



Department of Building & Grounds
Architectural Services Division

City of Baton Rouge
Parish of East Baton Rouge

P.O. Box 1471
Baton Rouge, Louisiana 70821
225 389-4694 Voice
225 389-4704 Fax

ADDENDUM #2

October 31, 2024

TO ALL BIDDERS

**PROJECT: PUBLIC SAFETY COMPLEX H2 BUILDING RENOVATIONS FOR VETERAN'S AFFAIRS
CITY PARISH PROJECT NO. 21-ASC-CP-1558**

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract documents.

1. See attached Addendum prepared by Fusion Architects, APC and dated October 30, 2024 (50 pages).

The following revisions shall be incorporated in and take precedence over any conflicting part of the original contract documents.

TOTAL PAGES51 (INCLUDING THIS PAGE)

FAILURE TO INDICATE RECEIPT OF THIS ADDENDUM ON BID FORM MAY BE CAUSE FOR THE BID TO BE REJECTED

Rob Gray, AIA, LEED AP BD+C, Interim Chief Architect
Architectural Services Division
1100 Laurel Street, Rm. 227
Baton Rouge, LA 70802

**ADDENDUM NO. 2
10/30/2024**

**PUBLIC SAFETY COMPLEX H2 BUILDING
RENOVATION FOR VETERAN'S AFFAIRS
9050 AIRLINE HWY. STE. 120,
BATON ROUGE, LOUISIANA 70815
CITY PARISH PROJECT NO. 21-ASC-CP-1558**

BID DATE: Tuesday, November 5, 2024 at 2:00 PM

The following additions, deletions, modifications, or clarifications shall be made to the appropriate sections of the plans and specifications and shall become a part of the contract documents. Bidders shall acknowledge receipt of this Addendum in the space provided on the Bid form.

GENERAL

1. The project will have a SEDBE Goal of 4% as a requirement.
2. A question was raised regarding the year the building was built, the building as a whole was built in different stages, however; based on drawings provided by the owner, the area contained within the scope of work for this project, the building appears to be built around the year 1985, the second floor space above this project was built at a later date as were adjacent spaces that surround the project space.
3. A question was raised regarding who maintains the existing Fire Alarm and Fire Protection systems, as understood from the owner, the systems are maintained by the following:
 - a. Allied - Fire Alarms
 - b. Coastal Fire Protection – Fire Suppression system.
4. Existing Terrazzo flooring will remain, where walls have been removed and disrupt the continuity of the flooring, appropriate self leveling patch material is required for infill. Contractor must prep the existing terrazzo surface to receive new flooring as scheduled for the spaces indicated on the finish schedule. Any and all products required by the flooring manufacturer must be included in the bid price for a complete installation.
5. Door 306 must be self closing – see revisions in Hardware Specification
6. **ROOM 306, 310, 311 ARE TO BE ENCLOSED WITH 1HR RATED WALLS, DOORS TO THOSE ROOMS ARE TO BE 1HR RATED DOORS, ANY DUCTWORK PENETRATIONS ARE TO HAVE 1HR RATED DAMPERS WHERE THEY PASS THROUGH THESE WALLS, SHEET A-100 HAS BEEN UPDATED TO SHOW RED DASHED LINES TO CLEARLY ILLUSTRATE THIS CHANGE**

SPECIFICATIONS

1. **Specification 09 29 00** – Remove references to high impact Gyp. Bd. standard type X or as listed in UL design U419 are the gyp. bd. types that are required for the project.
2. **Specification 09 51 13** – delete ACT 3 and ACT4 from the specification. Only provide ACT-1 and ACT-2 as currently specified.
3. **Specification 08 71 00** – Remove section 08 71 00 Door Hardware and replace with the attached section 08 71 00 Door Hardware.
4. **Specification 08 11 13** – Remove section 08 11 13 Hollow Metal Doors and Frames and replace with the attached section 08 11 13 Hollow Metal Doors and Frames.

DRAWINGS

1. **Sheet D-100**, shaded area of concrete that is to be removed for new plumbing shall be infilled with the following:
 - a. 4" thick 3500 psi Concrete over 15 mil Polyethylene Vapor Barrier. Include WWF 4 Gauge, 4" x 4" W4.0 x W4.0 and pin all sides of new concrete to existing concrete with #5 smooth dowels 16" long, drilled into the existing concrete 8", grease the end being set into the exiting concrete to allow for movement. Fill excavation with 610 limestone as required for 4" concrete to flush out with the existing concrete. For bid purposes, contractor shall assume a 24" depth of fill below the new slab for the plan area indicated.
2. **Sheet A-500**, Detail A6 is intended for infill walls separating the Veterans Affairs Tenant space from the existing corridors. The infill partition is a U419 3hr partition, all joints must be sealed to the existing walls with the appropriate sealant detail as required by the fire joint sealant manufacturer. Furring channels and an additional layer of gypsum board are required within the Veterans affairs tenant space to provide a continuous and clean surface within the new tenant space.
3. **Sheet A-100**, remove sheet A-100 and replace with the attached sheet A-100
 - a. Clarifications include
 - i. P-5 partition type
 - ii. P-4 partition type with notes for adjacent interior spaces
 - iii. Door 102 double egress door is identified
 - iv. Flip door swing on 300B
4. **Sheet A-410**, remove sheet A410 and replace with the attached sheet A-410
5. **Sheet A-600**, remove sheet A-600 and replace with the attached sheet A-600

PRIOR APPROVALS

The following list of items are approved for MANUFACTURER and/or TRADE NAME ONLY for use in this Project. Approval of these items by their inclusion in the following SHALL NOT relieve the manufacturer, supplier, contractor, or subcontractor from compliance with quality, performance, shapes, or appearance desires as set forth in the original Plans and Specifications. The Architect may, upon receipt of the Shop Drawings, disapprove any items based on quality, performance, shape and/or appearance submitted.

<u>Section</u>	<u>Manufacturer</u>	<u>Product</u>
10 44 20 – Interior Room Signs	People Signs	1900 Series

- Enclosed: Pre-Bid Meeting Sign in sheet
Pre-Bid Meeting Agenda
Pre-Bid meeting minutes
Drawings:
Sheet D-100
Sheet A-100
Sheet A-410
Sheet A-600
Specification:
Section 08 71 00 – Door Hardware
Section 08 11 13 – Hollow Metal Doors and Frames

**PRE-BID MEETING MINUTES
10-21-24**

**Public Safety Complex H2 Building Renovation for Veteran's Affairs
8050 Airline Hwy. STE 120, Baton Rouge, LA. 70815
21-ASC-CP-1558**

1. Sign in sheet (ATTACHED)
2. Agenda, (attached)
3. Discussed the items on the pre-bid meeting agenda, this will be made available in a project addendum
4. Clarified Jeremy Lucas's email address is jeremy@fusionapc.com, please send all questions regarding drawings or Technical specifications to Mr. Lucas.
5. Discussed that fencing would be required in the material staging area as other projects are being bid on this site for concurrent construction timelines
6. Access to the building will be through the north entrance doors, all in the meeting were shown the entrance doors to be used.
7. Workers for this project will need to have their own restroom facilities, none will be available within the building
8. Smoking is not permitted on site
9. Baton Rouge Police Department maintains operations in the facility and may periodically require ID checks of workers
10. Discussed the Addendum Deadline, 10-29-24, all questions need to be submitted to the Architect so that responses may be made.
11. Tentatively there will be an addendum forthcoming, the air handler for the Veterans Affairs space will be replaced as part of the project.
12. Weekly meetings will be required during the construction Progress. A monthly meeting will also be required, the monthly will be more formal and will include the Owner, the User Agency, the Architect and the Contractor
13. The contractor is required to always have a superintendent on the project while work is being performed.

14. Discussed that no Asbestos is expected to be found in the building; however, if something is suspect then the G.C. is to notify the owner immediately for testing and to address the area of concern.
15. If access through other doors is required for large deliveries, a 1-week notice will be required to be give to the owner for coordination with other tenants I the building.
16. Discussed that the project is not a Davis Bacon prevailing wage project; however, Federal funding is involved in the project and that certified payroll will be required by the contractor for all employees and sub-contractors on site.
17. Project is not tax exempt
18. Subs will use a 2 page payroll sheet to document the general or sub must document hours on a certified payroll sheet and will continue until the end of the job. If sub de-mobilizes and remobilizes, then sheets will have to be submitted to note no work for the period in between the mobilizations. Certified payroll sheets will be available in one of the addenda.
19. BRPD and EBR Library will remove all furniture items from the space prior to construction. The general contractor will be responsible for all fixed items that need to be removed for the new construction to occur.
20. Question was raised about removing the existing terrazzo flooring, this will be addressed in Addendum No.1
21. An addendum will be issued to identify a date and time that contractors may return to the site for additional verification of scope.

ARCHITECTURAL SERVICES DIVISION
CITY OF BATON ROUGE-PARISH OF EAST BATON ROUGE
DEPARTMENT OF BUILDINGS AND GROUNDS

PRE-BID CONFERENCE AGENDA

Project Name**Public Safety Complex H2 Building Renovation for Veteran’s Affairs**
9050 Airline Highway, STE 120, Baton Rouge, LA 70815
Project Number**21-ASC-CP-1558**
Date**Monday, October 21, 2024**
Location**9050 Airline Highway, STE 120, Baton Rouge, LA 70815**
Time**12:00 PM**
Addendum Cutoff....**Tuesday, October 29, 2024**
Bid Date**Tuesday, November 5, 2024, 2:00PM**

1. Introductions:

- a. **Owner’s contact:** Kristina Bynum – Project Manager, Architectural Services Division
- b. **User Agency:** Registrar of Voters
- c. **Project Architect:** Jeremy Lucas, Fusion Architects
- d. **MEP Design:** Thompson, Luke & Associates

2. Communications:

- a. Information requests- Any RFIs concerning the drawings and/or technical specifications should be directed toward **Jeremy Lucas, Jeremy@fusionbcb.com** or (225) 293-6964.
- b. All Contractual or Front-end questions should be addressed to **Kristina Bynum, kbynum@brla.gov** or (225) 389-4694

3. Use of Premises:

- a. Project location, contractor workers entrances and access to site
- b. Use of facilities, utilities, etc.
- c. Contractor parking, staging, dumpster location
 - **Anticipate shared or adjacent staging sites due to other projects going on concurrently. Fencing will be required for each contractor to separate sites.**
- d. Conduct of workers
 - **no smoking, radios, identification**
- e. Interim life safety measures, security
- f. Working Hours:
 - **7:00AM to Sunset, Monday through Saturday**
 - **Will possibly be revised in Pre-Construction meeting**

4. Bidding Procedure:

- a. Budget: **The City-Parish does not disclose the construction budget amount. This will be read at the bid opening.**
- b. Base Bid and Alternates: **(0) Alternate**
- c. Unit prices and allowances: **Not Applicable**
- d. Contract time: **90 Calendar Days, \$605.00/Day Liquidated Damages**
- e. Construction scheduling and phasing.
- f. Special issues related to the project.
- g. Addenda issued: **0**
- h. Anticipated Addenda Items:
- j. **Part 1-A - Statutory and other forms and attachments must be completed and submitted to the Purchasing Division PRIOR to the opening of all bids.**
- k. **Bids shall be firm for a period of forty-five (45) days of the opening of bids.**

5. Project Meetings and Inspections:

- a. Pre-construction Conference
- b. Progress meetings – Weekly Meetings and Monthly Meetings.

