



DLR Group inc.
a Nebraska corporation
1128 Lincoln Mall, Suite 103
Lincoln, NE 68508

05/06/2024

To Bidders

Re: Project Name: University of Nebraska- Lincoln NHLIA TI
DLR Group Project No.: 10-23123-00
City of Lincoln Record Number: B2302110

Dear Bidders of the UNL NHLIA Tenant Improvement Project:

This letter summarizes responses to the questions received prior to 10am on 5/6/24. Questions asked after 10am on 5/6/24 will be answered by 5/14/24. Bidder questions are due May 8th by 2pm CST to Wilma Hanson-McCoy (per Project Manual Section 002113).

Question #	Question	Response
1	Substitution Request - 095426 Linea T&G Veneer for Certainteed	Rejecting substitution request based on NRC differences in product data and no benefit to project cost or timeline noted.
2	Resinous flooring - says in Teaching Kitchen, but where else?	ADD#3: Resinous flooring has been removed from drawings and specification. Teaching Kitchen is not a part of this scope.
3	Location of PANEL P1C	ADD#3: Attachment added showing location of panel P1C
4	Confirm Bid Date	Answered in Addendum 2.
5	Finish Schedule - Stonehard and teaching kitchen finishes	ADD#3: Multiple finishes referencing teaching kitchen have been removed from drawings and specification. Teaching Kitchen is not a part of this scope.
6	Addendum numbering and A&D uploads	Clarified in Addendum 2. As of 5/2/24, project bid documents and listed addendum (Addendum 2) is correct on A&D website. Addendum 1 was issued as a part of original bid documents.
7	Provide As-Built of existing construction	As-builts are unavailable at this time as they reflect work previously planned for this area that was not completed at the time of the original construction. Because accurate as-builts are not available, the owner has agreed to allow one additional site walk-through from 9am-10am on 5/10/24. This is not a required walk-through. Design team and owner will not answer questions during this time.

ELEVATE *the*
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THROUGH DESIGN

8	Confirm controls contractor already inside the building	Engineered Controls are currently utilized in the building.
9	TC00.1 - Confirm there are no alternates or unit prices required	There are no alternates or unit prices planned.
10	Is the VRF system currently functional?	The VRF system is currently functional, but will need to be modified as shown in the drawings.
11	Who is providing low volt cabling and terminations?	By Contractor. See responsibility matrix on TC0.1U.
12	Can low voltage cabling be free-aired or in conduit?	See TC0.0U Chart G - Cable pulling guides. At locations with exposed ceiling, provide cable tray.
13	Has the permit been paid for?	DLR Group/Owner has covered the initial plan review costs. City of Lincoln record number is B2302110. City of Lincoln outstanding plan review balance is \$2,982.00. Contractor responsible for any outstanding balance or additional permitting required.
14	Clarify duct insulation thickness. Schedules (ductwork schedule, ductwork insulation schedule), specs, and notes in drawing are in conflict.	Provide insulation per the Duct Insulation Schedule. Provide liner per the Ductwork Schedule. On AME.3-U and Drawings.
15	Provide Pre-Bid Attendance	ADD#3 - Pre-Bid Attendance sheet included.
16	City of Lincoln Comment: 1. Please identify sidelights adjacent to doors as "CTG" or tempered glazing. Door elevations G1-C, G2, G3-A, G3-J, G7. 2. L.M.C. 27.69; Signs are not allowed under this building permit. If the applicant intends to install signs on the property or the exterior of the building, sign permits will be required and will need to be applied for separately. Questions about signage should be addressed to RJ Hamilton, Dustin at 402-441-6424 or 402-441-6448, rehamilton@lincoln.ne.gov or dhladik@lincoln.ne.gov. No action needed at this time.	ADD#3- Updated sheet A.A3-U. CG has been revised to CTG for sidelights. City has reviewed and approved for permit.
17	City of Lincoln Comment: KEF 4 and KEF5 5 are turned around on the roof plan. Are the walls that the 3 hoods for KEF 4 on non-combustible. They will need to be, or a noncombustible wall will need to be built inside of the outer wall. Are the VRF terminal units sharing a return air plenum? If the total cfm of shared return is over 2000 cfm they will need smoke shutdown and supervision per 2018 IMC section 606. How are you getting return air back to TU1C06? How much refrigerant is in PQRY-P312?	ADD#3- KEF 4 and KEF 5 are no longer in scope and have been removed from construction documents. Smoke detectors have been added to VRF terminal units. A transfer duct has been added for TU1C06. There are 73.1 lbs. of refrigerant and approximately 165,000 cubic feet of communicating spaces served by the heat pump. With this amount of communicating spaces, there could be up to 4,290lbs of R410A. City has reviewed and approved for permit.

	Communicating spaces can dilute 26lbs of R410A per 1000 cubic feet of space per 2018 IMC 1104.	
18	City of Lincoln Comment: The low pressure branches on the kitchen gas riser diagram need to be sized to ensure the system will be sized for the gas demand. The Lincoln gas code is the gas piping code enforced in this jurisdiction. If a chemical dispenser will be installed a separate waterline and isolation valve will be required for this piece of equipment. Any trap subject to infrequent use will require a trap primer to protect against trap seal loss. An additional Water closet will be required in the Men's restroom.	ADD#3- Riser diagram has been revised and has eliminated kitchen scope. No chemical dispenser will be installed. Floor drains are specified to be provided with a trap guard. Additional water closet will be utilized from existing hotel lobby restroom banks. City has reviewed and approved for permit.
19	There is a spec for resinous flooring in the project manual and is listed in the RFS, but the finish plan does not show any rooms getting it.	ADD#3: Resinous flooring has been removed from drawings and specification. Teaching Kitchen is not a part of this scope.
20	Is this job tax exempt?	Yes.
21	Are flex drops allowed for the fire sprinkler system?	Yes.
22	Please provide Marriott's Fire Protection & Life Safety Design Standards (Module 14)	Not applicable because Marriott is not owner or tenant of space.
23	Per note 6 the DOAS is to provide modulating return. Please confirm you're just pulling wild non-ducted return from the plenum as only outside air is shown on plan up to the unit	Modulating return is not required, this note will be removed. Drawings showing ducted return will be issued in ADD#4.

24	In Spec Section 084113 – Aluminum Framed Entrances and Storefronts On 2.3 Storefront Systems A: You have Basis-of-Design of Kawneer 451T – This is an exterior thermally broken storefront system (2" x 4 ½" system). For interior framing it should be Kawneer 450 – this is for ¼" glass and 1 ¾" x 4 ½" aluminum system (non-thermal) B: part 3 is Glazing Plane is Back – but your detail is Center Glaze on drawings. On 2.4 Entrance Door System You call out for the door stile to be D500 wide stile – but on Sheet A.A3-U on Door Type E it says Medium Stile Door With the hardware for the door I would recommend staying with the D500 Wide Stile to accept the handle and latching devices. On Sheet A.A3-U Door and Frame Schedule You call out for the doors on the Aluminum Frames to be 1" thick - wood doors – but on detail 15 & 16 is says aluminum storefront and points to the doors. So are the doors that go onto the aluminum frames to be aluminum door? The door are also 1 ¾" thick. Is the Finish on the aluminum frames really going to be 2 different Sherwin Williams painted colors of P2 & P5 instead of all being one color. Or can the frames be an anodized finish color?	ADD#3 - Kawneer 450 added. Will use center glazed. Plan for wide stile. Alum storefront doors changed from WD panel to Alum. Yes two different colors per drawings.
25	Are the walls in the Teaching Kitchen included in this bid?	Interior walls to enclose teaching kitchen space are included in scope. Interior finish on exterior walls (GWB and Finish) in teaching kitchen space are not included in scope.

26	Could you also confirm to what extent, if any, there are Buy America requirements for the project? Included image from specification saying " 29. BUY AMERICA. To the greatest extent practicable, contractors are encouraged to purchase American-made equipment and products with funding provided under the EDA financial assistance awards."	If a product is available via American manufacturing, it needs to be purchased over a non-American-made product.
27		Add duct to VRF to allow for filter to be closer to ceiling height at all locations, note for contractor to provide new filters. Change will be reflected in ADD#4.
28		ADD-3: Note added: Along exterior wall to provide batt insulation in stud cavity where missing (verify GWB along exterior)
29		ADD-3: Note Added - Finish install of vestibule including gyp and door install.
30		Elec contractor to provide floor box covers for existing rough ins. Provide allowance of \$1500.
31		Confirmed 14'6 ceiling misses exterior door overhead door and light fixtures.
32		Finish install of overhead door controls in exterior wall. Provide conduit and re-run control wiring. Power is shown on the electrical drawings. Low voltage controls to be provided and specified with the door opener; door opener provider/contractor will install associated controls.
33		ADD-3: Added access panels at walls with pipe cleanouts. Verified VRF has remote dampers.

Thank you,

Emily Roesler
Designer | Associate
DLR Group

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a Nebraska corporation

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DLR GROUP PROJECT NO. 10-23123-00

COMBINED CONTRACT
May 06, 2024

NOTICE TO BIDDERS:

Amend the Project Manuals and Drawings to the above referenced project as follows:

PROJECT MANUAL

ITEM NO. 1. SECTION 000110 TABLE OF CONTENTS

- A.** Delete Section 000110 in its entirety and replace with attachment #1.
 - 1. Section 095436 removed.
 - 2. Section 096723 removed.

ITEM NO. 2. SECTION 083113 – ACCESS DOORS AND FRAMES

- A.** Delete Section 083113 in its entirety and replace with attachment #2.
 - 1. Revise section 083113, paragraph 2.1.A.3. to say “ 3. Locations: Ceiling and Wall.”

ITEM NO. 3. SECTION 084113 ALUMINUM FRAMED ENTRANCES AND STOREFRONTS

- A.** Delete Section 084113 in its entirety and replace with attachment #3.
 - 1. Revise section 084113, paragraph 2.3.A to read as follows:
 - 1. “Basis-of-Design Product: Subject to compliance with requirements, provide Kawneer North America, an Arconic company; Trifab VersaGlaze 450 Framing System, 2-inch sightline by 4-1/2-inch deep storefront framing or comparable products by one of the following:”
 - 2. Revise section 084113, paragraph 2.3.B.3. to read as follows:
 - 1. “Glazing Plane: Center.”

ITEM NO. 4. SECTION 093013 – CERAMIC TILING

- A.** Delete Section 093013 in its entirety and replace with attachment #4.

1. Revise section 093013, paragraph 2.3.A to say “ A. Tile Type CT-3,4 : Ceramic Tile.”

ITEM NO. 5. SECTION 095436 – SUSPENDED DECORATIVE GRIDS

- A. Delete Section 095436 in its entirety.
 1. Suspended decorative grids are not a part of the scope of work.

ITEM NO. 6. SECTION 096723 – RESINOUS FLOORING

- A. Delete Section 096723 in its entirety.
 1. Resinous flooring is not a part of the scope of work.

DRAWINGS

ITEM NO. 7. DRAWING A.A1-U FLOOR PLAN

- A. Delete A.A1-U in its entirety and replace with attachment A.A1-U
 1. Notes added for access panel locations.
 2. Note added to finish vestibule work.
 3. General note added for contractor to install batt insulation in exterior wall stud cavities where missing.

ITEM NO. 8. DRAWING A.A3-U DOOR, FRAME, AND GLAZING DETAILS

- A. Delete A.A3-U in its entirety and replace with attachment A.A3-U.
 1. Sidelight glazing type changed from CG to CTG.
 2. Door panel type “E” changed to Wide-Stile.
 3. DOOR AND FRAME SCHEDULE panel material types changed to ALUM.

ITEM NO. 9. DRAWING A.A4-U FINISH FLOOR PLAN

- A. Delete A.A4-U in its entirety and replace with attachment A.A4-U.
 1. FINISH SCHEDULE has been revised to remove teaching kitchen finishes: CT-1, CT-2, CT-5, 095436 - SUSPENDED DECORATIVE GRIDS, and 096723 - RESINOUS FLOORING.
 2. Resinous flooring is not a part of the scope of work.

**ADDITIONAL INFORMATION TO CLARIFY
QUESTIONS RECEIVED DURING BIDDING**

ITEM NO. 10. Location of Panel P1C

- A.** For your reference, see drawing and images in attachment #5 for location of panel P1C.

ITEM NO. 11. Pre-bid Attendance Sign-In Sheet

- A.** For your reference, see attachment #6 for pre-bid attendance.

