sonic II Acoustical Wall Panels as an approved product Paragraph 2.01 E.I.a. Revise to read as follows: "Hytex Decorative Textiles" Inspirations Collection in Boucle pattern, High Performance Fabric for Vertical Surfaces or approved equal.
- 9. Section 10536 - Suspended Prefabricated Aluminum Awning Paragraph 2.01 A, add the following acceptable manufacturer: 4. Superior Metal Products Company, Inc.
- 10. Section 10800 - Toilet Accessories Paragraph 2.02 C.I.Add "Meek Mirrors" M-1210 Series as an approved manufacturer and product.
- Section 15181 Hydronic Piping 11. Add the following under 2.01, A: Tongue and recess couplings may only be used if the contractor uses a torque wrench for installation. Required torque shall be in accordance with the manufactures latest recommendations. A random sample shall be spot checked by engineer to ensure torque values are within acceptable range.
- Section 15341 Acid Waste and Vent Piping 12. Add the following under 2.03, A.: Ι. Manufacturers:
 - Enfield Industrial Corp. a.
 - Orion Fittings, Inc. b.
 - Zurn Engineered Water Solutions c.

Add the following to 2.05, A, I. Manufacturers:

Zurn Engineered Water Solutions. с.



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- 13. <u>Section 16199 Wiring Devices and Plates</u>
- Add Paragraph 2.08 as follows: 2.08 DUPLEX RECEPTACLEV
 - DUPLEX RECEPTACLE W/ USB CHARGER
 - A. Receptacles shall be:
 - I. Tamper-Resistant Decorator Duplex Receptacle 20A, I25V with (2) USB Type 2.0 ports, 3.8A, 5 Volt DC.
 - 2. Equal to "Hubbell" No. USB20X2.
 - 3. Color: Grey.
- 14. <u>Section 16460 Transformers</u>
 - Add Paragraph 2.01, F as follows:
 - F. Transformer efficiencies shall meet new DOE standards in effect on January 1, 2016.
- 15. <u>Section 17762 Central Sound/Communication/Program System</u> 2.01,A: Add the following acceptable manufacturer: 5. Dukane by CareHawk
- Section 17910 Security Cameras
 2.01, A, Acceptable Manufacturer and Equipment, Add the following:
 2. Samsung SND-L6013

2.02, A, Acceptable Manufacturer and Equipment, Add the following: 2. Samsung SND-L6013

2.03, A, Acceptable Manufacturer and Equipment, Add the following: 2. Samsung SND-L6013

2.04, A, Acceptable Manufacturer and Equipment, Add the following: 2. Samsung SNV-L6083R

2.08, A, Acceptable Manufacturer and Equipment, Add the following: 2. Exacq Technologies VMS

17. <u>Section 17920 - Access Control System</u>
2.01,A: Add the following acceptable manufacturer
2. "IDenticard"; PremiSys

Drawings

I. Sheet G-101

First Floor Life Safety Plan - Pump Room A123 (directly east of elevator) is an existing 1-hour rated room with a 1-hour rated ceiling. Contractor to maintain existing rating.

- 2. <u>Sheet U-101</u>
 - Add the following note:

Provide and install new Quazite in-ground junction box to intercept existing site lighting circuits currently fed from West Wing building to be demolished in Phase 5. Contractor to field verify quantity of lighting circuits to be re-fed. Re-feed relocated site lighting circuits from subpanels located in Mechanical Room A138. Relocate and re-install existing lighting controls in Mechanical A138, verify exact location(s) with Architect.

Add the following to Utility Notes & Direction, note #4:

Contract #3 - Electrical shall contact Harrison Co. REMC to schedule delivery of utility transformer to coordinate with construction phasing and schedule. Utility has indicated transformer lead time is approximately 16 weeks.

3. <u>Sheet U-201</u>

Add attached Drawing AD-3.15 in its entirety. Drawing adds Detail 1/U-201 Lift Station Detail.

4. <u>Sheet S-001</u>

Typical Drilled Concrete Pier Details – the 2'-0" rock socket dimension noted in the detail shall be U.N.O. and 2'-6" for the south (front) addition in Area A, shown on S-101. Delete "FOR BIDDING" under "ROCK SOCKET".



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5. All A-000 Series (Architectural Demolition) Sheets Demolition Plan Keynotes have been revised. Refer to reissued Sheet A-004 included with this Addendum for revisions. Changes apply to all sheets. Sheet A-001 6. Add Keynote D62 to central main corridor. Note applies from main entrance to Cafeteria. 7. Sheet A-004 Replace existing drawing in its entirety with the attached Drawing; refer to clouded area for revisions. 8. Sheet A-104 Delete existing door symbol at D135A. This is just a hollow metal frame; no existing door at this location. 9. Sheet A-301 Rotate RTU-5 ninety degrees (long dimension of unit will be perpendicular to roof slope). Refer to Sheet M-301 for correct orientation. Provide roof cricket on east side of unit as required to create positive drainage away from unit. 10. Sheet A-405 Ceiling break required in Corridor A208 where existing building meets new construction. Refer to Section A/A-603 for detail. 11. Sheet A-501 Detail I, Partial South Elevation, revise all notes referring to "Center Score CMU" to read "Integrally-Colored, Center Score CMU." Sheet A-502 12. Detail I, Partial West Elevation, add notes at entry canopy per attached Drawing AD-3.2. Detail 4, Partial North Elevation, revise all notes referring to "Center Score CMU" to read "Integrally-Colored, Center Score CMU." 13. Sheet A-503 Detail 5, Partial East Elevation, revise all notes referring to "Center Score CMU" to read "Integrally-Colored, Center Score CMU." 14. Sheet A-701 Wall Sections I & 3, revise "4" Center Score CMU" note to read "Integrally-Colored, 4" Center Score CMU." Wall Section 4, revise "12" Center Score CMU" note to read "Integrally-Colored, 12" Center Score CMU." 15. Sheet A-702 Wall Section 4, revise "4" Center Score CMU" note to read "Integrally-Colored, 4" Center Score CMU." Sheet A-801 16. Change rating on Door A123 to 60 minute rated. 17. Sheet A-802 Details 27, 28, and 29, shift curtain wall in wall to bypass CMU as shown on Wall Section 4/A-703. 18. Sheet A-901 Add Detail I, Academic Locker Base per attached Drawing AD-3.1. 19. Sheet Q-104 Lobby D-101 Revise Keynote on South wall from Q1 to Q2. 20. Sheet I-104 Delete ALL Specialty keynote 6 (indicated with diamond) in Rooms D148 Wood Shop and D150 Technology. No new window sills are required in these rooms. Sheet FA-101 21. Add the following note: Provide tamper and flow switches at new fire suppression vault located south of Area B addition (see Drawing U-101 for exact location). 22. Sheet P-102 Add attached Drawing AD-3.3 in its entirety. Drawing adds pipe sizes to below floor waste piping.



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- 23. Sheet P-103
 - Add attached Drawing AD-3.4 in its entirety. Drawing changes Reference Note 3 to 9.
- 24. Sheet P-104

Add attached Drawing AD-3.5 in its entirety. Drawing adds pipe sizes to below floor sanitary piping.

25. <u>Sheet P-201</u>

Change Plumbing Fixture designation at sink in Conference A108 from SK-1 to SK-9.

26. <u>Sheet P-202</u>

Add attached Drawing AD-3.6 in its entirety. Drawing changes Plumbing Fixture designation of one (1) water closet in Boys B115 and one (1) water closet in Girls B116 from WC-1 to WC-2.

27. <u>Sheet P-203</u>

Add attached Drawing AD-3.7 in its entirety. Drawing relocates floor drain FD-4 in Corridor C113 to Storage C114 and adds floor cleanout CO in Hall C115.

Change Reference Note 17 to read: Contractor shall provide 1" CW and 1" HW overhead connections to UDS. UDS Manufacturer shall provide hoses for final connections to equipment by this Contractor.

Change Reference Note 24 to read: 3" waste riser to floor sumps Item 51 and Item 57.

Delete Plumbing Fixture designation FD-8 at drain in Cafeteria CIII. Drain will be provided by Owner's separate Food Service Equipment Contractor.

28. <u>Sheet P-206</u>

Add attached Drawing AD-3.8 in its entirety. Drawing changes Plumbing Fixture designation of one (1) water closet in Boys B215 and one (1) water closet in Girls B216 from WC-1 to WC-2.

29. Sheet P-302

"Drain and Miscellaneous Schedule:" Delete floor drain FD-8.

30. <u>Sheet P-402, Soil and Waste Riser Diagrams</u> Add the attached Drawing in its entirety.

31. All M-100 series Sheets

Add new General Note to apply to all M100 series drawings to read as follows: "r/D = 1.5 duct elbows are preferred on supply duct and shall be installed wherever space permits." x. Sheet M-101

Add attached Drawings AD-3.9, AD-3.10, and AD-3.11 in their entirety. Drawings illustrate ductwork changes in media and office areas.

32. Sheet M-103

Add attached Drawing AD-3.12 in its entirety. Drawing illustrates changes to cafeteria/kitchen area transfer grilles.

33. Sheet M-203

Add attached Drawing AD-3.13 in its entirety. Drawing illustrates condensate piping to floor drain for UV-10.

Add new Reference Note 13 to read: "Drop 1" condensate to floor drain located in room C114.

34. Sheet M-401

Enlarged Plan 1/M401: Replace Reference Note 2 at EH-2 located in room IDF-B122 with Reference Note 33.

Add new Reference Note 33 to read as follows: "Mount at 8" AFF. Heater to be recessed in wall. Coordinate with Contractor No. I."

Add attached Drawing AD-3.14 in its entirety. Drawing illustrates changes to 8x10 RA duct in Enlarged Plan 2/M401.

35. <u>Sheet M-502</u>

Supply duct main taps now shown as boot taps per attached Drawing AD-3.11 in Media Center.