6. Misc. Items:

- a. Project superintendent and project manager
- b. Asbestos, lead abatement, hazardous materials (report suspicious materials immediately)
- c. City Permitting & City and State Fire Marshal Inspections
 - **EBRP Fees paid directly by the Owner: City-Parish Permit Fees, Sewer Impact Fees, & Traffic Impact Fees**
- d. Coordination of special equipment, delivery dates

8. Any other business/Questions:

9. Review of site/project location:

Date: October 21, 2024






Project: Public Safety Complex H2 Building Renovations for Veteran's Affairs

Project No: 21-ASC-CP-1558

Bid Date: November 5, 2024

PRE-BID CONFERENCE SIGN-IN SHEET

PLEASE SIGN IN AND WRITE YOUR PHONE NUMBER AND FAX NUMBER

(Print) Name & Email	Phone Number	Fax Number	Company Name & License#	Signature
Name: <u>Leonard White</u> Email: <u>leonard@whitegrouppartners.com</u>	<u>(25) 301-2567</u>	<u>N/A</u>	<u>White Group Partners</u> <u>65362</u>	
Name: <u>Sammy Louis</u> Email: <u>capitalarea3@gmail.com</u>	<u>225-439-9625</u>	<u>N/A</u>	<u>Capital Area Const.</u> <u>60664</u>	
Name: <u>Rosent Thornton</u> Email: <u>NWilliams@LegacyR&A.com</u>	<u>504-421-7293</u>	<u>-</u>	<u>Legacy Restoration</u> <u>67727</u>	
Name: <u>Tom Carona</u> Email: <u>TomC@insul-tech.net</u>	<u>225-573-8526</u>		<u>Insul-Tech</u> <u>18938</u>	
Name: <u>Cassey Gooch</u> Email: <u>Cgooch@deumite.com</u>	<u>225-769-2948</u>	<u>N/A</u>	<u>Deumite Const.</u> <u>43152</u>	

Date: October 21, 2024

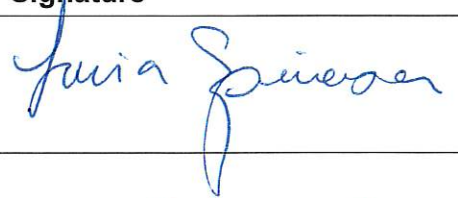


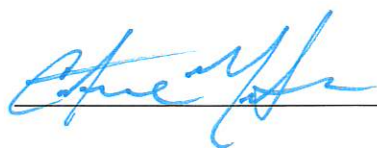

Project: Public Safety Complex H2 Building Renovations for Veteran's Affairs

Project No: 21-ASC-CP-1558

Bid Date: November 5, 2024

PRE-BID CONFERENCE SIGN-IN SHEET

PLEASE SIGN IN AND WRITE YOUR PHONE NUMBER AND FAX NUMBER

(Print) Name & Email	Phone Number	Fax Number	Company Name & License#	Signature
Name: <u>Lucia Spinosa</u> Email: <u>rcarter@charlescarter.net</u>	<u>115-357-9698</u>	<u>-</u>	<u>Charles Carter Construction</u> <u>33302</u>	
Name: <u>TRACE WILSON</u> Email: <u>TRACE @ TASK INDUSTRIES LLC.COM</u>	<u>225-341-9794</u>		<u>TASK INDUSTRIES, LLC</u> <u>62640</u>	
Name: <u>Scott Wilson</u> Email: <u>msscottwilson2003@yahoo.com</u>	<u>225 931 9264</u>		<u>MA Wilson Construction</u> <u>61901</u>	
Name: <u>CATHERINE MONTOUR</u> Email: <u>Catherine@Fusionapc.com</u>	<u>985-773-3545</u>	<u>-</u>	<u>Fusion Architects</u>	
Name: <u>BREANNA BOOKER</u> Email: <u>Breanna@fusionapc.com</u>			<u>FUSION ARCHITECTS</u>	

Date: October 21, 2024






Project: Public Safety Complex H2 Building Renovations for Veteran's Affairs

Project No: 21-ASC-CP-1558

Bid Date: November 5, 2024

PRE-BID CONFERENCE SIGN-IN SHEET

PLEASE SIGN IN AND WRITE YOUR PHONE NUMBER AND FAX NUMBER

(Print) Nam & Email	Phone Number	Fax Number	Company Name & License#	Signature
Name: <u>Stephen Weigand</u> Email: <u>sweigand@ashley-smith-construction.com</u>	<u>225-610-5432</u>		<u>Lic# 66433</u> <u>Ashley Smith construction</u>	
Name: <u>PATRICK DAUGHNEY</u> Email: <u>bids@sienna-construction.net</u>	<u>225-456-5466</u>		<u>#43263</u> <u>SIENNA CONSTRUCTION, LLC</u>	
Name: <u>Brice Bentel</u> Email: <u>brice@spartanbuildings.com</u>	<u>504-654-9451</u>		<u>Lic#4805</u> <u>Spartan Building Corporation</u>	
Name: <u>Sean Pharis</u> Email: <u>Pharis@cornerstoneflooring.net</u>	<u>225-910-3739</u>		<u>Cornerstone Flooring</u>	
Name: <u>Mark Parant</u> Email: <u>mark@next-levelfire.com</u>	<u>225-678-1462</u>		<u>F-2754</u> <u>Next Level Fire Protection</u>	

Date: October 21, 2024






Project: Public Safety Complex H2 Building Renovations for Veteran's Affairs

Project No: 21-ASC-CP-1558

Bid Date: November 5, 2024

PRE-BID CONFERENCE SIGN-IN SHEET

PLEASE SIGN IN AND WRITE YOUR PHONE NUMBER AND FAX NUMBER

(Print) Name & Email	Phone Number	Fax Number	Company Name & License#	Signature
Name: <u>John Wallace</u> Email: <u>John@tlaeng.com</u>	<u>225-293-9474</u>	<u>-</u>	<u>TLA</u>	
Name: <u>Lee Patterson</u> Email: <u>LEE@ENVDEMO.COM</u>	<u>985-634-6379</u>		<u>EDS</u> <u>79451</u>	
Name: <u>Terence Hill</u> Email: <u>terence@hillconstructionbc.com</u>	<u>225.315.2968</u>		<u>Hill Construction</u> <u>LLC</u> <u>43488</u>	
Name: <u>Jason Norris</u> Email: <u>Bids@jugend.com</u>	<u>225 767 3724</u>		<u>JW Grand LLC 9569</u>	
Name: <u>Rob Gray</u> Email: <u>rgray@brl.gov</u>	<u>(225) 389-4694</u>		<u>BIG/ASD</u>	

Date: October 21, 2024

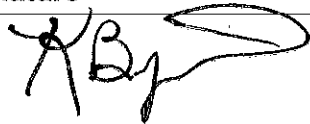
Project: Public Safety Complex H2 Building Renovations for Veteran's Affairs

Project No: 21-ASC-CP-1558

Bid Date: November 5, 2024

PRE-BID CONFERENCE SIGN-IN SHEET

PLEASE SIGN IN AND WRITE YOUR PHONE NUMBER AND FAX NUMBER

(Print) Name & Email	Phone Number	Fax Number	Company Name & License#	Signature
Name: <u>Kristina Kynum</u> Email: <u>kbynum@beta.gov</u>	<u>351-4621</u>	<u>-</u>	<u>ASD</u>	
Name: Email:				
Name: Email:				
Name: Email:				
Name: Email:				

SECTION 081113 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Standard and custom hollow metal doors and frames.
2. Steel sidelight, borrowed lite and transom frames.
3. Louvers installed in hollow metal doors.
4. Light frames and glazing installed in hollow metal doors.

B. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 04 Section "Unit Masonry" for embedding anchors for hollow metal work into masonry construction.
3. Division 08 Section "Flush Wood Doors".
4. Division 08 Section "Stile and Rail Wood Doors".
5. Division 08 Section "Glazing" for glass view panels in hollow metal doors.
6. Division 08 Section "Door Hardware".
7. Division 08 Section "Access Control Hardware".
8. Division 09 Sections "Exterior Painting" and "Interior Painting" for field painting hollow metal doors and frames.

C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI/SDI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
2. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frames Anchors and Hardware Reinforcing.
3. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
4. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
5. ANSI/SDI A250.11 - Recommended Erection Instructions for Steel Frames.

6. ASTM A1008 - Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
7. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
8. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
9. ASTM C 1363 - Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus.
10. ANSI/BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.
11. ANSI/SDI 122 - Installation and Troubleshooting Guide for Standard Steel Doors and Frames.
12. ANSI/NFPA 80 - Standard for Fire Doors and Fire Windows; National Fire Protection Association.
13. ANSI/NFPA 105: Standard for the Installation of Smoke Door Assemblies.
14. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association.
15. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
16. UL 1784 - Standard for Air Leakage Tests of Door Assemblies.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, hardware reinforcements, profiles, anchors, fire-resistance rating, and finishes.
- B. Maintenance manual must be provided for tornado/hurricane storm shelter impact protective systems.
- C. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.
- D. Shop Drawings: Include the following:
 1. Elevations of each door design.
 2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
 3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
 4. Locations of reinforcement and preparations for hardware.
 5. Details of anchorages, joints, field splices, and connections.
 6. Details of accessories.
 7. Details of moldings, removable stops, and glazing.
 8. Details of conduit and preparations for power, signal, and control systems.
- E. Samples for Verification:
 1. Samples are only required by request of the architect and for manufacturers that are not current members of the Steel Door Institute.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.
- B. Quality Standard: In addition to requirements specified, furnish SDI-Certified manufacturer products that comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".
- C. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL10C (neutral pressure at 40" above sill) or UL 10C.
 - 1. Oversize Fire-Rated Door Assemblies Construction: For units exceeding sizes of tested assemblies, attach construction label certifying doors are built to standard construction requirements for tested and labeled fire rated door assemblies except for size.
 - 2. Temperature-Rise Limit: Where indicated and at vertical exit enclosures (stairwell openings) and exit passageways, provide doors that have a maximum transmitted temperature end point of not more than 450 deg F (250 deg C) above ambient after 30 minutes of standard fire-test exposure.
 - 3. Smoke Control Door Assemblies: Comply with NFPA 105.
 - a. Smoke "S" Label: Doors to bear "S" label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.
- D. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257. Provide labeled glazing material.
- E. Storm Shelter Openings: Provide complete door systems for hurricane or tornado storm shelters, and other areas of refuge, complying and tested according to ICC 500 (2014/2020), ICC/NSSA Standard for the Design and Construction of Storm Shelters.
 - 1. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- F. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing hollow metal doors and frames and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.

- B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.
- C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.
 - 1. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.

1.6 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.7 COORDINATION

- A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.
- B. Building Information Modeling (BIM) Support: Utilize designated BIM software tools and obtain training needed to successfully participate in the Project BIM processes. All technical disciplines are responsible for the product data integration and data reliability of their Work into the coordinated BIM applications.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.
- B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide steel doors and frames from a SDI Certified manufacturer:
 - 1. CECO Door Products (C).
 - 2. Curries Company (CU).
 - 3. Steelcraft (S).

