Project Name: UNIVERSITY OF CALIFORNIA, MERCED

KOLLIGIAN LIBRARY 3W RENOVATION

Project No.: 908074

ADDENDUM NO. 1

to the

CONTRACT DOCUMENTS

July 20, 2018

I. Bidder acknowledges that it is the Bidder's responsibility to ascertain whether any Addenda have been issued and if so, to obtain copies of such Addenda. Bidder therefore agrees to be bound by all Addenda that have been issued for this bid.

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents. The following changes, additions, or deletions shall be made to the following documents as indicated and all other Contract Documents shall remain the same.

II. CLARIFICATIONS

- A. PRE-BID QUESTIONS Questions received from bidders and responses are as follows:
 - 1. Q. Wall #2 on D201 due to two different ceiling heights, once the wall is removed, will there be a box beam header installed? If so, please advise the detail for the "box header" including support and attachment above and at each end. Can a "T- Bar" transition be installed there? Suspended panel ceiling in that area would easily be supported by a compression strut and brace wires as shown on details 18 & 10 on A901
 - A. Detail 13/A902 addresses the difference in ceiling heights.
 - 2. Q. The drawings call for the new walls to be "full height". There are a few locations such as 338 Tutoring West Wall, that have parallel fire sprinkler lines that will not allow the wall to reach the upper deck. Would walls that rise 4" to 6"above the drop ceiling with diagonal bracing be acceptable in non-fire rated areas?
 - A. Detail 20/A902 addresses revised height of framed walls. Newly framed walls, per revised details do not go to underside of deck, they will be diagonally braced.
 - 3. Q. Unit Price #1 calls for a "patch and paint" unit price, will this be only non-fire rated walls or will that number change, based on the location of the patch work?
 - A. The unit price request is for non-fire rated walls.
 - 4. Q. Will diversion reports be required for the site waste?
 - A. Not at this time, but if requested at a later date, Contractor will be asked to provide.
 - 5. Q. Can Contractor use knock-down hollow metal frames in lieu of one piece wielded to maintain schedule?
 - A. Yes, knock-down metal frame acceptable. Contractor may also submit using storefront doors frames at no additional cost, for Owner approval.
 - 6. Q. How will the electrical work be addressed?

A. University has contracted an electrical contractor to complete the electrical scope of work with the Design Team. The Electrical Contractor will provide a price for the electrical, Data, AV/IT and Fire Alarm, the University will assign the contract and price for the work to the Responsive Low Bidder through the Assignment Document attached.

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III. BIDDING/CONTRACT DOCUMENTS AND DIVISION 1 SPECIFICATIONS – VOLUME 0

- 1. Revise Section 01 23 00 Alternates:
 - 1.3 A.1- Delete Deductive Alternate 1 Title 24 Requirements.
 - 1.3 B.1 Add Alternate 1 Remove hollow metal fire-rated glazing system. Attachment
- 2. **Revise Section 08 70 00 Door Hardware**: Revised Hardware Groups (Changes in Red) See also item 01-16 below.
- 3. **Replace Bid Form: Delete Bid Form.** Revise Bid Form to include Add Alternate 1. Bid Form attached.
- 4. Responsive Low Bidder will execute the Electrical Assignment document for the electrical bidder. Assignment attached.
- 5. Jobwalk Sign-in included.

V. **DRAWINGS**

- 1. Item 01-01
 - a. Reference: G000
 - b. Deferred approvals Campus Fire Authority changed to "DCFM Designated Campus Fire Marshal". No change in scope, clarification only.
- 2. Item 01-02
 - a. Reference: G001
 - b. General Note #8 Verify signage exists. If it doesn't exist or is not compliant, provide per details.
 - c. General Note #12 Specification reference added to general note. No change in scope, clarification only.
 - d. General Note #35 Added note to finish schedule sheet A701. No change in scope, clarification only.
- 3. Item 01-03
 - a. Reference: D201
 - b. Keynotes updated to salvage removed signage to Owner. No change in scope, clarification only.
- 4. Item 01-04
 - a. Reference: A201
 - b. Keynotes updated to indicate all wayfinding signage is to be done by University under a separate contract. Code compliant signage indicated on plans, to be done by Contractor.
 - c. General Note #3 Updated to reflect signage to be done by University under a separate contract.
- 5. Item 01-05
 - a. Reference: D201, A201
 - b. Signage notes referencing demo work were moved from A201 to D201 for clarity. No change in scope, clarification only.

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6. Item 01-06

- a. Reference: A202
- b. Note added to sheet to reference power and data hookups per forthcoming Electrical. No change in scope, clarification only.
- 7. Item 01-07
 - a. Reference: A701, A801-802
 - b. Some painting removed from scope of work. Contractor verify on Finish Schedule (A701) and Interior Elevations (A801-802).
- 8. Item 01-08
 - a. Reference: A702
 - b. Rows indicating doors 310.B.2, 310.B.3, 310.B.4 are a part of the scope of work and have been removed for clarity. No change in scope, clarification only.
- 9. Item 01-09
 - a. Reference: A201, A802
 - b. Dimensions added for clarity. No change in scope, clarification only.
- 10. Item 01-10
 - a. Reference: A601, 13/A902
 - b. Add metal stud box header where wall was removed. See detail 13/A902.
- 11. Item 01-11
 - a. Reference: A201, A401, 2/A901, 20/A902
 - b. Change full height studs to partial height with diagonal bracing per details 2/A901, 20/A902
- 12. Item 01-12
 - a. Reference: A201, 11/A802, 13-14/A802, 12/A902
 - b. Base bid change Door at east side of room 344 to remain. Apply film on glazing as indicated on interior elevations. See 11/A802.
 - c. Additive alternate No. 1 Remove fire-rated glazing at east wall of room 344, replace with fire rated framed wall per detail 12/A902.
 - d. See also Specification section on Alternates 01 23 00.
- 13. Item 01-13
 - a. Reference: A201, 5/A903
 - b. Add assisted listening system, see forthcoming design-build electrical drawings.
 - c. Add assisted listening signage, see 5/A903.
- 14. Item 01-14
 - a. Reference: A201, 5/A903
 - b. Add internally illuminated exit signs above doors in rooms 316 & 330. See forthcoming Electrical drawings by design-build contractor.
 - c. Add tactile exit signs at the following doors: S3-1.1, 316.1, 316.2, 330.1, 330.2, 353.3, 353.4, S3-2.1
- 15. Item 01-15
 - a. Reference: A201, 5/A903

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b. Add maximum room occupancy signage in rooms 316 & 330.

16. Item 01-16

- a. Reference: A702
- b. Add hardware group 5 to doors S3-1.1 & S3-2.1. See also specification section 08 70 00.

17. Item 01-17

- a. Reference: A702
- b. Door types remove material designation from door type 1, refer to Door Schedule. Clarification only, no change in scope.

VI. <u>ATTACHMENTS</u>

- 1 Revised Drawing Set, dated 07.20.2018
- 2 01 23 00 Alternates
- 3 Jobwalk Sign-in

- 4 Bid Form
- 5 Electrical Assignment Document

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UNIVERSITY OF CALIFORNIA, MERCED

By: University of California, Merced

Fran Telechea

Director of Construction

End of Addendum No. 1

ADDENDUM NO. 1

Project No.: 908074

BID FORM

FOR: KOLLIGIAN LIBRARY 3W RENOVATION

UNIVERSITY OF CALIFORNIA

MERCED

MERCED CALIFORNIA

JULY 26, 2018

BID TO: CONSTRUCTION SERVICES & MANAGEMENT

UNIVERSITY OF CALIFORNIA MERCED 5200 N. LAKE ROAD MERCED, CALIFORNIA 95344 209-201- 8174

BID FROM:			
TROW		(Name of Bidder)	
_		(Address)	
-	(City)	(State)	(Zip Code)
		(Telephone Number)	
		(Date Bid Submitted)	

Note: All portions of this Bid Form must be completed and the Bid Form must be signed before the Bid is submitted. Failure to do so will result in the Bid being rejected as non-responsive.

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1. 0 BIDDER'S REPRESENTATIONS

Bidder, represents that a) Bidder and all Subcontractors, regardless of tier, has the appropriate current and active Contractor's licenses required by the State of California and the Bidding Documents; b) it has carefully read and examined the Bidding Documents for the proposed Work on this Project; c) it has examined the site of the proposed Work and all Information Available to Bidders; d) it has become familiar with all the conditions related to the proposed Work, including the availability of labor, materials, and equipment; e) Bidder and all Subcontractors, regardless of tier, are currently registered with the California Department of Industrial Relations pursuant to California Labor Code Section 1725.5 and 1771.1. Bidder hereby offers to furnish all labor, materials, equipment, tools, transportation, and services necessary to complete the proposed Work on this Project in accordance with the Contract Documents for the sums quoted. Bidder further agrees that it will not withdraw its Bid within 60 days after the Bid Deadline, and that, if it is selected as the apparent lowest responsive and responsible Bidder, that it will, within 10 days after receipt of notice of selection, sign and deliver to University the Agreement in triplicate and furnish to University all items required by the Bidding Documents. If awarded the Contract, Bidder agrees to complete the proposed Work within 63 days after the date of commencement specified in the Notice to Proceed.

2.0 ADDENDA

Bidder acknowledges that it is Bidder's responsibility to ascertain whether any Addenda have been issued and if so, to obtain copies of such Addenda from University's Facility at the appropriate address stated on Page 1 of this Bid Form. Bidder therefore agrees to be bound by all Addenda that have been issued for this Bid.

3.0	NOT USED
4.0	LUMP SUM BASE BID
	\$
	(Place figures in appropriate boxes.)
Bidder	includes in the Lump Sum Base Bid the following allowances: NONE

5.0 SELECTION OF APPARENT LOW BIDDER

Refer to the Instructions to Bidders for selection of apparent low bidder.

6.0 **UNIT PRICES**

The quantities set forth in the Unit Prices are estimates in Section 01 22 00. University does not represent that the actual quantity of any Unit Price item will equal the Estimated Quantity stated below. University will perform the extension of the Unit Price times the respective Estimated Quantity.

Unit Price #1: Patch drywall and paint
Estimated Quantity of units: 5,000 sq/ft
\$ Per sq/ft
(Place Unit Price figures in appropriate boxes.)
Unit Price #2: Remove and replace carpet tiles
Estimated Quantity of units: 1,500 sq/ft
\$ Per Sq/ft
(Place Unit Price figures in appropriate boxes.)
Unit Price #3: Remove and replace damaged ceiling tiles
Estimated Quantity of units: 500 sq/ft
\$ Per sq/ft
(Place Unit Price figures in appropriate boxes.)
7.0 DAILY RATE OF COMPENSATION FOR COMPENSABLE DELAYS
Bidder shall determine and provide below the daily rate of compensation for any Compensable Delay caused by University at any time during the performance of the Work.
\$,, X 10 multiplier (Place figures in appropriate boxes.)

Failure to fill in a dollar figure or a value of zero for the daily rate for Compensable Delay shall render the bid non-responsive. The dollar figure shall be greater than 1.

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The daily rate shown above will be the total amount of Contractor entitlement for each day of Compensable Delay caused by University at any time during the performance of the Work and shall constitute payment in full for all delay costs, direct or indirect (including, without limitation, compensation for all extended home office overhead and extended general conditions), of the Contractor and all subcontractors, suppliers, persons, and entities under or claiming through Contractor on the Project. The number of days of Compensable Delay shown as a "multiplier" above is not intended as an estimate of the number of days of Compensable Delay anticipated by the University. The University will pay the daily rate of compensation only for the actual number of days of Compensable Delay, as defined in the General Conditions; the actual number of days of Compensable Delay may be greater or lesser than the "multiplier" shown above. Bidder shall not bid less than zero dollars for the daily rate (i.e., the daily rate cannot be a negative number).

8.0 ALTERNATES - NONE

In order for a Bid to be responsive, Bidder must submit an additive bid, a deductive bid, or a "no change" bid, for each Alternate listed below. The failure to do so shall result in the Bid being rejected as non-responsive. The failure to quote an amount, unless the bidder marks the "no change" box, will result in the bid being rejected as non-responsive.

The Contract Time will change by the number of days, if any, specified for each accepted Alternate.

Add Alternate No. 1

Description: Add Alternate 1 – Remove and Replace Wall Infill in Room 344. Full description in Section 01 23 00.

If "Add" or "Deduct" is intended, indicate by placing figures in the corresponding boxes. If "No Change" is intended, indicate by marking the "No Change" box

Add	\$,				,				•		
☐ No Chanç Sum.	ge: Bio	dder	will	perfo	rm th	is Alt	erna	ıte wi	thout	char	ige to	Conti	ract

No extension of time will be granted if this Alternate is accepted.

9.0 <u>LIST OF SUBCONTRACTORS</u>

Bidder will use Subcontractors for the Work:

Yes	
If "yes", provide in the spaces below (a) the name, the location of the place of business, and the contractor license number of each subcontractor who will perform work or labor or render serv	
prime contractor in or about the construction of the work or improvement, or a subcontractor lice	censed by
the state of California who, under subcontract to the prime contractor, specially fabricates and	installs a

portion of the work or improvement according to detailed drawings contained in the plans and specifications,

in an amount in excess of one-half of 1 percent of the prime contractor's total bid, (b) the portion of the work which will be done by each subcontractor. The prime contractor shall list only one subcontractor for each such portion as is defined by the prime contractor in its bid.

	Subcontractor					
Portion of the Work Activity (e.g. electrical, mechanical, concrete)	Name of Business	Location of Business (City)	License No.			

(Note: Add additional pages if required.)

10.0 <u>LIST OF CHANGES IN SUBCONTRACTORS DUE TO ALTERNATES</u>

The information below must be provided for all changes in first-tier Subcontractors if University selects Alternates. List changes in Subcontractors only for those portions of the Work valued in excess of one-half of 1 percent of prime contractor's total bid.

	Subcontractor						
Alternate No.	Portion of the Work Activity (e.g. electrical, mechanical, concrete)	Name	Location (City)	License No.			

(Note: Add additional pages if required.)

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BIDDER INFORMATION 11.0

TYPE (OF ORGANIZATION:		
	(Corpora	ation, Partnership, Individual, Joint Vent	ture, etc.)
IF A CC	ORPORATION, THE COR	PORATION IS ORGANIZED UNDER T	THE LAWS OF:
	THE STATE OF		
	NAME OF PRESIDENT	OF THE CORPORATION:	
		(Insert Name)	
	NAME OF SECRETARY	OF THE CORPORATION:	
		(Insert Name)	
IF A PA	ARTNERSHIP, NAMES O	F ALL GENERAL PARTNERS:	
		(Insert Names)	
CALIFO	DRNIA CONTRACTORS I	<u>LICENSE(S)</u> :	
(Classif	fication)	(License Number)	(Expiration Date)
	(For Joint Venture, list Jo	pint Venture's license and licenses for a	II Joint Venture partners.)
12.0	REQUIRED COMPLETE	ED ATTACHMENTS	
The foll	owing documents are sub	mitted with and made a condition of thi	s Bid:
	Bid Security in the secur	ne form of(Bid Bond or Certified (<u> </u>
luly 17		(Bid Bond or Certified (Check) Rid Form

ADDENDUM 1 13.0 **DECLARATION** _____, hereby declare that I am the (Printed Name) ____ of ____ (Name of Bidder) (Title) submitting this Bid Form; that I am duly authorized to execute this Bid Form on behalf of Bidder; and that all information set forth in this Bid Form and all attachments hereto are, to the best of my knowledge, true, accurate, and complete as of its submission date. I further declare that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid. I declare, under penalty of perjury, that the foregoing is true and correct and that this declaration was executed at: (Name of City if within a City, otherwise Name of County), in the State of _____ (State) (Date)

(Signature)

SECTION 01 23 00 ALTERNATES

PART 1 - GENERAL

1.1 ALTERNATES REQUIREMENTS

- A. This Section identifies each Alternate and describes basic changes to the Work only when that Alternate is made a part of the Work by specific provision in the Agreement.
- B. The Lump Sum Base Bid and Alternates shall include the costs of all supporting elements required, so that the combination of the Lump Sum Base Bid and any Alternates shall be complete. The scope of Work for all Alternates shall be in accordance with applicable Drawings and Specifications.
- C. Except as otherwise specifically provided by University, the Work described in Alternates shall be completed with no increase in Contract Time.
- D. This Section includes only the non-technical descriptions of the Alternates. Refer to the specific Sections of Divisions 2-33 of the Specifications for technical descriptions of the Alternates.
- E. Coordinate related Work and modify surrounding Work as required to properly and completely integrate the Alternates into the Work.
- F. The General Contractor shall quote prices for the Alternates listed below in the space provided therefore on the Bid Form. The General Contractor shall be responsible for determining exact quantities of materials involved with the Alternates. Work for the Alternates shall be in strict accordance with the Specifications and Drawings.

1.2 BIDS REQUIRED

Base Bid: The Base Bid consists of all items indicated and/or specified in the Drawings, Specifications and/or Bid Form. The costs for Additive Alternates will be added to the Base Bid, and the costs for Deductive Alternates will be subtracted from the Base Bid.

1.3 DESCRIPTION OF ALTERNATES

A. Deductive Alternate 1

1. Deduct Title 24 Lighting Requirements as shown on

B. Add Alternate 1

1. Remove hollow metal fire-rated glazing system at the east side of Room 344. Infill opening with fire-rated wall assembly as shown on detail 12/A901. Complete wall finish to match adjacent walls. Patch and repair ceiling and/or floor finishes as needed for new work.

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PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 23 00

SECTION 08 70 00 DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - Provide all material, labor, equipment and services necessary to completely install all Building Hardware materials, accessories and other related items necessary to complete the Project as indicated by the Contract Documents.
- B. Related Sections: The following Project Manual Sections contain requirements that relate to this section:
 - 1. ALL DIVISION 00 SPECIFICATION SECTIONS.
 - 2. ALL DIVISION 01 SPECIFICATION SECTIONS.
 - 3. 07 92 00 SEALANTS
 - 4. 08 11 00 METAL DOORS AND FRAMES
 - 5. 08 14 16 WOOD DOORS
 - 6. 09 91 00 PAINTING

1.2 REFERENCES

A. Standards:

- 1. In accordance with the following standards:
 - a. ADAAG Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities.
 - b. ASAHC American Society of Architectural Hardware Consultants.
 - c. BHMA Builders Hardware Manufacturers Association.
 - d. CBC California Building Code, 2016 Edition
 - e. DHI Door and Hardware Institute.
 - f. HMMA Hollow Metal Manufacturer's Association.
 - g. NFPA National Fire Protection Association.
 - h. UL Underwriter's Laboratories.
 - i. WHI Warnock Hersey Incorporated.

1.3 DEFINITIONS

- A. The following definitions apply to this Specification Section:
 - 1. AFF Above Finished Floor.
 - 2. "LABEL" Shall mean "FIRE ASSEMBLY" as defined in CBC Section 713.2.
 - 3. LDW Less Door Width.
 - 4. NRP Non Removable Pin.
 - 5. POT Path of Travel (as defined by DSA/ACS and the CBC).

1.4 SUBMITTALS

A. Submit in accordance with Specification Section - SUBMITTAL PROCEDURES:

June 26, 2018 Revision: 1 LF/SF: 08 70 00

1. Product Data.

- a. Submit manufacturer's technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish (including any custom colors), and other information necessary to show compliance with requirements.
- b. Provide Key Control System submittal for review prior to fabrication or ordering. Submit manufacturer's full color range (including any standard, premium and custom colors) for selection by the Architect.
- c. Keying Schedule: Submit separate detailed schedule indicating clearly how the University's final instructions on keying of locks has been fulfilled.

2. Shop Drawings – (Hardware Schedule):

- a. Submit shop drawings (Hardware Schedule) showing fabrication and installation of the work of this section including plans, elevations, sections, details of components, and attachments to other units of work. Include the following information:
 - 1) Type, style, function, size and finish of each Hardware Item.
 - 2) Name and manufacturer of each item.
 - 3) Fastenings and other pertinent information.
 - 4) Location of each hardware set cross-referenced to indications on the drawings both on the floor plans and in door and frame (opening) schedule as prepared by the Architect.
 - 5) Explanation of all abbreviations, symbols, and codes contained in schedule.
 - 6) Mounting locations for hardware.
 - 7) Door and frame sizes and materials.
 - 8) Keying information.

3. Closeout Submittals:

- Maintenance Data in accordance with Specification Section PROJECT CLOSEOUT.
- Operation Data in accordance with Specification Section PROJECT CLOSEOUT.
- c. Record Documents in accordance with Specification Section RECORD DOCUMENTS.
- d. Warranty in accordance with Specification Section WARRANTIES.

1.5 QUALITY ASSURANCE

A. Meetings:

- Pre-installation Conference: Scheduled by the Contractor prior to the start of work
 - a. Review hardware schedule, products and installation procedures.
 - b. Review University's keying standards.
 - c. Coordinate the work with all other related work.
 - d. Identify potential problems that may impede planned progress and proper installation of work regarding quality of installation and warranty requirements.
- 2. Progress Meetings: Scheduled by the Contractor for the proper performance of the work.

June 26, 2018 Revision: 1 LF/SF: 08 70 00

- a. Review proper installation of work progress.
- b. Identify any installation problems and acceptable corrective measures.
- c. Identify any measures to maintain or regain project schedule if necessary.
- 3. Final Inspection: Scheduled by the Contractor upon proper completion of the work.
 - a. Inspect and identify any problems that may impede issuance of warranties or guaranties.
 - b. Maintain installed work until the Notice of Completion has been executed.

1.6 DELIVERY, STORAGE, AND HANDLING

- 1. Products shall be stored above ground on level platforms, six (6) inches above ground, allowing air circulation under stacked units.
- 2. Provide secure lock-up for door hardware delivered to the Project, but not yet installed.

1.7 WARRANTY

- A. In accordance with Specification Section –WARRANTIES.
- B. Special Warranties:
 - 1. Closers Ten (10) Years.
 - a. Exception: Electronic closers shall be two (2) years.
 - 2. Exit Devices Three (3) Years.
 - 3. All other hardware Two (2) Years.

1.8 MAINTENANCE

- A. Extra Materials:
 - 1. Furnish a complete set of specialized tools and maintenance instructions as needed for University's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products specified are from companies listed below, or approved equivalent. These products listed herein establish the size, pattern, color range and function selected by the Architect for this Project. Manufacturers listed as acceptable alternative manufacturers must still comply with the requirements of the products listed in order to be approved as an equivalent during the Submittal Process. If the acceptable alternative manufacturers listed are not approved during the Submittal Process due to non-compliance with the contract documents, then the Contractor shall submit product specified.
 - 1. Specified product manufacturer, or approved equivalent:
 - a. Continuous Gear Hinges

ROTON

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1) Acceptable alternative manufacturers MARKAR

b. Hinges, Butts and Pivots HAGER COMPANIES.

Acceptable alternative manufacturers STANLEY HARDWARE.

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IVES

c. Locks (Locksets) SCHLAGE
d. Cylinders SCHLAGE

1) RX-L9092TEU 17A

e. Exit / Panic Devices VON DUPRIN.

- 1) VonDuprin"98/99" Series, at interior openings.
- 2) Hager Companies "4500" Series
- 3) Sargent "80" Series

f. Overhead Closers LCN

1) LCN "4011", "4111", and "4640" Series

g. Door Stops (Everywhere else)

1) Acceptable alternative manufacturer TRIMCO.
Thresholds PEMKO.

h. Thresholds PEMKO.
1) Acceptable alternative manufacturer HAGER COMPANIES.

B. Products from other manufacturers not listed must submit in accordance with Specification Section - SUBSTITUTION PROCEDURES.

2.2 MATERIALS

A. General:

- 1. Base Metals: Produce hardware units of basic metal and forming method indicating using manufacturer's standard metal alloy, composition, temper, and hardness, but in no case of lesser (commercially recognized) quality than specified within this specification section for applicable hardware units for finish designations indicated.
- 2. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation. Do not provide hardware that has been prepared for self-tapping sheet metal screws, except as specifically indicated.
- 3. Furnish screws for installation with each hardware item. Provide Phillips flathead screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of this other work as closely as possible including "prepared for paint" surfaces to receive painted finish.
- 4. Provide concealed fasteners for hardware units that are exposed when door is closed except to the extent no standard units of type specified are available with concealed fasteners.
 - a. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless their use is the only means of reinforcing the work adequately to fasten the hardware securely.
 - b. Where thru-bolts are used as a means of reinforcing the work, provide sleeves for each thru-bolt or use sex screw fasteners.