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DOCUMENT 000110 – TABLE OF CONTENTS – VOLUME 1 OF 2

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

Document 000107	Seals
Document 000110	Table of Contents
Document 001113	Invitation to Bid for Construction Services
Document 002113	Instructions to Bidders Davis-Bacon-Wage-Rates_Lincoln-NE-Lancaster Requirements for Affirmative Action (EEO) Form CD-512_Certification Regarding Lobbying EDA Project Sign
Document 002600	Procurement Substitution Procedures Procurement Substitution Request Form
Document 004113.11	Bid Form – EDA Schedule A Work
Document 006000	Procurement and Contracting Requirements and Forms EDA – Contracting Provisions for Construction AIA Document A101-2017 – Exhibit A – Insurance and Bonds

DIVISION 01 – GENERAL REQUIREMENTS

Section 011001	Summary and General Requirements Post-Bid Request For Substitution Form Off-Site Storage Agreement Form Consent of Surety Company to Off-Site Storage Agreement Form AIA Document C106 – 2022 – Digital Data Licensing Agreement
Section 014000	Quality Requirements
Section 017300	Execution

DIVISIONS 02 THROUGH 05 – NOT USED

DIVISION 06 – WOOD, PLASTICS AND COMPOSITES

Section 061053	Miscellaneous Rough Carpentry
Section 062023	Interior Finish Carpentry

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Section 078413	Penetration Firestopping
Section 078443	Joint Firestopping
Section 079200	Joint Sealants
Section 079219	Acoustical Joint Sealants

DIVISION 08 – OPENINGS

Section 081113	Hollow Metal Doors and Frames
Section 081416	Flush Wood Doors
Section 083113	Access Doors and Frames
Section 084113	Aluminum-Framed Entrances and Storefronts
Section 087100	Door Hardware
Section 088000	Glazing
Section 088300	Mirrors

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DIVISION 09 – FINISHES

Section 092216	Non-Structural Metal Framing
Section 092900	Gypsum Board
Section 093013	Ceramic Tiling
Section 095113	Acoustical Panel Ceilings
Section 095426	Suspended Wood Ceilings
Section 096513	Resilient Base and Accessories
Section 096813	Tile Carpeting
Section 097200	Wall Coverings
Section 098433	Sound-Absorbing Wall Units
Section 099123	Interior Painting

DIVISION 10 – SPECIALTIES

Section 102600	Wall and Door Protection
Section 104416	Fire Extinguishers

DIVISION 11 – EQUIPMENT – NOT USED

DIVISION 12 – FURNISHINGS

Section 123661.16	Solid Surfacing Countertops
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DIVISIONS 13 AND 14 – NOT USED

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DOCUMENT 000110 – TABLE OF CONTENTS – VOLUME 2 OF 2

DIVISION 21 – FIRE SUPPRESSION

Section 210500	Common Work Results for Fire Suppression
Section 211000	Fire Suppression Systems

DIVISION 22 – PLUMBING

Section 220500	Common Work Results for Plumbing
Section 220513	Common Motor Requirements for Plumbing Equipment
Section 220519	Meters and Gages for Plumbing Piping
Section 220523	General Duty Valves for Plumbing Piping
Section 220529	Hangers and Supports for Plumbing Piping and Equipment
Section 220548	Vibration and Seismic Control for Plumbing Piping and Equipment
Section 220553	Identification for Plumbing Piping and Equipment
Section 220700	Plumbing Insulation
Section 221116	Domestic Water Piping
Section 221123	Domestic Water Pumps
Section 221316	Sanitary Waste and Vent Piping
Section 221319	Sanitary Waste Piping Specialties
Section 223000	Plumbing Equipment
Section 223400	Fuel Fired, Domestic Water Heaters
Section 224000	Plumbing Fixtures

DIVISION 23 – HEATING VENTILATING AND AIR CONDITIONING

Section 230500	Common Work Results for HVAC
Section 230513	Common Motor Requirements for HVAC Equipment
Section 230519	Meters and Gages for HVAC Piping
Section 230523	General-Duty Valves for HVAC Piping
Section 230529	Hangers and Supports for HVAC Piping and Equipment
Section 230548	Vibration and Seismic Control for HVAC Piping and Equipment
Section 230553	Identification for HVAC Piping and Equipment
Section 230593	Testing Adjusting and Balancing for HVAC
Section 230700	HVAC Insulation
Section 230900	Instrumentation and Control for HVAC
Section 232113	Hydronic Piping
Section 232116	Hydronic Piping Specialties
Section 232300	Refrigerant Piping
Section 233113	Metal Ducts
Section 233300	Air Duct Accessories
Section 233423	HVAC Power Ventilators
Section 233700	Air Outlets and Inlets
Section 238129	Variable-Refrigerant Flow HVAC Systems

DIVISIONS 24 AND 25 – NOT USED

DIVISION 26 – ELECTRICAL

Section 260500	Common Work Results for Electrical
Section 260519	Low-Voltage Electrical Power Conductors and Cables
Section 260526	Grounding and Bonding for Electrical Systems

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Section 260533	Raceways and Boxes for Electrical Systems
Section 260553	Identification for Electrical Systems
Section 262400	Switchboards and Panelboards
Section 262726	Wiring Devices
Section 262816	Enclosed Switches and Circuit Breakers
Section 265100	Interior Lighting
Section 266000	Lighting Accessories

DIVISION 27 – NOT USED

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

Section 283100	Fire Alarm and Detection System
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DIVISIONS 29 THROUGH 33 – NOT USED

END OF DOCUMENT 000110

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SECTION 083113 - ACCESS DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes access doors and frames for walls and ceilings.
- B. Related Requirements:
 - 1. Section 077200 "Roof Accessories" for roof hatches.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details material descriptions, dimensions of individual components and profiles, and finishes.

PART 2 - PRODUCTS

2.1 ACCESS DOORS AND FRAMES

- A. Flush Access Doors with Concealed Flanges:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Acudor Products, Inc.
 - b. Babcock-Davis.
 - c. JL Industries, Inc.; a division of the Activar Construction Products Group.
 - d. Karp Associates, Inc.
 - e. Larsens Manufacturing Company.
 - f. Milcor; Commercial Products Group of Hart & Cooley, Inc.
 - g. Nystrom, Inc.
 - 2. Description: Face of door flush with frame; with concealed flange for gypsum board installation and concealed hinge.

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3. Locations: Ceiling and wall.
4. Door Size: 24 by 24 inches.
5. Uncoated Steel Sheet for Door: Nominal 0.060 inch (1.52 mm), 16-gauge, factory primed.
6. Frame Material: Same material and thickness as door.
7. Latch and Lock: Cam latch, key operated.

2.2 MATERIALS

- A. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
- B. Steel Sheet: Uncoated or electrolytic zinc coated, ASTM A879/A879M, with cold-rolled steel sheet substrate complying with ASTM A1008/A1008M, Commercial Steel (CS), exposed.
- C. Frame Anchors: Same material as door face.
- D. Inserts, Bolts, and Anchor Fasteners: Hot-dip galvanized steel according to ASTM A153/A153M or ASTM F2329.

2.3 FABRICATION

- A. General: Provide access door and frame assemblies manufactured as integral units ready for installation.
- B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Furnish mounting holes, attachment devices and fasteners of type required to secure access doors to types of supports indicated.
 1. For concealed flanges with drywall bead, provide edge trim for gypsum panels securely attached to perimeter of frames.
- D. Latch and Lock Hardware:
 1. Quantity: Furnish number of latches and locks required to hold doors tightly closed.
 2. Keys: Furnish two keys per lock and key all locks alike.

2.4 FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

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- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- D. Painted Finishes: Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.
 - 1. Factory Primed: Apply manufacturer's standard, lead- and chromate-free, universal primer immediately after surface preparation and pretreatment.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with manufacturer's written instructions for installing access doors and frames.

3.3 ADJUSTING

- A. Adjust doors and hardware, after installation, for proper operation.

END OF SECTION 083113

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Storefront framing.
 - 2. Manual-swing entrance doors.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: For aluminum-framed entrances and storefronts. Include plans, elevations, sections, full-size details, and attachments to other work.
 - 1. Include details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the exterior.
 - 2. Include full-size isometric details of each type of vertical-to-horizontal intersection of aluminum-framed entrances and storefronts, showing the following:
 - a. Joinery, including concealed welds.
 - b. Anchorage.
 - c. Expansion provisions.
 - d. Glazing.
 - e. Flashing and drainage.
 - 3. Show connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
 - 4. Include point-to-point wiring diagrams showing the following:
 - a. Power requirements for each electrically operated door hardware.
 - b. Location and types of switches, signal device, conduit sizes, and number and size of wires.

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- C. Samples for Verification: For each type of exposed finish required, in manufacturer's standard sizes.
- D. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.
- E. Delegated-Design Submittal: For aluminum-framed entrances and storefronts indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Energy Performance Certificates: For aluminum-framed entrances and storefronts, accessories, and components, from manufacturer.
 - 1. Basis for Certification: NFRC-certified energy performance values for each aluminum-framed entrance and storefront.
- C. Product Test Reports: For aluminum-framed entrances and storefronts, for tests performed by a qualified testing agency.
- D. Sample Warranties: For special warranties.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For aluminum-framed entrances and storefronts to include in maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- B. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
 - 1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.

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1.7 MOCKUPS

- A. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
1. Build mockup of typical wall area as directed by Architect.
 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
 - a. Structural failures, including, but not limited to, excessive deflection.
 - b. Noise or vibration created by wind and thermal and structural movements.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - d. Water penetration through fixed glazing and framing areas.
 - e. Failure of operating components.
 2. Warranty Period: Two years from date of Substantial Completion.
- B. Special Finish Warranty: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
1. Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Hunter units when tested according to ASTM D2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 2. Warranty Period: 20 years from date of Substantial Completion.

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PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain all components of aluminum-framed entrance and storefront system, including framing and accessories, from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design aluminum-framed entrances and storefronts.
- B. General Performance: Comply with performance requirements specified, as determined by testing of aluminum-framed entrances and storefronts representing those indicated for this Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.
 - 1. Aluminum-framed entrances and storefronts shall withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
 - 2. Failure also includes the following:
 - a. Thermal stresses transferring to building structure.
 - b. Glass breakage.
 - c. Noise or vibration created by wind and thermal and structural movements.
 - d. Loosening or weakening of fasteners, attachments, and other components.
 - e. Failure of operating units.
- C. Structural Loads:
 - 1. Wind Loads: As indicated on Drawings.
 - 2. Other Design Loads: As indicated on Drawings.
- D. Deflection of Framing Members: At design wind pressure, as follows:
 - 1. Deflection Normal to Wall Plane: Limited to 1/175 of clear span for spans of up to 13 feet 6 inches (4.1 m) and to 1/240 of clear span plus 1/4 inch (6.35 mm) for spans greater than 13 feet 6 inches (4.1 m) or an amount that restricts edge deflection of individual glazing lites to 3/4 inch (19.1 mm), whichever is less.
 - 2. Deflection Parallel to Glazing Plane: Limited to amount not exceeding that which reduces glazing bite to less than 75 percent of design dimension and that which reduces edge clearance between framing members and glazing or other fixed components to less than 1/8 inch (3.2 mm).
 - a. Operable Units: Provide a minimum 1/16-inch (1.6-mm) clearance between framing members and operable units.

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- E. Structural: Test according to ASTM E330/E330M as follows:
1. When tested at positive and negative wind-load design pressures, storefront assemblies, including entrance doors, do not evidence deflection exceeding specified limits.
 2. When tested at 150 percent of positive and negative wind-load design pressures, storefront assemblies, including entrance doors and anchorage, do not evidence material failures, structural distress, or permanent deformation of main framing members exceeding 0.2 percent of span.
 3. Test Durations: As required by design wind velocity, but not less than 10 seconds.
- F. Air Infiltration: Test according to ASTM E283 for infiltration as follows:
1. Fixed Framing and Glass Area:
 - a. Maximum air leakage of 0.06 cfm/sq. ft. (0.30 L/s per sq. m) at a static-air-pressure differential of 6.24 lbf/sq. ft. (300 Pa).
 2. Entrance Doors:
 - a. Single Doors: Maximum air leakage of 0.5 cfm/sq. ft. (2.54 L/s per sq. m) at a static-air-pressure differential of 1.57 lbf/sq. ft. (75 Pa).
- G. Energy Performance: Certify and label energy performance according to NFRC as follows:
1. Thermal Transmittance (U-factor): Fixed glazing and framing areas as a system shall have U-factor of not more than 0.50 Btu/sq. ft. x h x deg F (2.84 W/sq. m x K) as determined according to NFRC 100.
 2. Solar Heat Gain Coefficient (SHGC): Fixed glazing and framing areas as a system shall have SHGC of no greater than 0.30 as determined according to NFRC 200.
 3. Condensation Resistance: Fixed glazing and framing areas as a system shall have an NFRC-certified condensation resistance rating of no less than 55 as determined according to NFRC 500.
- H. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes.
1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.3 STOREFRONT SYSTEMS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Kawneer North America, an Arconic company; Trifab VG 450 Framing System, 2-inch sightline by 4 ½" deep storefront, or comparable products by one of the following:
1. Arcadia, Inc.
 2. EFCO Corporation.
 3. Oldcastle BuildingEnvelope™.