2.2 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.
- B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.
- C. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

2.3 HOLLOW METAL DOORS

- A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMA 867.
- B. Exterior Doors: Face sheets fabricated of commercial quality hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:
 - 1. Design: Flush panel.
 - 2. Core Construction: Manufacturer's standard polystyrene. Where indicated, provide doors fabricated as thermal-rated assemblies with a minimum R-value of 2.8 or better.
 - 3. Level/Model: Level 3 and Physical Performance Level A (Extra Heavy Duty), Minimum 16 gauge (0.053-inch - 1.3-mm) thick steel, Model 2.
 - 4. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel to include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers are not acceptable.
 - 5. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
 - 6. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.
- C. Interior Doors: Face sheets fabricated of commercial quality cold rolled steel that complies with ASTM A 1008/A 1008M. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:
 - 1. Design: Flush panel.
 - 2. Core Construction: Manufacturer's standard kraft-paper honeycomb, or one-piece polystyrene core, securely bonded to both faces.
 - a. Fire Door Core: As required to provide fire-protection and temperature-rise ratings indicated.

3. Level/Model: Level 3 and Physical Performance Level A (Extra Heavy Duty), Minimum 16 gauge (0.053-inch - 1.3-mm) thick steel, Model 2.
4. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet.
5. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
6. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

D. Manufacturers Basis of Design:

1. CECO Door Products (C) Polystyrene Core - Legion Series.

2.4 HOLLOW METAL FRAMES

A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.

B. Exterior Frames: Fabricated of hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60.

1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
2. Frames: Minimum 16 gauge (0.053-inch -1.3-mm) thick steel sheet.
3. Manufacturers Basis of Design:

- a. CECO Door Products (C) - SU SR Series.
- b. CECO Door Products (C) - Mercury 3 Thermal Break TQB Series.

C. Interior Frames: Fabricated from cold-rolled steel sheet that complies with ASTM A 1008/A 1008M.

1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
2. Frames: Minimum 16 gauge (0.053-inch -1.3-mm) thick steel sheet.
3. Manufacturers Basis of Design:

- a. CECO Door Products (C) - DU Series.
- b. CECO Door Products (C) - SU Series.

D. Fire rated frames: Fabricate frames in accordance with NFPA 80, listed and labeled by a qualified testing agency, for fire-protection ratings indicated.

E. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 Table 4 with reinforcement plates from same material as frames.

2.5 FRAME ANCHORS

A. Jamb Anchors:

1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed from A60 metallic coated material, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
 2. Stud Wall Type: Designed to engage stud and not less than 0.042 inch thick.
 3. Compression Type for Drywall Slip-on (Knock-Down) Frames: Adjustable compression anchors.
- B. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic coated material, not less than 0.042 inches thick.
- C. Mortar Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.6 LOUVERS

- A. Metal Louvers: Unless otherwise indicated provide louvers to meet the following requirements.
1. Blade Type: Vision proof inverted V or inverted Y.
 2. Metal and Finish: Galvanized steel, 0.040 inch thick, factory primed for paint finish with baked enamel or powder coated finish. Match pre-finished door paint color where applicable.
- B. Louvers for Fire Rated Doors: Metal louvers with fusible link and closing device, listed and labeled for use in doors with fire protection rating of 1-1/2 hours and less.
1. Manufacturers: Subject to compliance with requirements, provide louvers to meet rating indicated.
 2. Metal and Finish: Galvanized steel, 0.040 inch thick, factory primed for paint finish with baked enamel or powder coated finish. Match pre-finished door paint color where applicable.

2.7 LIGHT OPENINGS AND GLAZING

- A. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints at fabricator's shop. Fixed and removable stops to allow multiple glazed lites each to be removed independently. Coordinate frame rabbet widths between fixed and removable stops with the type of glazing and installation indicated.
- B. Moldings for Glazed Lites in Doors and Loose Stops for Glazed Lites in Frames: Minimum 20 gauge thick, fabricated from same material as door face sheet in which they are installed.
- C. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch (16 mm) high unless otherwise indicated. Provide fixed frame moldings and stops on outside of exterior and on secure side of interior doors and frames.

- D. Preformed Metal Frames for Light Openings: Manufacturer's standard frame formed of 0.048-inch-thick, cold rolled steel sheet; with baked enamel or powder coated finish; and approved for use in doors of fire protection rating indicated. Match pre-finished door paint color where applicable.

2.8 ACCESSORIES

- A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.
- B. Grout Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.9 FABRICATION

- A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.
- B. Tolerances: Fabricate hollow metal work to tolerances indicated in ANSI/SDI A250.8.
- C. Hollow Metal Doors:
 - 1. Exterior Doors: Provide optional weep-hole openings in bottom of exterior doors to permit moisture to escape where specified.
 - 2. Glazed Lites: Factory cut openings in doors with applied trim or kits to fit. Factory install glazing where indicated.
 - 3. Astragals: Provide overlapping astragals as noted in door hardware sets in Division 08 Section "Door Hardware" on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted.
 - 4. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge strap for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".
- D. Hollow Metal Frames:
 - 1. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
 - 2. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.
 - a. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.

3. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
 4. High Frequency Hinge Reinforcement: Provide high frequency hinge reinforcements at door openings 48-inches and wider with mortise butt type hinges at top hinge locations.
 5. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge straps for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".
 6. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
 7. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
 8. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
 9. Jamb Anchors: Provide number and spacing of anchors as follows:
 - a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches on-center and as follows:
 - 1) Two anchors per jamb up to 60 inches high.
 - 2) Three anchors per jamb from 60 to 90 inches high.
 - 3) Four anchors per jamb from 90 to 120 inches high.
 - 4) Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.
 - b. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
 - 1) Three anchors per jamb up to 60 inches high.
 - 2) Four anchors per jamb from 60 to 90 inches high.
 - 3) Five anchors per jamb from 90 to 96 inches high.
 - 4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.
 - 5) Two anchors per head for frames above 42 inches wide and mounted in metal stud partitions.
 10. Door Silencers: Except on weatherstripped or gasketed doors, drill stops to receive door silencers. Silencers to be supplied by frame manufacturer regardless if specified in Division 08 Section "Door Hardware".
 11. Bituminous Coating: Where frames are fully grouted with an approved Portland Cement based grout or mortar, coat inside of frame throat with a water based bituminous or asphaltic emulsion coating to a minimum thickness of 3 mils DFT, tested in accordance with UL 10C and applied to the frame under a 3rd party independent follow-up service procedure.
- E. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."

1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
2. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
4. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.

2.10 STEEL FINISHES

- A. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.
 1. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (strike height, hinge spacing, hinge back set, etc.).
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.
- B. Prior to installation, adjust and securely brace welded hollow metal frames for square, level, twist, and plumb condition.
- C. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames."
- D. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.

- E. Verify tolerances against manufacturers installations instructions for tornado and hurricane storm shelter openings.

3.3 INSTALLATION

- A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
- B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.
 - 1. Set frames accurately in position, plumbed, leveled, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
 - 2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
 - 3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.
 - 4. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.
- C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.
 - 1. Non-Fire-Rated Standard Steel Doors:
 - a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
 - b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
 - c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
 - d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.
 - 2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.
- D. Field Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with hollow metal manufacturer's written instructions.

3.4 ADJUSTING AND CLEANING

- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.
- B. Remove grout and other bonding material from hollow metal work immediately after installation.

- C. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

3.5 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

END OF SECTION 081113

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes commercial door hardware for the following:
1. Swinging doors.
 2. Sliding doors.
 3. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
1. Mechanical door hardware.
 2. Electromechanical door hardware.
 3. Cylinders specified for doors in other sections.
- C. Related Sections:
1. Division 08 Section "Hollow Metal Doors and Frames".
 2. Division 08 Section "Flush Wood Doors".
 3. Division 08 Section "Stile and Rail Wood Doors".
 4. Division 08 Section "Sound Control Hollow Metal Door Assemblies".
 5. Division 08 Section "Sound Control Wood Door Assemblies".
 6. Division 08 Section "Aluminum-Framed Entrances and Storefronts".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 2. ICC/IBC - International Building Code.
 3. NFPA 70 - National Electrical Code.
 4. NFPA 80 - Fire Doors and Windows.
 5. NFPA 101 - Life Safety Code.
 6. NFPA 105 - Installation of Smoke Door Assemblies.
 7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item.
 - c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials.
 - h. Warranty information for each product.
4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
 - a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
 - b. Complete (risers, point-to-point) access control system block wiring diagrams.
 - c. Wiring instructions for each electronic component scheduled herein.
 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.
- D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.
- E. Informational Submittals:
1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

- A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.
- B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

- A. Hardware Supplier and Hardware Installer must obtain a license with the Louisiana Office of State Fire Marshall in accordance to RS 40:1464 and RS 40:1664.
- B. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

- C. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).
- D. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- E. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity.
- F. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
 - 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
 - 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.
- G. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.
- H. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
 - 1. Function of building, purpose of each area and degree of security required.
 - 2. Plans for existing and future key system expansion.
 - 3. Requirements for key control storage and software.
 - 4. Installation of permanent keys, cylinder cores and software.
 - 5. Address and requirements for delivery of keys.
- I. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.
 - 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.

2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

- J. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.
- B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.
- C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

- A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.
- B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
 2. Faulty operation of the hardware.
 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 4. Electrical component defects and failures within the systems operation.
- C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 BUTT HINGES

- A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
1. Quantity: Provide the following hinge quantity:
 - a. Two Hinges: For doors with heights up to 60 inches.
 - b. Three Hinges: For doors with heights 61 to 90 inches.
 - c. Four Hinges: For doors with heights 91 to 120 inches.
 - d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
 - a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
 - b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.
 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
 - a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
 - b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.
 4. Hinge Options: Comply with the following:
 - a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.
 5. Manufacturers:
 - a. Hager Companies (HA) - BB Series, 5-knuckle.
 - b. Ives (IV) - 5BB Series, 5-knuckle.

- c. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.2 CONTINUOUS HINGES

- A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.
 1. Manufacturers:
 - a. Hager Companies (HA).
 - b. Ives (IV).
 - c. Pemko (PE).

2.3 POWER TRANSFER DEVICES

- A. Electrified Quick Connect Continuous Geared Transfer Hinges: Provide electrified transfer continuous geared hinges with a removable service panel cutout accessible without de-mounting door from the frame. Furnish with Molex™ standardized plug connectors with sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.
 1. Manufacturers:
 - a. Ives (IV) - Connect.
 - b. Pemko (PE) - SER-QC (# wires) Option.
- B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.
 1. Provide one each of the following tools as part of the base bid contract:
 - a. McKinney (MK) - Electrical Connecting Kit: QC-R001.
 - b. McKinney (MK) - Connector Hand Tool: QC-R003.
 2. Manufacturers:
 - a. McKinney (MK) - QC-C Series.

- b. Schlage (SC) - Connect.
- c. Von Duprin (VD) - Connect.

2.4 DOOR OPERATING TRIM

- A. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.
 - 1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
 - 2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
 - 3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
 - 4. Pulls, where applicable, shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
 - 5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
 - 6. Manufacturers:
 - a. Rockwood (RO).
 - b. Trimco (TC).

2.5 CYLINDERS AND KEYING

- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.
 - 1. Manufacturers:
 - a. Match Existing, Field Verify.
- B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:
 - 1. Threaded mortise cylinders with rings and cams to suit hardware application.
 - 2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
 - 3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
 - 4. Tubular deadlocks and other auxiliary locks.
 - 5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
 - 6. Keyway: Match Facility Standard.