36. <u>Sheet M-603</u>

- Unit Ventilator Sequence of Operation: 4. Economizer Cooling Add the following item: "E.At UV-14, the return damper shall close during economizer mode."
- 37. Sheet M-701
 - RTU-I change ESP Supply (In. H2O) to 2.7
 - RTU-I change ESP Relief (In. H2O) to 0.5

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- RTU-I change Electrical Data-Motor-HP Supply to 7.5
- RTU-2 change ESP Supply (In. H2O) to 2.7
- RTU-2 change ESP Relief (In. H2O) to 0.5
- RTU-2 change Electrical Data-Motor-HP Supply to 5
- RTU-3 change ESP Supply (In. H2O) to 0.75
- RTU-5 change ESP Supply (In. H2O) to 1.0
- RTU-5 change ESP Relief (In. H2O) to 0.5
- AHU-I change ESP Supply (In. H2O) to 2.4
- AHU-1 change Electrical Data-Motor-HP Supply to 5

38. Sheet M-703

VAV Box Schedule – Inlet SP. (In.WC) column now labeled as Delta SP. (In.WC) Delta SP shall be the pressure differential across the entire box assembly at design flow with the VAV box wide open.

Every value in new Delta SP (In.WC) column shall now be 0.5".

39. All E-000 series Sheets

Add Electrical Demolition Plan Keynotes as follows:

- D14 Remove existing SO cord drop suspended from ceiling and all wiring back to source.
- D15 Delete surface mounted raceway, receptacle, and associated wiring on the floor. Re-feed all downstream devices as required.

40. <u>Sheet E-001</u>

Add Electrical Demolition Plan Keynote D14 in Workroom.

Add Electrical Demolition Plan Keynote D15 in Book Storage.

41. Sheet E-101

Shift (2) light fixtures in Special Needs A-125 as required for installation of ceiling mounted cubicle curtain and track. Refer to revised Sheet A-401 issued by Addendum No. 2 for exact layout.

Lumenation Inc., proposed substitution light fixture package is accepted for general design intent. Final fixture approval subject to a complete shop drawing review.

42. All E-200 series Sheets

Add Electrical Plan Keynotes as follows:

- E22 Kitchen Utility Distribution System (UDS) located below exhaust hoods (see Sheet K-401 for general layout) to be provided by Owner's separate Food Service Equipment Contractor. Contractor No. 3 - Electrical to make all required connections to UDS for a complete and operable system. UDS will be equipped with disconnects, devices, integral buss bar and internal wiring, shut down means, and overcurrent protection. Contractor No. 3 shall be responsible for final connections from UDS to kitchen equipment. See Sheets K-101 and K-102 for required final connections. Contractor to provide required cord ends to match UDS devices. Contractor to coordinate with UDS final drawings before rough-in.
- E23 Provide electrical connection from exhaust hoods ansul system to UDS as required for UDS shut down upon activation of ansul system. Contractor to coordinate with UDS final drawings before rough-in.

43. <u>Sheet E-201</u>

Add 30A, 120V Circuit PF-24 to MDF rack in IDF Storage A140 with NEMA L5-30 receptacle mounted on rack. Verify receptacle type with Owner prior to installation to coordinate with UPS.

Revise Circuit PF-5 to be 30A, I20V with NEMA L5-30 receptacle mounted on rack. Verify receptacle type with Owner prior to installation to coordinate with UPS.

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Revise electrical devices shown on east wall of PDC A137 at computer work stations to be surface mounted raceway (indicated graphically by heavy weight line) on existing CMU wall in lieu of recessed boxes as indicated currently on plan. Provide a single vertical drop at north end of devices.

44. <u>Sheet E-202</u>

Add (1) empty single gang box with conduit and pull string (triangle symbol) recessed in CMU on south wall of Mechanical B121 for data wiring.

45. Sheet E-203

Circuits K1-13,15,17; K1-16,18,20; K1-19,21,23; K1-22; K1-25,27,29; K2-1,3,5; K2-2,4,6 located in Kitchen C104 to be eliminated completely. Delete (2) receptacles shown below exhaust hoods on Circuit K1-22.

Add 600A, 208V, 3PH Circuit MSB2-3 in Kitchen C104 to feed UDS located below exhaust hoods.

Add 20A, 120V Circuit K2-41 in Kitchen C104 to feed fan controls in UDS located below exhaust hoods.

Add Electrical Plan Keynotes E22 and E23 at UDS below exhaust hoods in Kitchen C104.

46. Sheet E-301

Add the following note to MSB2 panelboard schedule:

Circuit MSB2-3, remove existing 800A/3-pole breaker and feeder wiring after Phase 4 boiler room demolition is completed. Install new 600A breaker in its place (with necessary hardware and filler plates). Provide new 600A feeder from new breaker to UDS in Kitchen C104. Feeder shall be (2) 3" EMT conduits with (4) #350KCMIL copper and (1) #1 copper ground in each conduit.

Panel Schedule PF, revise Circuit #5 to be 2,500 watts, 30A, single pole breaker with #10 wire.

Panel Schedule PF, revise Circuit #24 to be 2,500 watts, 30A, single pole breaker with #10 wire. Label circuit as MDF.Add Note #1 to provide breaker lock on device.

47. Sheet E-302

Circuits K1-13,15,17; K1-16,18,20; K1-19,21,23; K1-22; K1-25,27,29; K2-1,3,5; K2-2,4,6 to be eliminated completely. Delete associated breakers and wiring.

Subpanel "K1" - reduce panel from 400A to 200A. New feeder shall be 2" EMT conduit with (4) #3/0 copper and (1) #6 copper ground.

Subpanel "K2" - reduce panel from 400A to 200A. New feeder shall be 2" EMT conduit with (4) #3/0 copper and (1) #6 copper ground.

Panelboard "MSB2" - Change Circuit #17 feeding Subpanel "K" from 400A to 200A.

Panelboard "MSB2" - Change Circuit #18 feeding Subpanel "KI" from 400A to 200A.

48. <u>Sheet T-101</u>

Change Detail Marker at Doors D101A and D101B to R/T-105

Change Detail Marker at Door D109A to S/T-105

49. <u>Sheet T-401</u>

Electrical devices shown on east wall of PDC A137 to be in surface mounted raceway with a single vertical drop at north end of devices (indicated graphically by heavy weight line) in lieu of recessed boxes as indicated currently on plan.

Prepared by,

Hal E. Kovert, AIA Principal



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Addendum No. 3

file: 1518.01/E-1

Attachments:

 Specification
 Sections
 08710

 Drawings
 A-004, P-402, AD-3.1, AD-3.2, AD-3.3, AD-3.4, AD-3.5, AD-3.6, AD-3.7, AD-3.8, AD-3.9, AD-3.10, AD-3.11, AD-3.12, AD-3.13, AD-3.14, AD-3.15

Total Pages:

(48) Forty-Eight

End of Addendum No. 3

NORTH HARRISON MIDDLE SCHOOL 2016 ADDITION & RENOVATION

SECTION 08710 - FINISH HARDWARE

PART 1 – GENERAL

1.01 WORK INCLUDED

Furnish labor, materials, equipment, special tools, supervision and services required to complete all Finish Hardware work as indicated, noted, detailed, and scheduled on the Drawings and specified herein.

1.02 OWNER VERIFICATION AND REVIEW MEETING

Contractor and hardware supplier are required to meet with the Owner to review and verify the hardware schedule and sets per door. Contractor and supplier shall be responsible for verifying door and hardware handings, lockset operations, and keying required. All information, except for keying, shall be included in the submittals prior to being forwarded to the Architect.

1.03 KEYING MEETING

Contractor and hardware supplier are required to meet with the Owner to review and verify all requirements for keys and keying per door. Incorporate and coordinate all locking hardware in the Project to provide for a complete and unified system of keying. A complete keying schedule shall be submitted to the Architect and Owner, for approval, within seven days after the meeting. Determine cylinders and cores required to match or be compatible with any existing building master keying systems in place as per the Owner's requirements.

1.04 RELATED WORK SPECIFIED ELSEWHERE

Section 01400 - Quality Control Section 04220 - Concrete Unit Masonry Section 06100 - Rough Carpentry Section 07900 - Joint Sealers Section 08110 - Steel Doors and Frames Section 08211 - Flush Wood Doors Section 08410 - Aluminum Entrances and Storefronts Section 08800 - Glass and Glazing Section 08800 - Glass and Glazing Section 09900 - Painting Section 13850 - Fire Detection and Alarm System Division 16: Electrical components, connections, and coordination Section 17130 - Horizontal Cabling. Section 17920 - Access Control System Electrical Drawing Technology Drawings

1.05 QUALITY ASSURANCE

- A. Hardware Supplier:
 - 1. An established firm dealing in architectural commercial door hardware, with an office, sample room, warehousing facilities and an adequate inventory.
 - 2. Has demonstrated a record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project.
 - 3. Supplier must have, as an employee, an experienced and certified Architectural Hardware Consultant (AHC), who is available to Owner, Architect, and Contractor, for consultation throughout the course of the Work.
 - 4. Provide a competent technician to service the hardware on the job as may be required.
 - 5. A regular franchised distributor for all materials required for this project.
 - 6. Shall replace damaged or defective materials prior to shipment to the site. Repairs not acceptable.
 - 7. Shall meet with the Owner to review and verify all requirements and keying required.

- 8. Shall conduct a comprehensive training class for the Owner's maintenance personnel prior to date of acceptance on all special application mechanical hardware provided under this Section.
- B. All work to comply with the latest requirements of ADA, ICC/ANSI A117.1, and the accessibility chapter of the Building Code.
- C. All work to comply with the latest requirements of NFPA 80, NFPA 101 and NFPA 252 in providing hardware for all fire rated openings.