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4. Pittco Architectural Metals, Inc.
5. Trulite Glass & Aluminum Solutions, LLC.
6. Tubelite Inc.
7. U.S. Aluminum; a brand of C.R. Laurence.
8. YKK AP America Inc.

B. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.

1. Exterior Framing Construction: Thermally broken.
2. Glazing System: Retained mechanically with gaskets on four sides.
3. Glazing Plane: Center.
4. Finish: High-performance organic finish.
5. Fabrication Method: Field-fabricated stick system.
6. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
7. Steel Reinforcement: As required by manufacturer to meet wind loading requirements.
8. High Performance Sill Flashing: Manufacturer's standard extruded aluminum, thermally broken, sill flashing receptor with drainage weep holes.

C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.

D. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.

2.4 ENTRANCE DOOR SYSTEMS

A. Basis-of-Design Product: The design for aluminum-framed entrances and storefronts is based on the following:

1. EFCO Corporation:
 - a. Standard Interior Doors (Aluminum doors indicated as 1-3/4 inches thick on Door and Frame Schedule):
 - 1) D500 Wide Stile Door.
 - b. Interior Entrance and Storefront Systems: 402 (NT), 2-inch sightline by 4-1/2-inch-deep storefront framing.
 - c. Provide mullions with wider sightlines where indicated on Drawings.

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- B. Manufacturers: Subject to compliance with requirements, provide named product above or comparable product by one of the following:
 - 1. Kawneer North America; an Alcoa company.
 - 2. Manko Window Systems, Inc
 - 3. Oldcastle Building Envelope.
 - 4. TRACO.
 - 5. Tubelite.
 - 6. Wausau Window and Wall Systems.
 - 7. YKK AP American Inc.
- C. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
 - 1. Interior Vestibule Framing Construction: Nonthermal.
 - 2. Glazing System: Retained mechanically with gaskets on four sides
 - 3. Glazing Plane: Center.
 - 4. Finish: clear anodic finish and color anodic finish.
 - 5. Fabrication Method: Field-fabricated stick system.
 - 6. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 - 7. Steel Reinforcement: As required by manufacturer.

2.5 ENTRANCE DOOR HARDWARE

- A. Entrance Door Hardware: Hardware not specified in this Section is specified in Section 087100 "Door Hardware."
- B. General: Provide entrance door hardware and entrance door hardware sets indicated in door and frame schedule for each entrance door, to comply with requirements in this Section.
 - 1. Entrance Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and named manufacturers' products.
 - 2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
 - 3. Opening-Force Requirements:
 - a. Egress Doors: Not more than 15 lbf (67 N) to release the latch and not more than 30 lbf (133 N) to set the door in motion and not more than 15 lbf (67 N) to open the door to its minimum required width.
 - b. Accessible Interior Doors: Not more than 5 lbf (22.2 N) to fully open door.

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- C. Designations: Requirements for design, grade, function, finish, quantity, size, and other distinctive qualities of each type of entrance door hardware are indicated in "Entrance Door Hardware Sets" Article. Products are identified by using entrance door hardware designations as follows:
 - 1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in "Entrance Door Hardware Sets" Article.
- D. Cylinders: As specified in Section 087100 "Door Hardware."
- E. Weather Stripping: Manufacturer's standard replaceable components.
 - 1. Compression Type: Made of ASTM D2000 molded neoprene or ASTM D2287 molded PVC.
 - 2. Sliding Type: AAMA 701/702, made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.

2.6 GLAZING

- A. Glazing: Comply with Section 088000 "Glazing."
- B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers.
- C. Glazing Sealants: As recommended by manufacturer.

2.7 MATERIALS

- A. Sheet and Plate: ASTM B209 (ASTM B209M).
- B. Extruded Bars, Rods, Profiles, and Tubes: ASTM B221 (ASTM B221M).
- C. Extruded Structural Pipe and Tubes: ASTM B429/B429M.
- D. Structural Profiles: ASTM B308/B308M.
- E. Steel Reinforcement:
 - 1. Structural Shapes, Plates, and Bars: ASTM A36/A36M.
 - 2. Cold-Rolled Sheet and Strip: ASTM A1008/A1008M.
 - 3. Hot-Rolled Sheet and Strip: ASTM A1011/A1011M.
 - 4. Primer: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM, and prepare surfaces according to applicable SSPC standard.

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2.8 ACCESSORIES

- A. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
 - 1. Reinforce members as required to receive fastener threads.
- B. Concealed Flashing: Dead-soft, 0.018-inch- (0.457-mm-) thick stainless steel, complying with ASTM A240/A240M, of type recommended by manufacturer.
- C. Bituminous Paint: Cold-applied asphalt-mastic paint containing no asbestos, formulated for 30-mil (0.762-mm) thickness per coat.
- D. Rigid PVC Filler.

2.9 FABRICATION

- A. Form or extrude aluminum shapes before finishing.
- B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
- C. Fabricate components that, when assembled, have the following characteristics:
 - 1. Profiles that are sharp, straight, and free of defects or deformations.
 - 2. Accurately fitted joints with ends coped or mitered.
 - 3. Physical and thermal isolation of glazing from framing members.
 - 4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
 - 5. Provisions for field replacement of glazing from interior.
 - 6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.
- E. Storefront Framing: Fabricate components for assembly using screw-spline system.
- F. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
 - 1. At interior and exterior doors, provide compression weather stripping at fixed stops.
- G. Entrance Doors: Reinforce doors as required for installing entrance door hardware.
 - 1. At pairs of exterior doors, provide sliding-type weather stripping retained in adjustable strip and mortised into door edge.
 - 2. At exterior doors, provide weather sweeps applied to door bottoms.

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- H. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.
- I. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.10 ALUMINUM FINISHES

- A. High-Performance Organic Finish: Two-coat fluoropolymer finish complying with AAMA 2605 and containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - 1. Color and Gloss: As selected by Architect from manufacturers full range.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare surfaces that are in contact with structural sealant according to sealant manufacturer's written instructions, to ensure compatibility and adhesion. Preparation includes, but is not limited to, cleaning and priming surfaces.

3.3 INSTALLATION

- A. General:
 - 1. Comply with manufacturer's written instructions.
 - 2. Do not install damaged components.
 - 3. Fit joints to produce hairline joints free of burrs and distortion.
 - 4. Rigidly secure nonmovement joints.
 - 5. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
 - 6. Seal perimeter and other joints watertight unless otherwise indicated.

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B. Metal Protection:

1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.

C. Set continuous sill members and flashing in full sealant bed, as specified in Section 079200 "Joint Sealants," to produce weathertight installation.

D. Install components plumb and true in alignment with established lines and grades.

E. Install entrance door units level and plumb, securely anchored, and without distortion. Adjust weather-stripping contact and hardware movement to produce proper operation.

F. Install glazing as specified in Section 088000 "Glazing."

G. Entrance Doors: Install doors to produce smooth operation and tight fit at contact points.

1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware according to entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

3.4 ERECTION TOLERANCES

A. Erection Tolerances: Install aluminum-framed entrances and storefronts to comply with the following maximum tolerances:

1. Plumb: 1/8 inch in 10 feet (3.2 mm in 3 m); 1/4 inch in 40 feet (6.35 mm in 12.2 m).
2. Level: 1/8 inch in 20 feet (3.2 mm in 6 m); 1/4 inch in 40 feet (6.35 mm in 12.2 m).
3. Alignment:
 - a. Where surfaces abut in line or are separated by reveal or protruding element up to 1/2 inch (12.7 mm) wide, limit offset from true alignment to 1/16 inch (1.6 mm).
 - b. Where surfaces are separated by reveal or protruding element from 1/2 to 1 inch (12.7 to 25.4 mm) wide, limit offset from true alignment to 1/8 inch (3.2 mm).
 - c. Where surfaces are separated by reveal or protruding element of 1 inch (25.4 mm) wide or more, limit offset from true alignment to 1/4 inch (6 mm).
4. Location: Limit variation from plane to 1/8 inch in 12 feet (3.2 mm in 3.6 m); 1/2 inch (12.7 mm) over total length.

END OF SECTION 084113

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SECTION 093013 - CERAMIC TILING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:

- 1. Ceramic tile.
- 2. Metal edge strips.

- B. Related Requirements:

- 1. Section 092900 "Gypsum Board" for glass-mat, water-resistant backer board.

1.3 DEFINITIONS

- A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.
- B. ANSI A108 Series: ANSI A108.01, ANSI A108.02, ANSI A108.1A, ANSI A108.1B, ANSI A108.1C, ANSI A108.4, ANSI A108.5, ANSI A108.6, ANSI A108.8, ANSI A108.9, ANSI A108.10, ANSI A108.11, ANSI A108.12, ANSI A108.13, ANSI A108.14, ANSI A108.15, ANSI A108.16, and ANSI A108.17, which are contained in its "Specifications for Installation of Ceramic Tile."
- C. Face Size: Actual tile size, excluding spacer lugs.
- D. Module Size: Actual tile size plus joint width indicated.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.

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C. Samples for Verification:

1. Full-size units of each type and composition of tile and for each color and finish required.
2. Full-size units of each type of trim and accessory for each color and finish required.
3. Metal edge strips in 6-inch (150-mm) lengths.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Master Grade Certificates: For each shipment, type, and composition of tile, signed by tile manufacturer and Installer.
- C. Product Certificates: For each type of product.
- D. Product Test Reports: For tile-setting and -grouting products and certified porcelain tile.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.
 2. Grout: Furnish quantity of grout equal to 3 percent of amount installed for each type, composition, and color indicated.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications:
 1. Installer is a Five-Star member of the National Tile Contractors Association or a Trowel of Excellence member of the Tile Contractors' Association of America.
 2. Installer's supervisor for Project holds the International Masonry Institute's Foreman Certification.
 3. Installer employs only Ceramic Tile Education Foundation Certified Installers or installers recognized by the U.S. Department of Labor as Journeyman Tile Layers for Project.
 4. Installer employs at least one installer for Project that has completed the Advanced Certification for Tile Installers (ACT) certification for installation of membranes.

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1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.
- B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.
- D. Store liquid materials in unopened containers and protected from freezing.

1.9 FIELD CONDITIONS

- A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations for Tile: Obtain tile of each type from single source or producer.
 - 1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.
- B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.
 - 1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.
- C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:
 - 1. Stone thresholds.
 - 2. Waterproof membrane.
 - 3. Crack isolation membrane.
 - 4. Cementitious backer units.
 - 5. Metal edge strips.

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2.2 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
 - 1. Provide tile complying with Standard grade requirements unless otherwise indicated.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.
- C. Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.
- D. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer unless otherwise indicated.
 - 1. Where tile is indicated for installation in wet areas, do not use back- or edge-mounted tile assemblies unless tile manufacturer specifies in writing that this type of mounting is suitable for installation indicated and has a record of successful in-service performance.

2.3 TILE PRODUCTS

- A. Tile Type CT-3.4 Ceramic Tile.
 - 1. Basis-of-Design Product: Provide product listed in Finish Schedule on sheet A4-U or architect approved equal.
 - 2. Substitutions: Subject to compliance with size and color requirements, provide Basis-of-Design Product above or comparable product by one of the following:
 - a. American Olean
 - b. Dal-Tile
 - c. Florida Tile
 - d. Roca Tile USA
 - e. Olympia Tile & Stone

2.4 SETTING MATERIALS

- A. Polymer Modified Thin Set Mortar: ANSI A118.4 and A118.11.
 - 1. Basis of Design Product: provide Mapei UltraFlex 2 or comparable product by one of the following:
 - a. Bostik, Inc; Product – PM Thin-Set
 - b. Custom Building Products.; Product – VersaBond Flex

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- c. Laticrete International, Inc.; Product – 253 Gold

2.5 GROUT MATERIALS

- A. Water-Cleanable Epoxy Grout: ANSI A118.3, with a VOC content of 65 g/L or less.
 - 1. Basis of Design Product: provide Mapei Kerapoxy CQ or comparable product by one of the following:
 - a. Bostik, Inc.; Product - TruColor
 - b. Custom Building Products.; Product – CEG-Lite 100% Solid Epoxy
 - c. Laticrete International, Inc.; Product – SpectraLock Pro Premium
- B. Grout Colors: See Finish Schedule

2.6 MISCELLANEOUS MATERIALS

- A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.
- B. Metal Edge Strips: Angle or L-shaped, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; stainless-steel, ASTM A 666, 300 Series exposed-edge material.
 - 1. Basis of Design Product: Provide products listed in Finish Schedule on sheet A4-U or architect approved equal
- C. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations

2.7 MIXING MORTARS AND GROUT

- A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
- B. Add materials, water, and additives in accurate proportions.
- C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

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PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
 - 1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
 - 2. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
 - 3. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 INSTALLATION OF CERAMIC TILE

- A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
- B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- D. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.