- C. Keying System: Each type of lock and cylinders to be factory keyed.
 - 1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
 - 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
 - 3. Existing System: Field verify and key cylinders to match Owner's existing system.

- D. Key Quantity: Provide the following minimum number of keys:
 - 1. Change Keys per Cylinder: Two (2)
 - 2. Master Keys (per Master Key Level/Group): Five (5).

- E. Key Registration List (Bitting List):
 - 1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
 - 2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 KEY CONTROL

- A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.
 - 1. Manufacturers:
 - a. Lund Equipment (LU).
 - b. MMF Industries (MM).
 - c. Telkee (TK).

2.7 MORTISE LOCKS AND LATCHING DEVICES

- A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.
 - 1. Manufacturers:
 - a. Corbin Russwin Hardware (RU) - ML2000 Series.
 - b. Sargent Manufacturing (SA) - 8200 Series.
 - c. Schlage (SC) - L9000 Series.

2.8 LOCK AND LATCH STRIKES

- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:
1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.
- B. Standards: Comply with the following:
1. Strikes for Mortise Locks and Latches: BHMA A156.13.
 2. Strikes for Bored Locks and Latches: BHMA A156.2.
 3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
 4. Dustproof Strikes: BHMA A156.16.

2.9 ELECTROMAGNETIC LOCKING DEVICES

- A. Surface Electromagnetic Locks (Heavy Duty): Electromagnetic locks to be surface mounted type conforming to ANSI A156.23, Grade 2 with minimum holding force strength of 1,200 pounds. Locks to be capable of accepting between 12 to 24 volts direct current and be UL listed for use on fire rated door assemblies. Electromagnetic coils are to consume no more than 1.5W during normal operation. Locks are to have an integrated door position switch, tamper switch, and lock bond sensor. Locks are to have integrated motion sensor and/or security camera as indicated in the hardware sets. Locks to be capable of detecting door prop conditions and entering low power mode. Provide mounting accessories as needed to suit opening conditions. Power supply to be by the same manufacturer as the lock with combined products having a lifetime replacement warranty.
1. Manufacturers:
 - a. Securitron (SU) - M680E Series.

2.10 CONVENTIONAL EXIT DEVICES

- A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:
1. Exit devices shall have a five-year warranty.
 2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as

- required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
 4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
 5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
 6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
 - a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
 - b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
 7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
 8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
 9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
 10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
 11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.
 12. Hurricane and Storm Shelter Compliance: Devices to be U.L. listed for windstorm assemblies where applicable. Provide the appropriate hurricane or storm shelter products that have been independently third party tested, certified, and labeled to meet state and local windstorm building codes applicable to project.
- B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.
1. Electromechanical exit devices shall have the following functions and features:
 - a. Universal Molex plug-in connectors that have standardized color-coded wiring and are field configurable in fail safe or fail secure and operate from 12vdc to 24vdc regulated.
 - b. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.
 - c. Options to be available for request-to-exit or enter signaling, latchbolt and touchbar monitoring.

- d. Field configurable electrified trim to fail-safe or fail-secure that operates from 12-24VDC.
 - e. Five-year limited warranty for electromechanical features.
2. Manufacturers:
- a. Corbin Russwin Hardware (RU) - ED4000 / ED5000 Series.
 - b. Sargent Manufacturing (SA) - 80 Series.
 - c. Von Duprin (VD) - 35A/98 XP Series.

2.11 SURFACE DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard..

1. Manufacturers:
- a. Corbin Russwin Hardware (RU) - DC6000 Series.
 - b. LCN Closers (LC) - 4040 Series.
 - c. Sargent Manufacturing (SA) - 351 Series.

2.12 SURFACE MOUNTED CLOSER HOLDERS

- A. Electromagnetic Door Holders: ANSI A156.15 electromagnetic door holder/releases with a minimum 20 to 40 pounds holding power and single coil construction able to accommodate 12VDC, 24VAC, 24VDC and 120VAC. Coils to be independently wound, employing an integral fuse and armatures to include a positive release button.
1. Manufacturers:
 - a. LCN Door Closers (LC) - SEM7800 Series.
 - b. Norton Rixson (RF) - 980/990 Series.
 - c. Sargent Manufacturing (SA) - 1560 Series.

2.13 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:
 - a. Stainless Steel: 300 grade, 050-inch thick.
5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
 - a. Rockwood (RO).
 - b. Trimco (TC).

2.14 DOOR STOPS AND HOLDERS

- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.
- B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor

or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:
 - a. Rockwood (RO).
 - b. Trimco (TC).

2.15 ARCHITECTURAL SEALS

- A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.
- C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.
 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Manufacturers:
 1. Pemko (PE).
 2. Reese Enterprises, Inc. (RE).

2.16 ELECTRONIC ACCESSORIES

- A. Key Switches: Key switches furnished standard with stainless steel single gang face plate with a 12/24VDC bi-color LED indicator. Integral backing bracket permits integration with any 1 1/4"

or 1 1/2" mortise type cylinder. Key switches available as momentary or maintained action and in narrow face plate options.

1. Manufacturers:

- a. Alarm Controls (AK) - MCK Series.
- b. Security Door Controls (SD) - 800 Series.
- c. Securitron (SU) - MK Series.

B. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.

1. Manufacturers:

- a. Security Door Controls (SD) - DPS Series.
- b. Securitron (SU) - DPS Series.

C. Switching Power Supplies: Provide power supplies with either single or dual voltage configurations at 12 or 24VDC. Power supplies shall have battery backup function with an integrated battery charging circuit and shall provide capability for power distribution, direct lock control and Fire Alarm Interface (FAI) through add on modules. Power supplies shall be expandable up to 16 individually protected outputs. Output modules shall provide individually protected, continuous outputs and/or individually protected, relay controlled outputs.

1. Manufacturers:

- a. Securitron (SU) - AQD Series.
- b. Altronix (AS) - Maximal 3.

2.17 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.18 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

- A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
 - 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
- B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
 - 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
 - 4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

- C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
- E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

- A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.
 - 1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.6 CLEANING AND PROTECTION

- A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation.

- C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

- A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.
3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.
4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

- B. Manufacturer's Abbreviations:

1. MK - McKinney
2. PE - Pemko
3. SA - SARGENT
4. SU - Securitron
5. RO - Rockwood
6. RF - Rixson
7. OT - Other

****All existing conditions must be field verified and hardware modified as required prior to purchase.**

Set: 1.0

Doors: **NOT USED**

Description: Exterior Alum Egress Sgl - Rim/NL - ELR - Card Access - Door Pulls - Closer - RX/DPS

1 Continuous Hinge	CFM__SLF-HD1 SER		PE
1 Rim Exit Device, Storeroom	LC 55 56 AD8504 862	US32D	SA
1 Cylinder	Match Existing	US32D	SA
1 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1 Institutional Door Stop	462 EXP	US2C	RO
1 Weatherstripping	By frame manufacturer		00
1 Sweep	315CN		PE
1 Threshold	2005AT		PE
1 ElectroLynx Harness	QC-C1500P		MK
1 ElectroLynx Harness	QC-CxxxP		MK
1 Position Switch	DPS-GY		SU
1 Power Supply	AQDx size as req		SU
1 Card Reader	By Security Contractor.		OT

Notes: Hardware specified for design intent. **At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times.

Set: 2.0

Doors: 300A

Description: Exterior Pair - Rim/NL x DT - Rem Mull - Closer/stop - DPS

2 Continuous Hinge	CFM__HD1		PE
1 Removable Mullion	L980S	PC	SA
1 Rim Exit Device, Storeroom	LC 8804 862	US32D	SA
1 Rim Exit Device, Dummy	8810 862	US32D	SA
1 Cylinder	Match Existing	US32D	SA
1 Mullion Cylinder	Match Existing	US26D	SA
2 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
2 Kick Plate	K1050 10" BEV CSK	US32D	RO
1 Astragal Set	18041CNB		PE
1 Rain Guard	346C x Frame Width		PE
1 Gasketing	2891APK		PE
2 Sweep w/ Drip (Brush)	345ANB		PE
1 Threshold	2005AT		PE
2 Position Switch	DPS-BK		SU

Notes: **At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

Door position switches monitor the opening for door prop or force open.

Set: 3.0

Doors: 300C, 300D

Description: Exterior Sgl - Rim/NL - Closer/stop - DPS

1 Continuous Hinge	CFM_HD1		PE
1 Rim Exit Device, Storeroom	LC 8804 862	US32D	SA
1 Cylinder	Match Existing	US32D	SA
1 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1 Kick Plate	K1050 10" BEV CSK	US32D	RO
1 Rain Guard	346C x Frame Width		PE
1 Gasketing	2891APK		PE
1 Sweep w/ Drip (Brush)	345ANB		PE
1 Threshold	2005AT		PE
1 Position Switch	DPS-BK		SU

Notes: **At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

Door position switches monitor the opening for door prop or force open.

Set: 4.0

Doors: 103

Description: Exterior Egress Sgl - Rim/NL - ELR - Card Access - Door Pulls - Closer - RX/DPS

1 Continuous Hinge	CFM_HD1 SER		PE
1 Rim Exit Device, Storeroom	LC 55 56 8804 862	US32D	SA
1 Cylinder	Match Existing	US32D	SA
1 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1 Institutional Door Stop	462 EXP	US2C	RO
1 Weatherstripping	By frame manufacturer		00
1 Gasketing	2891APK		PE
1 Sweep	315CN		PE
1 Threshold	2005AT		PE
1 ElectroLynx Harness	QC-C1500P		MK
1 ElectroLynx Harness	QC-CxxxP		MK
1 Position Switch	DPS-BK		SU
1 Power Supply	AQDx size as req		SU
1 Card Reader	By Security Contractor.		OT

Notes: **At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss

of power, doors will remain secure. Free egress at all times.

Set: 5.0

Doors: 102

Description: Dbl Egress - Exit Device-EO/EO - Closer w/HD-PA - (1) Mag Lock - Access Control - EMHO

2 Continuous Hinge	CFM_HD1 SER		PE
1 Magnetic Lock	M680EBDX	630	SU
2 Surface Vert Rod Exit	55 NB8710	US32D	SA
1 Cylinder	Match Existing	US32D	SA
2 Closer	351 P10	EN	SA
2 Kick Plate	K1050 12" 4BE CSK	US32D	RO
2 Electromagnetic Holder	99x voltage as req	689	RF
2 Frame Wire Harness	QC-C1500P		MK
2 Door Wire Harness	QC-C*** (length / type as required)		MK
1 Power Supply	By Security Contractor		OT
2 Position Switch	DPS-M/W-BK (as req'd per app)		SU
1 Keyswitch	MKA		SU
1 Card Reader	By Security Contractor.		OT

Notes: Operation. Doors are normally held open.

When doors are closed, non-Secure egress door normally closed and locked by electromagnetic lock. Authorized egress by valid card at the reader bypasses the electromagnetic lock for egress. Free egress from the secure side by depressing the exit device rail. Must be tied to an approved fire alarm system. Activation of the fire alarm or signal from fire command releases the magnetic hold opens and shunts power to the electromagnetic lock for immediate egress. Door status monitored. Key switch to shunt magnetic lock as needed.