2.3 MANUFACTURED UNITS

A. Hinges:

1. General:

- a. Templates: Provide only template-produced units.
- b. Provide Phillips flat-head screws complying with the following requirements:
 - 1) For metal doors and frames, install machine screws into drilled and tapped holes.
 - 2) Finish screw heads shall match surface of hinges or pivots.

2. Butt:

- a. Provide hinge pins as follows:
 - 1) Out-Swing Exterior Doors

Non-removable pins.

2) Out-Swing Corridor Doors with Locks

Non-removable pins.

3) Interior doors

Non-rising pins.

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- 4) Tips: Provide flat button and matching plug, finished to match leaves.
- b. Provide 3 hinges for doors with heights 61 to 90 inches, typ. u.n.o.
- c. Hinges shall be 4-1/2 inches for doors up to 41" wide.
 - 1) Width: Sufficient to clear frame and trim when door swings 180 degrees.

B. Lock Cylinders and Keying:

- 1. Lock Cylinders:
 - a. Construct lock cylinder parts from brass or bronze, stainless steel, or nickel silver.

2. Keying:

- a. Review the keying system with the University and provide the type required (Master, grandmaster or great-grandmaster), either new or integrated with the University's existing keying system. Contact University of California, Merced, Locksmith Services for keying instructions.
 - 1) Provide Schlage Interchangeable Core Cylinders for all keyed locksets and exit devices with 1467 Keyway. University to provide all keying.
 - 2) Equip locks and cylinders for construction core pin tumbler inserts. Provide only temporary inserts for the construction period, and remove when directed.
 - a) Provide final cores and keys to the University.
- b. Key Blanks: Provide as directed by the University.
- c. Provide keys manufactured from nickel silver only.
- d. Supply keys and blanks as follows:
 - 1) Supply 3 uncut change keys for each different change key code.
 - Supply additional uncut keys as directed by the University.
- e. Comply with University's instructions for master keying, and except as otherwise indicated, provide individual change key for each lock that is not designated to be keyed alike with a group of related locks.
 - Permanently inscribe each key with number of lock that identifies cylinder manufacturer's key symbol, and notation, "DO NOT DUPLICATE."

C. Locks, Latches, and Bolts:

- 1. All doors shall be operable from within, without the use of a key by merely rotating the latching handle.
- 2. All doors in areas used by students shall be self-releasing type, operable from within without the use of a key or special knowledge or effort.
- 3. Provide manufacturer's standard wrought box strike for each latch or lock bolt, with curved lip extended to protect frame, finished to match hardware set, unless otherwise indicated.
- 4. Lock Protectors:
 - a. Lock astragals shall be provided with internally threaded fasteners for flat head machine screws. No hex head or carriage bolt fasteners will be permitted.
 - b. Must be through bolted to door.
- 5. Provide 3/4 inch minimum throw of latch for mortise locks.
- 6. Provide keyed dogging devices on doors equipped with exit devices.
 - a. Do not provide dogging on fire rated doors equipped with exit devices.

D. Exit / Panic Devices:

- 1. Panic hardware shall comply with CCR Title 24, Part 12, Chapter 12-10-3.
 - a. The release mechanism shall be so designed that a horizontal force of 5 lbs. or less will actuate the release bar and latches applied in the direction of travel.
- 2. No surface mounted vertical rods are allowed.
- 3. Provide certificate by independent testing laboratory that device meets ANSI/BHMA A156.3 1994 standards.
- 4. Device shall bear UL label for fire and or panic as may be required.
- 5. Removable Mullions:
 - a. Removable with single turn of building key, and securely reinstalled without need for key.
 - b. All removable mullions shall be steel or aluminum clad steel whether the opening is fire-rated or not.

E. Closers and Door Control Devices:

- 1. Door closer cylinders shall be of high strength cast iron construction with double heat treated pinion shaft to provide low wear operating capabilities of internal parts throughout the life of the installation.
 - a. All door closers shall be tested to ANSI/BHMA A156.4 test requirements by a BHMA certified testing laboratory.
- 2. Except as otherwise specifically indicated, comply with manufacturer's written recommendations for size of door control unit depending on size of door, exposure to weather, and anticipated frequency of use.
 - a. Where parallel arms are indicated for closers, provide closer unit one size larger than recommended for use with standard arms.
 - b. Effort to operate shall conform to CBC Section 1133B.2.5 accessibility requirements.

F. Door Stops:

1. Coordinate the installation of backing in walls with the door supplier, aligned with the top and bottom of doors.

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2. All Floor Stops shall be installed within four (4) inches maximum from the face of wall, bollard or partition.

G. Thresholds:

1. Provide standard metal threshold unit of type, size, and profile as shown or scheduled.

H. Fasteners:

- 1. Screws for strikes, face plates and similar items shall be flat head, countersunk type, provide machine screws for metal and standard wood screws for wood.
- 2. Screws for butt hinges shall be flathead, countersunk, full-thread type.
- 3. Fastening of closer bases or closer shoes to doors shall be by means of sex bolts and spray painted to match closer finish.
- 4. Provide expansion anchors for attaching hardware items to concrete or masonry.
- 5. All exposed fasteners shall have a Phillips head.
- 6. Finish of exposed screws to match surface finish of hardware or other adjacent work.
- 7. All exit devices and lock protectors shall be fastened to the door by means of sex bolts, or through bolts.

2.4 FINISHES

A. Hardware finishes:

- 1. General:
 - a. All hardware shall be satin chromium (US26D 626) unless otherwise noted.
 - b. Provide push plates, pull plates and kick or armor plates in satin stainless steel (US32D 630) unless otherwise noted.
 - c. Door closers shall be powder-coated to match other hardware, unless otherwise noted.
 - d. Aluminum items shall be finished anodized aluminum (US28-628), except thresholds that can be furnished as standard mill finish.
- 2. Match items to the manufacturer's standard color and texture finish for the latch and lock sets.
- 3. Provide finishes that match those established by BHMA or, if none established, match existing.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Site verification of conditions:

- 1. Prior to the execution of the work under this specification section, inspect the installed work executed under other sections of this Project Manual that affect the execution of work under this specification section.
 - a. Verify that doors and frames are square and plumb and ready to receive work and dimensions are as instructed in writing by the manufacturer.
- 2. Report unacceptable conditions to the Architect. Do not begin work until unacceptable conditions have been corrected.

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3. Execution of work under this specification section shall constitute acceptance of existing conditions.

3.2 PREPARATION

A. Coordination:

- 1. Coordinate work under this specification section with work specified under other sections to ensure proper and adequate interface of work.
 - a. Coordinate electrical power needs for those hardware items requiring electrical interface.
 - b. Coordinate electrical alarm needs (security, fire/smoke detection) for those hardware items requiring electrical alarm interface.
- 2. Provide all required hardware templates.

B. Surface preparation:

- 1. Prepare surface in accordance with manufacturer's written instructions and recommendations.
- 2. Coordinate the blocking required for all wall mounted hardware.
- 3. Clean substrates of substances (oil, grease, rolling compounds, incompatible primers, loose mill scale, etc.) which could impair bond of materials specified within this section.

3.3 INSTALLATION

A. General:

- 1. In accordance with manufacturer's written instructions and recommendations unless specifically noted otherwise.
 - a. Hardware distributor shall assist and advise installer in correcting field problems arising during installation of hardware.
 - b. Hardware distributor shall be on the Project within 48 hours upon being notified by the Contractor.
 - c. Hardware distributor shall assist installer in the proper adjustment of all door closers, and other operating devices.
- 2. In accordance with approved submittals.
- 3. In accordance with Regulatory Requirements.
- 4. Mount hardware units at heights indicated in following applicable publications, except as specifically indicated or required to comply with governing regulations and except as otherwise directed by the Architect.
 - a. Steel Doors and Frames: "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute.
 - b. CBC 1004.3.1.
 - c. Door opening devices shall be installed at 30" minimum to 44" AFF maximum height per CBC Section 1133B.2.5.2.
- 5. Install each hardware item in compliance with the manufacturer's written instructions and recommendations. Where indicated and where cutting and fitting is required to install hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation or application of surface protection with finishing work specified in

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the Division 9 Sections.

a. Do not install surface-mounted items until finishes have been completed on the substrate involved.

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- 6. Set units level, plumb, and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- 7. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

3.4 ADJUSTING

A. Adjusting:

- 1. Adjust and check each operating item of hardware and each door to ensure proper operations or function of every unit.
 - a. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.

3.5 SCHEDULES

A. The hardware schedule should be used as a guide only. In case of omissions, provide hardware in accordance with that scheduled for a similar opening.

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MANUFACTURER	INITIALS
HAGER COMPANIES	HAG
MARKS USA	MRK
ROTON	RTN
SCHLAGE	SCH
TRIMCO	TRI
VON DUPRIN	VON

<u>GROUP 01 – (EACH OPENING TO HAVE):</u> DOOR: 316.1, 316.2, 330.1, 300.2, 338.1 SINGLE DOOR, INTERIOR, NEW PASSAGE LEVER

QUANT	DESCRIPTION	MANUFACTURER'S NUMBER	FINISH	MANUF
3 EA.	HINGE	5BB1 4.5 X 4.5	652	IVE
1 EA.	PASSAGE SET	L9010 17A	626	SCH
1 EA.	FLOOR STOP	FS439	682	IVE

<u>GROUP 02 – (EACH OPENING TO HAVE):</u> DOOR: 311.1, 324.1, 326.1, 323.1, 344.1 SINGLE DOOR, INTERIOR, NEW CARD READER

QUANT	DESCRIPTION	MANUFACTURER'S NUMBER	FINISI	H MANUF
2 EA.	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA.	ELECTRIC HW HINGE	5BB1HW 4.5 X 4.5 TW8	652	IVE
1 EA.	EU MORTISE LOCK	RX-L9092TEU 17A	626	SCH
1 EA.	PRIMUS CORE	20-740	626	SCH
I EA.	PRIMUS CORE	20-740	626	SCH

June 26, 2018

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1 EA.	SURFACE CLOSER	4111 EDA	689	LCN
1 EA.	WALL STOP	WS407CCV	630	IVE
1 EA.	GASKETING	188S-CL	S-CL	ZER

CARD READER, DOOR CONTACT & WIRING FURNISHED BY ACCESS CONTROL SUPPLIER

GROUP 03 – (EACH OPENING TO HAVE): DOOR: 301.1, 310.1
SINGLE DOOR INTERIOR NEW PASSAGE LEVER + CARD READER

QUANT	DESCRIPTION	MANUFACTURER'S NUMBER	FINISH	MANUF
3 EA.	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA.	ELECTRIC HW HINGE	5BB1HW 4.5 X 4.5 5BB1HW 4.5 X 4.5 TW8	652	IVE
1 EA.	EU MORTISE LOCK	RX-L9092TEU 17A	626	SCH
1 EA.	PRIMUS CORE	20-740	626	SCH
1 EA.	SURFACE CLOSER	4111 EDA	689	LCN
1 EA.	WALL STOP	WS407CCV	630	IVE
1 EA.	GASKETING	188S-CL	S-CL	ZER

CARD READER, DOOR CONTACT & WIRING FURNISHED BY ACCESS CONTROL SUPPLIER

GROUP 04 - (EACH OPENING TO HAVE	E): DOOR: 353.3, 353.4
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SINGLE DOOR, INTERIOR, NEW HOLD OPEN ONLY

QUANT	DESCRIPTION	MANUFACTURER'S NUMBER	FINISH	MANUF
1 EA.	HOLD OPEN	SEM7480 AL	689	LCN

<u>GROUP 05 – (EACH OPENING TO HAVE):</u> DOOR: 316.1, 316.2, 330.1, 330.2, 338.1, 338.2, **S31.1**, **S3-**2.1, 353.3, 353.4

SINGLE DOOR, INTERIOR, NEW PANIC HARDWARE

QUANT	DESCRIPTION	MANUFACTURER'S NUMBER	FINISH	MANUF
2 EA.	HW HINGE	5BB1HW 4.5 X 4.5	652	IVE
1 EA.	ELECTRIC HW HINGE	5BB1HW 4.5 X 4.5 TW8	652	IVE
1 EA.	EXIT DEVICE	TBD		

OTHER ACCESSORIES TBD TO COMPLETE THIS ASSEMBLY

END OF SECTION

ASSIGNMENT OF WORK AGREEMENT

TITLE AND LOCATION OF THE WORK:

Kollligian Library 3W Renovation

Project No. 908074

Electrical / Data / AV Design Completion &

Project No.: 908074

Installation

NAME AND ADDRESS OF THE UNIVERSITY FACILITY:

The Regents of the University of California Oakland CA 94612

NAME AND ADDRESS OF THE EXECUTIVE DESIGN PROFESSIONAL:

Paul Halajian Architects 389 Clovis Ave., Suite 100 Clovis CA 93612

NAME AND ADDRESS OF THE CONTRACTOR:

ASSIGNMENT OF WORK AGREEMENT

THIS AGREEMENT, made and entered onto this { } day of { }, 20{ } by {CONTRACTOR}, a {LEGAL ENTITY}, hereafter referred to as "Contractor," and THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, a California corporation, hereinafter referred to as "University."

RECITALS

- On May 17, 2018, University tendered to Mann Electric, a Corporation, hereinafter referred to as Subcontractor, a construction contract for electrical, data and AV, for, Kolligian Library 3W Renovation which was executed by Subcontractor on May 17, 2018. A copy of the foregoing Kolligian Library 3W Renovation is attached hereto as EXHIBIT "A" and shall be incorporated herein by reference; and
- 2. On May 17, 2018, University and Contractor entered into a construction contract for electrical, data and AV, Kolligian Library 3W Renovation; and
- 3. Said contract required the Contractor to accept an assignment of the University's rights, duties, and obligations under the Kolligian Library 3W Renovation.

NOW, THEREFORE, in consideration of the promises and acts contained therein, the parties agree with each other as follows:

KOLLIGIAN LIBRARY 3W RENOVATION UNIVERSITY OF CALIFORNIA, MERCED MERCED, CALIFORNIA

- 1. Contractor hereby assumes responsibility for and agrees to perform all the duties of University under the Kollligian Library 3W Renovation attached as EXHIBIT "A."
- 2. University hereby assigns and transfers to Contractor all of its rights under said Kollligian Library 3W Renovation including all liabilities and responsibilities of any kind to University which may have existed, exist, or may arise under said Kollligian Library 3W Renovation. Contractor accepts all liabilities and obligations.

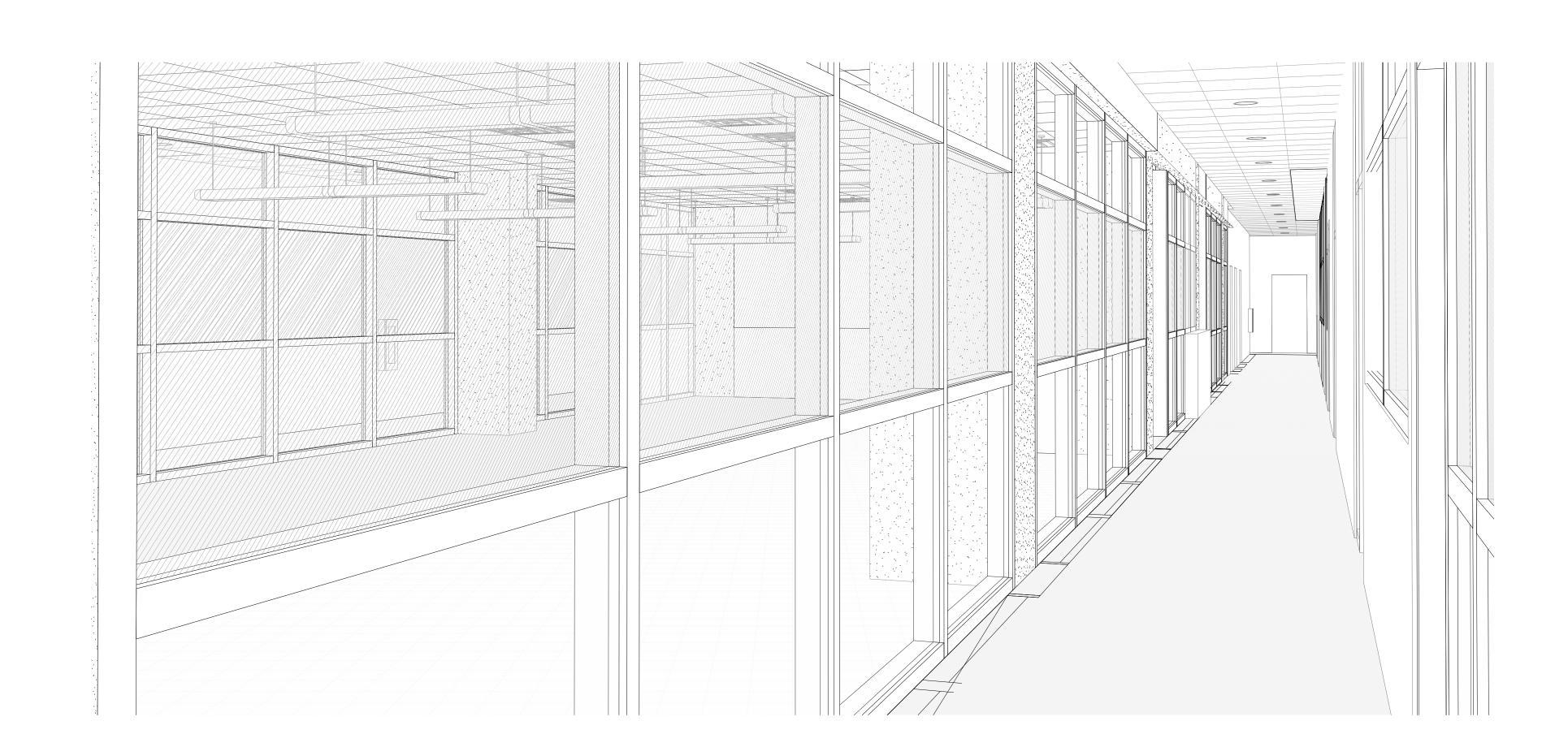
IN WITNESS WHEREOF, the parties have executed this Agreement the day and year first above written.

UNIVERSITY		
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA		
By: Michael McLeod		
Vice Chancellor/Chief Operating Officer		
Signatura	Date	
Signature	Date	
CONTRACTOR		
{CONTRACTOR NAME}		
By: {Name}		
{Title}		
Signature	Date	

New Project Description for:

UC Merced Kolligian Library 3W Renovation

5200 Lake Road, Merced, CA 95343



Sheet Index

A901 Details A902 Details A903 AV/Technology AV001 Audio Visual Information Mechanical M200 Demo Floor Plan M201 Proposed Floor Plan

Mechanical Specifications

Project Information

SITE INFORMATION

5200 Lake Road Merced, CA 95343

Existing Zoning: A-2 Exclusive Agricultural

16,359 s.f.

BUILDING INFORMATION Construction Type:

Project Area:

DESCRIPTION OF WORK

Scope of work includes minor demolition of walls, doors and finishes. New work includes new suspended acoustic ceilings, walls, storefront, doors, and finishes. Electrical and mechanical work are also included in this scope - refer to forthcoming Electrical drawings for Electrical scope. No structural or site work is included. Fire sprinklers are a deferred approval.

GOVERNING CODES

2016 California Administrative Code (Part 1 of Title 24, CCR) 2016 California Building Code (Part 2 of Title 24, CCR) 2016 California Electrical Code (Part 3 of Title 24, CCR)

2016 California Mechanical Code (Part 4 of Title 24, CCR) 2016 California Plumbing Code (Part 5 of Title 24, CCR) 2016 California Energy Code (Part 6 of Title 24, CCR)

2016 California Fire Code (Part 9 of Title 24, CCR) 2016 California Green Building Standards Code (CALGreen) 2016 California Referenced Standards Code (Part 12 OF Title 24, CCR) California Code Of Regulations, Title 19, Public Safety 2013 NFPA 13 - National Fire Sprinkler Code 2013 NFPA 72 - National Fire Alarm Code

ASHRAE Indoor Air Quality Standard 62-1989

DEFERRED APPROVALS

Submit complete Fire Sprinkler plans (per NFPA 13) to the DCFM Designated . Campus Fire Marshal for approval prior to any installation or modification. Submit complete Fire Alarm plans (per NFPA 72) to the DCFM Designated Campus Fire Marshal for approval prior to any installation or modification

Project Directory

OWNER: UC Merced 5200 Lake Road Merced, CA 95343 (209) 201-8174

Contact: Fran Telechea

Paul Halajian Architects 389 Clovis Ave., Suite 100 Clovis, CA 93612 559-297-7900 Contact: Stephanie Reed

ARCHITECT:

MECHANICAL ENGINEER: JNL Mechanical Design

(559) 233-4138 Contact: Joelon Chinn

PAUL HALAJIAN

ARCHITECTS

DR	DRAWING SET INFORMATION:						
0	07.10.2018 Bid Set						
RE	VISIONS:						
1	07.20.2018	Addendum #1					

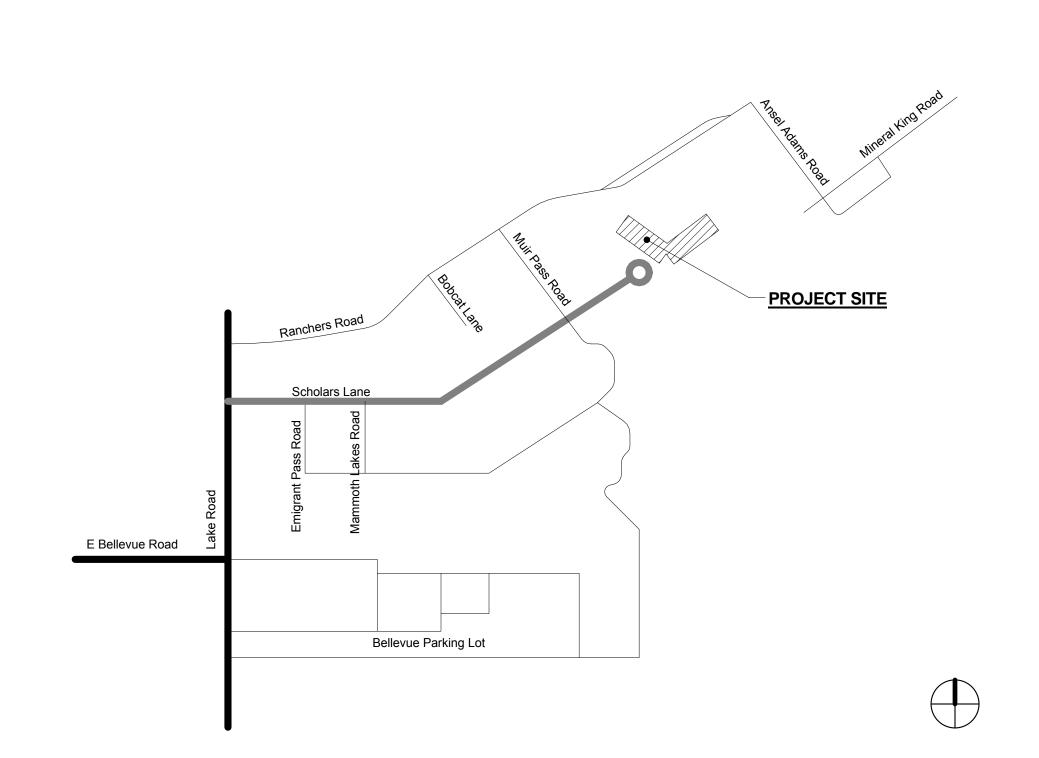
PROJECT NUMBER:

SHEET NUMBER:

G000

2018-18

Vicinity Map



Inspections

1) All materials delivered to the project shall be inspected prior to use on the

2) Inspection of rough framing, electrical, mechanical, drywall required prior to covering

3) All inspection requests shall be scheduled on the inspection calendar.

4) Inspections shall be scheduled 24 hours prior to the date of inspection. 5) Special inspections shall be scheduled 48 hours prior to the date of the inspection.

Torque testing required for any anchors into the concrete floors or ceilings. Inspector shall witness torque test.

Deferred Approvals

Fire sprinklers are a deferred approval item. Fire alarm systems are a deferred approval item.

Architect's Statement

License #: C-020194

Expiration: April 30th, 2019

The drawings &/or specifications &/or calculations for the disciplines listed have been prepared by other design professionals or consultants who are licensed &/or authorized to prepare such drawings in this state. These documents have been examined by me for design intent & have been found to meet the appropriate requirements of Title 24, California Code of Regulations & the project specifications prepared by me.