1.06 <u>REFERENCES</u>

- A. American National Standards Institute (ANSI):
 - 1. ANSI A117.1, Providing Accessibility and Usability for Physically Handicapped People.
 - 2. ANSI/BHMA A156.1, Butts and Hinges.
 - 3. ANSI/BHMA A156.3, Exit Devices.
 - 4. ANSI/BHMA A156.4, Door Controls-Closers.
 - 5. ANSI/BHMA A156.6, Architectural Door Trim.
 - 6. ANSI/BHMA A156.7, Template Hinge Dimensions.
 - 7. ANSI/BHMA A156.13, Locks & Latches, Mortise.
 - 8. ANSI/BHMA A156.16, Auxiliary Hardware.
 - 9. ANSI/BHMA A156.18, Materials and Finishes.
- B. American Society for Testing and Materials (ASTM):
 - 1. ASTM-E2074-2001 Standard Test Method for Fire Tests of Door Assemblies, Including Positive Pressure Testing of Side-Hinged and Pivoted Swinging Door Assemblies.
- C. Code of Federal Regulations (CFR) Americans with Disabilities Act (ADA):
 - 1. Latest version as adopted, approved and accepted by the State.
- D. Door and Hardware Institute (DHI):
 - 1. Keying Systems and Nomenclature.
 - 2. Hardware for Labeled Fire Doors.
 - 3. Sequence and Format for the Hardware Schedule.
 - 4. Abbreviations and Symbols.
- E. National Fire Protection Association (NFPA):
 - 1. NFPA 80 Standard for Fire Doors and Windows.
 - 2. NFPA 101 Life Safety Code.
 - 3. NFPA 105 Recommended Practice for the Installation of Smoke-Control Door Assemblies.
 - 4. NFPA 252 Standard Methods of Fire Tests of Door Assemblies.
- F. Steel Door Institute (SDI):
 - 1. SDI 100 Recommended Specifications for Standard Steel Doors and Frames.
- G. Underwriter's Laboratories, Inc. (UL) UL Standards for Safety:
 - 1. UL 10C-97 Positive Pressure Fire Tests of Door Assemblies.
 - 2. UL 228 Door Closer-Holders, With or Without Integral Smoke Detectors.
 - 3. UL 305 Panic Hardware.

1.07 <u>SUBMITTALS</u>

- A. Hardware Schedule:
 - 1. Submit a completely detailed schedule of finish hardware in "Vertical Format" per the Door and Hardware Institute's Sequence and Format. Include a complete typewritten schedule indicating every item required for each door or opening. Schedules to include, but are not limited to; the manufacturers, model numbers, materials, types, styles, sizes, handings, finishes, etc.
 - 2. Numbering of hardware sets is to match those as indicated in the Specifications and as noted on the Door Schedule on the Drawings. Cross reference plans and schedules.
 - 3. Include all prep of doors and frames required for hardware, including mounting heights, locations and dimensions.
 - 4. Clearly indicate door sets altered from that specified.
- B. Owner Verification and Review Meeting:
 - 1. Submit with submittals, confirmation that the meeting was conducted with the Owner.
 - 2. Include list of those present at the meeting.
 - 3. Itemize all items resulting from discussions of the meeting in a "meeting minutes" format.
 - 4. Review of set functions shall be done on a "per door" basis, and not merely by sets. Sets included herein is for the convenience of review by grouping like conditions and not intended to necessarily be representative of same function for all doors in the set. Verify with Owner.
- C. Manufacturer's Product Information:
 - 1. Furnish catalog cutsheets, drawings, and other descriptive data on all hardware items.
 - 2. After final approval of the hardware by the Architect, furnish copies of submittals to door and frame suppliers and any other subcontractors and suppliers necessary for coordination and installation of door hardware complete.
- D. Samples:
 - 1. If requested by the Architect, submit one (1) sample of each different item of hardware for approval, accompanied by an itemized list showing where the different items are to be used, the manufacturer's number, the finish, sizes applicable, and the number required.
 - 2. Submit a full sample ring of hardware finishes for all manufacturers included.
 - 3. After review, the samples will be returned to the supplier.
- 1.08 DELIVERY, STORAGE AND HANDLING
 - A. Deliver hardware or templates, or both to factory or to building as required by those furnishing items to which hardware is to be applied.
 - B. Plainly mark packages or hardware so locations of use may be ascertained without breaking the packages.
 - C. Deliver work so all work will progress without delay or interruption.
 - D. The Contractor is responsible for providing adequate locked storage space for the scheduled quantities of hardware when delivered to the job.

1.09 PROJECT CONDITIONS

- A. The hardware supplier is responsible to examine the door and frame drawings and elevations to determine the suitability of hardware specified.
- B. It will be this supplier's responsibility to furnish the correct hardware to fit the door and frame conditions as indicated for correct and proper operation.

1.10 WARRANTY

- A. Furnish manufacturer's limited warranty covering defects in materials and workmanship for periods indicated as follows:
 - 1. Door Closers: Minimum Ten (10) years.
 - 2. Locksets: Minimum Ten (10) years.
 - 3. Exit Devices: Minimum Five (5) years.
 - 4. All Other Hardware: Minimum One (1) year.

PART 2 - PRODUCTS

2.01 KEYING AND KEYS

- A. Key system must be a patented keyway.
- B. Key, master key and grandmaster key to Owner's requirements. The key schedule will be developed by hardware supplier in cooperation with Owner's representative.
- C. Provide six (6) grandmaster keys, six (6) master keys per group, and two (2) keys per lock.
- D. Engrave all keys with the words **UNLAWFUL TO DUPLICATE THIS KEY**.

2.02 LOCKS, LATCHES AND CYLINDERS

- A. All cylinders must be factory keyed. Provide certification from lock manufacturer stating cylinders have been factory keyed.
- B. All cylinders to have removable cores.
- C. Provide construction cores on all doors as required.
- D. Hardware supplier must be an <u>authorized stocking distributor</u> of the lock they propose to furnish.
- E. Provide a cylinder for every lock requiring one, whether specifically specified or not.
- F. Unless specifically indicated otherwise, all cylinders supplied throughout the entire project are to be capable of being keyed from the same master keying system. Key cylinders in dogged panic devices, keyed removable mullions, coiling doors, overhead doors, etc. to match building master keying system.

2.03 FINISHES

- All finishes, typical, are to be: Satin Chrome US26D (652 Plated Steel, 626 Plated Brass) unless otherwise indicated. Materials unable to have this finish applied are to have a finish to closely match and compliment (aluminum, dulled chrome, clear satin anodized, satin stainless steel, mil, painted, etc.).
- B. All finishes at clear anodized doors to be: Satin Chrome US26D (652 Plated Steel, 626 Plated Brass) unless otherwise indicated. Materials unable to have this finish applied are to have a finish to closely match and compliment (aluminum, dulled chrome, clear satin anodized, satin stainless steel, mil, painted, etc.).
- C. All hardware for painted or other aluminum storefront doors to have finish to match doors and frames. Contact Architect during bidding for any clarifications or concerns in providing finishes to match.
- D. Contact Architect during bidding for any clarifications or concerns for finishes to be provided.

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2.04 HARDWARE SETS

- A. Verification:
 - 1. The following schedule is intended to describe, in general, the types and quantities of hardware required for the various types of doors and for the other parts of the building which will require hardware. Do not consider this schedule as entirely inclusive.
 - 2. Hardware supplier is responsible for visiting the jobsite and reviewing the requirements for each installation. The supplier shall be responsible for providing all hardware as required to serve the door's intended purpose and intent, and include all costs for such in their bid.
 - 3. Hardware supplier is responsible for coordination of all hardware items used together in conjunction with one another, mounting as required to coordinate with all doors and frames as designed, and include all costs for such in their bid.
 - 4. Hardware supplier is responsible for conducting the Owner Verification and Review Meeting, incorporating all items into submittals, and include all costs for such in their bid.
 - 5. Hardware supplier is responsible for conducting the Owner Keying Meeting, determining cylinders and cores required to match any existing building master keying system, provide and install compatible items and key per Owner's requirements.
- B. General Requirements:
 - 1. Provide all fire and smoke seals and gaskets as required per Code for all rated door assemblies and for all smoke partition assemblies; full perimeter at head, jambs and bottom.
 - 2. Provide glass and materials as required to meet and maintain fire ratings for all assemblies.
 - 3. All items as listed in hardware sets are "per door", unless otherwise indicated.
 - 4. All hardware to be mounted per ADA and ICC/ANSI A117.1.

2.05 HARDWARE PRODUCTS

A. Acceptable Manufacturers:

<u>Hardware Item</u> Hinges:	<u>Manufacturer</u> Ives, Hager, McKinney, Stanley, Bommer
Locksets (Cylindrical):	(Grade 1) Schlage, Falcon, Best, Sargent, Hager, Dorma, Yale
Locksets (Mortise):	Schlage, Falcon, Best, Sargent, Hager, Dorma
Deadbolts:	Schlage, Falcon, Best, Sargent, Hager, Dorma, Yale
Lock Cores:	Best
Panic Devices:	Von Duprin, Precision (PHI), Hager
Push/Pulls:	lves, Glynn-Johnson, Hager, Rockwood, Trimco
Surface Closers:	LCN, Sargent, Hager
Concealed Closers:	LCN, Sargent
Wall/Floor Stops:	lves, Glynn-Johnson, Hager, Rockwood, Trimco
Wall/Floor Holders:	Ives, Glynn-Johnson, Hager, Rockwood, Trimco
Overhead Stops/Holders:	Glynn-Johnson, Hager, Rockwood, Trimco, Rixson

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Removable Mullions:	Von Duprin, Falcon, Detex, Sargent, Dorma, Stanley, Yale, Precision (PHI)
Thresholds:	Hager, NGP, Pemko, Reese, Zero
Seals/Gaskets/Sweeps/Bottoms:	Hager, NGP, Pemko, Reese, Zero
Overhead Drip Guards:	Hager, NGP, Pemko, Reese, Zero
Flushbolts/Dustproof Strikes:	lves, Hager, Rockwood, Trimco
Coordinators:	lves, Hager, Rockwood, Trimco
Plates:	lves, Hager, Rockwood, Trimco
Silencers:	lves, Hager, Rockwood, Trimco
Automatic Door Bottoms:	Hager, NGP, Pemko, Reese
Automatic Door Power Operators:	LCN
Automatic Door Push Plates:	LCN
Position Switches:	Schlage, Securitron
Electric Strikes:	Von Duprin

B. Hinges:

3.