Set: 6.0

Doors: NOT USED

Description: Secured Vestibule Egress Pair - SVR - MELR / RX - Closer - RX/DPS - EMHO

2 Continuous Hinge	CFM_HD1 SER		PE
1 Surface Vert Rod Exit	LC 55 56 NB8706 ETL	US32D	SA
1 Surface Vert Rod Exit	55 NB8710 ETL	US32D	SA
1 Cylinder	Match Existing	US32D	SA
2 Surface Closer	TB 351 UO	EN	SA
2 Electromagnetic Holder	99x voltage as req	689	RF
1 Astragal Set	18041CNB		PE
1 Gasketing	S88D (Head and Jambs)		PE
2 ElectroLynx Harness	QC-C1500P		MK
2 ElectroLynx Harness	QC-CxxxP		MK
1 Card Reader	By Security Contractor		OT
2 Position Switch	DPS-BK		SU
1 Card Reader	By Security Contractor.		OT

Notes: Doors are normally held open with magnets. When closed, presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times. Push button at reception - wiring is by others.

Doors are magnetically held open and must be tied in to fire control. Upon loss of power or signal from fire control doors will close and latch. Power and wiring is by others.

Set: 7.0

Doors: 312

Description: Int Alum Sgl - Push/Pull

1 Continuous Hinge	CFM_SLF-HD1		PE
1 Push Bar & Pull	BF15747	US32D	RO
1 Surface Closer	TB 351 UO	EN	SA
1 Drop Plate	351D as required	EN	SA
1 Door Stop	406 / 441H (as req'd per app)	US32D	RO
1 Gasketing	By Door Manufacturer		OT

Notes: Confirm all hardware compatibility with aluminum storefront manufacturer.

Set: 8.0

Doors: 306, 310

Description: Interior Storage Sgl - Storeroom - Closer - W/F Stop

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Storeroom/Closet Lock	LC 8204 LNL	US26D	SA
1 Cylinder	Match Existing	US32D	SA
1 Surface Closer	TB 351 UO	EN	SA
1 Kick Plate	K1050 10" BEV CSK	US32D	RO
1 Floor Stop or Wall Stop	441CU or 406 as Required	US26D	RO
3 Silencer	608 / 609		RO

Notes: Door C116 will require an Overhead stop

Set: 9.0

Doors: 309, 311

Description: Interior Storage Sgl - Storeroom - Closer - W/F Stop - Gasket

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Storeroom/Closet Lock	LC 8204 LNL	US26D	SA
1 Cylinder	Match Existing	US32D	SA
1 Surface Closer	TB 351 UO	EN	SA
1 Kick Plate	K1050 10" BEV CSK	US32D	RO
1 Floor Stop or Wall Stop	441CU or 406 as Required	US26D	RO
1 Gasketing	S88D (Head and Jambs)		PE

Set: 10.0

Doors: 303, 304, 305, 313

Description: Interior Office Sgl - Office - W/F Stop

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Office/Entry Lock	LC 8205 LNL	US26D	SA
1 Cylinder	Match Existing	US32D	SA
1 Floor Stop or Wall Stop	441CU or 406 as Required	US26D	RO
3 Silencer	608 / 609		RO

Set: 11.0

Doors: 300B, 308

Description: Interior Sgl - Classroom Lock - Closer - W/F Stop

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Classroom Lock	LC 8237 LNL	US26D	SA
1 Cylinder	Match Existing	US32D	SA
1 Surface Closer	TB 351 UO	EN	SA
1 Kick Plate	K1050 10" BEV CSK	US32D	RO
1 Floor Stop or Wall Stop	441CU or 406 as Required	US26D	RO
1 Gasketing	S88D (Head and Jambs)		PE

Set: 12.0

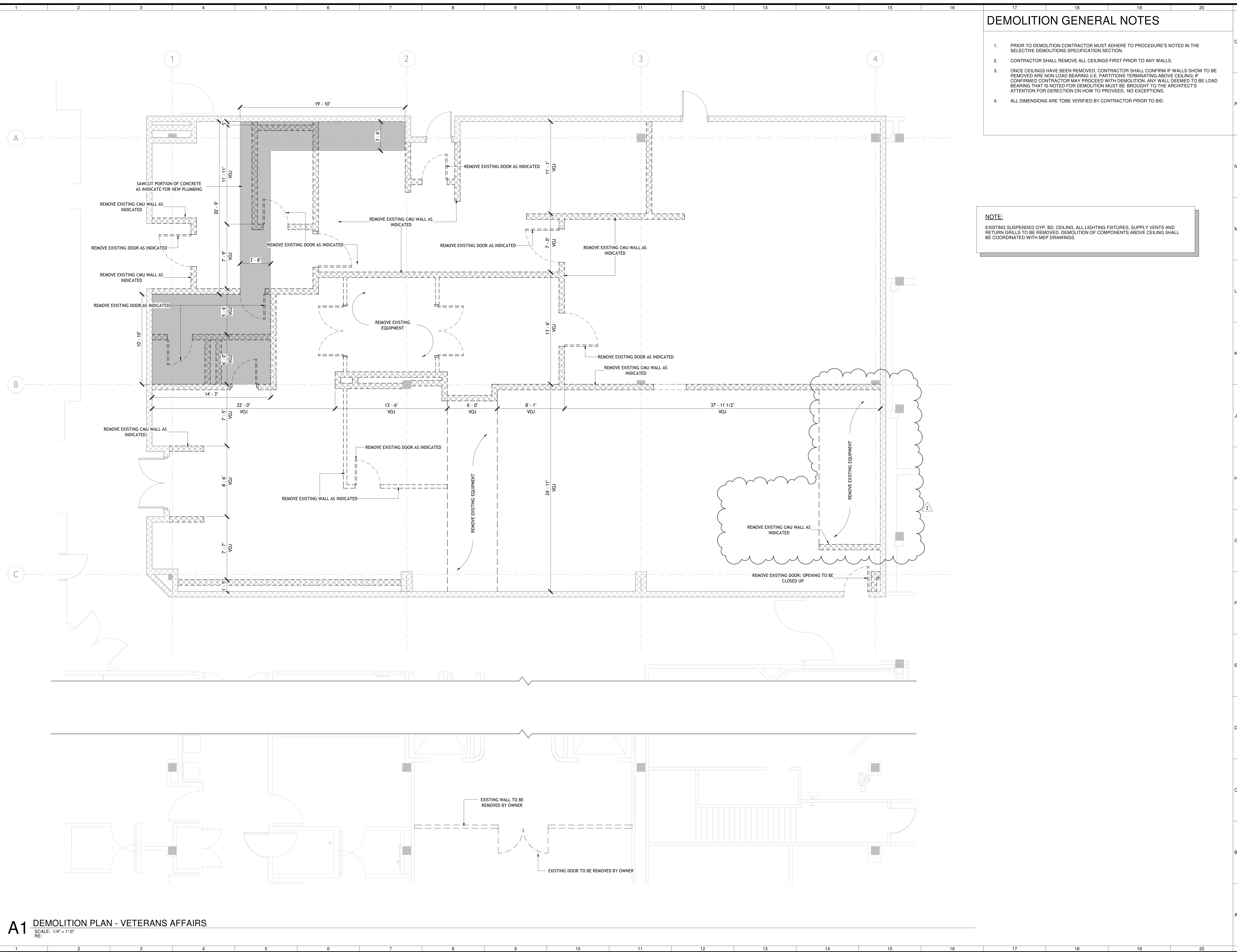
Doors: 307

Description: Interior Toilet - Privacy - Closer - W/F stop

3 Hinge, Full Mortise	TA2714	US26D	MK
1 Privacy Lock	V20 8265 VN1L	US26D	SA
1 Surface Closer	TB 351 UO	EN	SA
1 Kick Plate	K1050 10" BEV CSK	US32D	RO
1 Mop Plate	K1050 4" BEV CSK	US32D	RO
1 Floor Stop or Wall Stop	441CU or 406 as Required	US26D	RO
1 Gasketing	S88D (Head and Jambs)		PE

END OF SECTION 087100

10/30/2024 8:24:03 AM
D:\00 - REVIT LOCAL FILES\29-001-Veterans Affairs-Central R24 - Jeremy@beba.com.rvt



DEMOLITION GENERAL NOTES

1. PRIOR TO DEMOLITION CONTRACTOR MUST ADHERE TO PROCEDURE'S NOTED IN THE SELECTIVE DEMOLITIONS SPECIFICATION SECTION.
2. CONTRACTOR SHALL REMOVE ALL CEILINGS FIRST PRIOR TO ANY WALLS.
3. ONCE CEILINGS HAVE BEEN REMOVED, CONTRACTOR SHALL CONFIRM IF WALLS SHOW TO BE REMOVED ARE NON LOAD BEARING (I.E. PARTITIONS TERMINATING ABOVE CEILING) IF CONFIRMED CONTRACTOR MAY PROCEED WITH DEMOLITION. ANY WALL DEEMED TO BE LOAD BEARING THAT IS NOTED FOR DEMOLITION MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION FOR DIRECTION ON HOW TO PROCEED. NO EXCEPTIONS.
4. ALL DIMENSIONS ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO BID.

NOTE:
EXISTING SUSPENDED GYP. BD. CEILING, ALL LIGHTING FIXTURES, SUPPLY VENTS AND RETURN GRILLS TO BE REMOVED. DEMOLITION OF COMPONENTS ABOVE CEILING SHALL BE COORDINATED WITH MEP DRAWINGS.

REV.	DESCRIPTION	DATE
2	ADD NO 2	10-30-24

This drawing is the property of FUSION ARCHITECTS and is not to be reproduced or copied in whole or in part unless authorization given by FUSION ARCHITECTS. It is only to be used for the project and site specifically identified herein.
Scales as stated herein are valid on the original drawing only.
These plans were prepared in this office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