The following disciplines' work has been coordinated with my plans & specifications & is acceptable for incorporation into the construction of this project for which I am the individual designated to be in general responsible charge, (or for which I have been delegated responsibility for this portion of work): Civil, Landscape, Structural, Plumbing, Mechanical,

DATE

ARCHITECT'S SIGNATURE Paul Halajian Architect/Principal; Paul Halajian Architects

Abbreviations

High Way

Information

Insulation

Interior

Janitor

Joint

Kitchen

Knock Out

Laminate

Lavatory

Lag Bolt

Lineal Foot

Left Hand

Machine Bolt

Manufacturer

Miscellaneous

Not In Contract

Noise Reduction Coefficient

Outside Diameter/ Dimension

OFCI Owner Furnished, Contr. Installed

OFOI Owner Furnished, Owner Installed

Plywood Boundary Nailing

Pounds Per Square Foot

Pounds Per Square Inch

Radius/Thermal Resistance

Paper Towel Disp.

PTDF Pressure Treated Douglas Fir

Polyvinyl Chloride

Plywood Edge Nailing

Plywood Edge Screws

Post Indicator Valve

Masonry Opening

Manhole

Minimum

Mounted

Meeting

Mullion

Number

Nominal

Not To Scale

OFRD Overflow Roof Drain

OHCD Overhead Coiling Door

OHMS Oval Head Mach. Screw

OHWS Oval Head Wood Screw

On Center

Office

OH Opposite Hand

Opng. Opening

Opp. Opposite

Ovhd. Overhead

Orig.

PBN

PEN

PES

Plas.

PSF

PSI

PTD

PVC

Refl.

Refr.

Reqd.

Rm.

RWL

SA SC

SD

SF

Sch.

Sect.

Shtg.

SM

Spkr.

Sq. SS

Sta.

STC

Std.

Stor.

SW

T&G

Thk.

Stl.

Pt.

Over

Original

OWJ Open Web Joist

P. Lam. Plastic Laminate

Plate

Plaster

Point

Partition

Return Air

Reflected

Remove

Required

Right Hand

RHWS Round Head Wood Screw

Rain Water Leader

Rough Opening

Redwood

Reinf. Reinforced

Resil. Resilient

Room

ROW Right-Of-Way

South

Supply Air

Solid Core

Schedule

Section

Shower

Similar

SOG Slab-On-Grade

Spec(s). Specification(S)

Speaker

Square

Station

Steel

Struct. Structural

Susp. Suspended

Storage

Side Walk

Temporary

Tempered

Threaded

Thick

Tongue And Groove

Symmetrical TOC Top of Concrete

Standard

Stainless Steel

Sound Transmission Class

Sheathing

Sheet Metal

Storm Drain

Square Feet/Foot

Refrigerator

Plywd. Plywood

Property Line

North

Marker

MBM Metal Building Manufacturer

Library

Light

Lt. Wt. Light Weight

Maint. Maintenance

Mach. Machine

Max. Maximum

Mech. Mechanical

Memb. Membrane

Metal

Med. Medium

Knock Out Panel

Pound (Pounds)

Inside Diameter/Dimension

ID Î

Info.

Insul.

Jan.

KO

KOP

Lam.

Lb(s)

LB

LH

Lib.

Met.

Mfr.

Mkr.

Min.

Misc. MO

Mtd.

Mtg. Mull.

NIC

NRC

NTS

OC

OD Off.

No.

And Angle Centerline Diameter/Round Perpendicular Pound/Number Existing Above Abv. A/C Air Conditioning ACP Asphalt Concrete Paving Acst. Acoustic(al) ACT Acoustic Ceiling Tile Anchor Bolt Americans with Disabilities Act ADAAG ADA Accessible Guidelines Addl. Additional Adj. Adjustable Adjacent Above Finish Floor AFG Above Finish Grade Agg. Alt. Aggregate Alternate Alum. Aluminum Anod. Anodized Acoustic Panel Ceiling Approx. Approximate Arch. Architect(ural) A/V Audio/Visual Board Bel. Below Bldg. Blk. Building Block Blkg. Bm. Bot. Blocking Beam Bottom Brg. Btwn. BUR Bearing Between Built-Up Roof(ing) C&G Curb and Gutter Cab. CB Cabinet Carriage Bolt Cem. Cement Cer. CF Ceramic Cubic Foot CFM **Cubic Foot per Minute** Cast Iron Construction Joint Center Line CLF Chain Link Fence Clg. Clo. Clr. Closet Clear Clrm. CMU Classroom Concrete Masonry Unit Ctr. Counter Col. Column Conc. Concrete Conn. Connection Constr. Construction Cont. Continuous Contr. Contractor Cpt. CRC Carpet Cold Rolled Channel Ctr. Center Ctsk. Countersunk Cubic Yard Dbl. Double Demolish/Demolition Drinking Fountain/ Douglas Fir Diag. Dia. Dim. Disp. Dn. Diagonal Diameter Dimension Dispenser Down Deep Dp. Down Spout Dwr. Drawer East Exhaust Fan Engr. Engineer **Expansion Joint** Elevation Elec. Electric(al) Elev. Elevator Emb. Embedment Emer. Emergency ΕN Edge Nailing Encl. Enclosure Eq. Equal Equip. Equipment Evap. Evaporative EW Each Way Exh. Exhaust Exst. Existing Exp. Expansion Ext. Exterior FA Fire Alarm Flat Bar FBO Furnished By Owner/Others Floor Drain FDC Fire Department Connection Fire Extinguisher Fire Extinguisher Cabinet Factory Finish/Finish Floor Finish Grade Fire Hydrant FHMS Flat Head Machine Screw FHWS Flat Head Wood Screw Fin. Finish Fixt. Fixture Flr. Floor(ing) Flash. Flashing Fluor. Fluorescent FO Face Of FOC Face of Concrete FOF Face of Finish FOM Face of Masonry FOS Face of Stud FRP FS Fire Sprinkler(s) Fire Sprinkler Head Foot/Feet Furr. Furring Fut. Future Gauge Galv. Galvanized Grab Bar General Contractor Gen. General GSM **Galvanized Sheet Metal** Gr. Grade Gypsum Hose Bibb Hbd. Hardboard

Fiberglass Reinforced Paneling HC Hollow Core Head HD Heavy Duty Hdr. Header Hdw. Hardware Hardwood HM Hollow Metal HMD Hollow Metal Door Hollow Metal Frame Horiz. Horizontal Hour Hr. Height

Tenant Improvement Tk. Bd. Tack Board TOS Top of Steel TOP Top of Pavement TS Tube Steel Telephone Telephone Terminal Back Board TV Television Typical Underground Unless Noted Otherwise VCT Vinyl Composition Tile Vert. Vertical Vent to Roof VWC Vinyl Wall Covering West/Width/Wide With Wd. Wood Wdw. WP WS Weight Xfmr.

Water Closet Window Wide Flange Water Heater Without Waterproof Wood Screw Welded Wire Fabric

Transformer Abbreviations, when used in these documents, shall conform to the following list unless otherwise noted. Drawings of other disciplines (such as civil, structural, plumbing, mechanical, and electrical) may contain specific abbreviations, references, and legends with interpretation intended only for those

Drawing Organization

The organization of these drawings is not intended to control the division of work among subcontractors. It shall be the General Contractor's responsibility to divide the work. HVAC Heating, Ventilating, Air Conditioning

> The drawings cover most of the construction conditions. If another condition is discovered during construction, the Contractor shall submit a sketch of the work to be done to the Architect for

Copies of these drawings are supplied to the Owner, and the Contractor for use in the construction of this project only. The drawings are not to be reproduced, changed, or copied in any form or manner whatsoever, nor are they to be assigned to a third party without first obtaining the written permission of Paul Halajian Architects. All drawings prepared by Paul Halajian Architects are and shall remain the property of Paul Halajian Architects.

Title 24 Compliance Notes

- 1. Insulation shall be certified by the manufacturer to comply with the California quality standards for insulation material.
- 2. Insulation shall have a flame spread rating not to exceed 25 & a smoke density not to exceed
- 3. Doors & windows between conditioned & unconditioned spaces shall be weatherstripped.
- 4. Manufactured doors & windows shall have air-conditioned rates certified by the manufacturer as not exceeding the following a. Windows: 0.37 CFM/ft. of operable sash crack b. Doors: 0.37 CFM/sq. ft. of Single door area, 1.0 CFM/sq. ft. of Double door area
- 5. Site-constructed doors & windows, exterior joints & openings in the building envelope that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.

General Notes

Unless otherwise indicated, all work shall be in strict accordance with all codes adopted & amended by the governing authority. All hardware to meet function specified & Title 24 accessibility requirements; all door handles

shall be lever type, except where panic hardware read.; see door schedule & floor plans. Unless otherwise indicated, all dimensions are indicated to the face of stud walls, plywood shtg., concrete, or concrete masonry. Wall & ceiling finish: class c: flame spread 76-200; smoke developed 0-450 for rooms and

enclosed spaces. Contractor shall visit the job site & familiarize him/herself w/ all conditions which may have an effect on his/her work. Any discrepancies between the drawings & the actual conditions shall be immediately brought to the attention of the Architect.

6. This building shall conform to all state requirements for accessibility. All doors shall have Verify that max. cross slope of all landings, ramps, &/or walks to be 1/4" per foot. Verify that approved 6"x6" accessibility symbol is posted at primary entrance to building; see detail 16/A901. If not provided or compliant, provide per detail 16/A901.

Glass subject to human impact shall be safety glazing & meet state and federal requirements; see door schedule sheet A702. 10. Drawings are not to be scaled for any reason. Dimensions shall govern. 1. Take field measurements as required. Discrepancies between drawings & field dimensions

shall be reported to Architect prior to fabrication. 12. Provide the following joint sealants at interior joints in vertical surfaces and horizontal nontraffic surfaces as indicated below: a) Perimeter joints between interior wall surfaces and frames of interior doors and windows b) Perimeter joints of plumbing fixtures c) Perimeter of sound walls & penetrations through sound walls. d) Perimeter of penetrations through all surfaces where required to close gaps between surfaces e) Other joints indicated -- See

Specification section 07 21 00 for more information. 13. Provide attachment & connection devices & method necessary for securing work. 14. Visual effects: Provide uniform joint widths in exposed work. Arrange joints in exposed work to obtain the best visual effect. Refer joint layouts to the Architect for final decision. 15. Where mounting heights are not indicated, install individual components at standard mounting

questionable mounting height decisions to the Architect for final decision. 16. For typical mounting heights of switches and outlets; see detail 20/A901. 17. Flame spread & smoke density of insul. to be installed shall not exceed the requirements

heights recognized within the industry for the particular application indicated. Refer

described in Title 24 Compliance Notes. 18. See specifications for material grades.

19. It shall be the responsibility of the Contractor to notify the Architect of any conflicts herein prior to start of work on that item. Threshold at entry doors & change of flooring material shall have 1/2" max. Offset from

lowest floor finish matl. to highest projection of threshold. Offsets greater than 1/4" require a max. beveled slope of 1 unit vertical to 2 units horizontal, except that level changes not exceeding 1/4" may be vertical. Offset changes in elevation less than 12" along exits shall be by means of an approved ramp. (CBC 1008.1.6) 21. Where no specific detail is shown, the construction shall be identical or similar to that

indicated for similar construction on the project. 22. Where no specific standards are applied to a material or method of construction to be used in the work, all such materials & methods are to maintain standards of the industry. 23. Materials, equip., etc. not indicated on drawings or specified herein but essential to the

successful & efficient completion of the installation shall be furnished & installed. 24. Examine substrates & other conditions under finish materials for compliance w/ requirements for application of finish material. Do not begin application until unsatisfactory conditions have been corrected.

25. Building designed to support mechanical equip., ceilings, insulation & light fixtures. 26. Manufacturer's instruction: comply w/ manufacturer's written installation instructions & recommendations to the extent that those instructions & recommendations are more explicit or stringent than requirements contained in contract documents. 27. Obtain each classification of work from a single source as required in specifications.

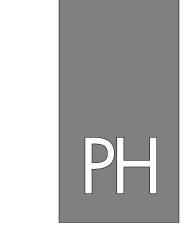
32. Provide all-weather access to all areas of the development during all phases of the

28. These plans & related documents must be available at the job site during any inspection 29. All decorations used shall be non-combustible or have a flame spread rating that meets or exceeds California Building Code requirements.

30. Provide type 2A fire extinguishers per IFC and NFPA 10; see floor plan for locations. 31. Provide anchorage backing per detail 3/A901 for all accessories and fixtures, including, but not limited to TV's, artwork, and wall-mounted equipment.

33. Primary entrances shall be operable from inside without the use of a key or any special knowledge or effort. 34. The approval of these plans & specifications does not permit the violation of any section of

the building code, municipal ordinances, or state laws. 35. Match existing finishes to the maximum extent feasible. If products specified in these drawings or specifications do not match existing adjacent products, submit an alternate to



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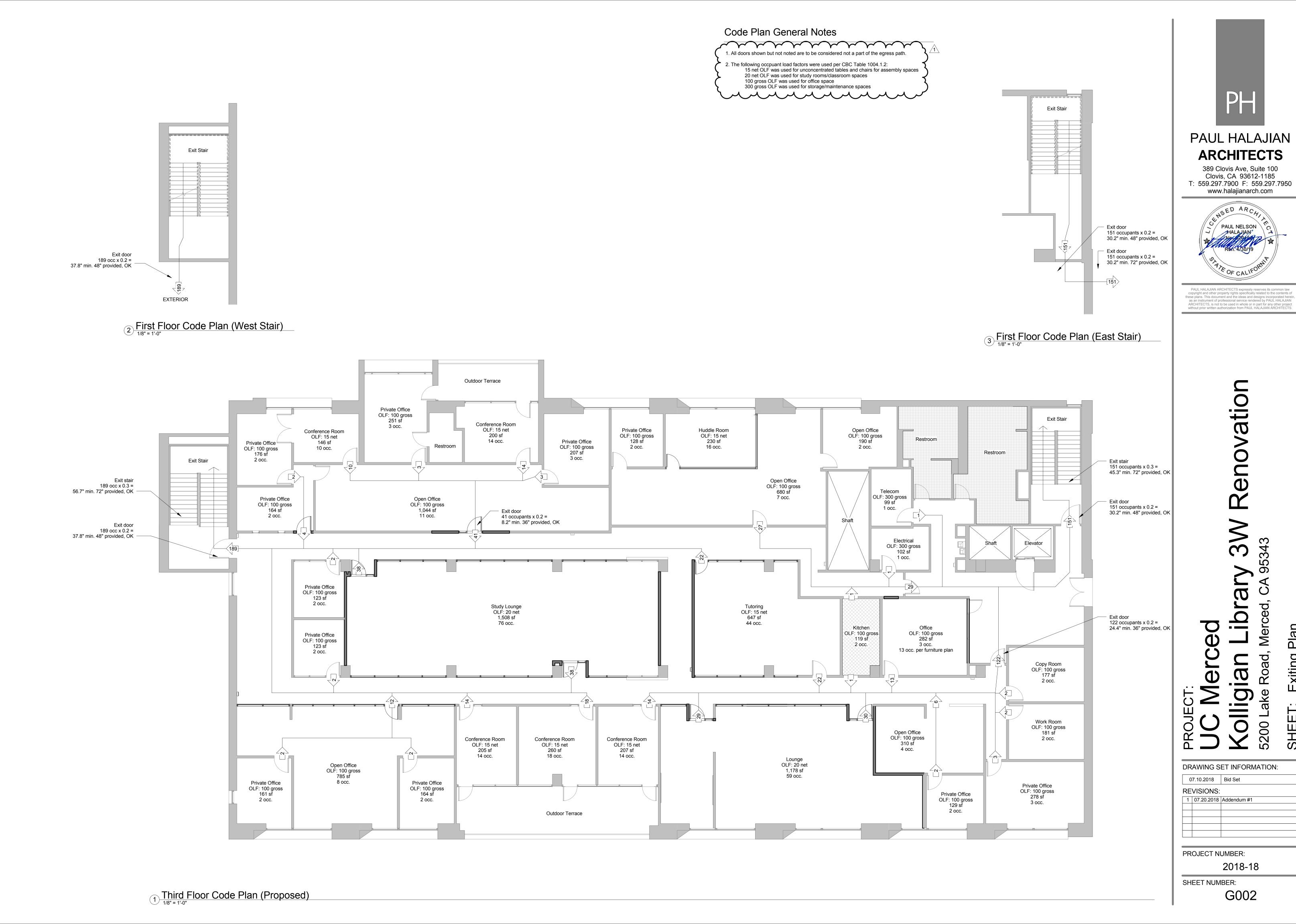
Note

	DRAWING SET INFORMATION:					
	0	7.10.2018	Bid Set			
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PROJECT NUMBER: 2018-18

SHEET NUMBER:

G001



Plan

Exiting

SHEET:

CGBSC 5.408 - CONSTRUCTION WASTE DIVERSION

1. PER CGBSC SECTION 5.408.1, CONTRACTOR SHALL RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65% OF THE NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS IN ACCORDANCE TO 5.408.1.1, 5.408.1.2, OR 5.408.1.3.

2. PER CBC SECTION 5.408.1.1, CONTRACTOR SHALL SUBMIT A WASTE MANAGEMENT PLAN THAT PROVIDES THE FOLLOWING WORK:

A. IDENTIFY THE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.

B. DETERMINE IF MATERIALS WILL BE SORTED ON-SITE OR MIXED.

C. IDENTIFIES DIVERSION FACILITIES WHERE MATERIAL COLLECTED WILL BE

D. SPECIFIES THAT THE AMOUNT OF MATERIALS DIVERTED SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BY BOTH.

3. PER CBC SECTION 5.408.1.2, CONTRACTOR SHALL UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION MATERIAL DIVERTED FROM THE LANDFILL COMPLIES WITH THIS SECTION.

4. PER CGBSC SECTION 5.408.1.4, CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENFORCING AGENCY WHICH DEMONSTRATE COMPLIANCE WITH 5.408.1.1 THROUGH 408.1.3. WASTE MANAGEMENT PLAN SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY.

CGBSC 5.410 - BUILDING MAINTENANCE AND OPERATION:

1. PER CGBSC SECTION 5.410.1, OWNER SHALL PROVIDE A READILY ACCESSIBLE AREA THAT SERVES THE ENTIRE BUILDING AND IS IDENTIFIED FOR THE DEPOSITING, STORAGE AND COLLECTION OF NON-HAZARDOUS MATERIALS FOR RECYCLING. INCLUDING PAPER, CORRUGATED CARDBOARD, GLASS, PLASTICS AND METALS

2. PER CGBSC SECTION 5.410.4, TESTING AND ADJUSTING SHALL BE PROVIDED AS PART OF THE SCOPE OF THIS WORK BY THE CONTRACTOR OR CONTRACTORS AGENT. COPY OF REPORT SHALL BE PROVIDED TO OWNER OR ARCHITECT.

3. PER CGBSC SECTION 5.410.4.2. A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS SHALL BE PROVIDED TO OWNER AND ARCHITECT.

4. PER CGBSC SECTION 5.410.4.3. IN ADDITION TO TESTING AND ADJUSTING. HVAC BALANCING SHALL ALSO BE PROVIDED AS PART OF THE SCOPE OF THIS WORK BY THE CONTRACTOR OR CONTRACTORS AGENT. COPY OF REPORT SHALL BE PROVIDED TO OWNER OR ARCHITECT.

5. PER CGBSC SECTION 5.410.4.5, CONTRACTOR SHALL PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS.

6. PER CGBSC SECTION 5.410.4.5.1, CONTRACTOR SHALL INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.

CGBSC 5.504 - POLLUTION CONTROL:

1. PER CGBSC SECTION 5.504.1.3, CONTRACTOR TO ENSURE THAT THE PERMANENT HVAC SYSTEM SHALL ONLY BE USED DURING CONSTRUCTION IF NECESSARY TO CONDITION THE BUILDING WITHIN THE REQUIRED TEMPERATURE RANGE FOR MATERIAL AND EQUIPMENT INSTALLATION. IF THE HVAC SYSTEM IS USED DURING CONSTRUCTION, USE RETURN AIR FILTERS WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8, BASED ON ASHRAE 52.2 1999, OR AN AVERAGE EFFICIENCY OF 30% BASED ON ASHRAE 52.1 1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.

2. PER CGBSC SECTION 5.504.3, CONTRACTOR SHALL ENSURE THAT AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCT THE AMOUNT OF DUST WHICH MAY COLLECT IN THE SYSTEM.

3. PER CGBSC SECTION 5.504.4, CONTRACTOR THE ENSURE THAT ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS:

A. ADHESIVES, ADHESIVE BONDING PRIMERS ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1 AND 5.504.4.2. SUCH PRODUCTS ALSO SHALL COMPLY WITH RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOOETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AERSOL PRODUCTS AS SPECIFIED IN SUBSECTION 2, BELOW.

B. AERSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNIT OR PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGHT MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH

CGBSC - POLLUTION CONTROL:

SEALANT VOC LIMIT
LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER

REFERENCE: 2016 CGBSC TABLE 5.504.4.2

SEALANTS ARCHITECTURAL **CURRENT VOC LIMIT** MARINE DECK NONMEMBRANE ROOF 300 **ROADWAY** 250 SINGLE-PLY ROOF MEMBRANE 450 OTHER 420 SEALANT PRIMERS ARCHITECTURAL NONPOROUS POROUS MODIFIED BITUMINOUS MARINE DECK OTHER

8. PER CGBSC SECTION 5.504.4.3, ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 1 OF THE ARB ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, AS SHOWN IN TABLE 5.504.4.1, UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATING THAT DO NOT MEET WITH DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 5.504.4.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT, OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36 AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 5.504.4.3 SHALL APPLY.

9. PER CGBSC SECTION 5.504.4.3.1. AEROSOL PAINTS AND COATINGS SHALL MEET THE PWMIR LIMITS FOR ROC IN SECTION 94522(a)(3) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(c)(2) AND (d)(2) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

10. PER CGBSC SECTION 5.504.4.3.2, CONTRACTOR SHALL PROVIDE VERIFICATION OF COMPLIANCE WITH THIS SECTION AT THE REQUEST OF THE ENFORCING AGENCY. DOCUMENTATION MAY INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING:

A. MANUFACTURER'S PRODUCT SPECIFICATIONS B. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS\

11. PER CGBSC SECTION 5.504.4.4, CONTRACTOR TO ENSURE THAT ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:

A. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM B. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD PRACTICE FOR

TESTING OF VOC'S (SPECIFICATION 01350) C. CNSF/ANSI 140 AT THE GOLD LEVEL

D. SCIENTIFIC CERTIFICATIONS SYSTEMS SUSTAINABLE CHOICE

CARPET CUSHIONS: ALL CARPET CUSHIONS INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM

CARPET ADHESIVE: ALL CARPET ADHESIVE SHALL MET THE REQUIREMENTS OF

12. PER CGBSC SECTION 5.504.4.5, CONTRACTOR TO ENSURE THAT HARDWOOD PLYWOOD, PARTICLEBOARD, AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD (17 CCR 93120 et seq.) BY OR BEFORE THE DATES SPECIFIED IN THOSE SECTIONS, AS SHOWN IN TABLE 5.504.4.5

FORMALDEHYDE LIMITS PRODUCT	CURRENT LIN
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
FIBERBOARD MEDIUM DENSITY	0.11
FIBERBOARD	

THIN MEDIUM DENSITY

13. PER CGBSC SECTION 5.504.4.6, CONTRACTOR SHALL ENSURE THAT 80% OF ALL RESILIENT FLOORING INSTALLED (ONLY APPLICABLE AT SOCCER/LACROSS ENTRY VESTIBULE) OR ADDED TO THE SCOPE DURING CONSTRUCTION, SHALL BE CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOOR

0.13

14. PER CGBSC SECTION 5.504.5.3, CONTRACTOR TO ENSURE THAT REGULARLY OCCUPIED AREAS OF THE BUILDING ARE PROVIDED WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8.

15. PER CGBSC SECTION 5.504.7, WHERE OUTDOOR SMOKING AREAS ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS AND IN BUILDINGS; OR AS ENFORCED BY LOCAL ORDINANCES. WHEN ORDINANCES, REGULATIONS OR POLICIES ARE NOT IN PLACE, POST SIGNAGE TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS.