- 1. All interior standard hinges shall be one of the following:
 - a. lves, 5BB1WT, steel hinge and pin.
 - b. Hager, BB1168, steel hinge and pin.
- 2. All exterior standard hinges shall be one of the following:
 - a. Ives, 5BB1HW, brass hinge and stainless steel pin.
 - b. Hager, BB1199, brass hinge and stainless steel pin.
 - All continuous hinges shall be one of the following:
 - a. Ives, 700, stainless steel.
 - b. Hager Roton, 790-900, stainless steel.
- 4. All continuous hinges shall be one of the following
 - (where finish other than clear is desired or to match painted or anodized aluminum storefronts): a. Ives, 112HD, aluminum geared.
 - b. Hager Roton, 780-112, aluminum geared.
- 5. All interior spring hinges shall be one of the following:
 - a. Ives, 3CB1HW, steel.
 - b. Hager, 1250, steel.
- 6. All exterior spring hinges shall be one of the following:
 - a. Ives, 3CB1HW, brass hinge and pin.
 - b. Hager, 1150, brass hinge and pin.
- 7. Interior and exterior standard hinges shall be 5 knuckle, ball bearing, heavy weight, full mortise, wide throw template type hinges with flush barrel and non-removable pins.

- 8. All exterior hinges shall be of non-corrosive metals, stainless steel, brass, or aluminum as specified, and appropriate for finishes required. Painted or galvanized steel is not permitted. Hinges on all exterior entry doors and all doors receiving panic hardware shall be continuous hinge type and configuration, full height of door.
- All interior standard hinges shall be capable of 180 degree throw.
 Use wide throw hinges where necessary to clear jamb trim. Provide same material and finish as standard hinges such that all hinges match for like use and applications.
- 10. All continuous hinges at access control doors are to be provided with electric power transfer prep, located and sized as required to coordinate with devices, equipment, and wiring needs.
- 11. Except where label provisions require larger or heavier hinges or where specified otherwise:
 - a. Provide 1-1/2 pairs of hinges for each door up to 7'-6".
 - b. Provide 2 pairs of hinges for doors over 7'-6".
 - c. Use 4-1/2" hinges on doors up to 3'-4" wide.
 - d. Use 5" hinges on doors over 3'-4" wide.
- C. Locksets (Cylindrical):
 - 1. All heavy-duty Grade 1 cylindrical locksets shall be one of the following:
 - a. Schlage, ND Series, "Rhodes" lever and escutcheon.
 - b. Falcon, T Series, "Dane" lever and escutcheon.
 - c. Best, 9K Series, "15" lever and "D" escutcheon.
 - d. Sargent, 11 Line TZONE Series, "L" lever and escutcheon.
 - e. Sargent, 10 Line Series, "L" lever and escutcheon.
 - f. Hager, 3400 Series, "Withnell" lever and escutcheon.
 - g. Dorma, CL800 Series, "LR" lever and escutcheon.
 - h. Yale, 4700(LN) Series, "Augusta AU" lever and escutcheon.
 - i. Stanley, QCL 100 Series, "Sierra E" lever and escutcheon.
 - 2. All locksets shall have 2-3/4" backset with appropriate standard strike package.
 - 3. All classrooms shall be equipped with latch having a dead latching pin. Function shall provide for anti-intruder capabilities which enable the doors to be closed and locked from the inside of the room, allow egress from the inside without the use of a key, and remain locked upon re-closing without relocking by key. No deadbolt is permitted. Function equal to:
 - a. "Schlage" L9071, Classroom Security Lock.
 - b. "Sargent" 38, Classroom Security Lock.
 - 4. All other conditions, function and operation as selected by Owner from all manufacturer's available.
- D. Locksets (Mortise):
 - 1. All heavy-duty Grade 1 mortise locksets shall be one of the following:
 - a. Schlage, L Series, "06" lever and "A" rose.
 - b. Falcon, MA Series, "Dane" lever and "Gala" rose.
 - c. Best, H Series, 45H, "15" lever and "H" rose.
 - d. Sargent, 8200, "L" lever and "LN" rose.
 - e. Hager, 3800 Series, "Withnell" lever and "Sectional" rose.
 - f. Dorma, ML9000 Series, "LR" lever and escutcheon.
 - 2. Provide full face escutcheon on all exterior door conditions in lieu of rose.
 - 3. Provide integral deadbolt where deadbolts are identified.
 - 4. All classrooms shall be equipped with latch having a dead latching pin. Function shall provide for anti-intruder capabilities which enable the doors to be closed and locked from the inside of the room, allow egress from the inside without the use of a key, and remain locked upon re-closing without relocking by key.

Function equal to:

- a. "Schlage" L9071, Classroom Security Lock.
- b. "Sargent" 38, Classroom Security Lock.
- 5. Deadbolts from public rooms shall be equipped with anti-throw capabilities such that the latch cannot be thrown from the interior side of the room. In all conditions, deadbolt shall be interlocked with inside lever to allow the locked deadbolt to automatically unlatch during egress without the use of a key.
- 6. All other conditions, function and operation as selected by Owner from all manufacturer's available.
- E. Deadbolts (Cylindrical, when no mortise set is present):
 - 1. All heavy-duty Grade 1 deadbolts shall be one of the following:
 - a. Schlage, B560 Series.
 - b. Falcon, D100 Series.
 - c. Best, T Series.
 - d. Sargent, 34 Series.
 - e. Sargent, 480 Series.
 - f. Hager, 3100 Series.
 - g. Dorma, D800 Series.
 - h. Yale, 3500 Series.
 - 2. Provide with standard backset and high security dead latching lockbolt.
 - 3. Deadbolts from public rooms shall be equipped with anti-throw capabilities such that the latch cannot be thrown from the interior side of the room. Operation of the inside ADA compliant thumbturn shall allow the locked deadbolt to unlatch without the use of a key.
 - 4. All other conditions, function and operation as selected by Owner from all manufacturer's available.
- F. Panic Devices (Rim Type):

1.

- All panics shall be one of the following:
 - a. Von Duprin, 99 Series, "06" lever design.
 - b. Stanley (PHI), Apex 2100 Series, "A" lever design.
 - c. Hager, 4500 Series, "Withnell" lever design.
- 2. Provide Lever Trim with ANSI Function "08" on exterior of all devices, unless indicated otherwise. Only compression springs shall be used in devices, latches and outside trim and/or controls.
- Where Door Pulls are scheduled, provide lves 8190, 90 degree offset pull.
 12" center-to-center x 1" diameter x 3-1/4" projection, concealed mounting, brass.
- All exterior doors to receive locking cylinders with night latch function, unless indicated otherwise.
- 5. Provide Cylinder Dogging on all devices, unless specifically indicated otherwise.
- 6. Provide cylinders for all panic devices to be compatible for brand of locksets provided and/or for building's master keying system.
- 7. Provide fire rated devices for all rated door assemblies.
- 8. Exterior panic doors to have universal function, adjustable in the field for operation as desired.
- 9. All classrooms shall be equipped with anti-intruder capabilities which enable the doors to be closed and locked from the inside of the room, allow egress from the inside without the use of a key, and remain locked upon re-closing without relocking by key. Provide Double Cylinder and Lever Trim. No dogging permitted.
- 10. All other conditions, function and operation as selected by Owner from all manufacturer's available.
- 11. Exit devices shall be tested to ANSI/BHMA A156.3 test requirements by a BHMA certified laboratory. A written certification showing successful completion of a minimum of 1,000,000 cycles shall be provided upon request.

- 12. Touch pad shall extend a minimum of one half of the door width. Maximum unlatching force shall not exceed 15 pounds. End cap will have three-point attachment to the door.
- 13. Provide roller strikes for all rim and surface-mounted vertical rod devices, ASA strikes for mortise devices, and manufacturer's standard strikes for concealed vertical rod devices.
- 14. All devices to incorporate a security dead-latching feature.
- 15. Provide removable mullion for any pair of doors where panic devices are used, whether scheduled or not, and whether frame is existing or new. Prep frames as required.
- 16. In retrofit or renovation work, provide cover plate kit to cover cutouts required by existing exit device installations consisting of inside and outside plates for hinge stile cutouts, an inside plate for the lock stile, and all necessary hardware.
- G. Electrified Panic Devices:
 - 1. All electrified panics shall be one of the following (to match series of all others specified):
 - a. Von Duprin, 99 Series, "06" lever design.
 - b. Stanley (PHI), Apex 2100 Series, "A" lever design.
 - c. Hager, 4500 Series, "Withnell" lever design.
 - 2. Provide equal to Von Duprin EL Electric Latch Retraction option to allow for a control station actuator (key switch, credential reader, etc.) to remotely unlatch and retract the latch bolt.
 - 3. Provide SD-EL Special Center Case Dogging for cylinder dogging capability.
 - 4. Provide cylinders for all panic devices to be compatible for brand of locksets provided and/or for building's master keying system.
 - 5. Provide equal to Von Duprin EPT-2 Power Transfer.
 - Provide equal to Von Duprin PS914 Power Supply. Provide equal to Von Duprin 900-2RS option for 2 relay EL panic device control board. Provide equal to Von Duprin 900-BB option for battery backup. Provide equal to Von Duprin 900-FA option for input of a normally closed fire alarm contact to the fire alarm system.
 - 7. Provide equal to Von Duprin E996L electrified Lever Trim with cylinder operation for night latch function on all devices, unless indicated otherwise.
 - Where Door Pulls are scheduled, provide lves 8190, 90 degree offset pull.
 12" center-to-center x 1" diameter x 3-1/4" projection, concealed mounting, brass.
 - Field convertible between Fail-Safe and Fail-Secure. Upon loss of power, the panic device and trim shall fail to Fail Secure condition so that the door remains in a locked position to maintain security to the building and spaces.
 - 10. In retrofit or renovation work, provide cover plate kit to cover cutouts required by existing exit device installations consisting of inside and outside plates for hinge stile cutouts, an inside plate for the lock stile, and all necessary hardware.
- H. Push/Pulls:
 - 1. All push plates shall be Hager, A40R, size: 6"x16", brass.
 - 2. All pulls shall be Hager, 9G, brass.
 - 3. All flush cup pulls shall be Hager, 17N, brass.
- I. Surface Closers:
 - 1. Push side condition (with parallel arm) shall be one of the following:
 - a. LCN, 4110 Series (4111 cylinder).
 - b. Sargent, 281 Series.
 - c. Hager, 5100 Series.
 - 2. Pull side condition (with non-parallel arm) shall be one of the following:
 - a. LCN, 4040 Series (4041 cylinder).
 - b. Sargent, 281 Series.
 - c. Hager, 5100 Series.