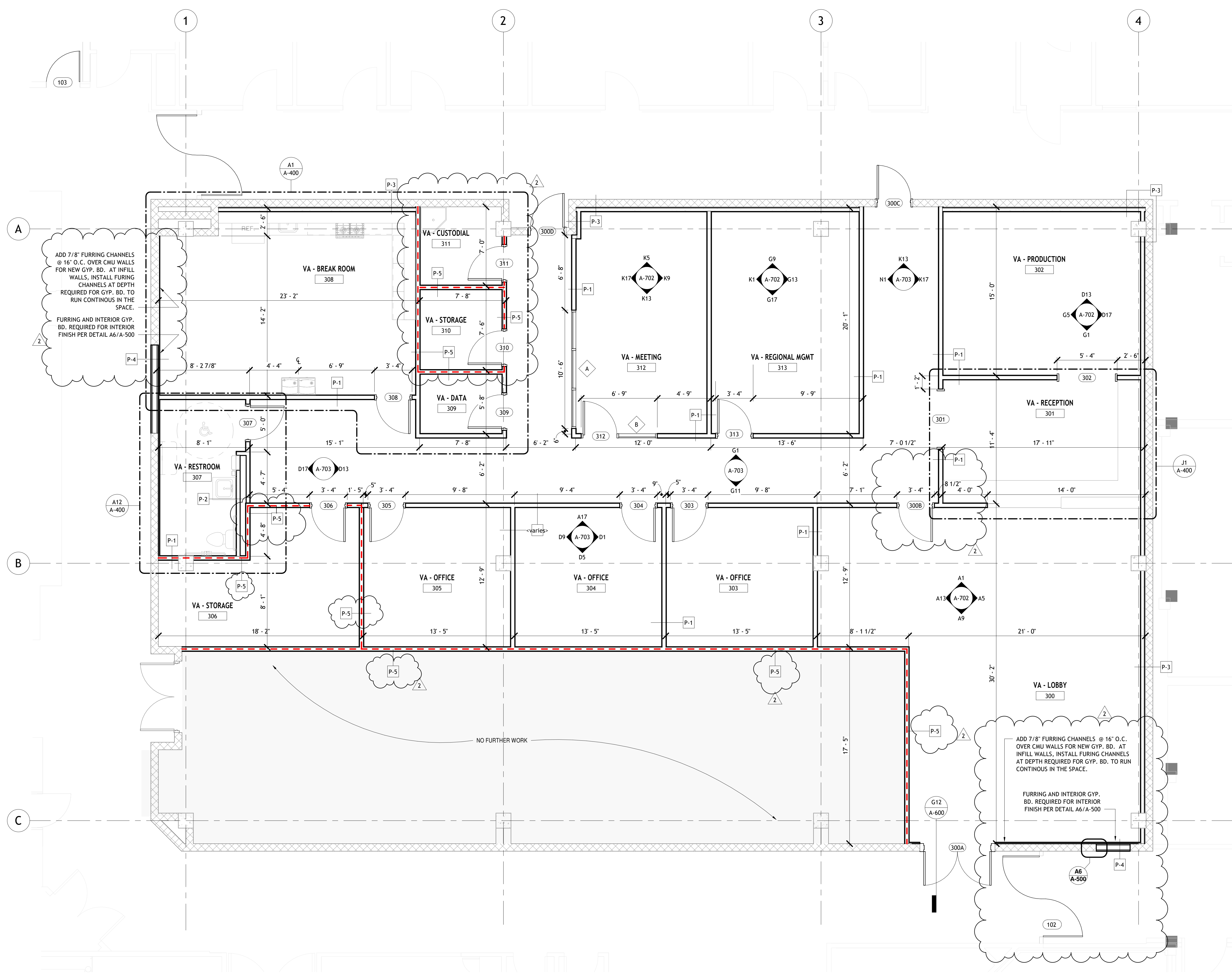
FUSION ARCHITECTS
3488 BRENTWOOD DRIVE
BATON ROUGE, LA 70806
P. 225.766.4848 F. 225.766.4724
fusionapp.com

CITY OF BATON ROUGE
PUBLIC SAFETY COMPLEX
H2 BUILDING RENOVATION FOR VETERANS AFFAIRS
9050 AIRLINE HIGHWAY, SUITE 120
BATON ROUGE, LOUISIANA 70815

PROJECT NO:	29-001-24
PHASE:	CONSTRUCTION DOCUMENTS
DATE:	10.04.2024
PROJECT ARCHITECT:	JL
DRAWN BY:	BB

A1 DEMOLITION PLAN - VETERANS AFFAIRS
SCALE: 1/4" = 1'-0"
RE:

10/30/2024 8:59:36 AM
D:\V0 - REVIT LOCAL FILES\29-001-Veterans Affairs-Central R24 - larry@tecbain.com.cad



A1 FLOOR PLAN - VETERANS AFFAIRS
SCALE: 1/4" = 1'-0"
RE:

DATE	10-30-24
DESCRIPTION	
REV	2 ADD NO 2

BRAD GUERRA
REG. NO. 6823
STATE OF LOUISIANA
REGISTERED ARCHITECT

This drawing is the property of FUSION ARCHITECTS and is not to be reproduced or copied in whole or in part unless authorization given by FUSION ARCHITECTS. It is only to be used for the project and site specifically identified herein.

Scales as stated herein are valid on the original drawing only.

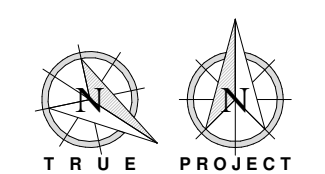
These plans were prepared in the office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

FUSION
ARCHITECTS
3488 BRENTWOOD DRIVE
BATON ROUGE, LA 70806
P. 225.766.4848 F. 225.766.4724
fusionapp.com

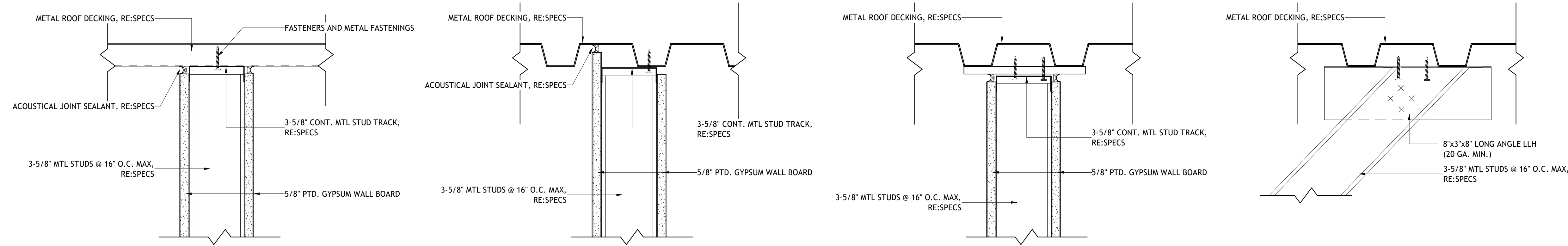
CITY OF BATON ROUGE
PUBLIC SAFETY COMPLEX
H2 BUILDING RENOVATION FOR VETERANS AFFAIRS
9050 AIRLINE HIGHWAY, SUITE 120
BATON ROUGE, LOUISIANA 70815

PROJECT NO:	29-001-24
PHASE:	CONSTRUCTION DOCUMENTS
DATE:	10.04.2024
PROJECT ARCHITECT:	JL
DRAWN BY:	BB

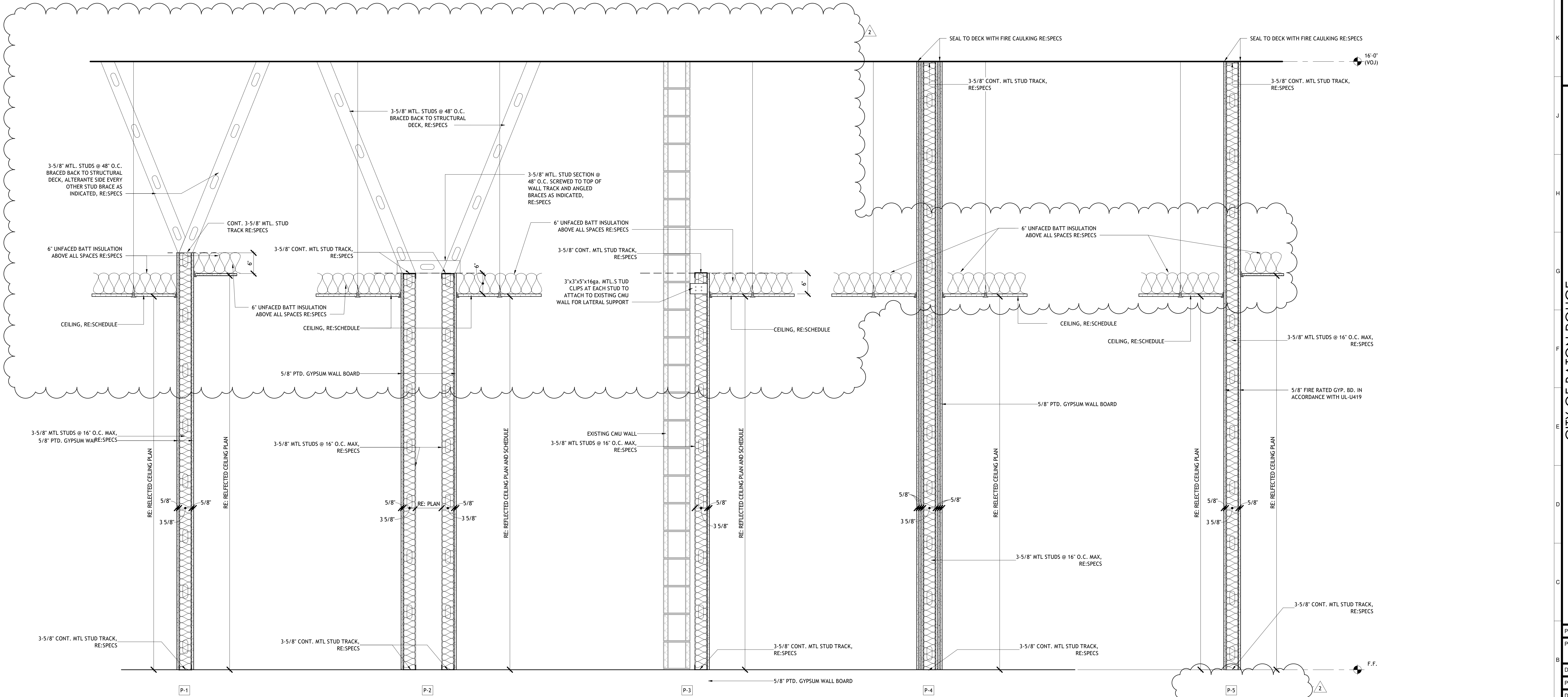
SHEET NO.
A-100
of



10/30/2024 9:11:04 AM
D:\00 - REVIT LOCAL FILES\29-001-Veterans Affairs-Central R24 - jaramy@fusions.com.cad



L1 PARTITION TO DECK CONNECTIONS
SCALE: 3" = 1'-0"
RE:

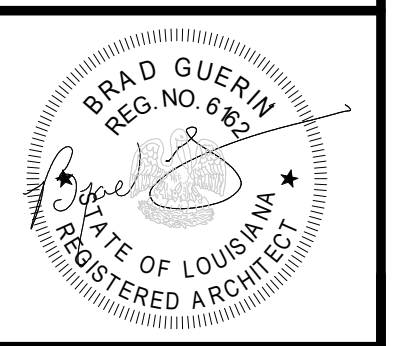


A1 PARTITION TYPES
SCALE: 1" = 1'-0"
RE:

U419 3HR. RATED WALL
ALL JOINTS AND PENETRATIONS AT ALL
EXISTING AND NEW FIRE RATED ASSEMBLIES
SHALL BE FIRE CAULKED.

U419 1HR. RATED WALL
ALL JOINTS AND PENETRATIONS AT ALL
EXISTING AND NEW FIRE RATED ASSEMBLIES
SHALL BE FIRE CAULKED.