CGBSC 5.508 - OUTDOOR AIR QUALITY:

1. PER CGBSC SECTION 5.508.1, CONTRACTOR TO ENSURE THAT INSTALLATIONS OF HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT SHALL COMPLY WITH THE FOLLOWING:

a) 5.508.1.1 CHLOROFLUOROCARBONS (CFCS.) INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCS.

b) **5.508.1.2 HALONS.** INSTALL HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

CALGreen Non-Residential Mandatory Measures Compliance Checklist

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DIVISION 5.1 - PLANNING AND DESIGN								
Item #	Code Section	Requirement	Design	Permit	Const.	Disc.	Reference	Comments
1.01	5,106,1	Storm Water Pollution Prevention Plan	. 12			4.5		Not Applicable
1.02	20 11110 24 1	Bicycle Parking & Changing Rooms: Short-Term Bicycle Parking	84				82	Not Applicable
1.03	n inn a	Bicycle Parking & Changing Rooms: Long-Term Bicycle Parking	82				82	Not Applicable
1.04	5,106,5,2	Designated Parking	82			7	85	Not Applicable, Project to use existing parking by CSUF
1.05	5,106,5.3	Electric Venicle (EV) Charging	1 82				. 12	Not Applicable, No new electric vehicle charging stations
1.05	5.106.8	Light Pollution Reduction	82			7	12	Not Applicable: No new lights in parking lot.
1.06	5.106.10	Grading & Paving						Not Applicable

DIVISION 5.2 - ENERGY EFFICIENCY								
Item No.	Code Section	Requirement	Design	Permit	Const.	Disc.	Reference	Comments
2.01	5.201.1	Comply with the mandatory building standards adopted by the California Energy Commission and codified in the California Energy Code	x			E	E5.1-5.5	See Title 24 Calcualtions.

	DIVISION 5.3 - WATER EFFICIENCY AND CONSERVATION								
Item No.	Code Section	Requirement	Design	Permit	Const.	Disc.	Reference	Comments	
3.01	5.303, 1.1	Meters: Buildings in Excess of 50,000 S.F.	82					N/A	
3.02	5.303, 1.2	Meters: Excess Consumption	82					N/A	
3.03	#DC-5111.5C50	Plumbing fixtures shall meet the maximum water use per this section.	15			i i		No new plumbing fixtures.	
3.04	5.304.1	Water Budget	J			Į.	-	N/A	
3.05	5.304.2	Outdoor Potable Water Use	(i) C T					No irrigation as part of scope of work.	
3.06	E 304.3	Irrigation Decian						No irrigation ac part of econo of work	

Item No.	Code Section	Requirement	Design	Permit	Const.	Disc.	Reference	Comments
4.01	5.407.1	Weather Protection	39					N/A; (E) building to remain
4.02	5.407.2.1	Moisture Control: Sprinklers	89					N/A; (E) building to remain
4.03	5.407.2.2	Moisture Control: Entries & Openings	- 34					N/A; (E) building to remain
4.04	5.408.1	Construction Waste Management			×	GC	Spec 017419	See specifications for requirements for recycling/reuse of 50% of nonhazardous construction and demolitio materials.
4.05	5.408.1.1	Construction Waste Management Plan			X	GC	Spec 017419	Contractor shall provide a waste management plan at time of permit per G002.
4.06	5.408.1.2	Waste Management Company			×	GC	N/A	Contractor shall utilize a management company that can provide verifiable documentaion of perecutages of construction waste diversion from landfill.
4.07	5.408.1.4	Documentation		i i	X	GC	N/A	Contractor shall provide enforcing agency which demostrates compliance with CGBSC.
4.08	5.408.3	Excavated Soil & Land Clearing Debris	94.	i i	j			N/A; (E) building to remain
4.09	5.410.1	Recycling By Occupants	X					Owner to provide at time of occupancy
4.10	5.410.2	Commissioning	0.	Х	X	All	Spec 019113	308 W 174
4.10a	5.410.2.1	Owner's Project Requirements (OPR)		X		All	Spec 019113	
4.10b	5.410.2.2	Basis of Design (BOD)		X		All	Spec 019113	1920 - 28 - 20 - 28 - 28 - 28 - 28 - 28 -
4.10c	5.410.2.3	Commissioning Plan		X		Сх		Commission Agent to prepare Commissioning Plan
4.10d	5.410.2.4	Functional Performance Testing		Ĭ	X	GC / Cx	3	Commission Agent to verify and document the Documentation and Training
4.10e	5.410.2.5.1	Documentation & Training: Systems Manual		Ĭ	X	GC / Cx	Spec 017900	Commission Agent to verify and document the Documentation and Training
4.10f	5.410.2.5.2	Documentation & Training: Systems Operations Training			X	GC / Cx	Spec 017900	Commission Agent to verify and document the Documentation and Training
4.10g	5,410,2.6	Commissioning Report			X	Сх		
4.11	5.410.4	Testing & Adjusting			X.	GC	Spec 014000	Contractor to provide Testing and Balancing as part of HVAC scope of work.
4.11a	5.410.4.2	Systems			X	GC	Spec 014000	Contractor to provide written testing and adjustment proceedure for HVAC, Lighting, and Water heater.
4.116	5.410.4.3	Procedures			X	GC	Spec 014000	Contractor to perform test and adjustment to manufacturer's specifications.
4.11c	5, 410, 4,3,1	Procedures: HVAC Balancing			Х	GC	Spec 014000	Contractor to test and adjust HVAC balance which complies with TABBNS, NEBBPS, AABCNS or as approved by the enforcing agency.
4.11d	5.410.4.4	Reporting			.X	୍ଟେ	Spec 014000	Final report to be signed by individual responsible to texting.
4.11e	5.410.4.5	Operation & Maintenance Manual			X	GC	Spec 017823	Contractor shall provide detailed O&IM to owner or representative.
4.11f	5.410.4.5.1	Inspections & Reports			X	GC	Spec 014000	Contractor shall provide detailed O&IM to owner or representative.

Item No.	Code Section	Requirement	Design	Permit	Const.	Disc.	Reference	Comments
5.01	5,503.1	Fireplaces	(uto :		- 3)			No fireplaces provided
5.02	5.503, 1, 1	Woodstoves	(uzo :		- 3			No woodstoves provided
5.03	5.504.3	Covering of Duct Openings & Protection of Mechanical Equipment During Construction	Х		х	M/GC	101	Covering of duct openings
5.04	5.504.4	Finish Material Pollutant Control	X		×	A/GC	G003	Refer to specifications for requirements. Actual compliance is Contractor responsibility.
5.04a	5.504.4.1	Adhesives, Sealants, Caulks	X		×	A/GC	G003	
5.04b	5.504.4.3	Paints & Coatings	X		X	A/GC	G003	
5.04c	5,504,4,3,1	Paints & Coatings: Aerosol Paints & Coatings	X		X	A/GC	G003	
5.04d	5,504,4,3,2	Paints & Coatings: Verification	X		X	A/GC	G003	
5.04e	5.504.4.4	Carpet Systems	X		X	A/GC	G003	
5.04f	5,504,4,4,1	Carpet Systems: Carpet Cushion	X		X	A/GC	G003	
5.04g	5,504,4,4,2	Carpet Systems: Carpet Adhesive	X		X	A/GC	G003	
5.04h	5.504.4.5	Composite Wood Products	X		X	A/GC	G003	
5.04	5.504.4.6	Resilient Flooring Systems	X		X	A/GC	G003	
5.05	5.504.5.3	Filters	(e :		£ 35	1 100	100	
5.06	5.504.7	Environmental Tobacco Smoke (ETS) Control	(e :		- 3	1		
5.07	5.505.1	Indoor Moisture Control	(e =		- 3	1		
5.08	5.506.1	Outside Air Delivery	(e-		- 3	1 150	10-	
5.09	5.506.2	Carbon Dioxide (CO2) Monitoring			3	1		
5.10	5,507.4.1	A coustical Control: Exterior Noise Transmission			- 3			No new exterior walls or windows as a part of scope of work.
5.11	5,507.4.3	A coustical Control: Interior Sound			- 3	1 100	10-	No new wall partitions separating different tenants.
5.12	5.508.1	Ozone depletion and global warming reductions (no CFCs and Halons)	24					

- Civil Engineer
- Architect
- Plumbing Designer
- Mechanical Engineer Electrical Engineer
- Landscape Designer GC General Contractor
- Cx Commissioning Agent

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DRAWING SET INFORMATION:							
07.10.2018	Bid Set						
REVISIONS:							

PROJECT NUMBER:

SHEET NUMBER:

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2018-18

Keynotes 1 Remove portion of (E) pony wall as needed for new construction, typ. 2 Remove (E) wall, typ. Remove and salvage (E) door from storefront system, typ. 4 (E) Full height storefront wall to remain, typ. 5 (E) wall to remain, typ. Remove (E) door and frame, typ. Remove (E) fire extinguisher, typ. 8 (E) Fire extinguisher cabinet to remain, typ. Remove and salvage (E) door, frame to remain, typ. 10 Remove and salvage (E) card resider for reinstallation, typ. 11 Remove room number/name sign and salvage to Owner, typ. 12 Remove sign and salvage to Owner, typ. 13 Remove signage and salvage to Owner, typ.

General Notes

1) Reinforcing at (E) concrete: Do not cut, drill, or damage any reinforcement in existing concrete walls, floors or roof framing members unless otherwise noted. The contractor shall be responsible to locate existing rebar by scanning or other nondestructive methods as necessary, prior to drilling, coring or anchoring in existing concrete, to avoid damage to the reinforcement.

2) Keynotes apply to this sheet only.

3) All items shown, but not noted are to be considered (E) to remain, typ. u.n.o. 4) Salvage all doors removed as a part of demo phase. Where feasible, reuse these doors in new locations prior to ordering new doors.

5) Remove all door stops within project area. Reuse throughout project area at new doors.

Legend

(E) pony wall to remain (E) full height wall to remain

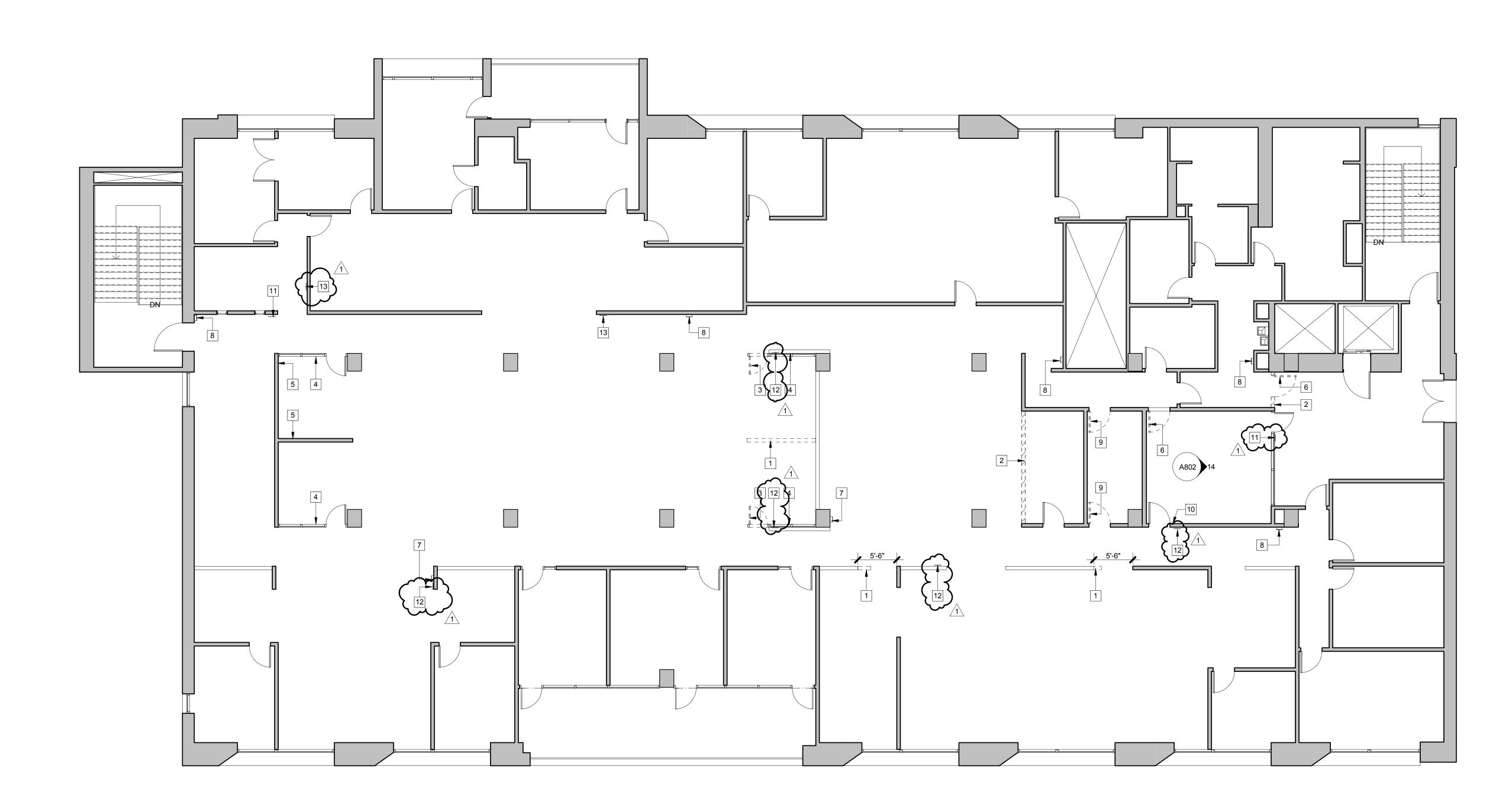
(E) storefront wall to remain

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DRAWING SET INFORMATION: 07.10.2018 Bid Set

REVISIONS: 1 07.20.2018 Addendum #1

PROJECT NUMBER: 2018-18

SHEET NUMBER:

D201

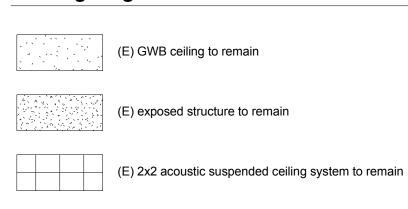
Keynotes

- Remove (E) ceiling tiles and grid as needed for new construction, typ.
- Remove (E) light fixture, typ.
- Remove (E) grille per Mechanical, typ.
- Remove (E) light fixture, typ. Salvage for re-installation. Refer to forthcoming Electrical drawings.

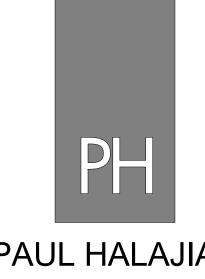
- 1. Reinforcing at (E) concrete: Do not cut, drill, or damage any reinforcement in existing concrete walls, floors or roof framing members unless otherwise noted. The contractor shall be responsible to locate existing rebar by scanning or other nondestructive methods as necessary, prior to drilling, coring or anchoring in
- existing concrete, to avoid damage to the reinforcement. 2. Keynotes apply to this sheet only.
- 3. All items shown, but not noted are to be considered (E) to remain, typ. u.n.o.
- 4. Electrical and Mechanical shown here are for reference only. Refer to that discipline's sheets for more information.

Ceiling Legend

General Notes



Remove (E) 2x2 acoustic suspended ceiling system

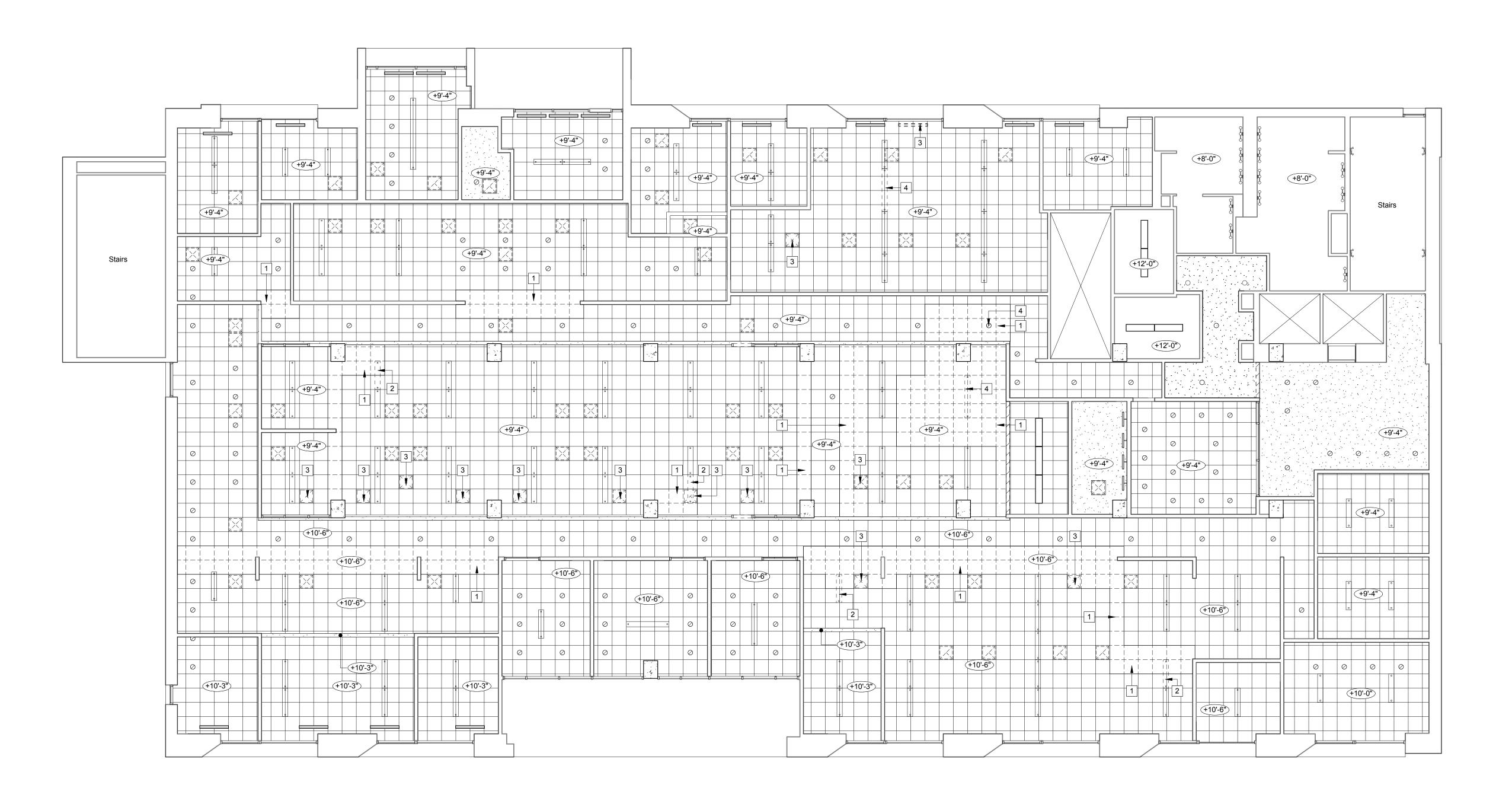


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Ceiling Plan

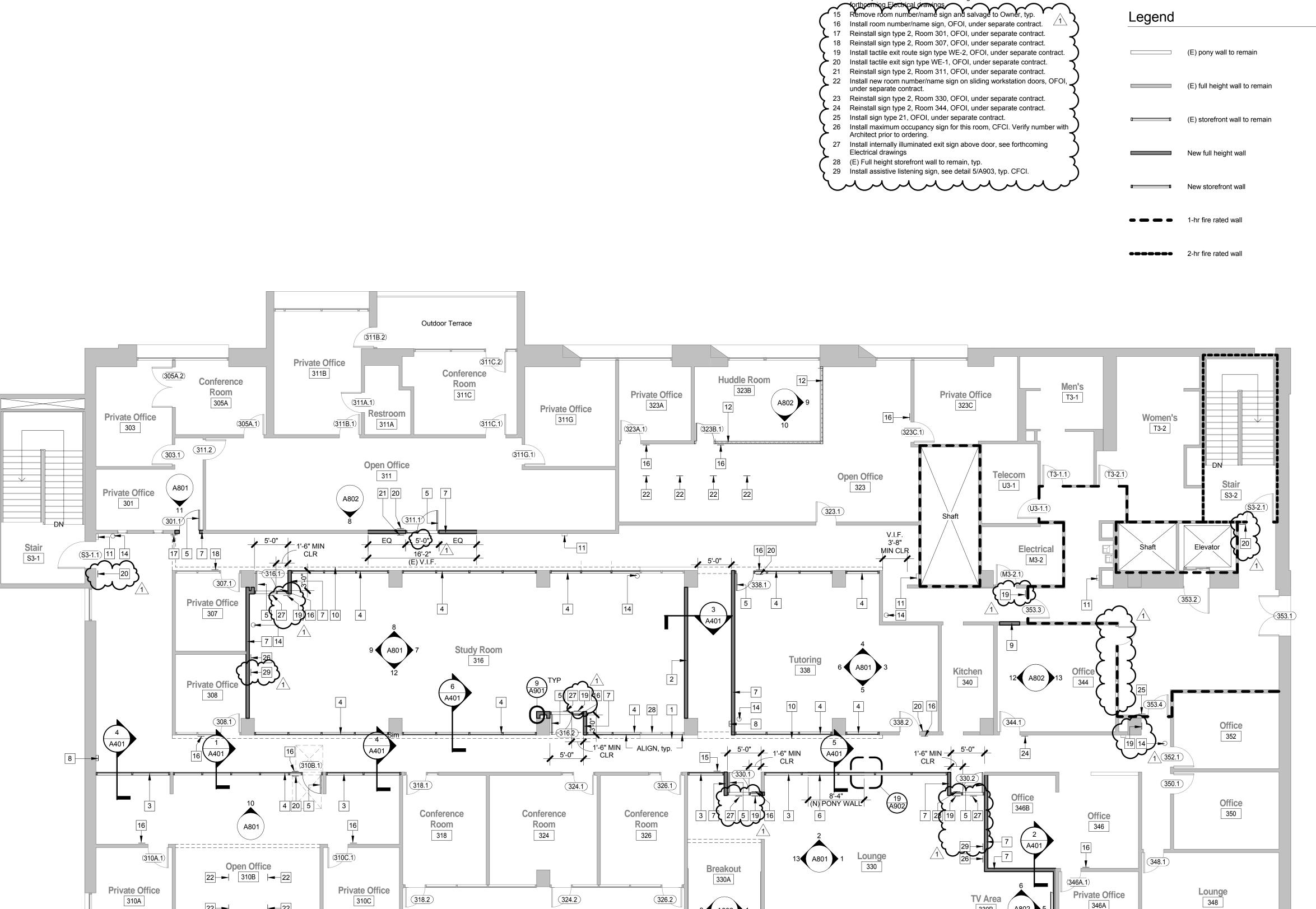
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PROJECT NUMBER:

SHEET NUMBER:

D601

2018-18



326.2

3 **A**802

324.2

Outdoor Terrace

318.2

Keynotes

1 (E) Pony wall to remain, typ.

7 New framed wall, typ.

13 New furred wall, typ.

2 New framed wall on top of (E) pony wall

6 New framed pony wall below storefront

9 Infill framed wall where door was removed

11 (E) Fire extinguisher cabinet to remain, typ.

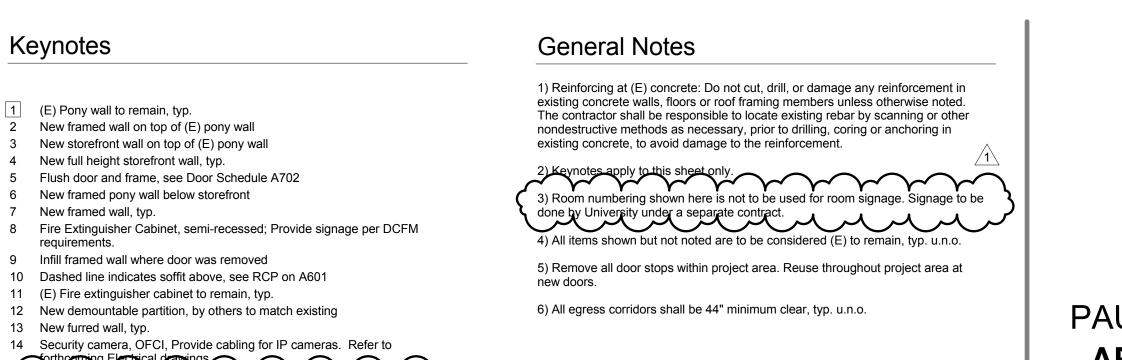
4 New full height storefront wall, typ.