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- 3. Provide reduced force ADA cylinder.
- 4. Door closers shall be hydraulic, full rack and pinion action with a high strength cast iron cylinder. Cylinder body shall be 1-1/2" diameter, and double heat-treated pinion shall be 11/16" diameter. A written certification showing successful completion of a minimum of 1,000,000 cycles shall be provided upon request.
- 5. All closers shall have forged steel main arms and forearms.
- 6. Mounting shall be on the inside face of the door, interior to the room. Closers shall not be seen on the corridor, hallway or public side of the door.
- 7. All covers shall be metal.
- 8. All finishes shall be powder coat aluminum.
- 9. Provide hold open functions where specified. All hold opens to be adjustable set up to 180 degrees.
- 10. Provide concealed closer in lieu of surface closer where a closer is used in conjunction with overhead stops/holders.
- 11. In all cases, manufacturer's recommended table of sizes to govern size of closers to be furnished.
- 12. Use through-bolts to fasten surface closers to mineral core wood and hollow metal doors.
- 13. Furnish special overhead closers where shown or specified.
- 14. Provide arms, corner brackets, mounting brackets, or drop plates as required.
- 15. Provide 180° door swing wherever possible.
- 16. Reduced force opening of less than 5 lbs. of force for interior hinged doors per ADA.
- 17. Closing speed of sweep period 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 per ADA.
- J. Wall/Floor Stops:
 - 1. All wall stops shall be one of the following:
 - a. lves, WS401CCV, brass.
 - b. Hager, 236W, brass.
 - 2. All floor stops shall be one of the following:
 - a. Ives, FS436; FS438 if high stop condition is required, brass.
 - b. Hager, 241F; 243F if high stop condition is required, brass.
 - 3. All heavy-duty floor stops shall be one of the following:
 - a. Ives, FS18S, steel stud grouted in concrete.
 - b. Hager, 269F, steel stud grouted in concrete.
 - 4. Provide stops or bumpers wherever an opened door strikes any part of building construction, whether indicated or not. In general, provide wall mounted stops for all doors.
 - 5. Furnish floor dome type where wall type cannot be used.
 - 6. Furnish heavy-duty floor stops at all exterior entry and panic doors, whether indicated or not.
- K. Wall/Floor Holders:
 - 1. All wall holders shall be one of the following:
 - a. Ives, WS40.
 - b. Hager, 327W.
 - 2. All floor holders shall be one of the following:
 - a. Ives, FS40.
 - b. Hager, 326F.
- L. Overhead Stops/Holders:
 - 1. All overhead stops shall be Glynn-Johnson, 90 Series.
 - 2. Set units for combination of stop and hold open functions.
 - 3. Coordinate installation with closers for proper operation and performance.
 - 4. Provide concealed closer in lieu of surface closer where a closer is used in conjunction with overhead stops/holders.

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- M. Removable Mullions:
 - 1. All removable mullions shall be one of the following:
 - a. Von Duprin, 4954.
 - b. Falcon, 4023.
 - c. Detex, 90KR.
 - d. Sargent, L980.
 - e. Hager, 4900.
 - 2. Rim cylinders compatible with those for locksets.
 - 3. Strikes compatible with panic devices and locksets.
 - 4. Finish painted to match frame.
 - 5. Provide removable mullion for any pair of doors where panic devices are used, whether scheduled or not, and whether frame is existing or new.
 - 6. Provide fire rated devices in all fire rated openings.
- N. Thresholds:
 - 1. Aluminum, saddle-type.
 - 2. Fully ADA compliant.
 - 3. Span entire width and depth of opening.
 - 4. 1/2" maximum height.
 - 5. 1:2 ratio bevel slope.
 - 6. Finish to match all other hardware specified for opening, and storefront units where applicable.
- O. Seals/Gaskets/Sweeps/Bottoms (used for Weatherstripping):
 - 1. All bottoms for doors with recessed bottom channels shall be one of the following: a. Hager, 750SN.
 - 2. All bottoms for doors without recessed bottom channels shall be one of the following: a. Hager, 772S.
 - 3. All bottoms to be mil finish aluminum.
 - 4. Provide bottoms on all exterior doors, whether scheduled or not.
 - 5. Weatherstripping to be Vinyl, Neoprene, EPDM, TPE (thermoplastic elastomer), or Silicone.
 - 6. Full length and width of opening at each condition.
 - 7. All weatherstripping sets shall be determined by the door hardware supplier as appropriate to the application and able to provide a weather-tight and weather-proof seal, while allowing proper operation of the door and all other hardware.
 - 8. Provide weatherstripping seal sets at entire perimeter jambs and head of all exterior doors, whether scheduled or not.
- P. Seals/Gaskets (used for Sound Seals):
 - 1. All sound seals shall be one of the following:
 - a. Pemko, S88 Series.
 - 2. Silicone, adhesive-backed, with compression bulb and stabilizer flange.
 - 3. Full length and width of opening at each condition.
 - 4. Provide sound seal sets at entire perimeter jambs and head.
- Q. Seals/Gaskets (used for Fire and Smoke Seals):
 - 1. All fire and smoke seals shall be one of the following:
 - a. Pemko, HSS2000 Series.2. High temperature silicone, self-extinguishing and non-toxic.
 - Full length and width of opening at each condition.
 - 4. Provide fire and smoke seal sets at entire perimeter jambs and head as required.

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- R. Overhead Drip Guards:
 - All drip strips shall be NGP, 16 Series.
 2-1/2" wide x 1-1/2" high x full width of the door frame. Arching horizontal drip shield and vertical fastening leg.
 - 2. All drip strips to be aluminum.
 - 3. Provide clear anodized or bronze anodized finish as applicable to match aluminum door. If not an aluminum door, match all other hardware. Provide clear anodized, typical.
 - 4. Install drip strip along top edge of all exterior doors, whether scheduled or not. Caulk sealant along top edge.
- S. Flushbolts/Dustproof Strikes:
 - 1. All flushbolts shall be one of the following:
 - a. lves, 262.
 - b. Hager, 281D.
 - 2. Provide at top and bottom of doors.
 - 3. Provide dust proof strike for bottom flushbolts, provide as deep as possible.
- T. Coordinators:
 - 1. All coordinators shall be one of the following:
 - a. Ives, COR Series.
 - b. Hager, 297D.
 - c. Trimco, 3094 Series.
 - 2. Stop mounted type with filler bar and mounting brackets as required.
 - 3. Width as required for opening.
 - 4. Provide coordinator for any pair of doors where astragal is used, whether scheduled or not.
- U. Plates:
 - 1. All kick plates shall be
 - height = 8", length = 2" less than door, unless otherwise indicated, and one of the following: a. lves, 8400.
 - b. Hager, 194S.
 - 2. All armor plates shall be
 - height = 36", length = 1" less than door, unless otherwise indicated, and one of the following:
 - a. lves, 8400.
 - b. Hager, 194S.
 - 3. All plates to be .050" thick minimum, brass, stainless steel, or aluminum.
 - 4. All plates to have beveled edges on all 4 sides.
 - 5. All plates to have countersunk screws.
 - 6. Screw-fasten solid to door.
 - 7. Provide kick plates on the interior side of all doors in a restroom, custodial or janitorial room, mechanical or electrical room, laundry room or other such utility space, whether scheduled or not.
 - 8. Provide armor plates on both sides of all crash or impact doors, whether scheduled or not.
- V. Automatic Door Bottoms:
 - 1. All automatic door bottoms shall be one of the following:
 - a. Hager, 730S.
 - b. NGP, 422.
 - c. Pemko, 411ARL.
 - d. Reese 521C.
 - 2. Non-handed, reversible, full mortise, flush mounting.

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- 3. Comprised of an aluminum case surrounding a movable drop-bar seal. The drop-bar seal is actuated by a plunger which contacts the jamb as the door closes, forcing the drop-bar seal down against the floor or threshold surface.
- 4. Mill aluminum finish with black sponge neoprene insert.
- 5. Provide appropriate type of unit applicable to each door material and thickness.
- W. Silencers:
 - 1. All door silencers in metal frames shall be one of the following:
 - a. Ives, SR64.
 - b. Hager, 307D.
 - 2. All door silencers in wood frames shall be one of the following:
 - a. Ives, SR65.
 - b. Hager, 308D.
 - 3. Furnish silencers for all interior single and pairs of doors, whether scheduled or not.
 - 4. Omit silencers at doors where they may interfere with other types of seals already required, such as fire rated doors, smoke doors, sound proof doors, or light proof doors.
- X. Position Switches:
 - 1. All position switches for wood doors in wood frames shall be one of the following:
 - a. Schlage, 679-05.
 - b. Securitron, DPS-W.
 - 2. All position switches for hollow metal doors in hollow metal frames shall be one of the following:
 - a. Schlage, 679-05 HM.
 - b. Securitron, DPS-M.
 - 3. All position switches for wood doors in hollow metal frames shall be one of the following:
 - a. Schlage, 679-05 WD.
 - 4. All position switches for aluminum doors in aluminum frames shall be one of the following: a. Schlage, 7764.
 - 5. Monitor the position status of door.
 - 6. Concealed switches, flush-mounted in top of door and head of frame, directly opposite one another.
 - 7. Magnetic switch and a permanent magnet, normally closed.
 - 8. Finish as selected by Architect.
- Y. Electric Strikes:
 - 1. All electric strikes for cylindrical or mortise locksets shall be one of the following: a. Von Duprin. 6200 Series.
 - 2. All electric strikes for panic devices and removable mullions shall be one of the following: a. Von Duprin, 6100 Series.
 - 3. Provide Von Duprin PS902 Power Supply.
 - 4. 24 VDC or 12 VDC voltage as selected.
 - Field convertible between Fail-Safe and Fail-Secure. Upon loss of power, the electric strike shall fail to Fail Secure condition so that the door remains in a locked position to maintain security to the building and spaces.
 - 6. Adjustable keeper.
 - 7. Internal solenoid.
 - 8. Non-handed.
 - 9. Continuous duty operation.
 - 10. Tamper resistant faceplate.
 - 11. Stainless steel material. Finish on stainless steel to match all other hardware at opening.