DATE	10-30-24
DESCRIPTION	
REV	2 ADD NO 2



This drawing is the property of FUSION ARCHITECTS and is not to be reproduced or copied in whole or in part unless authorization given by FUSION ARCHITECTS. It is only to be used for the project and site specifically identified herein.
Scales as stated herein are valid on the original drawing only.
These plans were prepared in the office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

FUSION ARCHITECTS
3488 BRENTWOOD DRIVE
BATON ROUGE, LA 70806
P. 225.766.4848 F. 225.766.4724
fusionapp.com

CITY OF BATON ROUGE
PUBLIC SAFETY COMPLEX
H2 BUILDING RENOVATION FOR VETERANS AFFAIRS
9050 AIRLINE HIGHWAY, SUITE 120
BATON ROUGE, LOUISIANA 70815

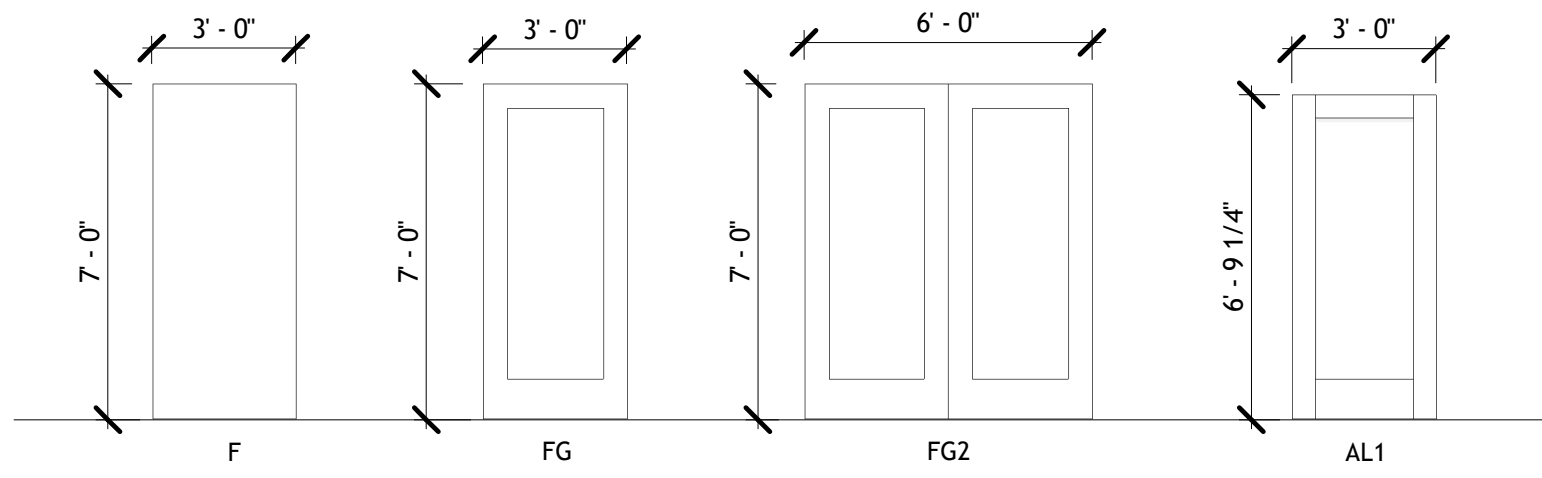
PROJECT NO:	29-001-24
PHASE:	CONSTRUCTION DOCUMENTS
DATE:	10.04.2024
PROJECT ARCHITECT:	JL
DRAWN BY:	BB

SHEET NO.
A-410
of

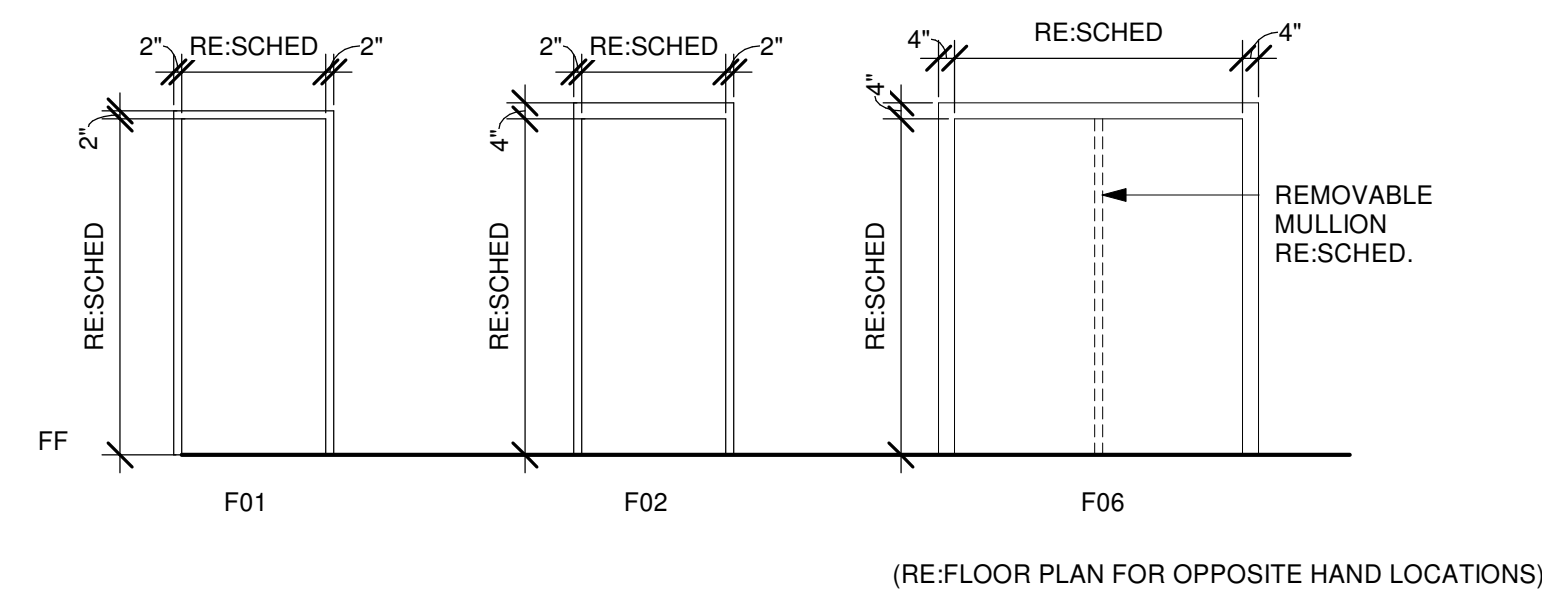
DOOR SCHEDULE

DOOR	DOOR			FRAME			HJS DETAILS	COMMENTS	FIRE RATING	DOOR
	TYPE	WIDTH	HEIGHT	TYPE	DEPTH	MATERIAL				
300A	FG2	6'-0"	7'-0"	WD	F06	5 3/4"	HM	H15/A-600	1HR	300A
300B	FG	3'-0"	7'-0"	WD	F01	5 3/4"	HM	A9/A-600	1HR	300B
300C	N	3'-0"	7'-0"	WD	F02	8 3/4"	HM		1HR	300C
300D	N	3'-0"	7'-0"	WD	F02	8 3/4"	HM		1HR	300D
301	N	5'-0"	7'-0"	HM	F01	7 3/4"	HM	A12/A-600		301
302	F	5'-0"	7'-0"	HM	F01	7 3/4"	HM	A12/A-600		302
303	FG	3'-0"	7'-0"	WD	F01	5 3/4"	HM	A9/A-600		303
304	FG	3'-0"	7'-0"	WD	F01	5 3/4"	HM	A9/A-600		304
305	FG	3'-0"	7'-0"	WD	F01	5 3/4"	HM	A9/A-600		305
306	F	3'-0"	7'-0"	WD	F01	5 3/4"	HM	A9/A-600		306
307	F	3'-0"	7'-0"	WD	F01	5 3/4"	HM	A9/A-600		307
308	FG	3'-0"	7'-0"	WD	F01	5 3/4"	HM	A9/A-600		308
309	F	3'-0"	7'-0"	WD	F01	5 3/4"	HM	A9/A-600		309
310	F	3'-0"	7'-0"	WD	F01	5 3/4"	HM	A9/A-600		310
311	F	3'-0"	7'-0"	HM	F01	5 3/4"	HM	A9/A-600		311
312	AL1	3'-0"	8'-0"	ALLM.	ALLM.		ALLM.			312
313	FG	3'-0"	7'-0"	WD	F01	5 3/4"	HM	A9/A-600		313

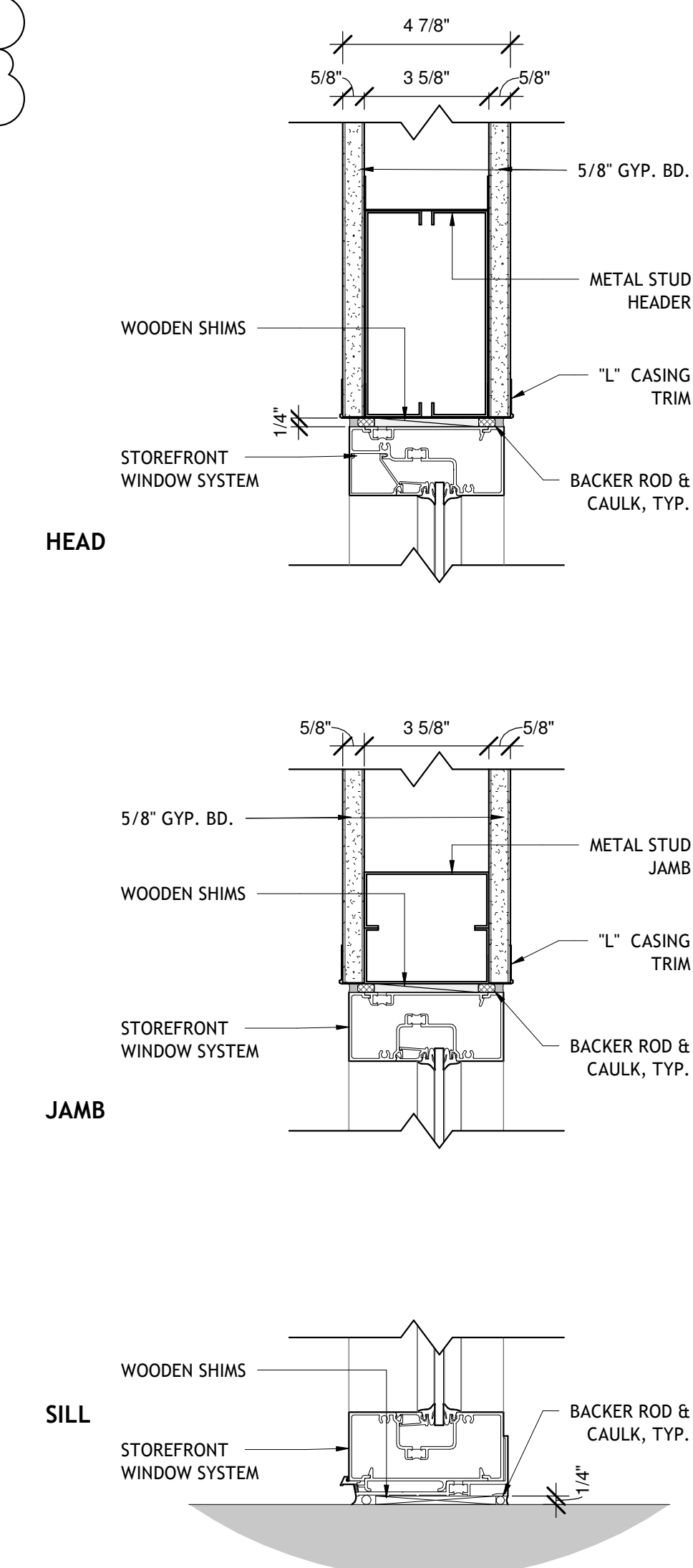
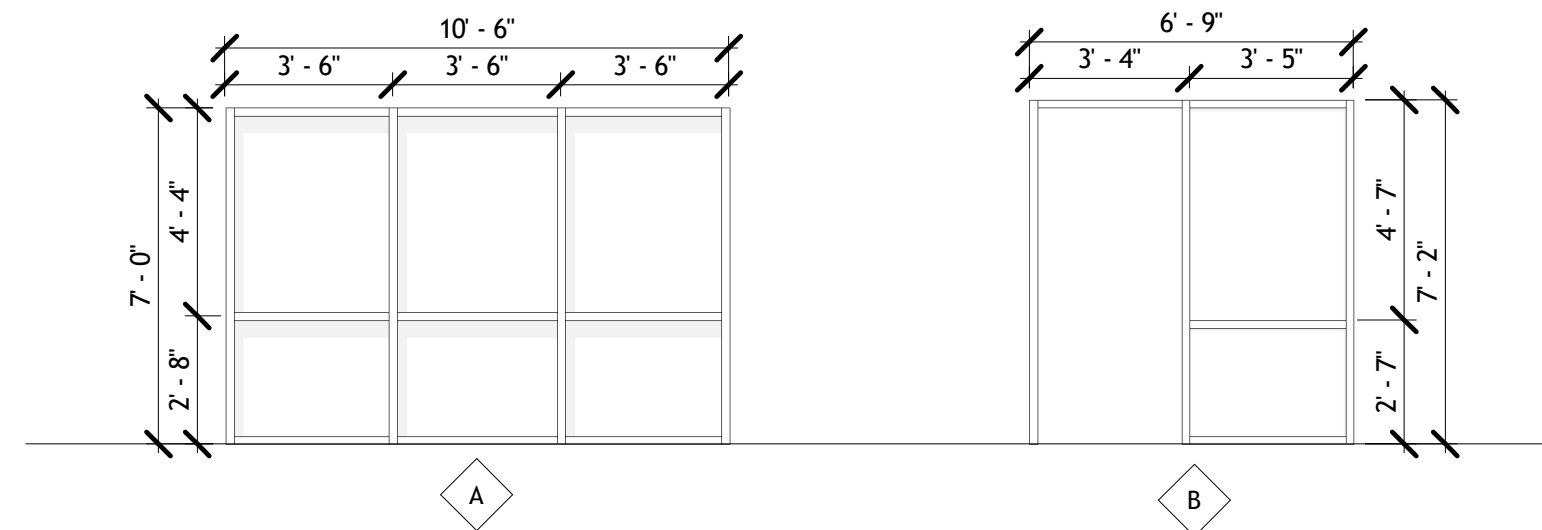
DOOR TYPES