3 New storefront wall on top of (E) pony wall

5 Flush door and frame, see Door Schedule A702

10 Dashed line indicates soffit above, see RCP on A601

12 New demountable partition, by others to match existing



Legend

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novation

Proposed

PROJECT NUMBER:

07.10.2018 Bid Set

1 07.20.2018 Addendum #1

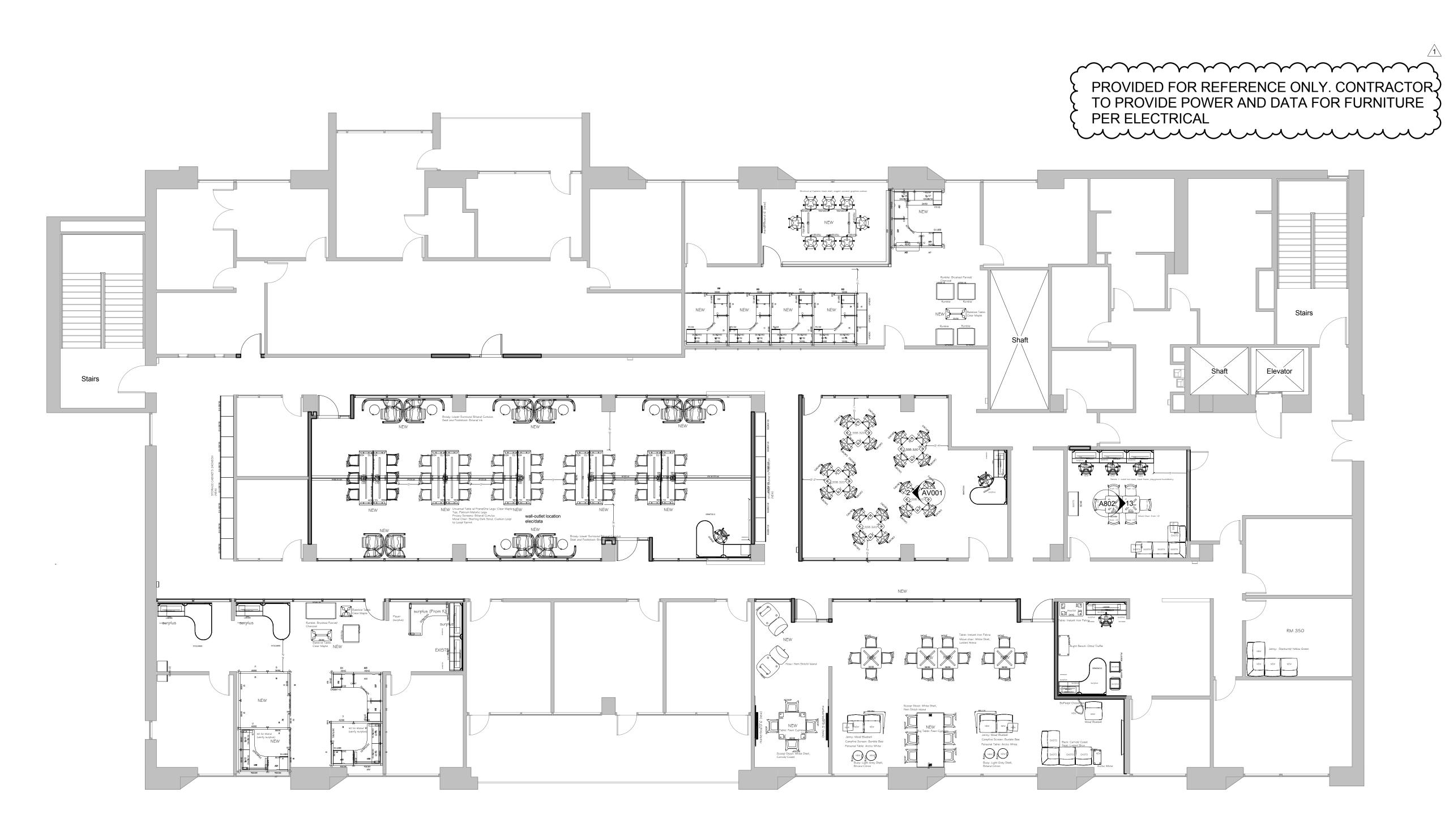
REVISIONS:

DRAWING SET INFORMATION:

2018-18 SHEET NUMBER:

A201

PROJECT NORTH





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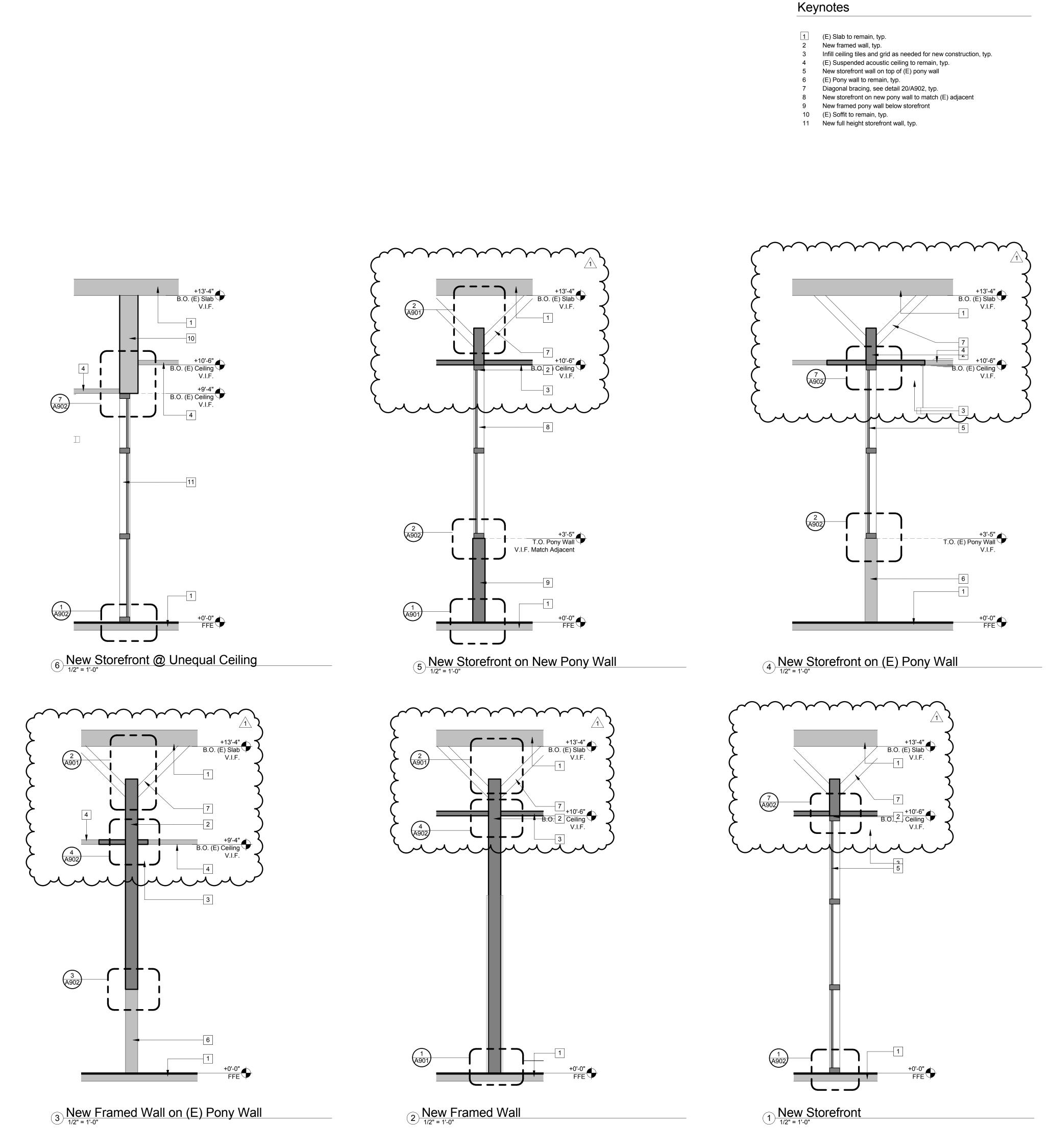
novation

DRAWING SET INFORMATION: 07.10.2018 Bid Set **REVISIONS:** 1 07.20.2018 Addendum #1

PROJECT NUMBER: 2018-18

SHEET NUMBER: A202

1) Floor Plan (Proposed) w/Furniture





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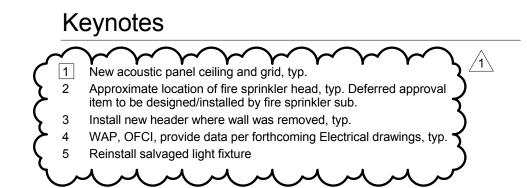
DRAWING SET INFORMATION: 07.10.2018 Bid Set

REVISIONS: 1 07.20.2018 Addendum #1 PROJECT NUMBER:

2018-18

SHEET NUMBER:

A401



General Notes

1. Reinforcing at (E) concrete: Do not cut, drill, or damage any reinforcement in existing concrete walls, floors or roof framing members unless otherwise noted. The contractor shall be responsible to locate existing rebar by scanning or other nondestructive methods as necessary, prior to drilling, coring or anchoring in existing concrete, to avoid damage to the reinforcement.

2. Keynotes apply to this sheet only.

3. All items shown, but not noted are to be considered (E) to remain, typ. u.n.o.

Ceiling Legend

(E) GWB ceiling to remain (E) exposed structure to remain (E) 2x2 acoustic suspended ceiling system to remain

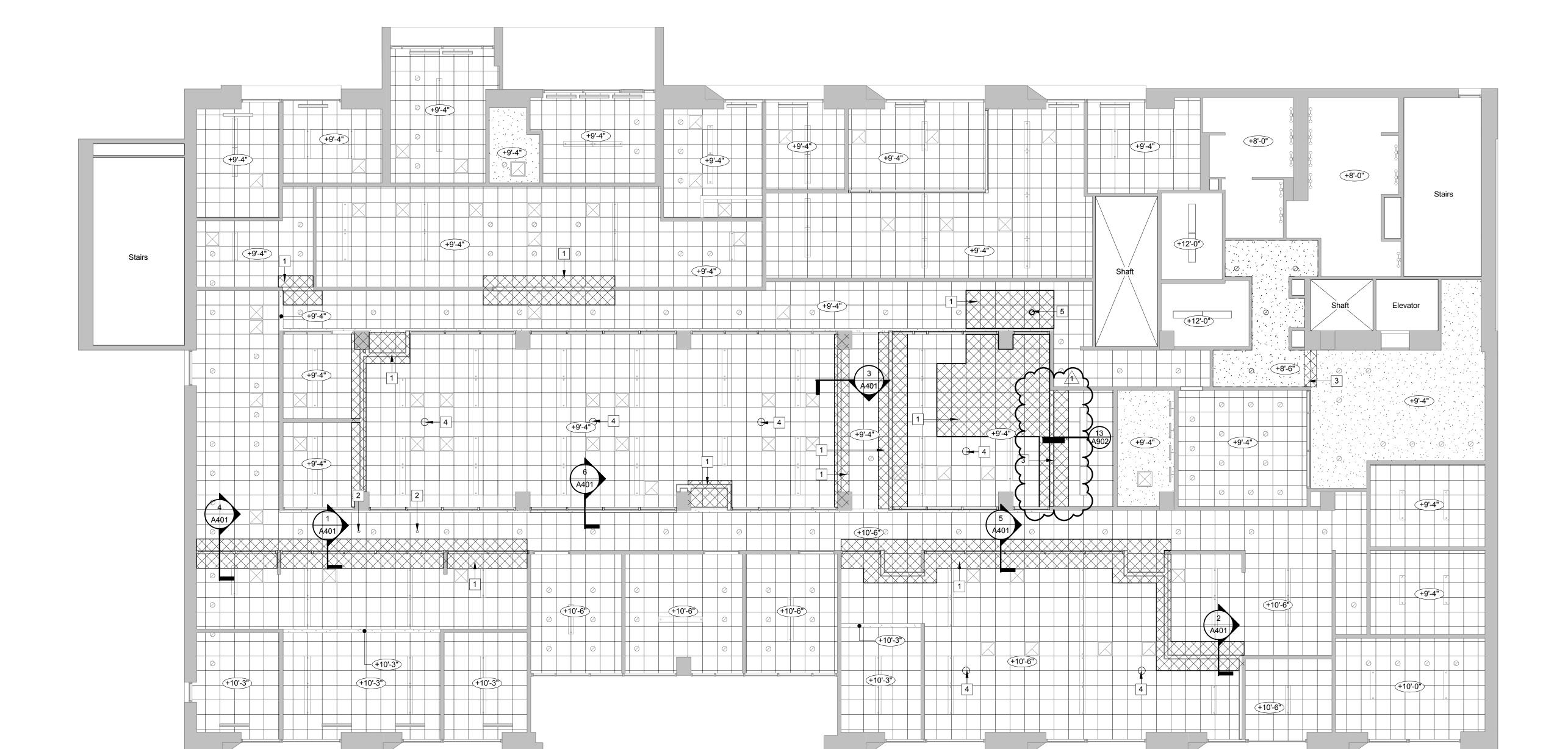
New 2x2 acoustic suspended ceiling system



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Proposed Reflected

DRAWING SET INFORMATION: 07.10.2018 Bid Set **REVISIONS**: 1 07.20.2018 Addendum #1

PROJECT NUMBER:

2018-18 SHEET NUMBER:

A601

Finish Schedule Number 305A 308 310B 311B 311G 323A 323B 323C 326 330 Lounge 330A 330B Tutoring Kitchen Office Office 346B Office Lounge 350 Office 352 Office Lobby S3-2 T3-1 Men's T3-2 Architect for approval. **Abbreviations** CON CPT

Finish Schedule North South Type | Texture | Finish | Type | Texture | F Comments (E) (E)/GWB (E)/4 (E) Private Office Private Office Copy Room Conference Room Private Office 4 P-1 Private Office Private Office Open Office Private Office Open Office Restroom Private Office Conference Room Private Office (E) (E) (E) Private Office CPT RB (E) (E) (E) (E) (E) (E) (E) (E) (E) CPT RB GWB/SF 4/FF P-5/FF (E)/GWB (E)/4 P-5 GWB/SF 4/FF P-5 GWB Study Room (E) (E) (E) (E) (E) (E) (E) Conference Room Open Office (E) Private Office Huddle Room Private Office (E) (E) (E) (E) (E) (E) (E) (E) Conference Room Conference Room GWB/SF 4/FF P-1 GWB/(E) 4/(E) P-1/P-3 (E) (E) - - (E) (E) P-3 (E) (E) P-3 (E) Breakout 4 P-3 (E) (E) P-3 (E) (E) P-3 TV Area (E)/SF (E)/FF P-1/FF (E) (E) (E) (E)/SF (E)/FF P-1/FF GWB 4 (E) Private Office (E) (E) GWB 4 (E) (E) (E) (E) (E) Electrical PT PT PT PT

Finish Schedule Comments

1) Provided for reference only. Only scope of work in these spaces includes replacing missing, damaged or discolored ceiling tiles, typ. u.n.o.

2) See interior elevations for accent paint colors location and extents, typ.

3) Paint columns in this space to match adjacent walls, typ. u.n.o.

4) See interior elevations of adjacent rooms to see wall types, locations and extents.

5) Under carpet electrical system to be provided and installed by others prior to installation of carpet tiles, typ_un.o. See electrical drawings.

6) Match existing finishes to the maximum extent feasible. If products specified in these drawings or specifications do not match existing adjacent products, submit an alternate to Architect for approval.

Finish General Notes

1. Do not install base on full height storefront walls, typ.

2. Replace ceiling tiles where missing, damaged or destroyed, typ. all rooms. See Specifications in Division 01, provided by University for "Unit Price" items.

3. Verify all finishes listed as existing. Match (E) finishes wherever possible. If specified finish materials do not match existing, submit alternate product to

4. Replace carpet tiles where missing, damaged or destroyed, typ. u.n.o. See Specifications in Division 01, provided by University for "Unit Price" items.

5. Patch and repair wall surfaces if damaged prior to applying new paint/finishes, typ. See Specifications in Division 01, provided by University for "Unit Price"

6. New GWB wall finish is to be level 4, typ. u.n.o.

NC T	acoustic ceiling aluminum concrete carpet demountable partition elevator flush factory finish	FG GWB P-x PT RB ST VCT WD	full glass gypsum wall board paint porcelain tile rubber base stained vinyl composite tile wood	

Finish Legend

P-1 - SW 7006 Extra White (eggshell)

- P-2 SW 7006 Extra White (semi-gloss)
- P-3 SW 9122 Dried Edamame (eggshell)
- P-4 SW 6118 Leather Bound (eggshell)
- P-5 SW 7660 Earl Grey (eggshell)

Flooring

Manufacturer: Bentley Arcade Legend Color: Nitro Racer Size: 2' x 2'

Tiles: Armstrong Ultima Tegular tiles Size: 2' x 2' Grid: Armstrong Suprafine

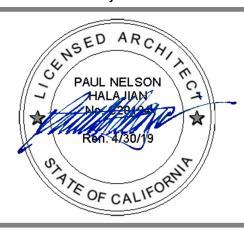
Rubber base Burke Manufacturing, 6" Black 701

ST Maple, clear stained to match (E)

FOR MORE INFORMATION ON FINISHES, SEE SHEET SPECIFICATIONS ON G101-105

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chedule

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PROJECT NUMBER: 2018-18

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							Door s	Schedule							
					Door Size	Thisluses		Door			Frame			Handwan	
Mark	Door Name	Phase	Paired	Width	Height	Thicknes s	Туре	Material	Finish	Туре	Material	Finish	Fire Rating	Hardware Group	Comments
								1							
01b	Elevator	(E)	-	3'-9"	7'-0"	1-3/4"	EL	HM	FF	_	-	-	-	-	1
	Private Office	NC	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	AL	FF	-	3	3
303.1	Private Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	1	HM	P-2	-	-	1
305A.1	Conference Room	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	1	HM	P-2	-	-	1
	Conference Room	(E)	Y	6'-0"	7'-0"	1-3/4"	F	WD	ST	1	HM	P-2	-	-	1
	Private Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	DP	FF	-	-	1
	Private Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	DP	FF	-	-	1
	Private Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	DP	FF	-	-	1
	Open Office	NC (E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	AL	FF	-	3	3
	Private Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	DP	FF	-	-	1
	Open Office	NC (E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	AL	FF	-	2	3
	Open Office	(E)	-	3'-0" 3'-0"	7'-0" 7'-0"	1-3/4"	F F	WD	ST ST	1	HM	P-2 P-2	-	-	1
	Restroom Private Office	(E)	-	3'-0"	7'-0"	1-3/4" 1-3/4"	<u>F</u>	WD WD	ST	1	HM HM	P-2 P-2	-	-	1
							-	+				P-2 P-2	-		1
	Private Office Conference Room	(E)	-	3'-0" 3'-0"	7'-0" 7'-0"	1-3/4" 1-3/4"	F F	WD WD	ST ST	1	HM HM	P-2 P-2	-	-	1
	Conference Room Conference Room	(E)	-	3'-0"	7'-0"	1-3/4"	FG	AL	FF	3	AL	FF	-	-	1
	Private Office	(E)	-	3'-0"	7'-0"	1-3/4"	FG	WD	ST	1	HM	P-2	-	-	1
	Study Space	NC	-	3'-0"	7'-0"	1-3/4"	<u>г</u> F	WD	ST	2	AL	FF	-	5	-
	Study Space	NC NC	-	3'-0"	7'-0"	1-3/4"	F F	WD	ST	2	AL	FF		5	_
	Conference Room	(E)	_	3'-0"	7'-0"	1-3/4"	<u>'</u>	WD	ST	4	HM	P-2	-	2	3
	Conference Room	(E)	-	3'-0"	7'-0"	1-3/4"	FG	AL	FF	3	AL	FF	_	-	1
	Open Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	1	HM	P-2	-	2	3
	Private Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	DP	FF	-	-	1
	Huddle Room	NC	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	-	DP	FF	-	1	4
	Private Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	DP	FF	-	-	1
	Conference Room	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	4	HM	P-2	-	2	3
	Conference Room	(E)	-	3'-0"	7'-0"	1-3/4"	FG	AL	FF	3	AL	FF	-	2	3
	Conference Room	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	4	HM	P-2	-	2	3
326.2	Conference Room	(E)	-	3'-0"	7'-0"	1-3/4"	FG	AL	FF	3	AL	FF	_	-	1
330.1	Lounge	NC	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	AL	FF	_	5	-
330.2	Lounge	NC	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	2	AL	FF	-	5	-
	Tutoring Space	NC	-	3'-0"	7'-0"	1-3/4"	FG	WD	ST	3	AL	FF	-	1	-
	Tutoring Space	(E)	-	3'-0"	7'-0"	1-3/4"	FG	WD	ST	1	HM	P-2	-	-	1
	Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	1	HM	P-2	-	2	3
	Private Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	DP	P-2	2	DP	FF	-	-	1
	Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	HM	P-2	1	HM	P-2	-	-	1
	Office	(E)	-	3'-0"	7'-0"	1-3/4"	F	HM	P-2	1	HM	P-2	-	-	1
	Office	(E)	- V	3'-0"	7'-0"	1-3/4"	F	HM	P-2	1 5	HM	P-2	-	-	1
	Lobby	(E)	Y	6'-0"	7'-0"	1-3/4"	F	HM	P-2	5	HM	P-2	4 110	-	1 2
353.2	Lobby Reception Corridor	(E)	-	3'-9" 3'-0"	7'-0" 7'-0"	1-3/4" 1-3/4"	F F	HM WD	P-2 ST	1	HM HM	P-2 P-2	1-HR	4.5	1, 2
	Reception Corridor East Corridor	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	1	HM	P-2 P-2	-	4, 5 4, 5	_
	Electrical	(E)	-	3'-0"	7'-0"	1-3/4"	F F	WD	ST	1	HM	P-2 P-2	-	4, 5	1
S3-1.1		(E)	-	3-0 4'-0"	7'-0"	1-3/4"	<u>г</u> Б	HM	P-2	1	HM	P-2 P-2	1-HR	5	1, 2
S3-1.1		(E)	-	4'-0"	7'-0"	1-3/4"	<u>г</u> F	HM	P-2 P-2	1	HM	P-2 P-2	1-HR	5	1, 2
	Men's Restroom	(E)	-	3'-0"	7'-0"	1-3/4"	' F	WD	ST	1	HM	P-2	-	-	1
	Women's Restroom	(E)	-	3'-0"	7'-0"	1-3/4"	F	WD	ST	1	HM	P-2	-	_	1
	Telecom	(E)	-	3'-0"	7'-Q"	1-3/4"	. F	, WD	ST	1 .	HM.	P-2	_	_	1.

Door General Notes

1) Hand activated door operating hardware shall be lever or pulls that are easy to grasp with one hand and do not require grasping, pinching, or twisting of the wrist to operate.

No thumb latches or keyed cylinder dead bolts allowed on any doors unless operated by a single action w/ a lever.

2) Doors shall be readily operable from the egress side without the use of a key or special knowledge or effort. The unlatching of any door or leaf shall not require more than one operation.

3) The force required to push or pull open a door shall not exceed 5 lbs for interior and exterior doors and not more than 15 lbs for required fire rated doors. For swinging doors, the force shall be applied perpendicular to the door at the door operating hardware. For sliding doors, the force shall be measured parallel to the door applied at the pull or latch.

4) Operating hardware, levers, pulls, push bars, and locks shall be mounted 34" minimum and 44" maximum above the finish floor or landing level.

5) Manually operated surface or flush bolts are not permitted except for the inactive leaf

of a pair of doors serving storage or equipment rooms. 6) Thresholds at doorways shall not exceed 1/2" in height above the lowest floor level. Changes in elevations greater than 1/4" shall be beveled with a slope not greater than 2:1 horizontal to vertical.

7) Bottom 10" of swinging doors shall have a smooth, uninterrupted surface to allow the door to be opened by a wheelchair footrest without creating a trap or hazardous

8) If a door has a closer, the sweep period of the closer shall be adjusted so that from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3" from the latch, measured to the leading edge of the door.

9) All grade level exterior exit doors shall be provided with a tactile mounted on the wall adjacent to the strike edge of the door at the egress side of the door.

10) Tempered safety glass shall be provided for glazing in doors and windows adjacent to doors where the nearest edge of the glass is within a 24" arc of either vertical edge of a door in a closed position and the bottom of the glazing is less than 60" above the floor.

11) All doors shall be 1-3/4" thick, unless noted otherwise.

12) Refer to door schedule for door and frame finish.

13) For accessible maneuvering clearances at doors, see details.

14) See sheet specifications for hardware group information.

15) Salvage all doors removed as a part of demo phase. Where feasible, reuse these doors in new locations prior to ordering new doors. Contractor to verify proposed hardware compatibility with (E) doors to be reused. Reuse (E) salvaged hardware to maximum extent feasible. Contractor to verify and coordinate.