- 12. Hardware supplier is responsible to coordinate the model required with the condition of installation so as to assure proper fit. Verify condition and dimensions of door frames, mullions, removable mullions, and abutting walls where strikes are to be installed.
- Z. Automatic Door Power Operators:
 - 1. All automatic door power operators shall be LCN, 4640 Series, Auto Equalizer.
 - 2. Electrically-powered low energy combination closer and power operator.
 - 3. BHMA certified meeting requirements of ANSI 156.19 Grade 1 for power assist and low-energy consumption.
 - 4. Top jamb (push side) mounted closer with regular arm and metal cover.
 - 5. Non-handed for either left or right swing.
 - 6. ADA compliant.
 - 7. Adjustable spring size for larger width doors and separate valves for adjusting closing and latching speeds.
 - 8. Provide any and all power supplies required for a fully functional opening.
 - 9. Provide end caps to conceal operator switches.
 - 10. Provide integral electrically-operated on/off switch as required for desired operation capability.
 - 11. All finishes shall be powder coat aluminum. Match finish of storefront doors where applicable.
- AA. Automatic Door Push Plates:
 - 1. All automatic door push plates shall be LCN, 8310 Series, Automatic Operator Actuators.
 - 2. LCN 8310-853, square, wall-mounted actuator.
 - 3. LCN 8310-867F, 4-3/4" square, flush-mount box. Provide at all actuators.
 - 4. LCN 8310-801, plastic weathering ring. Provide at all exterior actuators.
 - 5. Hardwired low voltage actuator with stainless steel touch plate.
 - 6. Engraved handicap symbol, colored blue.
- BB. Access Control Door Controllers:
 - 1. Specified in Section 17920 Access Control System.
- CC. Access Control Credential Readers:
 - 1. Specified in Section 17920 Access Control System.
- DD. Access Control Remote Entry and Camera System:
 - 1. Specified in Section 17920 Access Control System.

2.06 HARDWARE SCHEDULE

NOTE: Locksets are typically mortise locksets unless otherwise noted as cylindrical.

NOTE:

For all existing doors receiving new hardware:

*Replace existing hardware items with new as scheduled *Where new hardware items are scheduled, completely remove all existing items *All existing hardware items not being replaced are to remain *Repair existing door and frame as required *Repair existing wall and floor surfaces as required *Provide covers, trims, and fillers at all existing preps no longer in use

Hardware Set #1 (Doors A101A, D101A)

Continuous Hinges (both leafs) Electrified Panic Device (both leafs) (Door Pull) (Night Latch function) (Cylinder) Surface Closers (one leaf) Power Door Opener (one leaf) Removable Mullion (Cylinder) Threshold (entire opening) Weatherstripping (both leafs) Bottoms (both leafs) Handicap Button for Power Door Opener (both interior and exterior locations) Position Switches (both leafs) Power Supply Power Transfer Access Control Panel (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #2 (Doors A101B, D101B)

Continuous Hinges (both leafs) Electrified Panic Device (both leafs) (Door Pull) (Night Latch function) (Cylinder) Surface Closers (both leafs) Removable Mullion (Cylinder) Threshold (entire opening) Weatherstripping (both leafs) Bottoms (both leafs) Position Switches (both leafs) Power Supply Power Transfer Access Control Panel (See Section 17920) Access Control Credential Reader (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #3 (Doors A129A, B109A, C111C, C122, D134A)

Continuous Hinges (both leafs) Electrified Panic Device (both leafs) (Door Pull) (Night Latch function) (Cylinder) Surface Closers (both leafs) Threshold (entire opening) Weatherstripping (both leafs) Bottoms (both leafs) Position Switches (both leafs) Power Supply Power Transfer Access Control Panel (See Section 17920) Access Control Credential Reader (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #4 (Doors A137B, C111D, D118B, D127B, D148B)

Continuous Hinge Electrified Panic Device (Door Pull) (Night Latch function) (Cylinder) Surface Closer Threshold (entire opening) Weatherstripping Bottoms Position Switch Power Supply Power Transfer Access Control Panel (See Section 17920) Access Control Credential Reader (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #5 (Door A138A)

Continuous Hinges (both leafs) Cylindrical Lockset (active leaf) Electrified Strike (inactive leaf) Surface Closers (active leaf) Surface Bolts (inactive leaf) (top & bottom) Threshold (entire opening) Weatherstripping (both leafs) Bottoms (both leafs) Position Switches (both leafs) Power Supply Power Transfer Access Control Panel (See Section 17920) Access Control Credential Reader (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #6 (Doors B121B, C104)

Continuous Hinge Cylindrical Lockset Electrified Strike Surface Closer Threshold Weatherstripping Bottoms Position Switch Power Supply Access Control Panel (See Section 17920) Access Control Credential Reader (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #7 (Doors B109B, B109C, D109A)

ContInuous Hinges (both leafs) Panic Device (both leafs) (no exterior pull or lockset) Surface Closers (both leafs) Threshold (entire opening) Weatherstripping (both leafs) Bottoms (both leafs) Position Switches (both leafs) *See Door Access Riser Diagrams

Hardware Set #8 (Door D138A)

Continuous Hinges (both leafs) Electrified Panic Device (Door Pull) (Night Latch function) (Cylinder) Panic Device Surface Closers (both leafs) Threshold (entire opening) Weatherstripping Bottoms Position Switches Power Supply Power Transfer Access Control Panel (See Section 17920) Access Control Credential Reader (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #9 (Door A208)

Continuous Hinge Lockset (Cylinder) Surface Closer Threshold Weatherstripping Bottoms Overhead Drip Guard

Hardware Set #10 (Door A103)

Continuous Hinge Cylindrical Lockset Electrified Strike Surface Closer Position Switch Power Supply Access Control Panel (See Section 17920) Access Control Credential Reader (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #11 (Door A122A)

Continuous Hinges (both leafs) Electrified Panic Device (both leafs) (Cylinder) Surface Closer (one leaf) Power Door Opener (one leaf) Removable Mullion (Cylinder) Handicap Button for Power Door Opener (both interior and exterior locations) Position Switches (both leafs) Power Supply Power Transfer Access Control Panel (See Section 17920) Access Control Credential Reader (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #12 (Door A122B)

Continuous Hinges (both leafs) Electrified Panic Device (both leafs) (Cylinder) Surface Closer (both leafs) Removable Mullion (Cylinder) Position Switches (both leafs) Power Supply Power Transfer Access Control Panel (See Section 17920) Access Control Credential Reader (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #13 (Doors A137A, A143)

Hinges Cylindrical Lockset Electrified Strike Surface Closer Position Switch Power Supply Access Control Panel (See Section 17920) Access Control Credential Reader (See Section 17920) *See Door Access Riser Diagrams

Hardware Set #14 (Doors A133, B101, B102, B103, B104, B105, B106, B107, B110, B111, B112, B113, A201, A202, A203, A206, A207, A209, A211, A212, A213, A214, A215, A217, B201, B202, B203, B204, B205, B206, B207, B209, B210, B211, B212, B221, B222, B223, C121) Hinges Lockset (Anti-Intruder Function) (Cylinders) Stop

Hardware Set #15 (Door A125A) Hinges

Lockset (Anti-Intruder Function) (Cylinders) Stop * Contractor to re-install existing door alarm on new door as required.

Hardware Set #16 (Doors A134A, A134B, A145, C115,)

Hinges Lockset (Anti-Intruder Function) (Cylinders) Surface Closer Stop

Hardware Set #17 (Door A107)

Continuous Hinge Panic Device (Cylinders) Surface Closer Stop

Hardware Set #18 (Doors A110, A111, A114, A127, B118, B119, C108, C116, C117, C118, B217, B218) Hinges

Lockset (Privacy Function) Stop

Hardware Set #19 (Doors A104, A112, A113, A118A, A118B, A119, A120, A130, A136, A141, A144A, B208, C10⁻ C105, C112, C114, C119, C133, D104, D143)

Hinges Lockset Stop

Hardware Set #20 (Rated) (Door A123)

Hinges Lockset (Cylinder) Surface Closer Stop Seals/Gaskets (Fire and Smoke Seals)

Hardware Set #21 (Doors A105, A106, A108, A116, A131B)

Hinges Lockset (Cylinder) Stop Seals/Gaskets (Sound Seals) Automatic Door Bottoms (Sound Seals)

Hardware Set #22 (Doors A131A, A132)

Hinges Lockset (Cylinder) Surface Closer Stop Seals/Gaskets (Sound Seals) Automatic Door Bottoms (Sound Seals)

Hardware Set #23 (Doors A135, A140, B108, B120, B121A, B122, D103, D108, A216, B220, B224, C134, C136)

Hinges Lockset (Cylinder) Surface Closer Stop Kickplate

Hardware Set #24 (Door A138A)

Hinges Cylindrical Lockset Surface Closer Stop Kickplate

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Hinges (each leaf) Panic Device (active leaf) (Cylinders) Panic Device (inactive leaf) (no exterior trim) Surface Closer (each leaf) Stop (each leaf) Kickplate (each leaf)

Hardware Set #26 (Doors C111A, C111B)

Hinges (each leaf) Panic Device (each leaf) (Cylinders) Removable Mullion Surface Closer (each leaf) Floor Holder (each leaf) Kickplate (each leaf)

Hardware Set #27 (Door C110B)