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- E. Where accent tile differs in thickness from field tile, vary setting-bed thickness so that tiles are flush.
- F. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.
 - 1. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.
 - 2. Where adjoining tiles on floor, base, walls, or trim are specified or indicated to be same size, align joints.
 - 3. Where tiles are specified or indicated to be whole integer multiples of adjoining tiles on floor, base, walls, or trim, align joints unless otherwise indicated.
- G. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
 - 1. Ceramic Tile: 1/16 inch (1.6 mm).
- H. Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.
- I. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
- J. Metal Edge Strips: Install at locations indicated.

3.4 ADJUSTING AND CLEANING

- A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.
- B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
 - 1. Remove grout residue from tile as soon as possible.
 - 2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

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LINCOLN, NE

10-23123-00
BID SET

3.5 PROTECTION

- A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.
- B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
- C. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

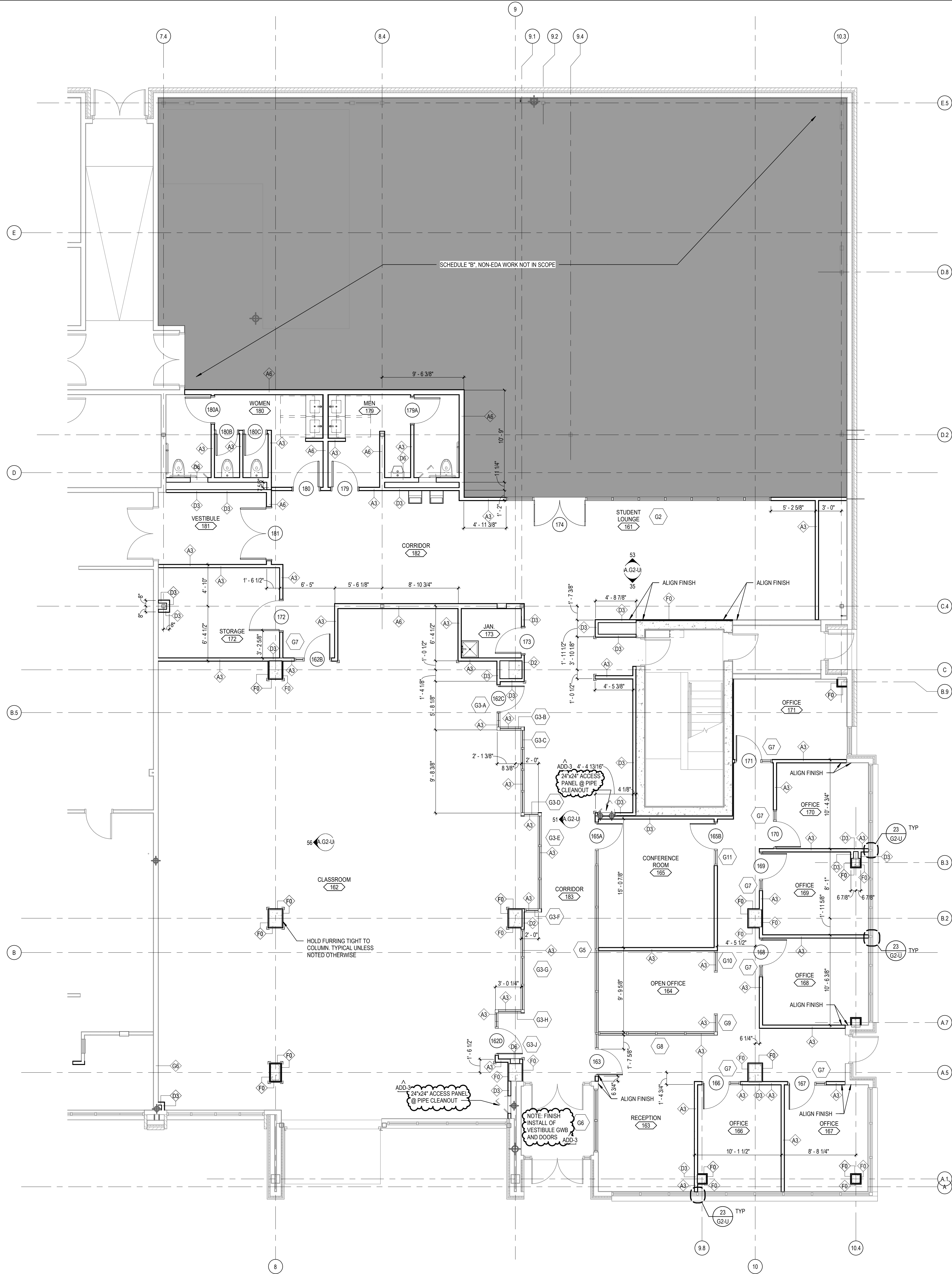
3.6 INTERIOR CERAMIC TILE INSTALLATION SCHEDULE

- A. Interior Wall Installations, Metal Studs or Furring:
 - 1. Tile Installation TCNA W245 or TCNA W248; thinset mortar on glass-mat, water-resistant gypsum backer board.
 - a. Mortar: Polymer Modified thin set mortar.
 - b. Grout: High-performance epoxy tile grout

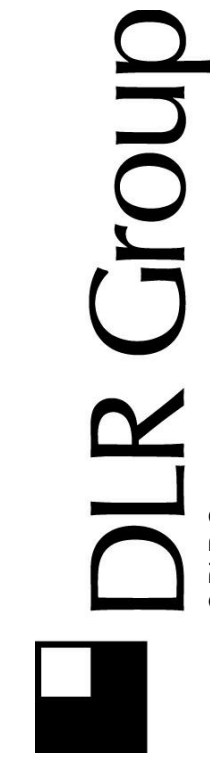
END OF SECTION 093013

FLOOR PLAN
GENERAL NOTES

A. ALL INTERIOR FINISHES TO BE CLASS A, B, OR C.
B. CONTRACTOR TO INSTALL BATT INSULATION IN EXTERIOR WALL STUD CAVITIES WHERE MISSING.



UNIVERSITY FLOOR PLAN - SCHEDULE A
SCALE: 3/16" = 1'-0"



UNIVERSITY OF NEBRASKA - LINCOLN NHLIA TI - SCHEDULE "A"

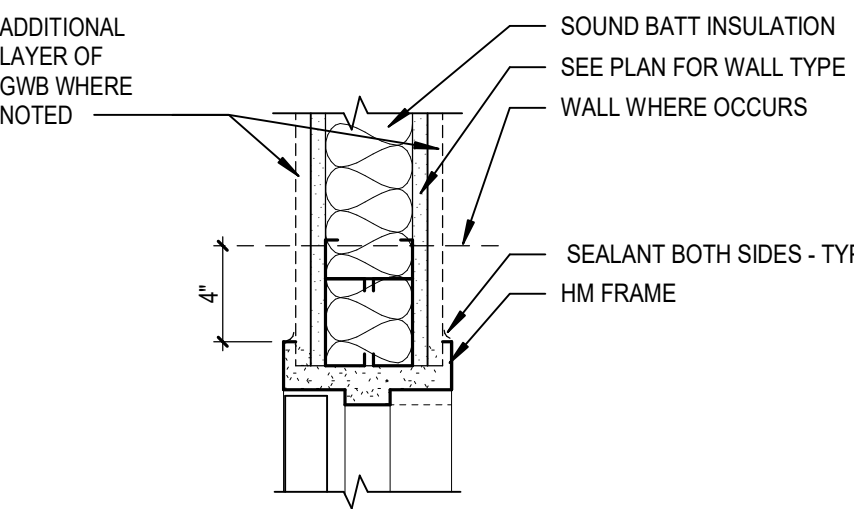
NEBRASKA INNOVATION CAMPUS
2301 TRANSFORMATION DRIVE
LINCOLN, NE 68508

CONSTRUCTION DOCUMENTS
11/17/2023
Revisions
ADD-3 05/06/24

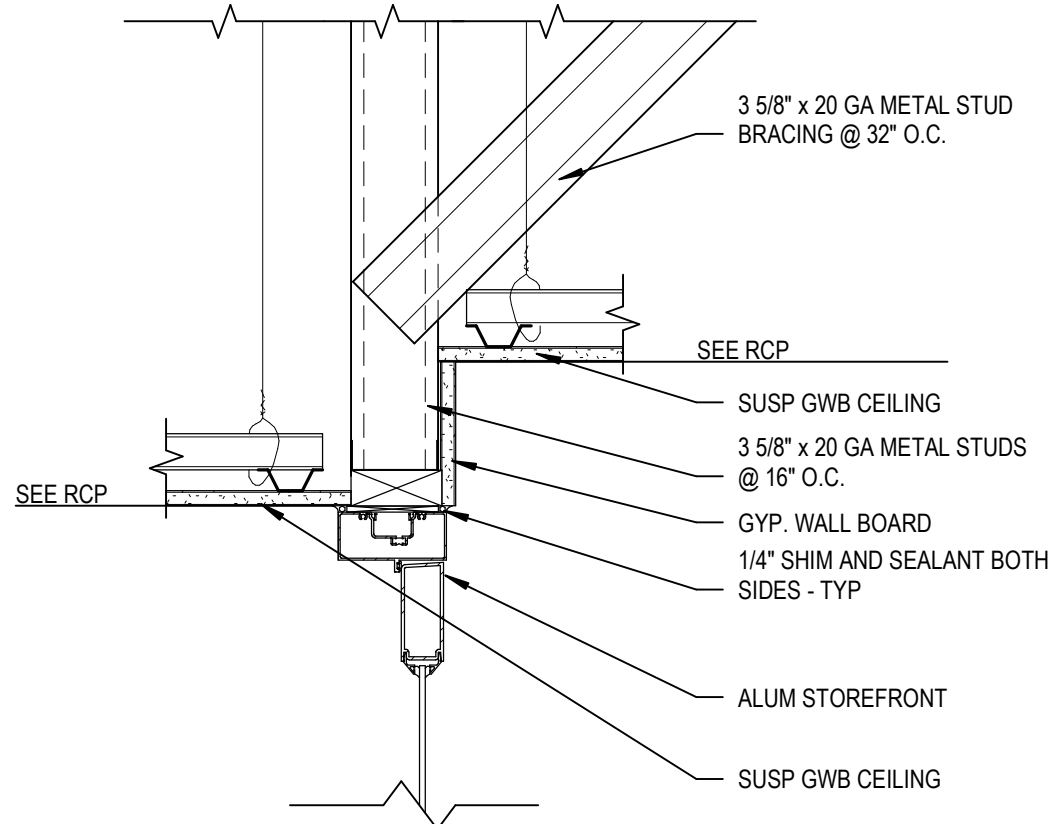
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FLOOR PLAN

A.A1-U

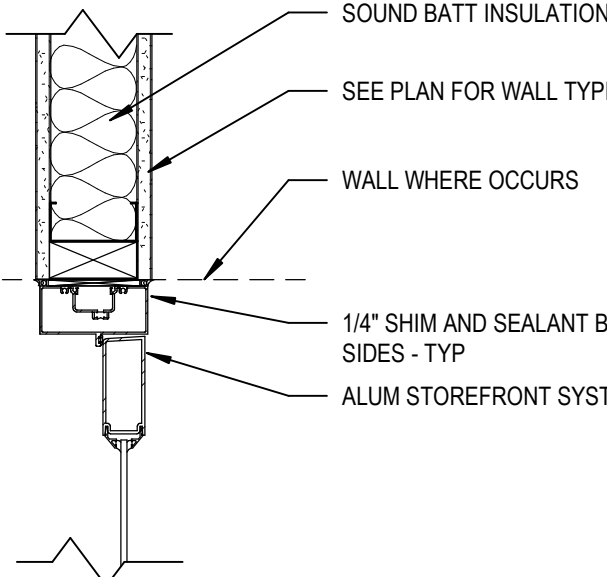
DOOR AND FRAME SCHEDULE															
NUMBER	ROOM NAME	NO. OF PANELS	PANEL				TYPE	FRAME		FIRE RATING	HARDWARE SET	DETAILS			COMMENTS
			WIDTH	HEIGHT	THICKNESS	MATERIAL		MATERIAL	TYPE			HEAD	JAMB	SILL	
LEVEL 01															
162B	CLASSROOM	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T08	15/A3-U	16/A3-U		PANIC HARDWARE INCLUDED, CUSTOM ALUM COLOR TO MATCH P-2
162C	CLASSROOM	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T08	15/A3-U	16/A3-U		PANIC HARDWARE INCLUDED, CUSTOM ALUM COLOR TO MATCH P-2
162D	CLASSROOM	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T08	15/A3-U	16/A3-U		PANIC HARDWARE INCLUDED, CUSTOM ALUM COLOR TO MATCH P-2
163	RECEPTION	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T04	15/A3-U	16/A3-U		ALUM COLOR TO MATCH P-5
165A	CONFERENCE ROOM	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T02	15/A3-U	16/A3-U		ALUM COLOR TO MATCH P-5
165B	CONFERENCE ROOM	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T03	15/A3-U	16/A3-U		ALUM COLOR TO MATCH P-5
166	OFFICE	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T01	15/A3-U	16/A3-U		ALUM COLOR TO MATCH P-5
167	OFFICE	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T01	15/A3-U	16/A3-U		ALUM COLOR TO MATCH P-5
168	OFFICE	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T01	15/A3-U	16/A3-U		ALUM COLOR TO MATCH P-5
169	OFFICE	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T01	15/A3-U	16/A3-U		ALUM COLOR TO MATCH P-5
170	OFFICE	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T01	15/A3-U	16/A3-U		ALUM COLOR TO MATCH P-5
171	OFFICE	1	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T01	15/A3-U	16/A3-U		ALUM COLOR TO MATCH P-5
172	STORAGE	1	3'-6"	7'-0"	1 3/4"	WD	D	HM	1	-	T07	14/A3-U	14/A3-U		
173	JAN.	1	3'-0"	7'-0"	1 3/4"	WD	D	HM	1	-	T07	14/A3-U	14/A3-U		
174	DRY FOOD STORAGE	2	3'-0"	7'-0"	1"	ALUM	E	ALUM	1	-	T10	15/A3-U	16/A3-U		PANIC HARDWARE INCLUDED, CUSTOM ALUM COLOR TO MATCH P-2
179	MEN	1	3'-0"	7'-0"	1 3/4"	WD	D	HM	1	-	T06	14/A3-U	14/A3-U		
179A	MEN	1	3'-0"	7'-0"	1 3/4"	WD	D	HM	1	-	T11	14/A3-U	14/A3-U		
180	WOMEN	1	3'-0"	7'-0"	1 3/4"	WD	D	HM	1	-	T06	14/A3-U	14/A3-U		
180A	WOMEN	1	3'-0"	7'-0"	1 3/4"	WD	D	HM	1	-	T11	14/A3-U	14/A3-U		
180B	WOMEN	1	2'-6"	7'-0"	1 3/4"	WD	D	HM	1	-	T11	14/A3-U	14/A3-U		
180C	WOMEN	1	2'-6"	7'-0"	1 3/4"	WD	D	HM	1	-	T11	14/A3-U	14/A3-U		
181	VESTIBULE	2	3'-0"	7'-0"	1 3/4"	WD	H	HM	1	-	T09	14/A3-U	14/A3-U		