16) See Finish Legend on A701 for finish information.

17) See Specification section 08 70 00 for hardware group information.

18) All paint finishes on doors or frames to be semi-gloss, typ. u.n.o.

Abbreviations

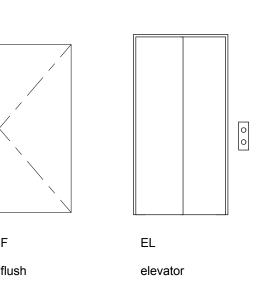
AC	acoustic ceiling
AL	aluminum
CONC	concrete
CPT	carpet
DP	demountable partition
EL	elevator
F	flush
FF	factory finish

FG full glass GWB gypsum wall board paint PΤ porcelain tile RB rubber base stained ST

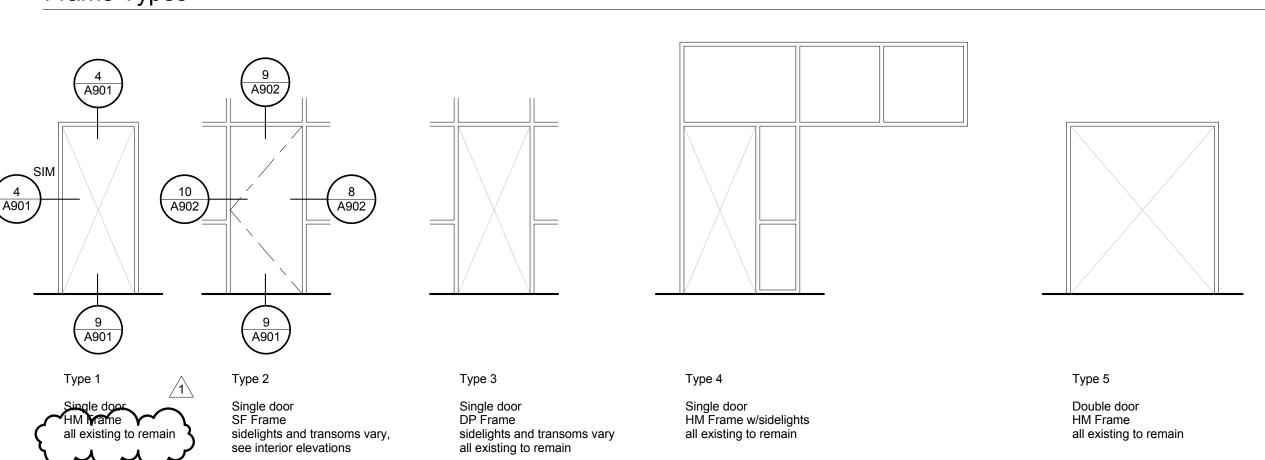
WD wood

VCT vinyl composite tile

Door Types



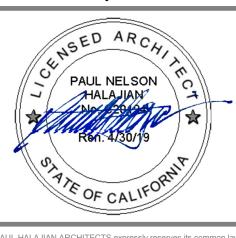
Frame Types





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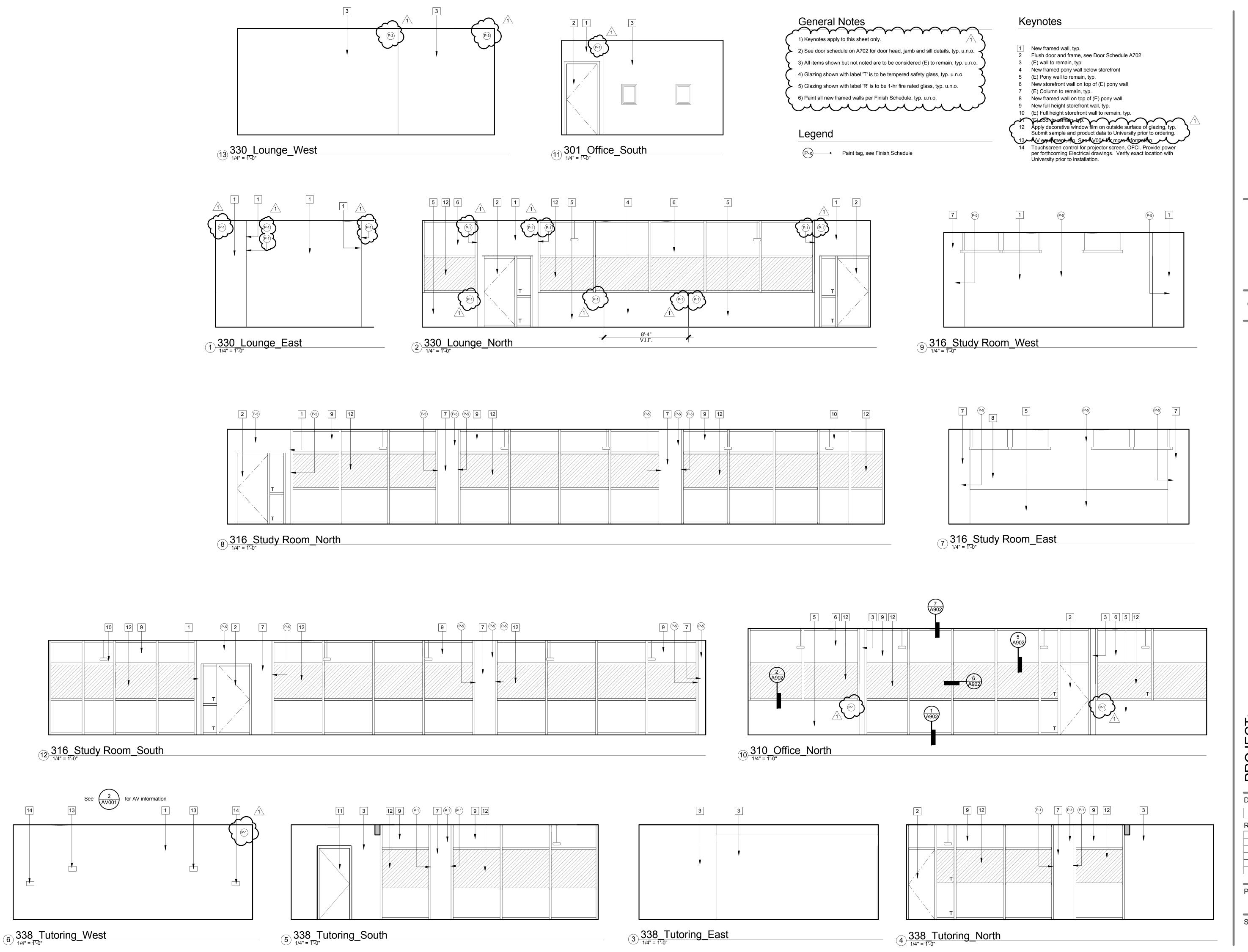


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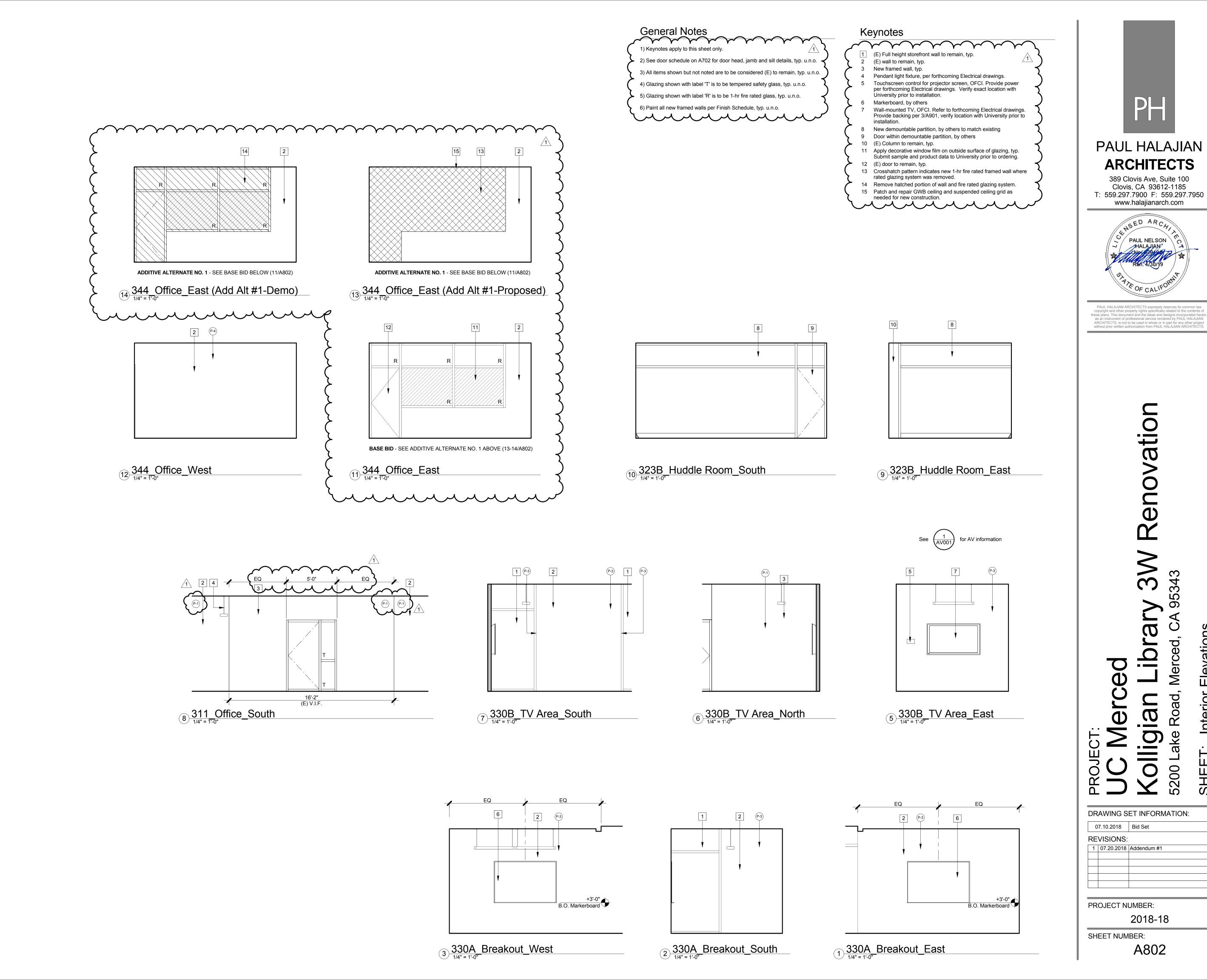
Renovation ibrar Merced

Elevations Interior SHEET:

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Re

Merced

Elevations

Interior

SHEET:

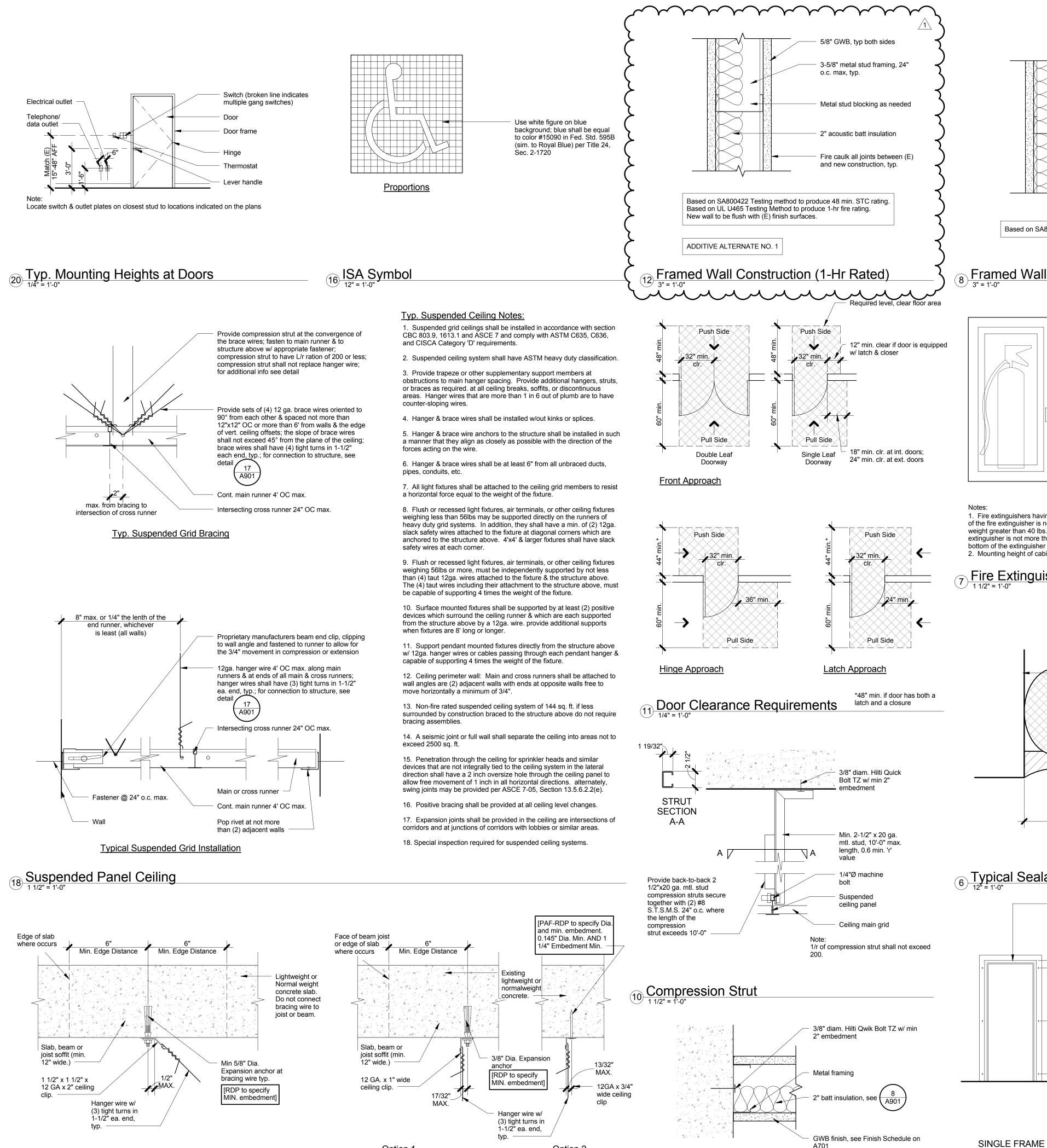
Merced,

Road,

2018-18

A802

SED ARC.



Option 2

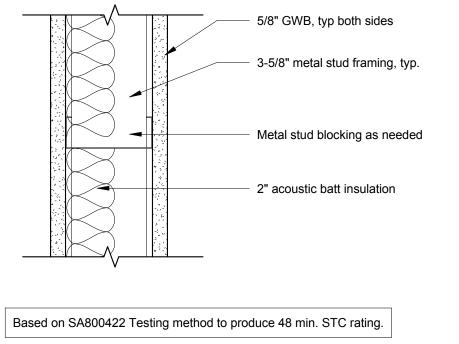
9 Framed Wall Attachment to Column
3" = 1'-0"

Hanger Wire

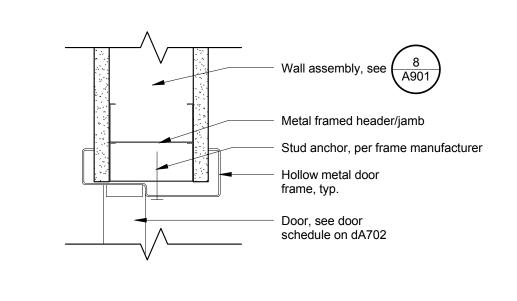
Option 1

Bracing Wire

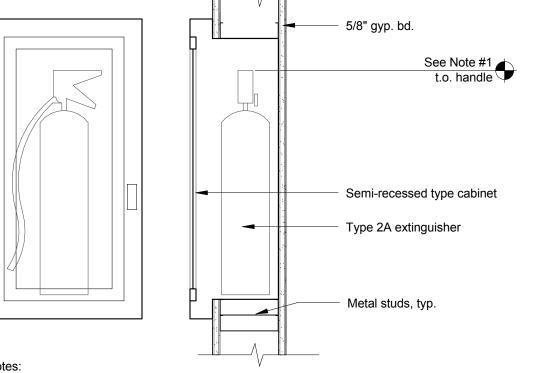
Ceiling Support Wire to Structure



Representation Framed Wall Construction

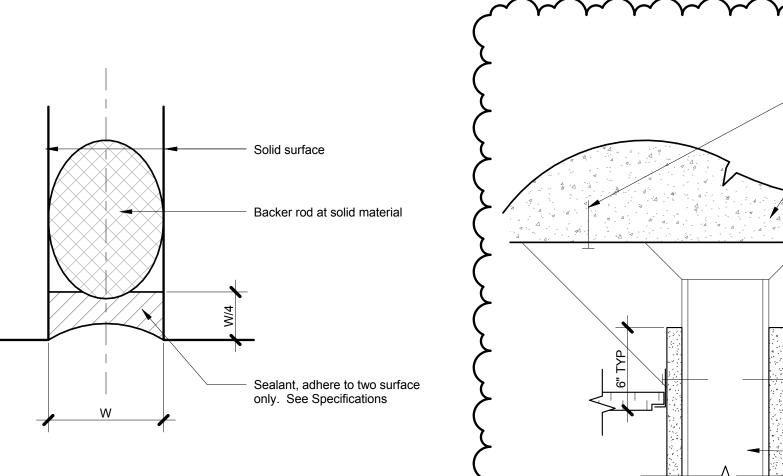


(4) HM Door Frame (Head, Jamb SIM)



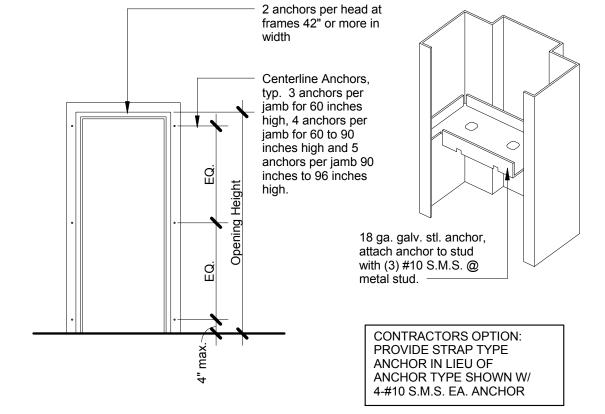
1. Fire extinguishers having a gross weight not exceeding 40 lbs. shall be installed so that the top of the fire extinguisher is not more than 5'-0" above the floor. Fire extinguishers having a gross weight greater than 40 lbs., except wheeled types, shall be so installed that the top of the fire extinguisher is not more than 3'-6" above the floor. In no case shall the clearance between the bottom of the extinguisher & the floor be less than 4". Mounting height of cabinet to be same in all wall conditions.

Fire Extinguisher Cabinet (Semi-Recessed)



METAL STUD ANCHOR

6 Typical Sealant Joint



5 HM Door Frame Anchor @ Metal Studs

Wall assembly, see 🖡 Rubber base, see Finish Schedule on A701 Metal stud track 3/8" diam. Hilti Qwik Bolt TZ w/ min 2" embedment Carpet tiles, typ. (E) concrete deck to remain

Stud Wall Anchoring (Bottom)

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vatior

METAL STUD FRAMING PER

PLAN (FLANGES SHALL NOT

CHANNEL NOTCH & FASTEN

6"x1-1/4"x16 GA. TRACK

TO STUDS W/ (3) LOW

PROFILE HEAD SMS

2. MOUNT ITEM TO CHANNEL W/ 1/4" DIA. SMS @ 6" O.C., U.O.N.

Stud Wall Anchoring (Top)

STORAGE CABINETS, ETC.

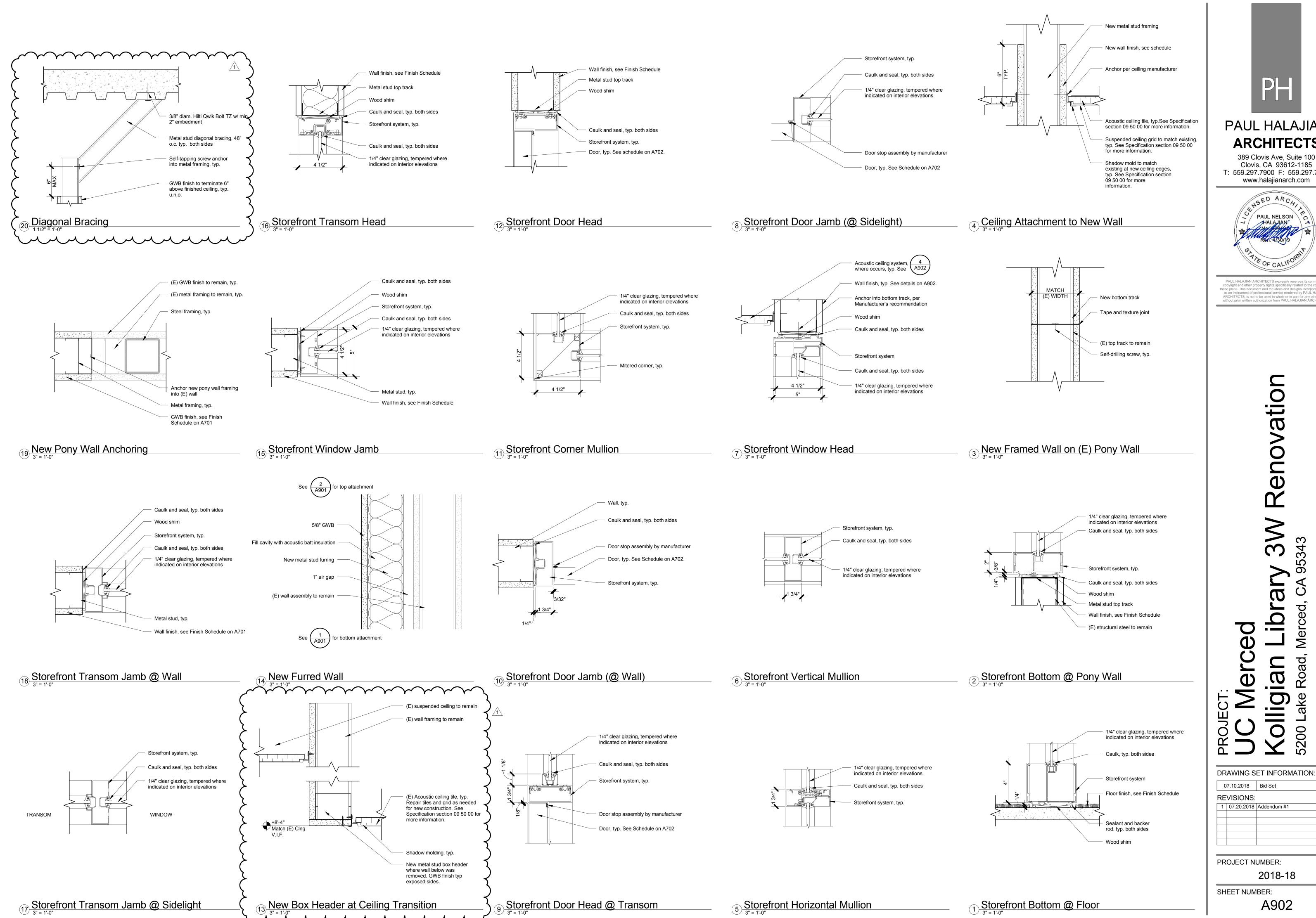
1. EQUIPMENT/ACCESSORIES TO BE ANCHORED: TOILET ACCESSORIES, BASE CABINETS, TALL

W 3/8" diam. Hilti Qwik Bolt TZ w/ min 2" embedment (E) concrete deck to remain Diagonal bracing, typ. See A902 Wall assembly, see 0

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2018-18

SHEET NUMBER:





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novation

(1)

PROJECT NUMBER: 2018-18

SHEET NUMBER: A902

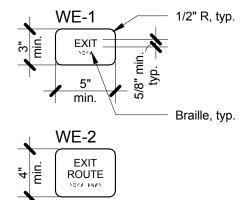


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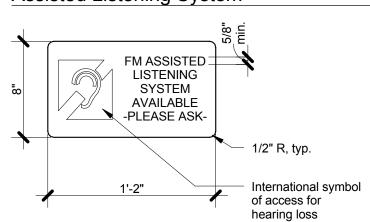
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Wall Mounted Exit Sign (Type WE)



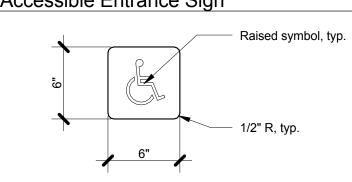
All spaces classified as A occupancy shall have exit signage, per CBC Section 1013. See floorplan for locations.