FRAME TYPES



WINDOW TYPES



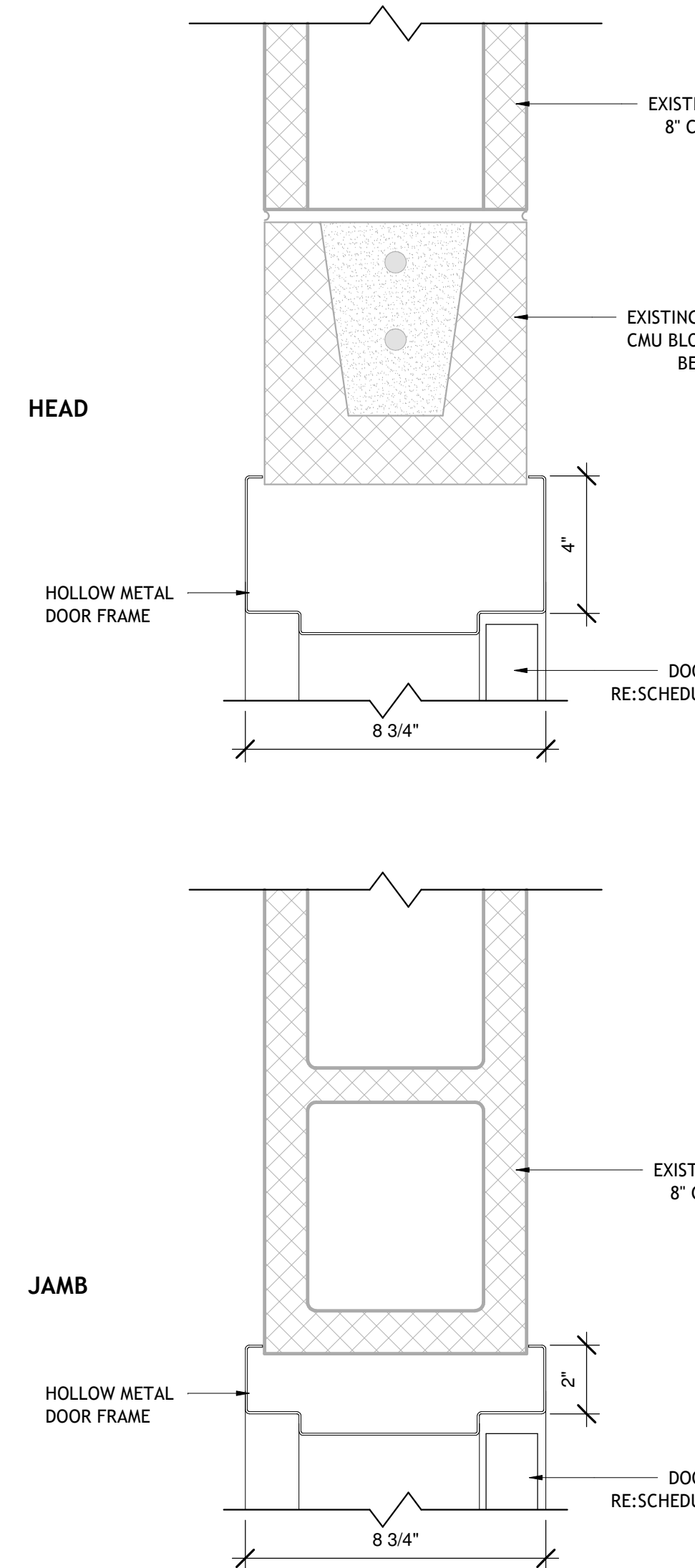
G9 HJS STOREFRONT
SCALE: 3" = 1'-0"
RE: A1

G12 HM DOOR @ 8" CMU
SCALE: 3" = 1'-0"
RE: A1-A100

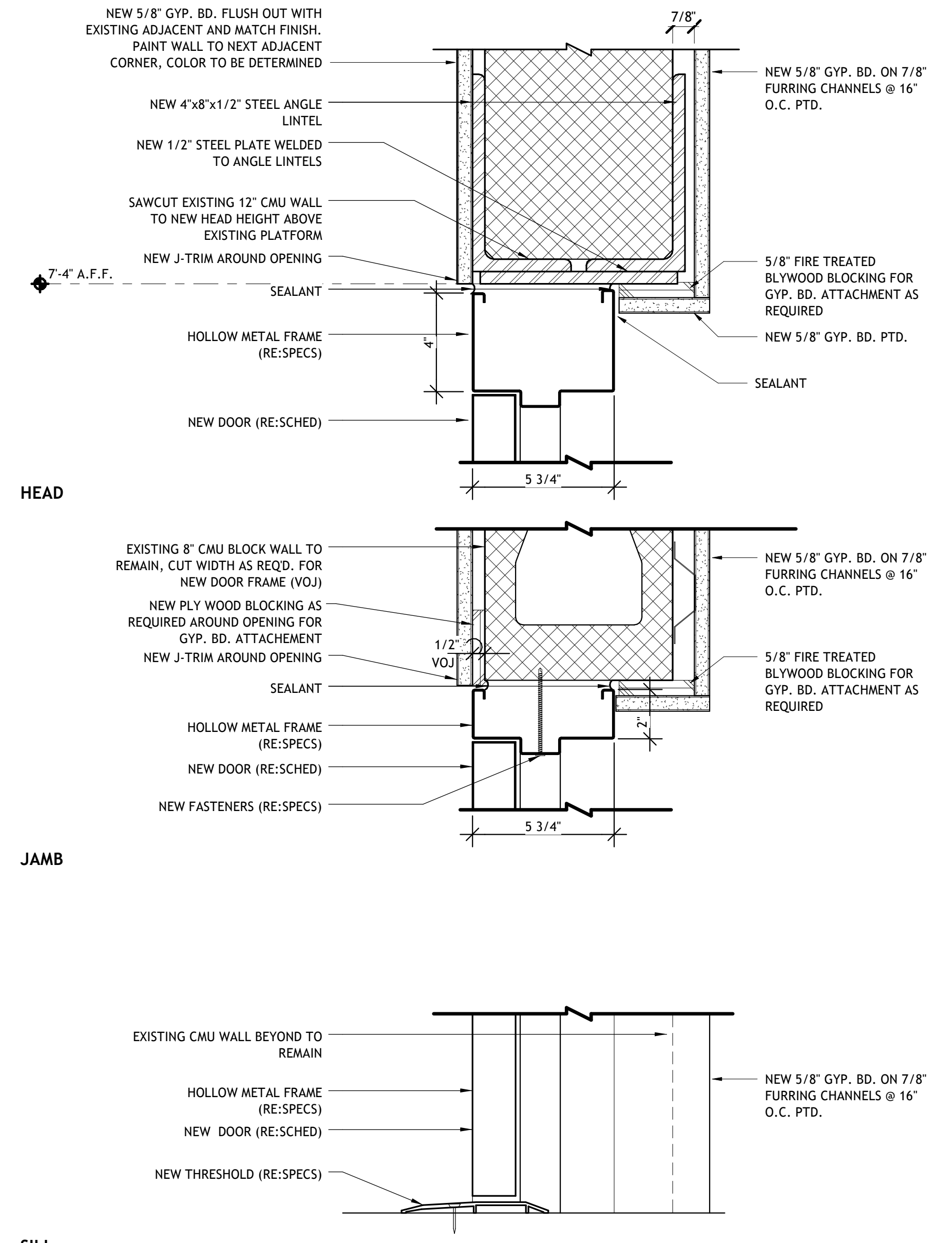
A9 HJS DOOR
SCALE: 3" = 1'-0"
RE:

A12 CASIED OPENING
SCALE: 3" = 1'-0"
RE:

H15 HJS - EXISTING BLOCK WALL
SCALE: 3" = 1'-0"
RE:



A15 HM DOOR @ 8" CMU
SCALE: 3" = 1'-0"
RE:



DATE: 10-30-24
DESCRIPTION: ADD NO 2
REV: 2

FUSION ARCHITECTS
3488 BRENTWOOD DRIVE
BATON ROUGE, LOUISIANA 70806
P: 225.766.4848 F: 225.766.4724
fusionapp.com

This drawing is the property of FUSION ARCHITECTS and is not to be reproduced or copied in whole or in part unless authorization given by FUSION ARCHITECTS. It is only to be used for the project and site specifically identified herein.
Seals as stated herein are valid on the original drawing only.
These plans were prepared in the office under our personal supervision, and to the best of our knowledge comply with state and local codes. We will generally administer construction.

CITY OF BATON ROUGE
PUBLIC SAFETY COMPLEX
H2 BUILDING RENOVATION FOR VETERANS AFFAIRS
9050 AIRLINE HIGHWAY, SUITE 120
BATON ROUGE, LOUISIANA 70815

PROJECT NO: 29-001-24
PHASE: CONSTRUCTION DOCUMENTS
DATE: 10.04.2024
PROJECT ARCHITECT: JL
DRAWN BY: BB

SHEET NO.
A-600
of