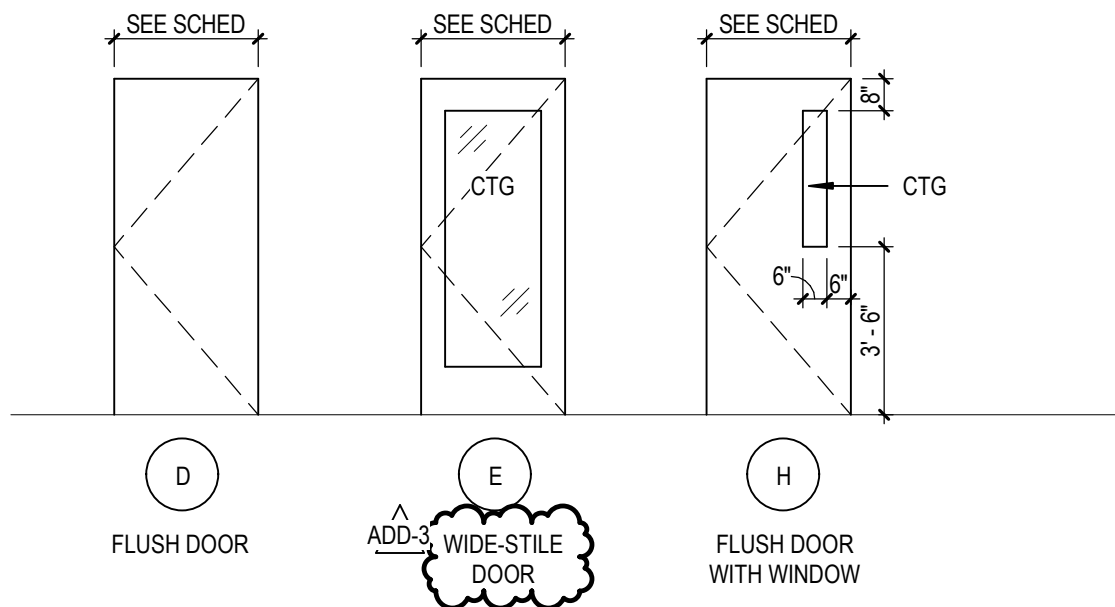
14 TYPICAL HM HEAD JAMB DETAIL
A.A3.U SCALE: 1 1/2" = 1'-0"



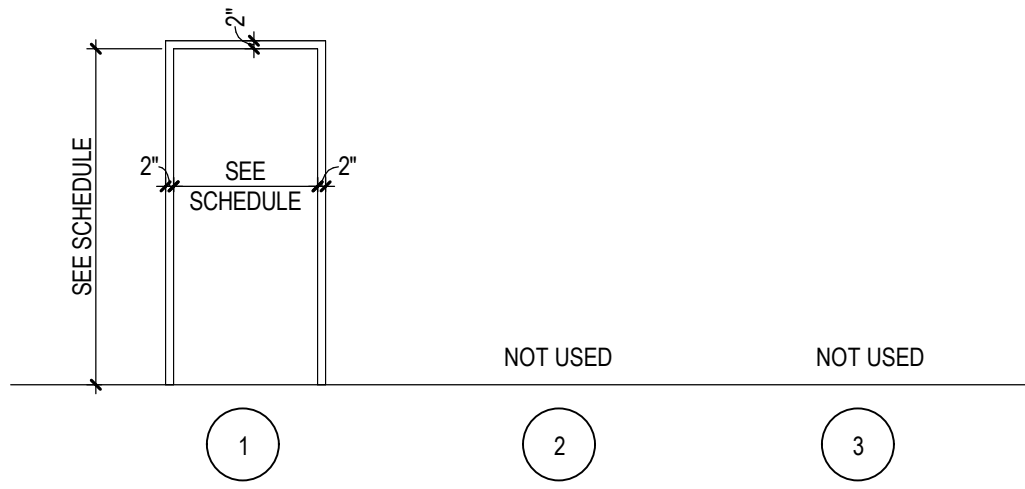
15 TYPICAL ALUM HEAD DETAIL
A.A3.U SCALE: 1 1/2" = 1'-0"