Assisted Listening System



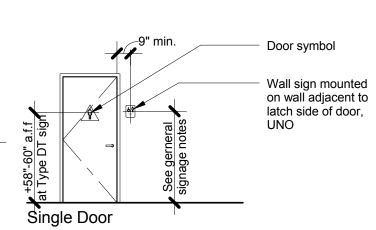
All spaces classified as A occupancy shall have assisted listening systems and associated signage, per CBC Section 11B-219. See floorplan for locations.

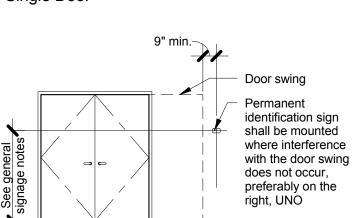
Accessible Entrance Sign

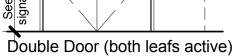


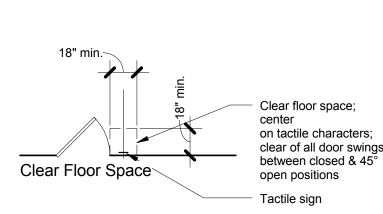
All accessible building entrances shall have International Symbol of Accessibility on or adjacent to door at strike side; see General Note #8 on G001.

Door Clearance Requirements









person to approach within 3" of the signage without encountering protruding objects or standing within the swing of

General Signage Notes

Raised & Braille Characters:

- Raised characters shall be 1/32" min. above the background and shall be upper case, sans serif, with the stroke thickness of the uppercase letter 'I' being 15% max. of the height of the uppercase letter 'I'. Height of characters shall be 5/8" min. to 2" max. based on the uppercase letter 'I', (see visual character height chart below). Width of the upper case letter 'O' is to be 60% min. to 110% max. of the height of the uppercase letter 'I'.
- Braille shall be contracted (Grade 2) with rounded or domed top dots that are 1/10" on center in each cell with 2/10" space between cells, measured from the second column of dots in the first cell to the first column of dots in second cell. Braille dots are a minimum of 1/40" above the background. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms. Braille shall be separated 3/8" min. & 1/2" max. from any other tactile characters & 3/8" min. from raised borders & decorative
- elements, UNO.

Finish & Contrast

Character, symbols, & background shall have an eggshell, matte, or other non-glare finish. Characters & symbols shall have a contrasting color with their background, either light on a dark background or dark on a light Edges of signs shall be rounded, chamfered or eased. Corners of signs shall have a 1/8" min. radius, UNO.

Mounting Location & Height

- Door mounted signs shall be centered on the horizontal width of the door, UNO.
- Wall mounted signs at doors shall be mounted per Door Clearance Requirements. At single door: permanent identification sign shall be mounted 12" max. from door to nearest edge of sign At doors with no clearance on strike side: permanent identification sign shall be mounted on the nearest adjacent wall,
- preferably on the right, UNO. Mounting height for permanent identification signs shall be as follows: Non-Tactile signs shall be centered 60" AFF, UNO. Tactile signs shall be mounted so that the baseline of the lowest line of braille is 48" min. AFF & the baseline of the highest line of tactile characters is 60" max. AFF, UNO.

Visual Character Height		
Height to Finish Floor or Ground from Baseline of Character	Horizontal Viewing Distance	Minimum Character Height (Based on the upper case letter 'I')
4011 < distance < 7011	distance < 6'-0"	5/8"
40" < distance ≤ 70"	distance ≥ 6'-0"	5/8", plus 1/8" / foot of viewing distance above 6'-0"
70" < distance < 120"	distance < 15'-0"	2"
70" < distance ≤ 120"	distance ≥ 15'-0"	2", plus 1/8" / foot of viewing distance above 15'-0"
120" < dietopee	distance < 21'-0"	3"
120" < distance	distance ≥ 21'-0"	3", plus 1/8" / foot of viewing distance above 21'-0"

Permanent identification signs shall be mounted to allow for a

5 Accessible Wall Signs

07.10.2018 Bid Set 1 07.20.2018 Addendum #1

PROJECT NUMBER:

REVISIONS:

2018-18 SHEET NUMBER!

DRAWING SET INFORMATION:

Audio-Visual Specifications

The Audio Visual system shall consist of the devices listed below and as shown on the Drawings. Contractor shall provide all miscellaneous appurtenances for mounting, connections, cords, cables, and other items as required for a complete and functional installation.

Models of all equipment noted below are to be confirmed via RFI by the University at the time of equipment orders. Exact equipment, properties, and connection requirements may vary. Coordinate exact requirements with University prior to rough-in and install.

Utilize digital connections between systems components wherever possible by the product manufacturer

Minimize signal conversions through from source to destination in systems

Owner-Furnished Equipment List

Device/Item	Manufacturer	Model	Quantity
Flat Panel Display	NEC	V652	1
Speaker Bar	NEC	SP-TF1	1
Video Input Plate		I	I
2 Gang Mounting Frame (White)	Extron	70-616-13	3
Blank Plate (White)	Extron	70-090-21	3
Blank Plate (White)	Extron	70-090-22	3
Touchpad	AMX	MCP-108-WH	1
PoE Injector	AMX	PS-POE-AF-TC	1

COMMUTER LOUNGE

Video System

Flat Panel Display Provide the following flat panel display, including all required back boxes, mounting hardware, and point-to-point wiring as required for a complete

1) Infrastructure – either 16G steel backing behind gypsum or surface mounted Unistrut (coordinate with mount selection and location)

2) (1) OFE 65" NEC Display

3) Install wall mounted flat panel display with bottom of display at 42" AFF centered on wall

4) Provide recessed FSR wall box (a) Centered 60" AFF (b) Power: 120 VAC duplex outlet

Audio System Speaker Bar

Provide the following speaker bar audio system, including all required mounting hardware and point-to-point wiring as required for a complete installation.

1) OFE Soundbar to be attached to display

Video Input Plate

Provide the following video input plates, including all required back boxes, mounting hardware, and point-to-point wiring as required for a complete Video inputs shall terminate at 2-gang wall plate located at 18" AFF centered on

1) HDMI pigtail connections to FSR wall box

Control System

Provide the following control system, including all required back boxes and point-to-point wiring as required for a complete installation.

1) Touchpad shall perform the following functions: (a) Power on and off display (b) Switch inputs (c) Control volume

2) Infrastructure – 1" Conduit between 2-gang touch pad location and FSR wall

3) OFE Touchpad – AMX MCP-108

4) OFE PoE Injector to be either affixed to back of display or resting in FSR wall

TUTORING ROOM (ROUGH-IN ONLY)

Flat Panel Display Provide rough-ins for the following flat panel display.

1) Infrastructure – 16G steel backing behind gypsum (coordinate with mount selection and location)

2) (1) OFE 65" NEC Display

3) Rough-in for wall mounted flat panel display with bottom of display at 42" AFF located per drawing below. Verify location with University prior to installation.

4) Provide recessed FSR wall box (a) Centered 60" AFF (b) Power: 120 VAC duplex outlet

Audio System

Provide rough-in for the following speaker bar audio system.

1) OFE Soundbar to be attached to display

Provide the following video input plates, including all required back boxes, mounting hardware, and point-to-point wiring as required for a complete installation.

Video inputs shall terminate at 2-gang wall plate located at 18" AFF, located per drawing below. Verify location with University prior to installation.

1) HDMI pigtail connections to FSR wall box

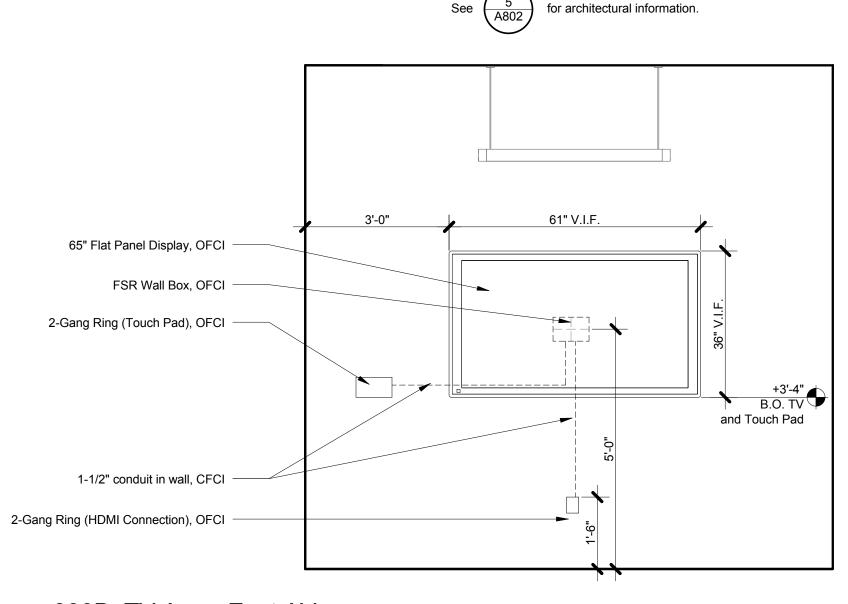
Control System

Provide rough-in for the following control system, including all required back boxes and point-to-point wiring as required for a complete installation.

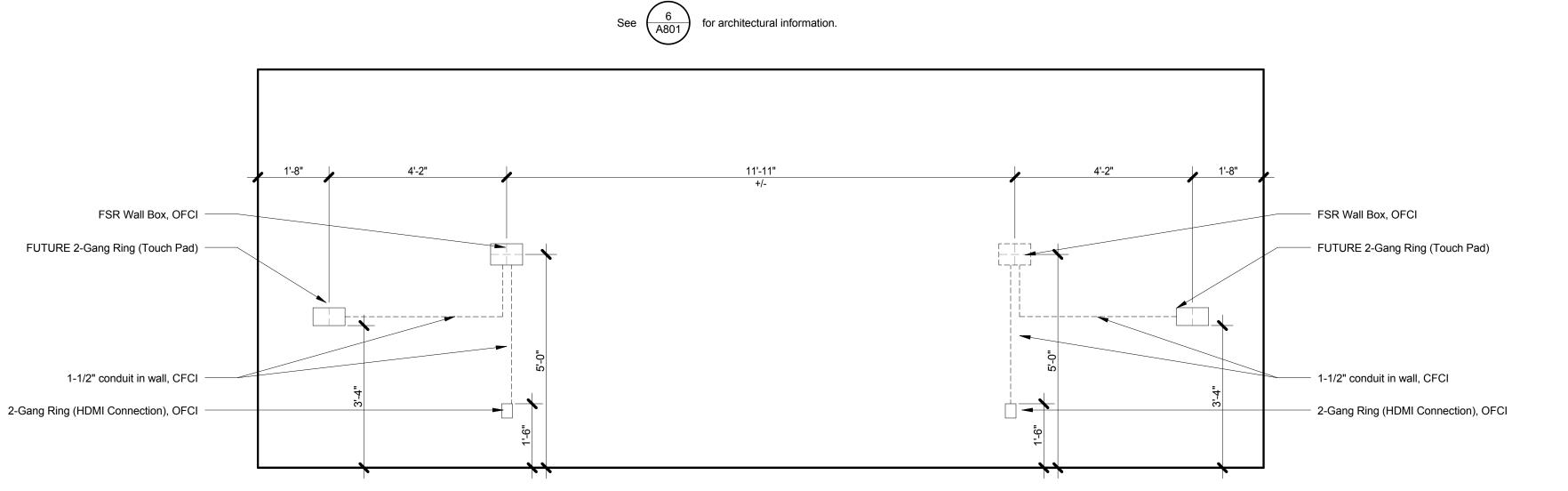
FUTURE OFOI Touchpad shall perform the following functions:
 (a) Power on and off display

(b) Switch inputs (c) Control volume 2) Infrastructure – 1" Conduit between 2-gang touch pad location and FSR wall box

3) OFE Touchpad – AMX MCP-108 4) OFE PoE Injector to be either affixed to back of display or resting in FSR wall box.



1) 330B TV Area East AV



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DRAWING SET INFORMATION: 07.10.2018 Bid Set **REVISIONS:** PROJECT NUMBER:

2018-18

AV001

SHEET NUMBER:

2 338 Tutoring West AV

GENERAL NOTES:

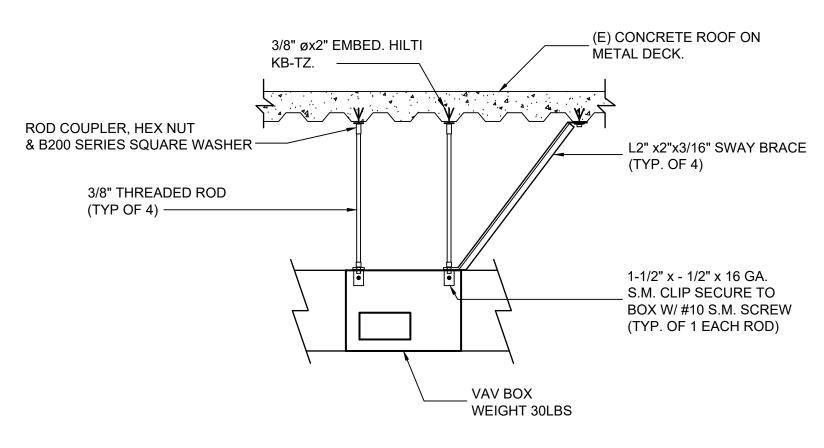
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,2018

- 1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS ARE GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME OF THE WORK MAY BE SHOWN OFFSET FOR CLARITY. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORT, ETC. ALL DUCT AND PIPE ELBOWS AND ELEVATIONS ARE NOT SHOWN, CONTRACTOR TO ENSURE BID COVERS ELEVATION CHANGES TO INTERFERENCE WITH OTHER UTILITIES. ALL WORK SHALL BE CAREFULLY PLANNED PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS. VERIFY THE PROPER VOLTAGE AND PHASE FOR ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR ORDERING OF ANY
- 2. CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE ARCHITECT AND STRUCTURAL ENGINEER WITH THE APPROVAL OF THE UCM REPRESENTATIVE OR AUTHORITY HAVING JURISDICTION.

APPLICABLE CODES AND REGULATIONS:

CALIFORNIA CODE OF REGULATIONS (C.C.R.) PART 1 - 2016 CALIFORNIA STANDARDS ADMINISTRATIVE CODE, TITLE 24, C.C.R. PART 2 - 2016 CALIFORNIA BUILDING CODE (C.B.C.), TITLE 24, C.C.R. VOLUMES 1-3. PART 3 - 2016 CALIFORNIA ELECTRICAL CODE, TITLE 24, C.C.R. PART 4 - 2016 CALIFORNIA MECHANICAL CODE (C.M.C.), TITLE 24 C.C.R. PART 5 - 2016 CALIFORNIA PLUMBING CODE (C.P.C.), TITLE 24, C.C.R. PART 6 - 2016 CALIFORNIA ENERGY CODE, TITLE 24, C.C.R. PART 9 - 2016 CALIFORNIA FIRE CODE, TITLE 24, C.C.R.



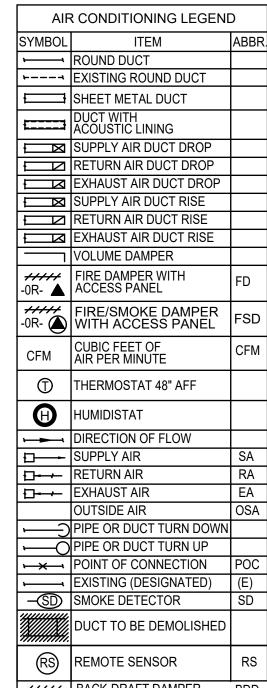


GRILLE SCHEE	DULE	
TAG	Α	В
TYPE	CEILING SUPPLY	CEILING RETURN
DESCRIPTION	TITUS PSS BORDER TYPE 3, LAY-IN GRILLE PERFORATED CEILING DIFFUSER NO. 26 WHITE FINISH	TITUS PAR BORDER TYPE 3, LAY-IN GRILLE PERFORATED CEILING DIFFUSER NO. 26 WHITE FINISH

VARIABLE AIF	R VOLUME
TAG	VAV-1
MANUFACTURER	TITUS
MODEL	DESV
ROOM SERVED	TUTORING LOUNGE
INLET SIZE (IN)	8"
COOL MAX / MIN (CFM)	700 / 110
WEIGHT	30 LBS
HEAT MAX (CFM)	-
PRESSURE DROP (IN. W.G.)	0.32

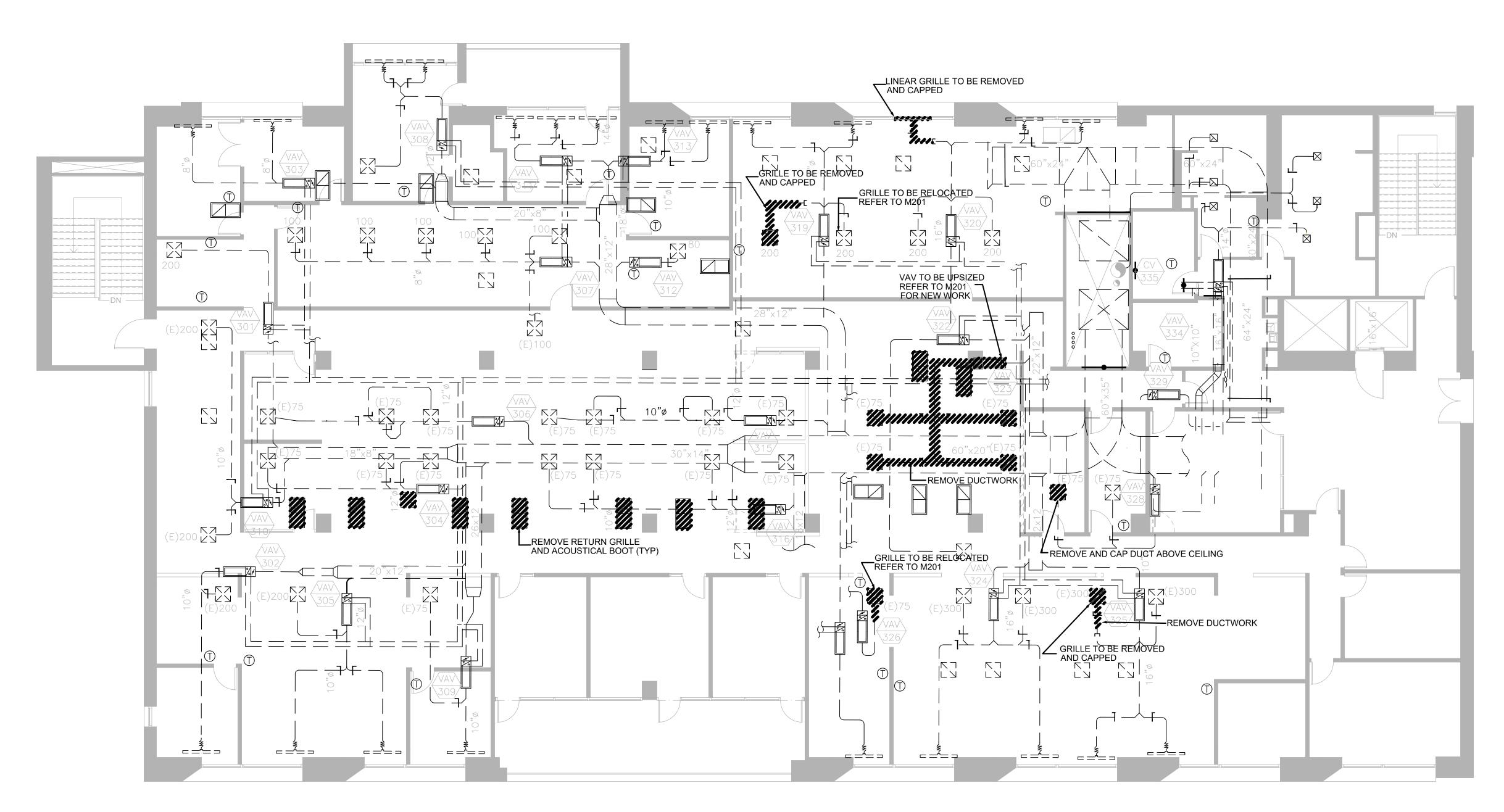
24 V CONTROL TRANSFORMER

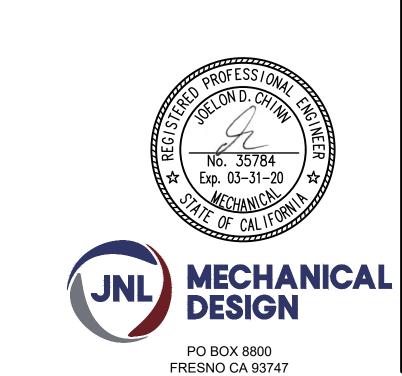
AIF	R CONDITIONING LEGEN)
SYMBOL	ITEM	ABBR
—	ROUND DUCT	
	EXISTING ROUND DUCT	
	SHEET METAL DUCT	
	DUCT WITH ACOUSTIC LINING	
	SUPPLY AIR DUCT DROP	
	RETURN AIR DUCT DROP	
	EXHAUST AIR DUCT DROP	
	SUPPLY AIR DUCT RISE	
	RETURN AIR DUCT RISE	
	EXHAUST AIR DUCT RISE	
	VOLUME DAMPER	
<i>++++</i> -0R- ▲	FIRE DAMPER WITH ACCESS PANEL	FD
-0R-	FIRE/SMOKE DAMPER WITH ACCESS PANEL	FSD
CFM	CUBIC FEET OF AIR PER MINUTE	CFM
Û	THERMOSTAT 48" AFF	
lacksquare	HUMIDISTAT	
—	DIRECTION OF FLOW	
	SUPPLY AIR	SA
₽	RETURN AIR	RA
₽	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
$\overline{}$	PIPE OR DUCT TURN DOWN	
$\overline{}$	PIPE OR DUCT TURN UP	
<u>~~~</u>	POINT OF CONNECTION	POC
<u> </u>	EXISTING (DESIGNATED)	(E)
	SMOKE DETECTOR	SD
WIIIII.	DUCT TO BE DEMOLISHED	
RS	REMOTE SENSOR	RS
++++	BACK-DRAFT DAMPER	BDD





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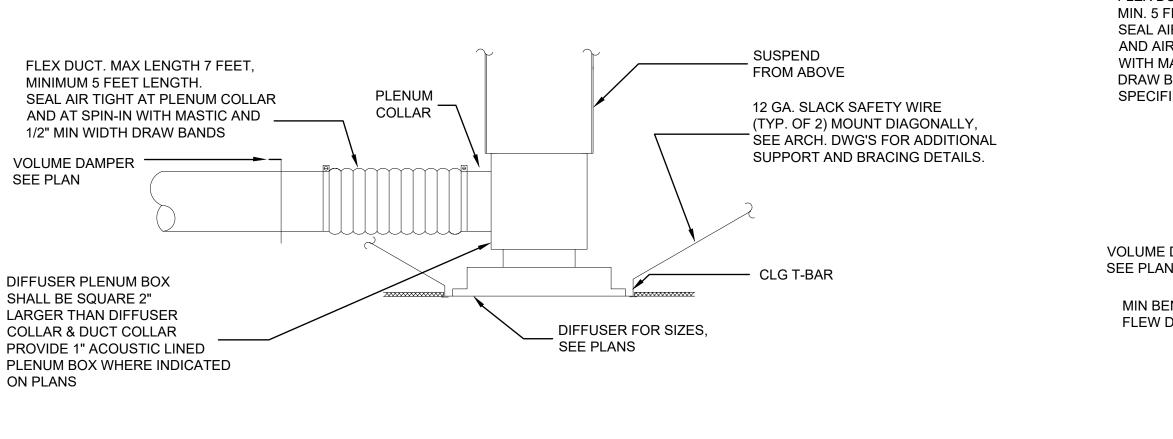


DRAWING SET INFORMATION: 05.18.2018 Schematic Design **REVISIONS:** PROJECT NUMBER:

2018-19 SHEET NUMBER:

M200

HVAC Plan (Demo)