Hinges (each leaf) Lockset (Cylinder) (active leaf) Flushbolts/Dustproof strikes (inactive leaf) Surface Closer (each leaf) Wall Holder (each leaf) Kickplate (each leaf)

Hardware Set #28 (Doors C109, C110A, C110C)

Hinges Deadbolt (Cylinder) Push / Pull Surface Closer Wall Holder Kickplate

Hardware Set #29 (Door A144B)

Hinges (each leaf) Lockset (Cylinder) (active leaf) Flushbolts/Dustproof strikes (inactive leaf) Stop (each leaf) Kickplate (each leaf)

Hardware Set #30 (Doors C123, C124, C125, C127, C128, C129, C131, C138, D121, D126, D134B, D139, D142, D144, D145, D146, D147A, D147B, D150B) Lockset (Cylinder)

Hardware Set #31 (Doors C130A, C130B, C132, D140, D148A, D149A, D149B, D150A) Lockset (Anti-Intruder Function) (Cylinders)

Hardware Set #32 (Door D138B) Surface Vertical Rod Panic Device (each leaf) (Cylinders)

Hardware Set #33 (Door A115) Panic Device (Cylinders)

Hardware Set #30 (Doors D110, D111, D112, D116, D118A, D127A, D133) Deadbolt (Cylinder)

Hardware Set #31 (Door D119, D123, D125, D129, D132) Cylindrical Lockset Deadbolt (Cylinder)

Hardware Set #32 (Doors A125B, A126, A128, C135, D120, D131, D135B) Cylindrical Lockset

Hardware Set #33 (Door D109B, D109C) Panic Device (each leaf) (Cylinders) Removable Mullion

Hardware Set #34 (Door D109D) Panic Device (each leaf) (Cylinders)

Hardware Set #35 (Doors A129B,D135A, D109E, D109F, D113, D122, D128, OHD B, OHD C) Existing Hardware to Remain (no changes)

Hardware Set #36 (Coiling Door) Cylinder

Note:

Provide cylinder to fit lock provided with coiling counter door and key to building master key system. Verify with door manufacturer for type required to coordinate with key system.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Install finishing hardware as recommended by the National Builders Hardware Association.
- B. Only use fasteners supplied by the manufacturer. Provide fasteners of suitable size, quantity, type and finish to secure hardware in position for heavy use and long life.
- C. Hardware for application on metal surfaces:
 - 1. Made to standard templates.
 - 2. Fastening harmonized with hardware as to material and finish.
 - 3. Fastenings with approved type anchors according to the manufacturer.
 - 4. In general, ends of through-bolts shall be countersunk.
- D. Mount hardware in accordance with current state and federal accessibility standards and guidelines.
- E. Install hardware per manufacturers instructions and in compliance with:
 - 1. NFPA-80.
 - 2. NFPA-101.
 - 3. NFPA-105.
 - 4. NFPA-252.
 - 5. ANSI A117.1.

- F. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in the Division 9 Sections. Do not install surface-mounted items until finishes have been completed on the substrates involved.
- G. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- H. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- I. Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements specified in Division 7 Section "Joint Sealers".
- J. Weatherstripping and Seals: Comply with manufacturer's instructions and recommendations to the extent installation requirements are not otherwise indicated.

3.02 FIELD QUALITY CONTROL

A. Material supplier to inspect hardware after installation and before final acceptance in order to ensure that hardware has been properly installed. If there are any discrepancies the material supplier is to provide the Architect, General Contractor and Installer with a written report detailing any and all discrepancies. All discrepancies are to be corrected prior to final acceptance unless otherwise directed by the Owner.

3.03 ADJUSTING AND CLEANING

- A. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit.
- B. Immediately prior to Substantial Completion replace all construction cores.
- C. Tag all keys.
- D. Check each key and each lockset to verify proper working order.
- E. Lubricate and adjust all hardware to provide smooth operation.
- F. Clean all hardware per manufacturer's instructions after installer makes final adjustments and prior to final acceptance, remove all mortar, drywall mud, paint overspray, foreign materials, labels, markings, soil, oils, etc. Polish all locksets, plates, and other hardware.
- G. Clean adjacent surfaces soiled by hardware installation
- H. Replace, at no cost to Owner, items that cannot be cleaned to manufacturer's level of new finish quality or that cannot be adjusted to operate freely and smoothly or as intended for the application made.
- I. Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to function properly with final operation of heating and ventilating equipment.

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SUBMITTAL CHECKLIST

- 1. Hardware Schedule.
- 2. Owner Verification and Review Meeting.
- 3. Manufacturer's Product Information.
- 4. Samples.

END OF SECTION 08710

General Demolition Notes SEE SPECIFICATIONS SECTION 01738-SELECTIVE DEMOLITION FOR FURTHER REQUIREMENTS OF DEMOLITION

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- WITHIN SCOPE OF WORK. OTHER SHEETS WITHIN THIS DRAWING SET REFER TO ITEMS PERTAINING TO SPECIFIC AREAS OF WORK WHICH NEED TO BE REMOVED AND ARE TO BE INCLUDED WITHIN THE ENTIRE SCOPE OF DEMOLITION ON THE PROJECT, (INCLUDING BUT NOT LIMITED TO STRUCTURAL, PLUMBING, HVAC, ELECTRICAL, AND TECHNOLOGY). CONTRACTOR IS NOT RELIEVED OF HIS/HER RESPONSIBILITY FOR ALL WORK INTENDED FOR FAILURE TO REVIEW
- ENTIRE DOCUMENT SET FOR WORK REQUIRED. COORDINATE ALL DEMOLITION WITH PHASING, ARCHITECT, AND OWNER'S REPRESENTATIVE. WHERE WALLS, FINISHES, EQUIPMENT, MATERIALS, OR CONSTRUCTION OF ANY TYPE IS INDICATED TO BE REMOVED, THE CONTRACTOR IS TO PATCH AND REPAIR ALL SURFACES TO REMAIN TO MATCH EXISTING
- ADJACENT SURFACES IN ALL ASPECTS. REPAIRED AREAS ARE TO BLEND INTO THE ADJACENT SURFACES AND NOT APPEAR TO BE A PATCH. FOUNDATION WALLS, FOOTINGS, AND CONCRETE SLABS THAT ARE TO BE REMOVED, ARE TO BE REMOVED IN 5 THEIR ENTIRETY.
- CLEAN AND PREP ALL EXISTING WALL SURFACES TO RECEIVE NEW FINISHES. PATCH AND FILL ANY AREAS AS 6. NEEDED DUE TO RENOVATION WORK OR EXISTING CONDITIONS FOR A LIKE-NEW, SMOOTH, FINISHED SURFACE SEE INTERIOR DRAWINGS FOR ADDITIONAL INFORMATION REGARDING AREAS TO RECEIVE NEW FINISHES.
- PROVIDE OPENINGS IN WALLS AS REQUIRED TO INSTALL NEW PLUMBING, MECHANICAL, ELECTRICAL, AND TECHNOLOGY THROUGHOUT THE PROJECT AS REQUIRED TO ACCOMPLISH THE ENTIRE SCOPE OF WORK. SEE PLUMBING, HVAC, ELECTRICAL, AND TECHNOLOGY.
- 8. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS. 9. CONTRACTOR SHALL PROTECT ALL ITEMS AND SURFACES TO REMAIN OR THAT ARE NOT INCLUDED IN
- RENOVATION SCOPE OF WORK, INCLUDING ALL ITEMS INTERIOR AND EXTERIOR TO THE BUILDING. PROTECT ALL SURFACES AND FINISHES TO REMAIN ADJACENT TO RENOVATION WORK. 10. DEMOLITION DRAWING IS INTENDED TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE GENERAL
- DEMOLITION REQUIRED THROUGHOUT. CONTRACTOR SHALL REMOVE ANY/ALL ITEMS OR COMPONENTS AS REQUIRED TO COMPLETE THE ADDITION OR RENOVATION SCOPE OF WORK, WHETHER OR NOT SPECIFICALLY INDICATED OR NOT.
- 11. SEE MECHANICAL DRAWINGS FOR FURTHER INFORMATION AND REQUIREMENTS REGARDING DEMOLITION WORK RELATED TO HVAC EQUIPMENT, DUCT WORK, HYDRONIC PIPING, AND TEMPERATURE CONTROLS.
- 12. SEE PLUMBING DRAWINGS FOR FURTHER INFORMATION AND REQUIREMENTS REGARDING DEMOLITION WORK RELATED TO FIXTURES, SANITARY PIPING, DOMESTIC WATER PIPING, AND GAS PIPING.
- 13. SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION AND REQUIREMENTS REGARDING DEMOLITION WORK RELATED TO LIGHTING, POWER, AND TECHNOLOGY.
- 14. EACH PRIME CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING AS REQUIRED FOR OWN SCOPE OF WORK.

Notice

The Architect/Engineer does not define the scope of individual trades, subcontractors, material suppliers, or vendors. Any sheet numbering system used which identifies disciplines is solely for the Architect/Engineer's convenience, and is not intended to define a subcontractor's scope of work. Information regarding individual trades, subcontractors, material suppliers, and vendors may be detailed, described and indicated at different locations throughout these documents. No consideration will be given to requests for change orders for failure to obtain and review the complete set of drawings and specifications when preparing bids, prices, and quotations.