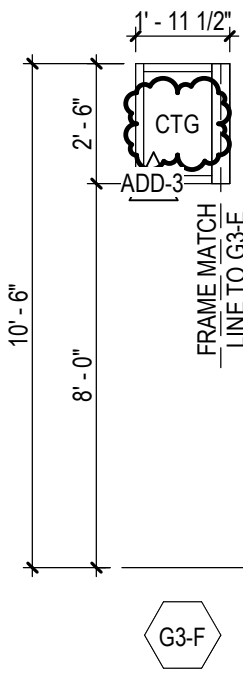
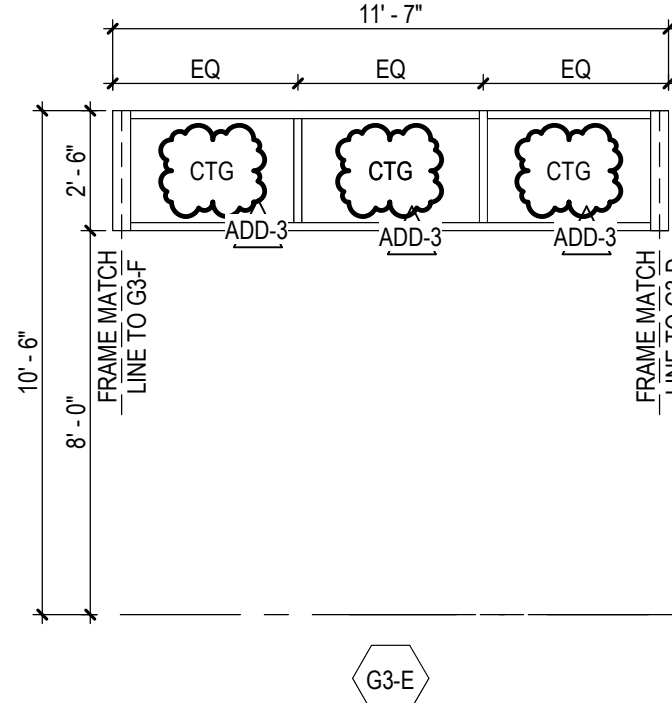
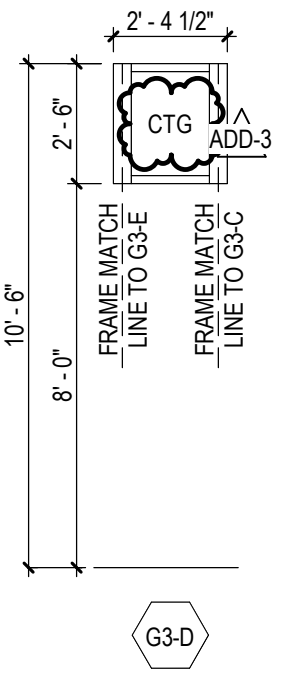
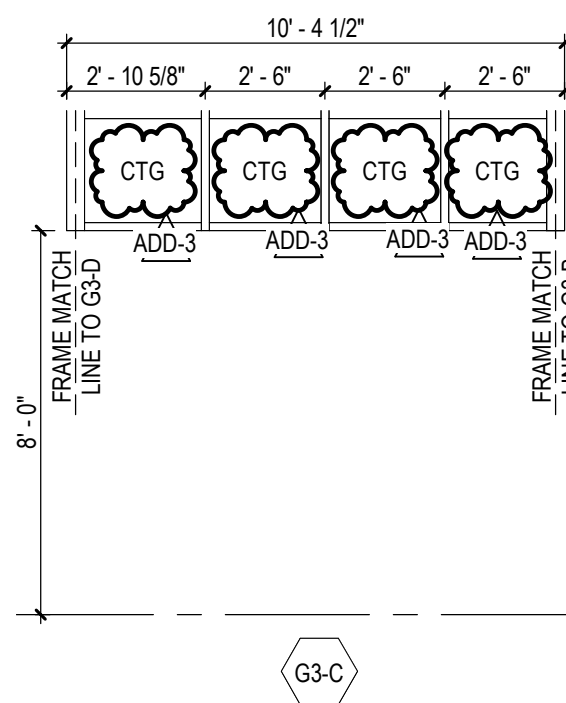
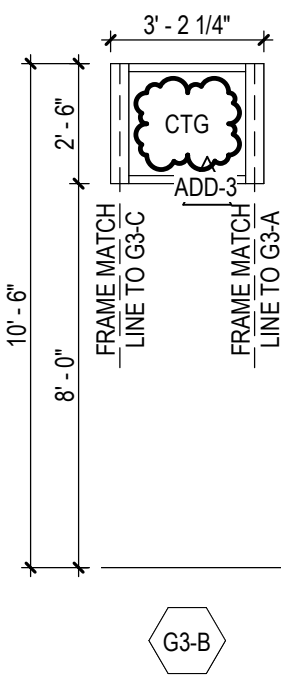
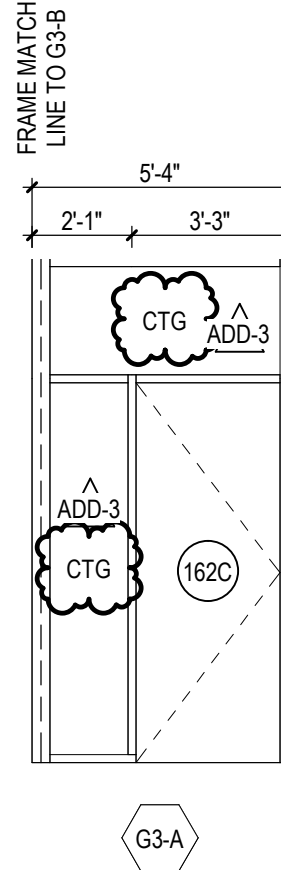
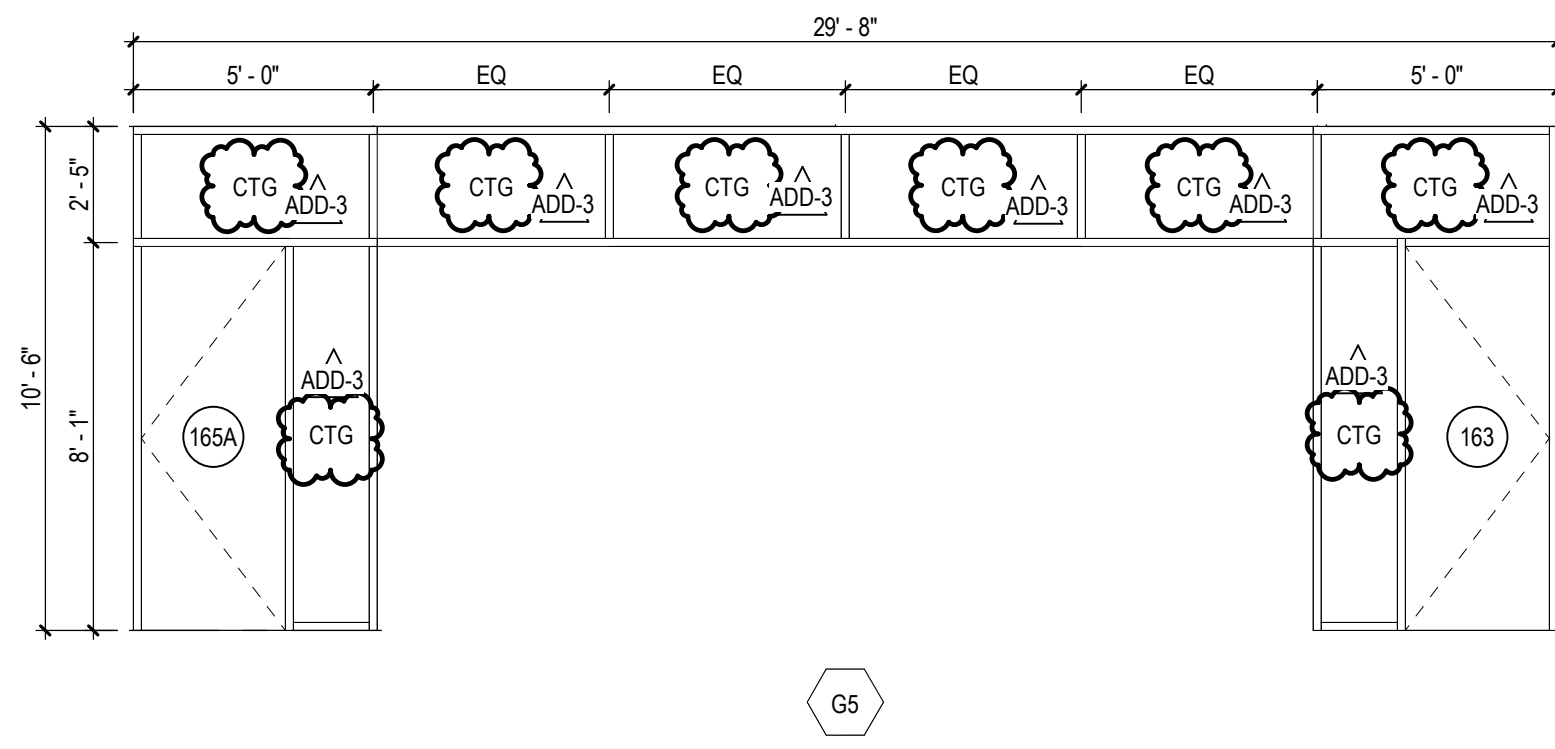
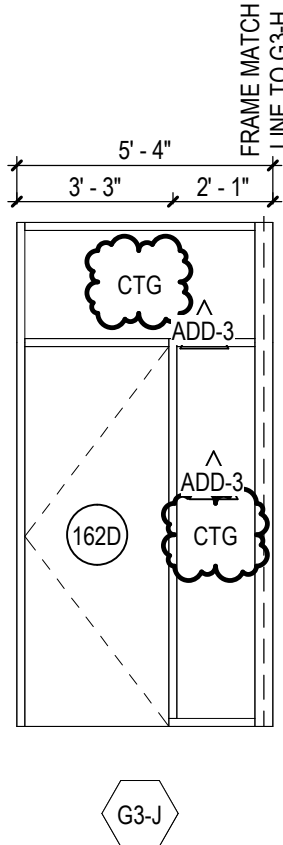
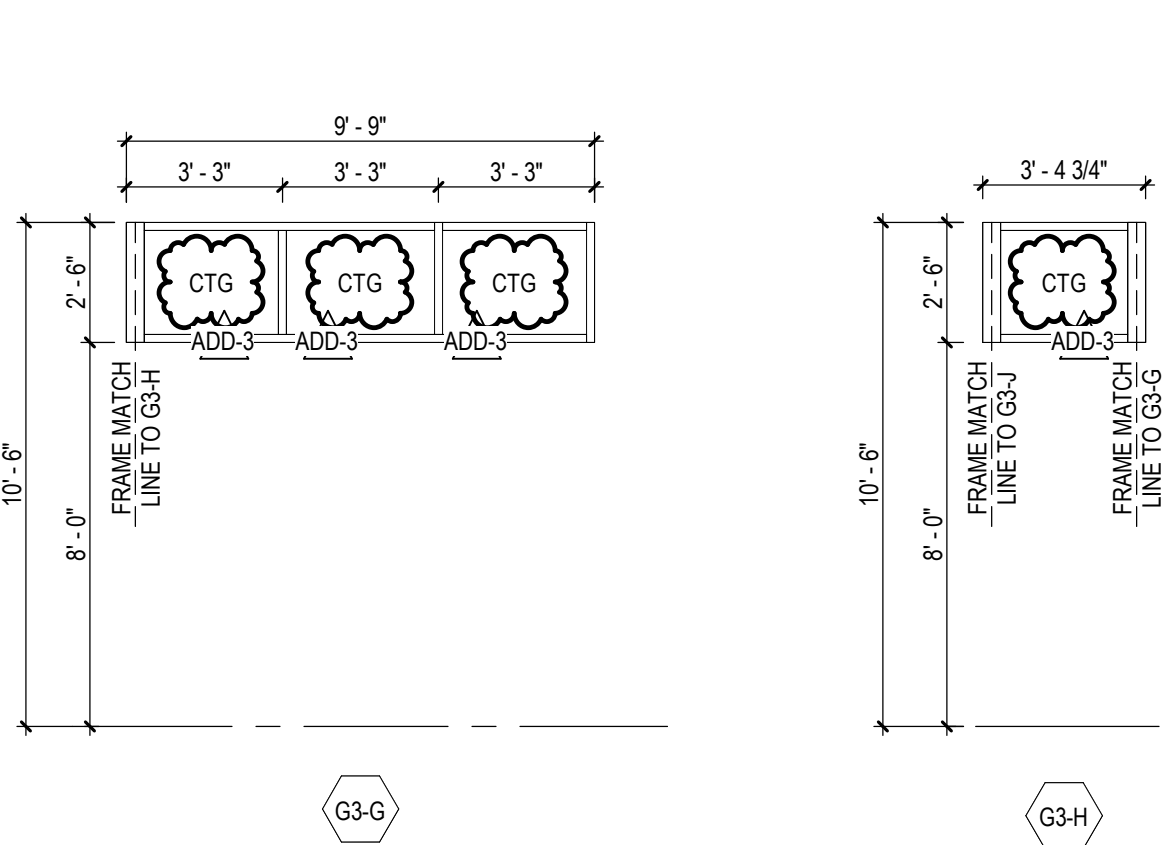
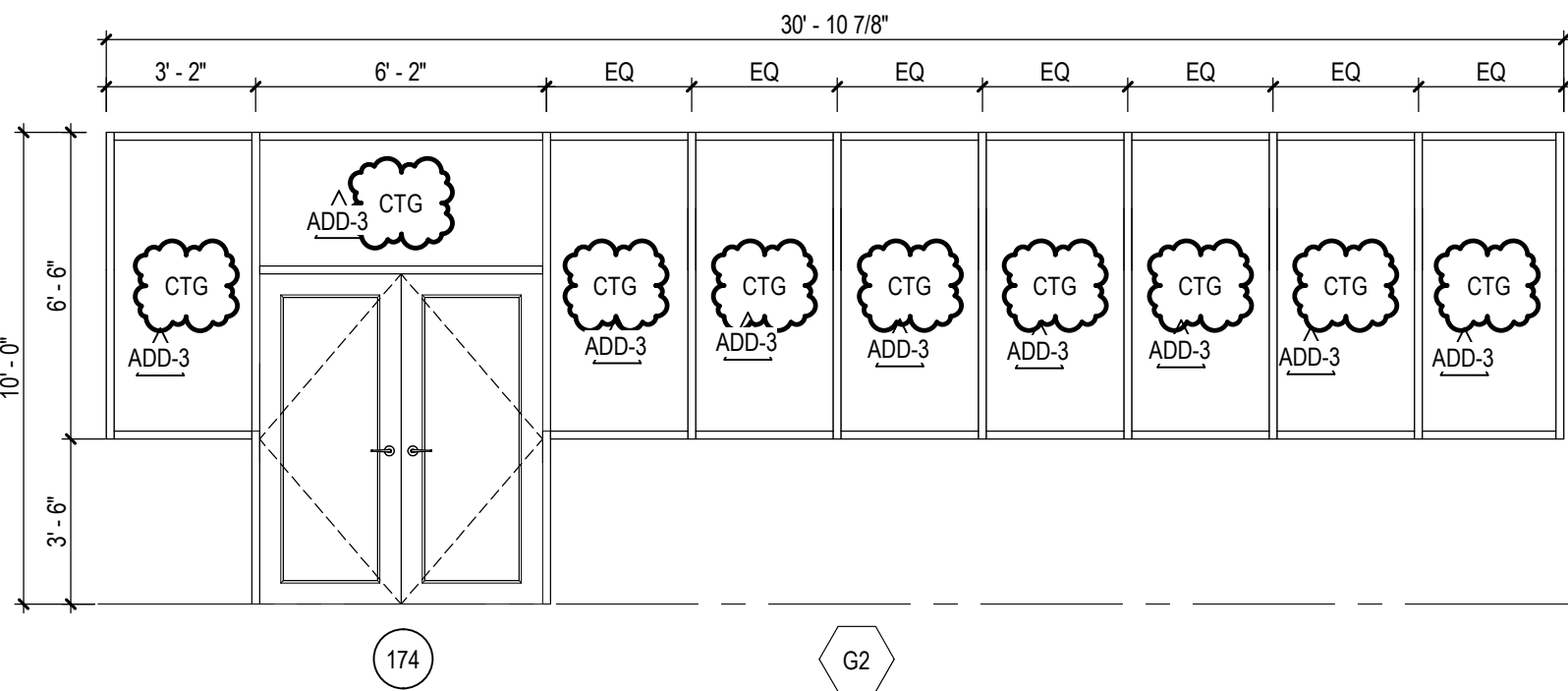
16 TYPICAL ALUM JAMB DETAIL
A.A3.U SCALE: 1 1/2" = 1'-0"



DOOR TYPES
SCALE: 1/4" = 1'-0"



FRAME ELEVATIONS
SCALE: 1/4" = 1'-0"



GLAZING ELEVATIONS
SCALE: 1/4" = 1'-0"

GLAZING LEGEND

CG	CLEAR FLOAT GLASS
CIG	CLEAR INSULATED GLAZING
CTG	CLEAR TEMPERED GLAZING
CTIG	CLEAR TEMPERED INSULATED GLAZING
FIG	FROSTED INSULATED GLASS
TIG	FROSTED TEMPERED INSULATED GLASS
TTIG	TINTED GLASS
SQ	INSULATED SPANDREL GLAZING
FRG	FIRE RATED GLASS
LG	LAMINATED GLASS

NLHIA-INTERIOR CURTAIN WALL SCHEDULE	
MARK	COMMENTS
G2	CUSTOM ALUM COLOR TO MATCH P-2
G3-A	CUSTOM ALUM COLOR TO MATCH P-2
G3-B	CUSTOM ALUM COLOR TO MATCH P-2
G3-C	CUSTOM ALUM COLOR TO MATCH P-2
G3-D	CUSTOM ALUM COLOR TO MATCH P-2
G3-E	CUSTOM ALUM COLOR TO MATCH P-2
G3-F	CUSTOM ALUM COLOR TO MATCH P-2
G3-G	CUSTOM ALUM COLOR TO MATCH P-2
G3-H	CUSTOM ALUM COLOR TO MATCH P-2
G3-J	CUSTOM ALUM COLOR TO MATCH P-2
G5	ALUM COLOR TO MATCH P-5
G6	ALUM COLOR TO MATCH P-5
G7	ALUM COLOR TO MATCH P-5
G8	ALUM COLOR TO MATCH P-5
G9	ALUM COLOR TO MATCH P-5
G10	ALUM COLOR TO MATCH P-5
G11	ALUM COLOR TO MATCH P-5

INTERIOR FINISH PLAN
GENERAL NOTES

- A. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
- B. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED.
- C. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THAN ONE-HALF OF A TILE AT ROOM PERIMETER.
- D. SEE SPECIFICATION FOR PAINTING OF ITEMS NOT NOTED ON FINISH PLANS OR ELEVATIONS.
- E. PROVIDE WALL BASE AROUND CASEWORK AND MILLWORK UNO.
- F. WHERE FLOOR FINISH CHANGES FROM ONE ROOM TO ANOTHER, SET JOINT OF THE MATERIALS AT THE CENTER OF THE COMMUNICATING DOOR, UNO.
- G. SEE FINISH SCHEDULE ON SHEET A4-U FOR BASIS OF DESIGN PRODUCT INFORMATION AND DESIGNATIONS.
- H. RESTROOM WALL TILE ELEVATION TAGS ARE SHOWN ON ENLARGED FLOOR PLANS. SEE INTERIOR ELEVATIONS FOR WALL FINISH MATERIAL DESIGNATIONS.
- I. PAINT ALL WALLS P-1 UNO. ACCENT PAINT AND SPECIALTY WALL FINISH LOCATIONS ARE NOTED ON PLANS.
- J. PROVIDE B-1 AT ALL WALLS UNO. DO NOT APPLY TO SPECIALTY WALL FINISHES OR TILE. SEE SHEET G2-U FOR PARTITION TYPES.
- K. PROVIDE INTEGRAL EPOXY RESINOUS FLOORING BASE (ERFB) AT ALL EPOXY RESINOUS FLOORING (ERF) LOCATIONS.
- L. PAINT ALL HM DOORS & FRAMES P-5, UNO ON PLANS. SEE DOOR & FRAME SCHEDULE NOTES FOR ALUMINUM FRAME COLORS.
- M. PAINT ALL EXPOSED CONDUIT, GRILES AND DIFFUSERS TO MATCH ADJACENT SURFACE UNO.
- N. PAINT ALL INTERCOM SPEAKERS TO MATCH ADJACENT SURFACE UNO.
- O. SEE SHEET A2-U FOR REFLECTED CEILING PLAN GENERAL NOTES.
- P. PROVIDE FRP AT MOP SINKS. SEE G2-U SHEET FOR DETAIL.
- Q. INSTALL ALL FLOOR TILE PRODUCTS IN THE NORTH/SOUTH DIRECTION UNO.