TYPICAL DIFFUSE CONNECTION DETAILS

FLEX DUCT. MAX 7 FEET LENGTH, MIN. 5 FEET LENGTH. SEAL AIR TIGHT AT BRANCH DUCT AND AIR OUTLET DUCT EXTENSION WITH MASTIC AND 1/2" MIN WIDTH DRAW BANDS FLEX DUCT DIAMETER SPECIFIED ON DRAWINGS. MAX BEND 90 DEG — 12 GA. SLACK SAFETY WIRE (TYP. OF 2) MOUNT DIAGONALLY, SEE ARCH. DWG'S FOR ADDITIONAL SUPPORT AND BRACING DETAILS. SEE PLAN MIN BEND RADIUS = 1.5 X FLEW DUCT DIAM. (2) DIFFUSER DIAMETERS, MINIMUM.— — CLG T-BAR NOTE: DUCT ARRANGEMENT TO BE USED WHERE

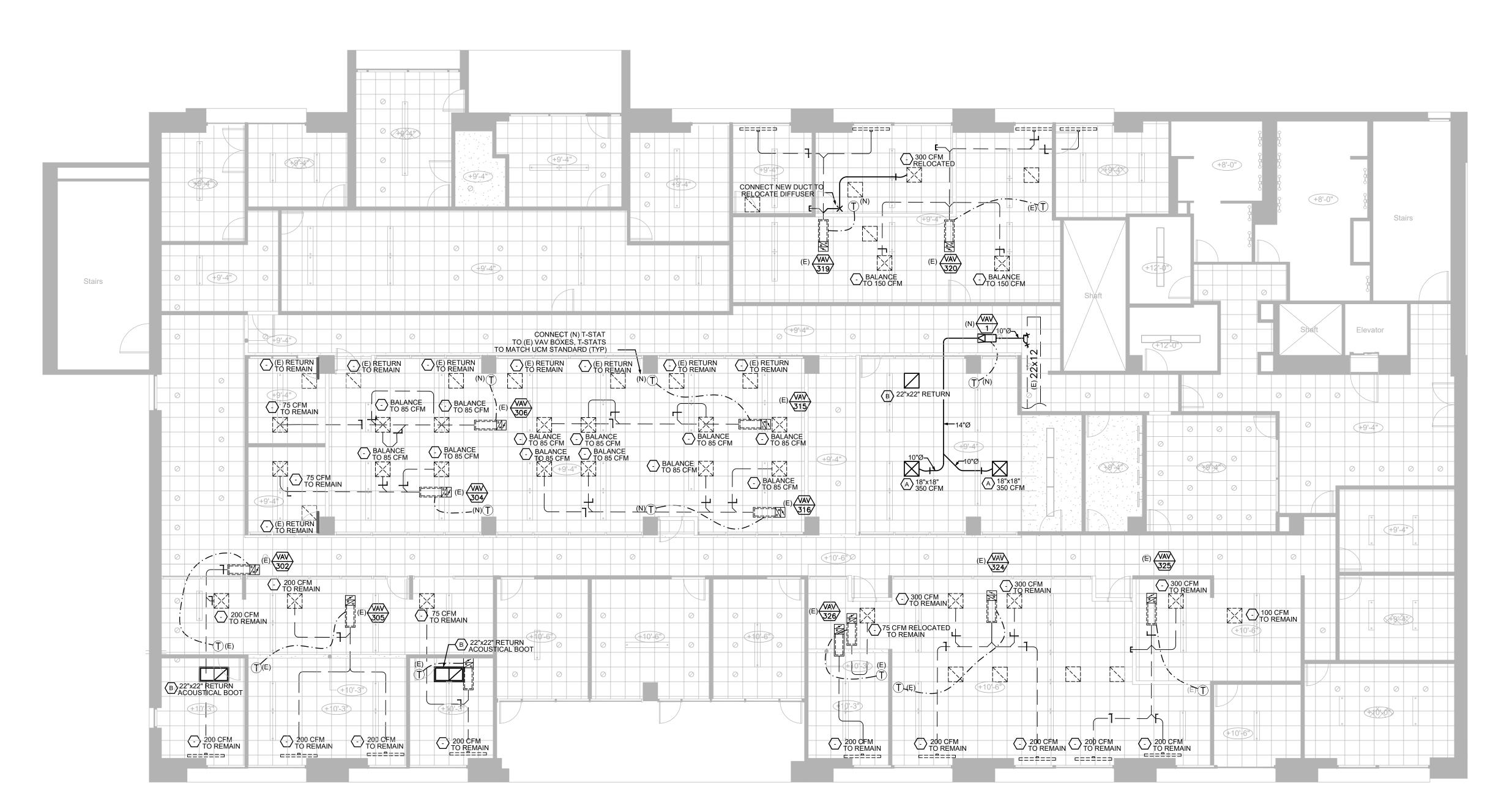
CLEARANCES PERMIT ONLY.

- D = DIAMETER <u>PURPOSE:</u>
TO MAINTAIN SOUND INSULATION BETWEEN ROOMS. NOTES:

1. SEAL BETWEEN TRANSFER BOOT AND WALL. HOLD GYPSUM 1/4" 2. TRANSFER BOOTS TO BE CONSTRUCTED OF SHEET METAL; GAUGE PER SMACNA GUIDELINES. 3. LOCATE AWAY FROM RETURN AIR GRILLE AND OTHER OPENINGS IN CEILING. 4. NO LINE OF SIGHT THROUGH BOOT. 5. SIZE TRANSFER BOOT TO ACHIEVE 500 F.P.M., MAX, AIRFLOW VELOCITY.

1" THICK ACOUSTIC DUCT LINER —

(A) ACOUSTICAL TRANSFER BOOT





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PAUL NELSON

HALAJIAN

No. C20194

Ren. 4/30/19

DRAWING SET INFORMATION: 05.18.2018 Schematic Design **REVISIONS:**

PROJECT NUMBER:

2018-19 SHEET NUMBER:

M201

559-259-6689

HVAC Plan (Proposed)

PART 1 - GENERAL

- A. <u>SCOPE.</u> 1. Work Included. Provide all labor, materials and services necessary for complete, lawful and operating systems as shown or noted on the drawings or as specified here. The work includes, but is not
- necessarily limited to, the following: a) Air distribution systems.
- b)System energy balance. c) Demolition as indicated on drawings.
- d)HVAC controls.

B. PERMITS AND FEES

1. The Contractor shall take out all permits and arrange for all tests in connection with such work as required. All charges are to be included in the work. All charges or fees for service connections, meters, etc., shall be included in the work.

C. MANUFACTURER'S RECOMMENDATIONS

1. All material, equipment, and devices, etc., shall be installed in a manner meeting approval of the manufacturer of the particular item. The Contractor shall make himself available of all installation manuals, brochures, and procedures that the manufacturer issues for the equipment and material. Contractor shall be held responsible for all installations contrary to the manufacturer's recommendations. Contractor shall make all necessary changes and revisions to achieve such compliance.

D. <u>GUARANTEE</u>

1. Guarantee shall be in accordance with the General Conditions. These Specifications may extend the period of the guarantee for certain items. Where such extensions are called for, or where items are normally provided with guarantee periods in excess of that called for in the General Conditions, the certificate of guarantee shall be furnished to the Owner.

E. <u>DEMOLITION</u>

- 1. Existing equipment, ducts, piping, valves, fittings, devices, etc., requiring removal shall be removed and delivered to the Owner at a location on the job site to be determined by the Owner. Those items determined by the Owner to be of no value shall become the property of the Contractor and shall be removed from the job site by the Contractor at the Contractor's expense.
- 2. Existing piping, ducts, and services, etc., requiring capping or plugging shall be capped or plugged below floors, behind walls, above ceilings or above roof unless otherwise noted.

F. HANGERS AND SUPPORTS.

- 1. Provide all hangers and supports for the proper installation of equipment and materials under this Section of the Specification.
- 2. Any structural element required to properly hang or support piping, ducts, or equipment, etc., provided under this Specification Section and not shown on the Architectural or Structural Drawings shall be provided under this Specification Section.
- 3. Hangers for ducts less than six sq. ft. in cross sectional area shall have hangers per SMACNA Duct Construction Standards, 2005 Edition.
- 4. All ducts and mechanical piping shall be supported and seismically braced in compliance with the Guidelines For Seismic Restraints For Mechanical Systems as published by the Sheet Metal Industry Fund of Los Angeles and the Plumbing and Piping Industry Council, Inc., of Los Angeles 2008 Edition or OSHPD Pre-Approval No. OPM-0043-13 the "Maon Industries Restraint System". Copies of the above publication and details shall be provided by the Contractor and maintained at the project site until final
- 5. Fire sprinkler pipes shall be braced per OSHPD Pre-Approval No. OPM-0052-13 the "Cooper B-Line / Tolco Restraint System". Copies of the above publication and details shall be provided by the Contractor and maintained at the project site until final acceptance.

PART 2 - MATERIALS. A. <u>Ductwork.</u>

6. <u>General.</u>

acceptance.

- e) Construct ductwork to meet all functional criteria defined in section VII, of the SMACNA "HVAC Duct Construction Standards Metal and Flexible" 2005 Edition. This shall subsequently be referred to as the SMACNA manual.
- f) All interior ducts shall be constructed with G-60 or better galvanized steel (ASTM 527) LFQ, chem treat. Exterior ductwork or any duct exposed to high humidity conditions (i.e. dishwasher exhaust) shall be G-90 or better.
- g)Support, access doors not part of ducts, bar or angle reinforcing damper rods and items made of uncoated mild steel shall be painted with two coats of two coats primer or provide galvanized

3. <u>Rectangular Ducts.</u>

- a) Construct ductwork and supports to meet all functional criteria defined in section VII, of the SMACNA "HVAC Duct Construction Standards Metal and Flexible" 2005 Edition. Hanger spacing shall not exceed 8'.
- 4. Ells. Rectangular ells of ninety degrees shall be mitered and fitted with AERO/DYNE, "HEP" or equivalent, adjustable turning vane of airfoil contour design. Side rails shall be installed so that vane at heel of elbow shall fit snugly without air passing on the back side. Spacing of vanes according to manufacturers recommendations.

5. Round Ducts.

- a) <u>Galvanized.</u>
- United McGill "Uni—Rib" spiral lockseam with standing rib duct. For round ducts, 8" diameter or less, provide Noll or Young and company snap—lock galvanized steel.
- . Round elbows shall be United McGill pleated or welded gore for use with "Uni—Seal" or "Uni—Rib" ducts (5 piece ells) Non-welded gore elbows for use with snap lock ducts shall be taped at gore intersections.

6. <u>Duct Joints.</u>

- a) Rectangular. All ducts shall utilize "Ductmate 25/35" factory fabricated duct joint connectors with #440 gasket tape. Flanged interior gaskets shall be Ductmate #440 or Butyl Rubber Gasket which meets Mil—C 18969B, Type II Class B, and TTS—S—001657 must also pass UL—723. The material must not contain any vehicle that will support fungal or bacterial growth. Formed on flanges shall not be accepted for any duct exceeding 42" in width or any duct subjected to greater than 2" W.G...
- b) Round. All round ducts shall utilize male—female slip joints with minimum three (3) sheet metal screws. 0—20" ducts shall utilize sealing compound applied continuously around joint before assembling and after fastening. Wrap joints with 3" wide duct tape. 21" — 72" ducts, use 3—piece, gasketed, flanged joints consisting of two internal flanges (with

integral mastic sealant), and one external closure band. Ductmate Spiralmate or equal.

- a)Interior to Building Hardcast fiber tape and liquid adhesive. DT—5300 or DT—540 tape. FTA—20
- b)Exterior to Building For joints exposed to weather, sealant shall be G.E. silicone. For joints not exposed to weather, sealant shall be Eco-Duct Seal 44-60, or United Sheet Metal.
- c) Exposed Ducts. All joints shall use Hardcast Galva—Grip or equivalent. Joint shall be finished clean from outward appearance.

8. <u>Flexible Insulated Ducts.</u>

adhesive. Ductmate PROseal.

- a) Shall be J.P. Lamborn Company Type AMF-07 or Thermoflex M-KE acoustical low pressure duct. Duct shall be listed and labeled UL—181 Air Duct; meet NFPA—HUD minimum standards and comply with UMC 6. Duct factory R-value 4.2 minimum. In un-conditioned spaces, R-8 minimum.
- b) Hangers shall consist of minimum 3" wide 28 gauge galvanized steel and shall be spaced a maximum of 36" on center. Flexible duct shall be installed in compliance with the manufacturer's latest installation instructions. No kinks or sharp bends allowed. Turning radius shall be a minimum of 1.5 times diameter of duct. A copy of which shall be at the site during and after installation. Provide a minimum of at least one hanger per duct section.
- c) Connections to round ducts or collars shall be made with galvanized or stainless steel worm clamps or "Panduit" adjustable clamps listed by UL—181.

a)Unless indicated otherwise on the drawings, flexible duct shall be limited to the final 7 foot portion of the duct system connecting to the supply diffuser or return grille. Flex duct shall be limited to factory cut pieces with factory applied end connections.

A. <u>Volume Dampers.</u>

1. Branch Duct Volume Damper — Volume control damper (VCD) in square or rectangular ducts shall be as follows: Opposed blade, 6" maximum blade width, 16— gauge blade, 48" maximum length, nylon or oil impregnated bronze bearings, 1/2" diameter pin shaft, 16-gauge channel frame, actuating rod out of air stream. VCD in round duct shall be as follows: Damper blade full height of branch and 1" less than branch width. All branch dampers shall have regulator with spring loaded shaft nut and serrated self-locking die cast core. Ventlok 640. Provide remote ceiling operator with chrome plated or painted cover where shown on drawings or where damper control is otherwise inaccessible.

C. INSULATION.

1. <u>General.</u>

- a)Insulation shall be provided in accordance with the "National Insulation Contractors Association" manuals. Insulation, except for interior duct liner, shall be applied by a Contractor holding a valid California C-2 License.
- b) All insulation shall be instrict compliance with California Building Energy Efficiency Standards, 2013 Edition, Title 24.
- c) Refer to table 120.3—A for pipe insulation thickness required. This shall be a minimum. If construction documents call for a higher rating, the higher rating shall apply.
- d)Insulation shall have a flame spread of not more than 25 and a smoke developed rating of not more than 50.

2. <u>Ducts.</u>

- a) General. All supply, return, exhaust ducts and plenums shall be insulated externally and/or lined internally as specified herein or as indicated on the drawings. Ducts in directly or indirectly conditioned spaces shall be insulated to aminimum level of R4.2 Ductwork in unconditioned spaces such as an attic where the roof insulation is at the ceiling level or where located outdoors shall have an insulation level of R8 minimum.
- b) Ducts in Attics. All supply and return ducts shall be insulated externally with 2" thick fiberglass 3/4# density. Where rectangular ducts are lined internally, they shall be wrapped on the exterior with 1" thick fiberglass, 3/4# minimum density.
- c) Interior Duct Surfaces. All supply, return. or exhaust duct connections to air conditioning units or fans shall be internally lined for a minimum distance of ten lineal feet upstream and downstream of fan unless otherwise indicated on the drawings. Interior duct liner where applied for attenuation purposes only shall be 1" thick Manville "Permacote Linacoustic" glass fiber and thermosetting resin duct liner, R-4.2. Provide with antimicrobial edge coating. See paragraph above.

3. Application.

- a) <u>Duct Wrap.</u> Shall be tightly wrapped around ducts to prevent sagging with longitudinal and transverse lap of at least 6". Laps shall be wired or stapled to eliminate gaps. Insulation shall be secured by wrapping with 18 gauge galvanized wire 12 o.c. adhesive. Insulation shall be applied with density identification exposed.
- b) <u>Duct Liner</u> Shall be adhered to clean metal with minimum 100% coverage of adhesive such as 3M Adhesive #38, additionally secured with approved mechanical clips or welded pins per SMACNA standards. Provide with antimicrobial edge coating. Apply per paragraph 2 d) above. Coating edges with adhesive is not acceptable.

PART 3 - INSTALLATION

A. <u>Ductwork.</u>

1. <u>General.</u>

a)Installation shall conform with NFPA 90A and SMACNA Low Pressure Duct Construction Standards 2005 Edition. Provide mounting and supporting of Ductwork and accessories including, but not limited to, structural supports, hangers, vibration isolators, stands, clamps and brackets, access doors, and dampers. Install ductwork accessories as indicated in accordance with the manufacturer's printed instruction. Allow clearance for inspection, repair, replacement, and service. Ductwork and accessories shall be installed in a manner to prevent vibration and rattling.

2. <u>Deflectors.</u>

a)Provide in rectangular elbows, duct mounted supply outlets, take—off or extension collars to supply outlets, and tap—in branch take—off connections. 45 degree take—off is an acceptable alternative for low velocity systems (below 1,500 FPM).

3. <u>Support.</u>

a) All ducts shall be supported and seismically braced in compliance with the Guidelines For Seismic Restraints For Mechanical Systems as published by the Sheet Metal Industry Fund of Los Angeles and the Plumbing and Piping Industry Council, Inc., of Los Angeles 2008 Edition or OSHPD Pre—Approval No. OPM—0043—13 the "Maon Industries Restraint System". Copies of the above publication and details shall be provided by the Contractor and maintained at the project site until final acceptance.

4. <u>Grilles.</u>

b)Each air inlet and outlet shall be flush with finished surface of wall or ceiling and shall be securely attached thereto. Provide plaster grounds at locations of all wall and hard surfaced ceiling grilles.

5. <u>Branch Take-Offs.</u>

a) All branch ducts from main supply air and to return air trunk duct shall be provided with splitter blade full height of branch take—off and 1" less than branch width. Regulators to be Young or equal. Dampers located in inaccessible areas shall have extended shafts with concealed regulator in adjacent ceiling or wall.

6. <u>Access.</u>

a)Provide duct access doors as required to adjust equipment and dampers. Provide wall or ceiling access panels, or remote actuators as required where equipment and dampers are not otherwise

7. Flexible Connections.

a)Connection of ductwork to any vibrating equipment shall be with 3" (min.) flexible connection. Install with ample slack and uniform gap. There shall be no metal to metal contact across flexible connection. Flexible connections exposed to weather shall have a protected sheet metal cover.

8. <u>Dampers.</u>

a)Install volume control damper and damper regulator on all new branch ducts.

9. <u>Flexible Glass Fiber Duct.</u>

a) The use of flexible duct is limited to the last 7 feet of each branch duct (i.e. one 7 foot section of flexible duct may used to connect the grille to the sheet metal branch duct). No joints permitted in 7' length. Joints shall be installed with metal bands and fiber tape and adhesive. Minimum turn radius shall be in accordance with SMACNA Standards (turn radius of duct centerline not less than 1.5 times the duct diameter).

<u>B.Tests.</u>

1. <u>Ductwork.</u>

- a) All transverse joints and longitudinal seams shall conform to SMACNA's Class A sealing requirements as defined on page 1—6 of the 1985 SMACNA Manual, first edition.
- b) Constant volume systems supply ductwork allowable leakage = 1% of design CFM.
- c)Constant volume systems return ductwork allowable leakage = 2% of design CFM.
- d) Variable air volume systems supply ductwork allowable leakage: Fan to V.A.V. boxes = 1% of design CFM. V.A.V. boxes to registers = 2% of design CFM.
- e) Variable air volume systems return ductwork allowable leakage = 2% of design CFM.
- f) Installed ductwork shall be tested prior to installation of access doors, take-offs, etc.
- g) All leak testing shall be witnessed by the inspector of record or the specifying engineer. The contractor shall provide minimum 72 hours notice prior to testing. Any testing not witnessed by the IOR or engineer shall be considered invalid.
- h)Testing shall be performed on the first 200' of high pressure ductwork installed as required to establish quality of workmanship for this project. Testing shall be performed as follows:
- i) Perform test in accordance with HVAC Air Duct Leakage Test Manual. Use a certified orifice tube for measuring leakage. Define section of system to be tested and blank off. Determine the percentage allowed leakage for section of test duct. Determine allowable CFM leakage for test section. Pressurize to operating pressure and repair any significant audible leaks. Re-pressurize and measure leakage. Repeat steps until leakage is within tolerances specified.
- C.System Air and Water Balance.

1. <u>General.</u>

- a)The contractor shall employ the services of an independent system balancing company registered by NEBB or AABC. The balancing contractors shall be limited to one of the following:
- b)Submit within thirty (30) days after receipt of contract, submittal data forms of the selected balance company for the testing and balancing of the air conditioning, heating, and ventilation systems.
- c) After development of the balancing procedure to be followed for each respective system, a representative of the system balancing company shall periodically visit the jobsite, particularly before any insulation is applied to ducts or piping, and confirm the suitability of the ducts, piping, accessories, hardware, and access panels installed for balancing. Any noted deficiencies shall be reported to the Contractor in writing with a copy to the Engineer. Noted deficiencies shall be corrected at this time by the Contractor.
- d)Final system testing and balance shall not begin until the system has been completed and is in full working order. The Contractor shall put all heating, ventilating, and air conditioning systems and equipment into full operation and shall continue the operation each working day during the balancing procedure. The balancing company shall be responsible for all adjustments to the heating, cooling and ventilating equipment necessary for the system to operate as specified. Upon completion conduct a running test under substantial load conditions demonstrating to the satisfaction of the Owner's representative that all equipment and controls are operating as intended and have been properly adjusted for these conditions.
- e) The system balance company shall include an extended warranty of one hundred eighty (180) days after completion and acceptance of test and balance work, during which time the Engineer at his discretion may request a recheck, or resetting of any outlet, fan, etc., as listed in report. The system balance company shall provide technicians to assist the Engineer in any re-test required during this period. Seasonal re—balance during the first year of operation is part of the scope of this specification.
- f) The flow quantities shown on the drawings are not to be considered absolute. If changes in flow quantities are required to attain comfort conditions in any area, the balancing company shall make the required changes at no extra cost.

2. <u>Procedure.</u>

a) The testing and balancing of the systems, including all equipment, ducts, piping, and accessories shall be done in strict compliance with the latest edition of the Procedural Standards for Testing, Adjusting, Balancing of Environmental Systems as published by National Environmental Balancing Bureau or equivalent AABC standard.

3. <u>Acceptance of Tests.</u>

a)In the event any tests or inspections prove unsatisfactory, such shall be made a matter of record. Acceptance of the system shall be postponed until all defects or improper adjustments have been corrected and the work is again inspected and tests satisfactorily repeated.

4. <u>Data to be Furnished.</u>

- a) At completion of running tests two (2) complete sets of data listed below for all items of equipment shall be furnished for incorporation in Owner's Equipment Manual for the project:
- b) Manufacturer's equipment outline drawings.
- c)Manufacturer's performance curves for fans, pumps, and flow control devices and capacity tables for
- d)Pertinent running test data; such as system test points, test point data, horsepower, RPM, FLA, etc., including final instrument set points and adjustments as left.

D.Temperature Controls.

1. <u>General.</u>

- a) A complete system of automatic temperature control shall be provided. Complete system shall consist of the existing plus that which is necessary for proper function and operation.
- b) Wall plates for any control located in finished areas shall match finish of light switch plates in that
- c) All conduit and wiring shall be installed in strict compliance with spec division 16, electrical.

d)Under HVAC Control and Automatic Logic scope, PacWest is the campus vendor.

- 2. <u>Sequence of Operation.</u>
- a)Refer to temperature control diagram on the drawings. With initial submittal and on record drawings include narrative of system operation describing start—up, automatic operation, and shut—down.

3. <u>Nameplates.</u>

a)Each control device and starter shall be identified by black micarta nameplates with 1/2" white etched letters designating name of control. Controls located within conditioned space shall have micarta nameplates, in finish as selected by Architect, and labelled with 1/8" white etched letters.

<u>4.Diagrams.</u>

a)Provide a complete plastic faced record diagram of the installed control system in a frame located and rigidly secured on the interior face of temperature control panel door or as directed by the Architect. Diagram shall bare date of Owner's acceptance of system.

<u>5.Electrical Wiring.</u>

a) All electrical wiring and conduit in connection with the drawings shall be provided under Specification Section 15800. Any wiring not shown on the drawings but required for proper operation of the automatic temperature control system shall be performed under this Section.

<u>6.Control Panels.</u>

a) Surface and/or flush mounted temperature control panels, with continuously hinged and latched door shall be provided where shown on the drawings or required by the control system. All time clocks, relays, switches, and contactors, shall be mounted in the control panel, as indicated on the control diagrams. Each switch shall be given a black micarta nameplate with 1/2" white engraved letters indicating the piece of equipment it controls. Shop drawings of the panels shall be submitted for review before fabrication.

7.Room Thermostats.

a)Provide UC Merced standard thermostats.

b) All electrical wiring and conduit in connection with the automatic temperature control system shown on the drawings shall be provided by the controls contractor. Any wiring not shown on the drawings but required for proper operation of the automatic temperature control system shall be performed by the control manufacturer.

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University of California Merced

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