Demolition Plan Keynotes

	COMPLETELY REMOVE CANOPY, COLUMNS, FOUNDATIONS, CONCRETE STOOP COMPLETE. THIS WORK IS INCLUDED IN ALTERNATE NO. I - GENERAL	
	COMPLETELY REMOVE CANOPY, VESTIBULE, COLUMNS, MASONRY WALLS, FOUNDATIONS, CONCRETE SLAB AND STOOP COMPLETE. ALSO REMOVE THE INTERIOR DOORS TO GYMNASIUM. THIS WORK IS INCLUDED IN ALTERNATE NO. I - GENERAL	
D3	COMPLETELY REMOVE PAVEMENTS AND OTHER MATERIALS AS REQUIRED FOR THE CONSTRUCTION OF THE GYM ENTRY. THIS WORK IS INCLUDED IN ALTERNATE NO. I - GENERAL	
D4	REMOVE WOOD WINDOW UNIT, STUD INFILL FRAMING, DRYWALL, EIFS AND SLATE WINDOW SILL TO OPEN ORIGINAL MASONRY OPENING IN PREPARATION FOR INSTALLATION OF NEW ALUMINUM	
D5	WINDOW UNIT. REMOVE BASE CABINET AND SINK UNIT IN PREPARATION FOR INSTALLATION OF NEW SINKS	
$\left< D6 \right>$	REMOVE DARKROOM REVOLVING ACCESS DOOR AND ENCLOSURE	
D7	REMOVE DOOR(S) AND HARDWARE. FRAME TO REMAIN IN PLACE	
	REMOVE WALLS, CEILING, FLOOR COVERING, DOOR, ETC. TO COMPLETELY STRIP ROOM DOWN COMPLETE. PATCH AREAS TO MATCH ADJACENT SURFACES	
	REMOVE BASE CABINET, SINK AND PLUMBING IN IT'S ENTIRETY	
	REMOVE BOILER ROOM WALLS, FLOOR, CEILING/ROOF AND ALL CONTENTS. BOILERS, PIPING, CONDUIT, ELECTRIC PANELS, ETC. PREPARE FOR NEW CONSTRUCTION	
	REMOVE CAFETERIA WALLS, FLOOR, CEILING/ROOF AND ALL CONTENTS. HVAC, PIPING, CONDUIT, ELECTRIC PANELS, LIGHTING, ETC. PREPARE FOR NEW CONSTRUCTION	
	REMOVE KITCHEN WALLS, FLOOR, CEILING/ROOF AND ALL FIXED EQUIPMENT. HVAC, PIPING, CONDUIT, ELECTRIC PANELS, LIGHTING, EXHAUST HOOD, ETC. PREPARE FOR NEW CONSTRUCTION. ALL LOOSE KITCHEN EQUIPMENT TO BE DISCONNECTED AND MOVED TO LOCATION AS DIRECTED BY OWNER.	
	REMOVE CORRIDOR AND CANOPY TO WEST WING IN IT'S ENTIRETY	
	REMOVE DISHROOM WALLS, FLOOR, CEILING/ROOF AND ALL CONTENTS. HVAC, PIPING, CONDUIT, ELECTRIC PANELS, LIGHTING, ETC. PREPARE FOR NEW CONSTRUCTION	
	REMOVE WALK-IN REFRIGERATION UNITS IN THEIR ENTIRETY	
	REMOVE BOILER FLUES IN THEIR ENTIRETY FULL HEIGHT	
	REMOVE DOOR(S) AND FRAME IN THEIR ENTIRETY. REMOVE RESTROOM WALLS, DOORS, CEILING, TOILET PARTITIONS, PLUMBING FIXTURES, PIPING, ETC. PREPARE	
	FOR NEW CONSTRUCTION. SEE PLUMBING DRAWINGS FOR CAP AND SEALING PIPE.	
	PARTIAL WALL REMOVAL TO PREPARE FOR INSTALLATION OF NEW DOOR & FRAME	
	REMOVE CABINETRY AND SALVAGE FOR REINSTALLATION ON OTHER SIDE OF WALL REMOVE WOOD WINDOW UNIT, STUD INFILL FRAMING, DRYWALL, EIFS AND SLATE WINDOW SILL TO OPEN	
	ORIGINAL MASONRY OPENING IN PREPARATION FOR INSTALLATION OF MASONRY INFILL TO CLOSE OPENING	
	ALTERNATE NO. G-3: REMOVE WOOD WINDOW UNIT, STUD INFILL FRAMING, DRYWALL, EIFS AND SLATE WINDOW SILL TO OPEN ORIGINAL MASONRY OPENING IN PREPARATION FOR INSTALLATION OF NEW ALUMINUM WINDOW UNIT.	
(D25)	REMOVE BUILDING INTERCOM SYSTEM	
	REMOVE BUILDING FIRE ALARM CONTROL PANEL	
	REMOVE ALUMINUM FRAME AND GLASS WALL, INCLUDING DOORS REMOVE CABINETRY, SINK AND PLUMBING, COMPLETE. PATCH ALL WALLS & FLOOR WHERE	
(D29)	ANCHORS AND PIPING REMOVED.	
(D30) (D31)	REMOVE MASONRY FOR NEW ENTRY DOOR. TOOTH BACK TO CREATE MASONRY OPENING	
D32	REMOVE WALL MOUNTED TACK BOARD. PATCH ALL WALLS WHERE ANCHORS REMOVED	
	REMOVE WALL MOUNTED VISUAL DISPLAY BOARD. PATCH ALL WALLS WHERE ANCHORS REMOVED. RETURN ABOARDS TO OWNER.	7
(D34)	REMOVE BUILT-IN SHELVING. PATCH ALL WALLS WHERE ANCHORS REMOVED	
(D35)	REMOVE COILING COUNTER DOOR AND PREPARE FOR MASONRY INFILL	
(D36)	REMOVE CEILING, BASE, FLOOR COVERING (EXCEPT ASBESTOS TILE), LIGHTS, INTERCOM, DATA WIRING, HVAC EQUIP, PIPING, ETC. TO COMPLETELY STRIP ROOM DOWN TO BARE SHELL SPACE. OWNERS SEPARATE CONTRACTOR IS RESPONSIBLE FOR ABATEMENT OF ASBESTOS FLOOR TILE. ABATEMENT CONTRACTOR RESPONSIBLE FOR DEMOLITION PER GOVERNEMNT REQUIREMENTS. FLOORING CONTRACTOR RESPONSIBLE FOR ANY ADDITIONAL FLOOR PREPARATION REQUIRED FOR ADHESION OF NEW FLOORING. FIELD VERIFY LOCATIONS OF ASBESTOS TILE.	
D37	REMOVE CONCRETE CAP, WALLS, FLOOR, PIPE, CONDUIT, ETC OF TUNNEL IN IT'S ENTIRETY. BACK FILL AND COMPACT PER SPECIFICATIONS	
D38	REMOVE ROOF STRUCTURE OVER CORRIDOR	
(D39)	CAP TUNNEL WITH MASONRY BLOCK BEFORE BACKFILLING	
	REMOVE BLOCK AND BRICK VENEER FOR NEW LOUVER	
	REMOVE BLOCK AND BRICK VENEER FOR NEW WINDOW	
$\left< \begin{array}{c} D42 \\ \hline D43 \\ \end{array} \right>$	REMOVE WINDOW UNIT IN IT'S ENTIRETY REMOVE MASONRY BRICK & BLOCK WING WALL	
	REMOVE SINK AND SINK BASE CABINET. PREP FOR INSTALLATION OF NEW COUNTERTOP, SINK AND SINK	
 D45	ENCLOSURE. REMOVE WATER COOLERS AND PATCH WALL TO MATCH ADJACENT SURFACES	
	REMOVE ALUMINUM STOREFRONT & DOORS	
	REMOVE BRICK VENEER FULL HEIGHT	
	REMOVE CONCRETE STEPS IN THEIR ENTIRETY	
(D49) (D50)	REMOVE MASONRY PLANTER IN IT'S ENTIRETY REMOVE BRICK & BLOCK COLUMN ENCLOSURE FULL HEIGHT (2-STORIES)	
	REMOVE BRICK & BLOCK COLUMN ENCLOSURE FULL HEIGHT (I-STORY)	
D52	REMOVE CONCRETE PORCH SLAB. FOUNDATIONS WALLS TO REMAIN	
D53	REMOVE CHAIN LINK FENCE ENCLOSURE IN ITS ENTIRETY	
D54	REMOVE ACOUSTICAL LAY-IN CEILING TILE AND GRID. SEE ALTERNATE DESCRIPTIONS IN SECTION 01230	
D55	COMPLETELY REMOVE FLOOR COVERING AND WALL BASE IN ITS ENTIRETY. PREP FOR INSTALLATION OF NEW FLOORING.	
D56	REMOVE SUSPENDED ACOUSTICAL BAFFLES. SEE ALTERNATE DESCRIPTIONS IN SECTION 01230.	
D57	REMOVE TERRAZZO FLOORING AND BASE AND RECESSED MAT. INFILL RECESS FOR FLUSH TRANSITION TO ADJACENT FLOORING. PREP FOR INSTALLATION OF NEW FLOORING	
D58	COMPLETELY REMOVE PORTION OF CONCRETE BLOCK AND BRICK VENEER EXTERIOR WALL AS SHOWN (INCLUDING, BUT NOT LIMITED TO: WINDOWS, WALL BASE, AND ALL SURFACE MOUNTED ITEMS). SEE SECTION A/A-603 FOR HEIGHTS. SEE MECHANICAL, AND ELECTRICAL FOR ADDITIONAL WORK.)
(D59)	COMPLETELY REMOVE TOILET PARTITIONS IN THEIR ENTIRETY INCLUDING ALL HARDWARE. PREP FOR INSTALLATION OF NEW TOILET PARTITIONS.	/
	COMPLETELY REMOVE PORTION OF LOCKERS AS SHOWN FOR CONSTRUCTION OF NEW CORRIDOR CONNECTOR.)
	COMPLETELY REMOVE PORTION OF CONCRETE BLOCK WALL AS SHOWN IN ITS ENTIRETY (INCLUDING, BUT NOT LIMITED TO: DOORS, FRAMES, HARDWARE, WINDOWS, WALL BASE, AND ALL SURFACE MOUNTED ITEMS).	
	SEE PLUMBING, MECHANICAL, AND ELECTRICAL FOR ADDITIONAL WORK.	١
D62	COMPLETELY REMOVE WALL BASE IN ITS ENTIRETY. PREP FOR INSTALLATION	





REFERENCE NOTES:

- 1 4" DOUBLE COMBINATION WYE AND EIGHTH BEND.
- (3) 4" SINGLE HORIZONTAL ADJUSTABLE CHAIR CARRIER.
- 4" DOUBLE HORIZONTAL ADJUSTABLE CHAIR CARRIER.













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