INTERIOR FINISH PLAN LEGEND

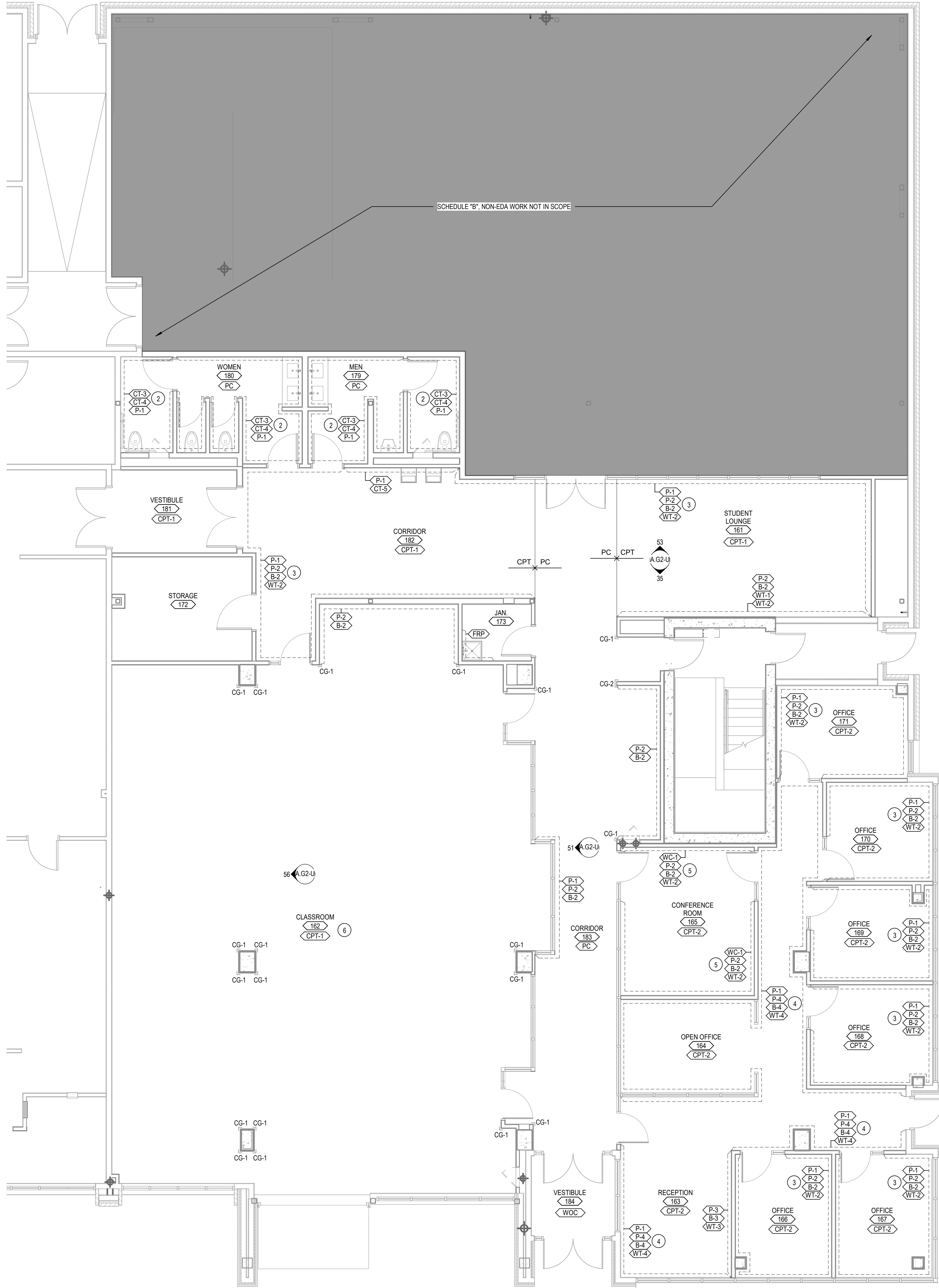
- XXX-XX FINISH MATERIAL TAG
- XXX X XXX FLOOR FINISH TRANSITION
- 1 SHEET NOTE
- MATERIAL DIRECTION
- XXX-XX EXTENT OF WALL FINISH, SEE INTERIOR ELEVATION FOR ADDITIONAL INFORMATION

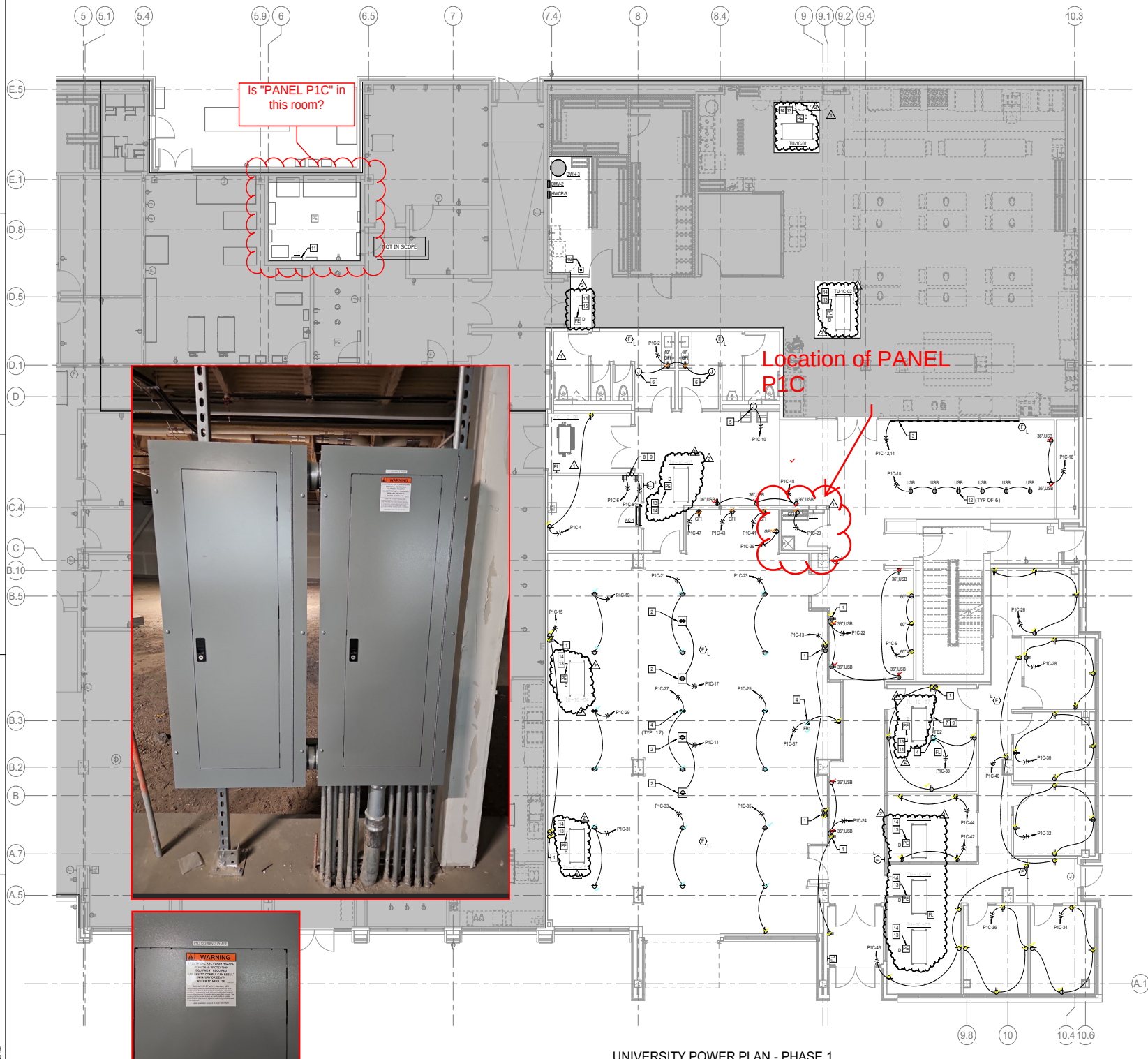
SHEET NOTES

- ALL WALLS REFERENCE ELEVATION 41/G2-U THIS ROOM UNO.
- REFERENCE ELEVATION 42/G2-U (RESTROOMS)
- REFERENCE ELEVATION 43/G2-U (RED)
- REFERENCE ELEVATION 44/G2-U (GREEN)
- REFERENCE ELEVATION 45/G2-U (CONFERENCE)
- INSTALL AWP-1 TWO TILES HIGH (APPROX. 4") ALL WALLS THIS ROOM. INSTALLATION HEIGHT TO BE 10'-6" FROM BOTTOM OF TILE TO FINISHED FLOOR.
- DEPRESS CONCRETE SLAB FOR WALK-IN COOLER/FREEZER. VERIFY RECESS DEPTH WITH MANUFACTURER. SEE FOOD SERVICE SHEETS FOR SPECIFIC FLOORING & BASE REQUIREMENTS.

FINISH SCHEDULE

SPEC #	DESIGNATION	PRODUCT	BASIS OF DESIGN MANUF	STYLE/PRODUCT	COLOR/FINISH	SIZE	COMMENTS/LOCATION
CAST-IN-PLACE CONCRETE							
033300	PC	POLISHED CONCRETE			CLASS C MEDIUM AGGREGATE, LEVEL 3 SEMI-POLISHED		TYPICAL EXPOSED CONCRETE FLOORS
INTERIOR FINISH CARPENTRY							
062023	WT-1	WOOD TRIM	EMPIRE MOULDING & MILLWORK	WHITE OAK DECORATIVE BOARD	STAINED TO MATCH WILSONART SAP WALNUT 8221	7/16" x 1-1/2"	WOOD ACCENT WALL
	WT-2	WOOD TRIM	EMPIRE MOULDING & MILLWORK	E12 PRIMED MDF E2E BOARD	TO MATCH SW6594 POINSETTIA	1 1/16" x 1-1/2"	RED ACCENT
	WT-3	WOOD TRIM	EMPIRE MOULDING & MILLWORK	E12 PRIMED MDF E2E BOARD	TO MATCH SW6307 FINE WINE	1 1/16" x 1-1/2"	DARK RED ACCENT
	WT-4	WOOD TRIM	EMPIRE MOULDING & MILLWORK	E12 PRIMED MDF E2E BOARD	TO MATCH SW6164 SVELTE SAGE	1 1/16" x 1-1/2"	GREEN ACCENT
WOOD DOORS							
081416	WD	WOOD DOORS		SPECIES: WALNUT	STAINED TO MATCH WILSONART SAP WALNUT 8221		TYPICAL
TILING, GROUT & METAL TRIM ACCESSORIES							
093013	CT-3	CERAMIC TILE	CERAMIC TECHNICS	STUDIO ELEMENTS BASIC EVO	WHITE, GLOSSY	3" x 6"	RESTROOMS
	CT-4	CERAMIC TILE	CERAMIC TECHNICS	STUDIO ELEMENTS BASIC EVO	RETRO BLACK, GLOSSY	3" x 6"	RESTROOMS
	GR-UT	GROUT	MAPEI	MAPEI FLEXCOLOR CG	10 BLACK		COORDINATES W/ CT-2, CT-4, CT-5
	GR-UT	GROUT	MAPEI	MAPEI FLEXCOLOR CG	38 AVALANCHE		COORDINATES W/ CT-1, CT-3
	MTA-1	METAL TRIM ACCESSORY	SCHLUTER	JOLLY	SATIN ANODIZED ALUMINUM	VIF	EXTERNAL EDGES & TILE TO GWS
ACOUSTICAL PANEL CEILINGS							
095113	APC-1	ACOUSTICAL PANEL CEILING	ROCKFON	TROPIC 1020	WHITE	24"x24"	TYPICAL
	APC-2	ACOUSTICAL PANEL CEILING	ROCKFON	COLORALL 11101	SCARLET 771	24"x48"	CLASSROOM ACCENT
SUSPENDED WOOD CEILINGS							
095426	DC-2	DECORATIVE CEILING	CERTANTEED	ACOUSTIC PLANKS, RONDOLO MICRO-PERFORATED	WALNUT, QUARTERED VENEER	7'9 1/8" WIDE	CORRIDOR
RESILIENT BASE AND ACCESSORIES							
095513	B-1	RUBBER BASE	TARKETT		195 ASH WG	4" HT	TYPICAL BASE
	B-2	RUBBER BASE	TARKETT		TB6 FLAME	4" HT	RED ACCENT
	B-3	RUBBER BASE	TARKETT		15 CABERNET	4" HT	DARK RED ACCENT
	B-4	RUBBER BASE	TARKETT		TH1 GLENHAVEN	4" HT	OLIVE GREEN ACCENT
	RMA-1	RESILIENT MOLDING ACCESSORY	TARKETT	SLT-46L	48 GREY WG		1/4" MATERIAL TO CONCRETE
CARPETING							
099813	CPT-1	TILE CARPET	BENTLEY	ENDGAME 4ENT6 TILE	AVATAR 401379	18" x 36"	CLASSROOM, MONOLITHIC INSTALL
	CPT-2	TILE CARPET	BENTLEY	SHAPESHIFTER 4SET4 TILE	WAVEFORM 400021	18" x 36"	OFFICES, MONOLITHIC INSTALL
	WOC	WALK OFF CARPET	MATTER	NUNWAY HD	CHARCOAL WIPER STRIP	7/16" THICK	VESTIBULE
WALL COVERINGS							
097200	WC-1	WALL COVERING	MAHARAM	SYSTEM 399600	001 BLACK	52"	CONFERENCE
SOUND ABSORBING WALL UNITS							
094323	AWP-1	ACOUSTICAL WALL PANEL	TURF	TUBULAR CARVED WALL TILE	01 CREAM	23.5" x 23.5" x 9mm	CLASSROOM
INTERIOR PAINT							
099123	P-1	PAIN	SHERWIN WILLIAMS	SW7022 ALPACA			TYP WALL, UNO
	P-2	PAIN	SHERWIN WILLIAMS	SW6594 POINSETTIA			RED ACCENT
	P-3	PAIN	SHERWIN WILLIAMS	SW6307 FINE WINE			DARK RED ACCENT
	P-4	PAIN	SHERWIN WILLIAMS	SW6164 SVELTE SAGE			GREEN ACCENT
	P-5	PAIN	SHERWIN WILLIAMS	SW6991 BLACK MAGIC			FRAME ACCENT
	P-6	PAIN	SHERWIN WILLIAMS	SW7007 CEILING BRIGHT WHITE			CEILINGS
WALL AND DOOR PROTECTION							
102800	CG-1	CORNER GUARD	STYLMARK	PART #110165	BRUSHED BRITE PEWTER 217	1" LEGS, 1/16" THICK	SEE FLOOR PLANS
	CG-2	END CAP	STYLMARK	PART #110147	BRUSHED BRITE PEWTER 217	1" LEGS, 1/16" THICK	SEE FLOOR PLANS
SOLID SURFACING COUNTERTOPS							
123661.16	SSM-1	SOLID SURFACE MATERIAL	CAESARSTONE	SUPERNATURAL COLLECTION	5143 WHITE ATTICA		RESTROOM COUNTERTOP, WINDOW SILLS





UNIVERSITY POWER PLAN - PHASE 1
SCALE: 3/16" = 1'-0"

- GENERAL NOTES:**
1. PROVIDE (1) 1/2" CONDUIT FROM ALL THERMOSTATS UP TO ABOVE NEAREST ACCESSIBLE CEILING OR DIRECTLY TO ASSOCIATED HVAC EQUIPMENT. REFER TO MECHANICAL PLANS FOR LOCATIONS.
 2. REFER TO M/E SCHEDULES AND DETAILS FOR MECHANICAL EQUIPMENT CIRCUITING INFORMATION.
 3. PROVIDE POWER TO ALL FIRE/SMOKE DAMPERS. PROVIDE A DUCT MOUNTED SYSTEM SMOKE DETECTOR AT EACH LOCATION. PROVIDE ALL ASSOCIATED TRANSFORMERS, MODULES AND CONNECTIONS REQUIRED FOR CORRECT OPERATION. VERIFY LOCATIONS AND QUANTITY REQUIRED WITH M/FLOOR PLANS.
 4. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING LOCATIONS OF ALL WALL MOUNTED ELECTRICAL DEVICES. DEVICES NOT REFERENCED ON THE ARCH DRAWINGS ARE TYPICAL UNLESS SPECIFICALLY NOTED OTHERWISE ON THIS SHEET (REFER TO TYPICAL MOUNTING HEIGHT DETAILS). SPECIFIC MOUNTING HEIGHTS NOTED ON THIS SHEET ARE MEASURED FROM THE CENTER LINE OF THE 3-BOX.
 5. FIRESTOP ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS AFTER INSTALLATION IS COMPLETE.
 6. WHERE ANY DEVICE JUNCTION BOXES ARE RECESSED WITHIN OPPOSITE SIDES OF A FIRE RATED WALL ARE AND WITHIN 24" OF EACH OTHER MEASURED HORIZONTALLY. FURNISH AND INSTALL AN INTUMESCENT FOLDABLE FIRE STOP PUTTY PAD AROUND EACH JUNCTION BOX.
 7. ALL CLASSROOM/CORRIDOR/Lounge RECEPTACLES ARE TO BE "DECORA" STYLE. REFER TO WIRING DEVICE SPEC FOR MORE INFORMATION.
 8. ELECTRIC CONTRACTOR TO REFER TO LOW VOLTAGE DRAWINGS FOR ALL ADDITIONAL ROUGH-IN SCOPE TO BE INCLUDED IN BIDS, AND LOW VOLTAGE DEVICE LOCATIONS TO BE COORDINATED WITH RECEPTACLES.
 9. 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS: (UNLESS SPECIFICALLY NOTED OTHERWISE)
0-100' = #12 AWG.
101-150' = #10 AWG.
151-250' = #8 AWG.
GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED

- PLAN NOTES:**
- RECEPTACLE TO BE INSTALLED WITHIN A TENANT PROVIDED A/V MONITOR JUNCTION BOX, WHICH IS TO BE RECESSED IN WALL. CONTRACTOR TO INSTALL THE TENANT PROVIDED BOX. COORDINATE EXACT TYPE AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
 - RECEPTACLE TO BE INSTALLED ON A TENANT PROVIDED A/V MONITOR POLE. TENANT WILL BE INSTALLING THE POLE FROM STRUCTURE ABOVE, AND THE CONTRACTOR WILL THEN NEED TO INSTALL THE RECEPTACLE ON THE POLE AFTERWARDS, AT THE BOTTOM ADJACENT TO THE TWIN MONITOR BRACKETS.
 - ALUMINUM PLUG MOLD TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR, DUAL CIRCUIT, ALTERNATING AFTER EACH RECEPTACLE/USB PAIR. ALTERNATING SINGLE RECEPTACLE AND USB DEVICES WITH 9" SPACING BETWEEN, BASIS OF DESIGN: LEGRAND WIREMOLD, ALGOSB997HUBA. PROVIDE NECESSARY ACCESSORIES AND LENGTH TO COVER AREA SHOWN ON PLAN. COORDINATE DESIRED FINISH WITH ARCHITECT PRIOR TO ORDERING. MOUNTED TIGHT TO THE BOTTOM OF THE WINDOW TRIM.
 - FLOOR BOX TO BE CENTERED UNDER TABLE. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
 - ELECTRIC CONNECTION FOR DRINKING FOUNTAIN.
 - HARD WIRED ELECTRIC CONNECTION TO HANDS-FREE PLUMBING FIXTURES IN RESTROOM. PROVIDE STEP-DOWN TRANSFORMERS AS REQUIRED. COORDINATE WITH PLUMBING FIXTURE PROVIDER. MOUNT IN AN ACCESSIBLE LOCATION. EXTEND LOW VOLTAGE CABLE TO ALL HANDS-FREE DEVICES IN ROOM, RE: PLUMBING FIXTURE SCHEDULE.
 - (1) 2" CONDUIT FROM FLOOR BOX DIRECTLY TO A/V DISPLAY BOX TO BE RECESSED IN WALL.
 - (2) 3" CONDUITS FROM ABOVE ACCESSIBLE CEILING DOWN IN WALL TO A/V RACK. A/V RACK BY TENANT.
 - THIS ROUGH-IN SCOPE IS FOR THE UNIVERSITY A/V SYSTEMS. THE A/V SYSTEMS TO BE INSTALLED BY THE UNIVERSITY DIRECTLY, BUT THE ROUGH-IN IS TO BE INSTALLED BY THE ELECTRIC CONTRACTOR. THIS IS IN ADDITION TO THE STRUCTURED CABLE ROUGH-IN CALLED OUT ON THE T/C SHEETS, WHICH ALSO NEEDS TO BE INSTALLED BY THE ELECTRIC CONTRACTOR.
 - PUSHBUTTON FOR EMERGENCY SHUTDOWN OF WATER HEATER. FURNISH AND INSTALL ALL WIRING FOR PUSHBUTTON TO ASSOCIATED SHUNT TRIP CIRCUIT BREAKERS AS REQUIRED.
 - EXISTING 480/3 PANEL FOR HVAC LOADS. RE: HVAC SCHEDULES FOR BRANCH CIRCUIT AND ADDITIONAL INFORMATION. THE ACTUAL CIRCUIT BREAKERS IN THE EXISTING PANEL ARE SPECIFIED AND PROVIDED WITH HOTEL CONSTRUCTION DOCUMENTS.
 - RECEPTACLES BUILT-IN TO FIXED CUSTOM FURNITURE. RE: INTERIORS DRAWINGS FOR MOUNTING HEIGHTS AND ADDITIONAL INFORMATION.
 - DUCT MOUNTED SMOKE DETECTOR FOR SHUTDOWN OF INSIDE AIR UNIT. AIR INLET OF THIS VRF UNIT FOR SHUTDOWN OF UNIT. MAKE CONNECTIONS TO UNIT AS REQUIRED. PROVIDE ALL ASSOCIATED MODULES AND CONNECTIONS REQUIRED FOR CORRECT OPERATION AS NOTED IN THE SPECIFICATIONS.
 - DUE TO THE USE OF A COMMON PLENUM, INTERLOCK ALL HVAC UNIT SMOKE DETECTIONS IN THIS TENANT FRESH PROJECT TOGETHER SO ALL UNITS SHUTDOWN UPON DETECTION OF SMOKE IN ANY INDIVIDUAL UNIT.
 - DUCT MOUNTED SMOKE DETECTOR FOR SHUTDOWN OF OUTSIDE AIR UNIT ON ROOF ABOVE UPON DETECTION OF SMOKE. LOCATE IN SUPPLY DUCT. MAKE CONNECTIONS TO UNIT AS REQUIRED. PROVIDE ALL ASSOCIATED MODULES AND CONNECTIONS REQUIRED FOR CORRECT OPERATION AS NOTED IN THE SPECIFICATIONS.

NIC NHLIA University Tenant Improvement



DLR Group Project #: 10-23123-00
Date: 04.29.2024
Time: 11:00-12:00
Location: Nebraska Innovation Campus

DLR Group Inc.
a Nebraska corporation
6457 Frances Street, Suite 200
Omaha, NE 68106

Topic: Pre bid Attendance

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H&S Plumbing	Tome Santtila	Piping	402-421-1574	tsanttila@hsphe.com
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Willmar Electric Service	Dan Williams	EC	402-990-8680	dwilliams@willmar-electric.com
Kidwell Inc.	Nick Schneider	EC	402 473 7768	nschneider@kidwellinc.com
BIC	Justin Schuch	GC	402-480-7134	jschuch@bicconstruction.com
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H&S Plumbing	Roderick Hansen	HVAC	402-750-4775	rhansen@hsphe.com
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