

ADDENDUM NO. 1

TO THE PLANS AND SPECIFICATIONS FOR:

HC Wheatley Institute 3<sup>rd</sup> Floor

Prepared by

Brigham Young University  
Planning & Construction Dept.  
240 Brewster Physical Plant  
Provo, Utah 84602  
14 February 2025

This Addendum issued 14 February 2025 is for all persons preparing bids and as such shall be made a part of the contract documents. This Addendum consists of this cover sheet and 27 pages. In case of any conflict between the drawings, specifications, and this Addendum, this Addendum shall govern. All changes, corrections, deletions and/or additions to the initial bidding documents shall be included in the Bidder's proposal. Receipt of this Addendum shall be acknowledged on the Bid proposal forms.

Approved by:



\_\_\_\_\_  
Anthony R. Burdette, Director of Construction

14 Feb 2025

\_\_\_\_\_  
Date

## **Project: Wheatley Institute – 3<sup>rd</sup> Floor Renovation**

**Work Order: M9243**

### **ADDENDUM NO. 1**

**Date: February 14, 2024**

This addendum modifies the following drawings and specifications as follows.

#### Bidding Information:

1. The bid date has been changed to February 25<sup>th</sup>, 2025. Note bid opening will still be in room 113 of the Brewster Building at 3pm.
2. See revised Form of Proposal following narrative sheet
3. See attached bidding questions following this narrative sheet.

#### Drawing Information:

1. **Sheet G0.2**
  - REVISE: Responsibility Matrix.
  - REVISE: Reference Note 1 to include metal stud size.
  - REVISE: Detail 3 title to read P4a (in reference to stud size).
  - REMOVE: Assembly type FR3a from sheet.
2. **Sheet G0.3**
  - REVISE: Detail 1 – M9243 Egress Plan to show locations of Fire Extinguisher Cabinet locations within general vicinity of work area.
3. **Sheet A1.1**
  - ADD: Sheet keynotes 15 to show Fire Extinguisher Cabinet to be removed and relocated to adjacent new wall.
  - REVISE: Sheet keynotes 2, 4, 5, 9, 13, & 14 to clarify scope and responsibility.
4. **Sheet A1.3**
  - ADD: Sheet keynote 12 for relocation of existing Fire Extinguisher Cabinet.
  - ADD: Note 12 on floor plan showing new location for the Fire Extinguisher Cabinet.
5. **Sheet A4.3:**
  - ADD: Detail Section Callout to drawing detail 5.
  - ADD: Sheet keynotes 7 & 8 to describe new and existing Fire Extinguisher Cabinets.
  - REVISE: Detail 1 & 3 to show locations of Fire Extinguisher Cabinets and added sheet keynote references.
6. **Sheet A5.1:**
  - ADD: Detail D2 to sheet to show top of feature wall condition along with associated reference sheet keynote 17 to clarify scope on who responsibility to install wood cap.

## **Project: Wheatley Institute – 3<sup>rd</sup> Floor Renovation**

### **Work Order: M9243**

#### **7. Sheet A6.1:**

- REVISE: HM Face Profile detail to include information on the original frame manufacturer/supplier for the custom HM door frames as a reference.
- REVISE: Materials Finish Legend to include updated paint colors and solid surface countertops. – note Solid Surface counters will be Owner Provided and Owner Installed.

#### **8. Sheet M0.1:**

- ADD: HVAC Controls Detail to sheet.

#### **9. Sheet M1.0:**

- ADD: General notes 9, 10, 11, & 12 to clarify scope.
- REVISE: Demo and new mechanical plan layouts based on information provided in the new General Notes.

#### **10. Sheet M1.1:**

- ADD: General note 3 to clarify scope.
- REVISE: Drawing 2 Mechanical Controls plan based on information provided in the new General Note and HVAC controls detail on sheet M0.1.

### Specification Information:

#### **1. Section 09 2116 Part 2.02:**

- ADD: Metal Framing – General to indicate stud gauge sizing requirements.

### Re-issued Sheets (Full Size):

G0.2, G0.3, A1.1, A1.3, A4.3, A5.1, A6.1, M0.1, M1.0, M1.1

BRIGHAM YOUNG UNIVERSITY

FORM OF PROPOSAL

NAME OF PROJECT Wheatley Institute Third Floor Renovation

WORK ORDER NUMBER M9243

NAME OF CONTRACTOR \_\_\_\_\_

DATE OF PROPOSAL \_\_\_\_\_

The undersigned, hereinafter referred to as the Bidder, certifies that the following facts and/or circumstances have occurred or exist relating to the proposed work: Wheatley Institute Third Floor Renovation prepared by \_\_\_\_\_.

1. That Bidder has received the contract documents for the above entitled project.
2. That Bidder has received Brigham Young University General Conditions Requirements, revised October 26, 2017.
3. That Bidder is familiar with such documents, has examined the site of the proposed work, including availability of access, utilities, and other similar items relating to performance of the work and is thoroughly familiar with all general and local conditions which could in any way affect this work.
4. That no verbal agreements or representations with or by any officer, agent, or employee of the Owner exist or have been made to the Bidder and the Bidder in submitting this proposal is in no way relying thereon.
5. That if this proposal is accepted, Bidder will enter into a contract with the Owner in substantially the form contained in the contract documents, and will provide the bonds, insurance coverage and all other items required by the contract documents.
6. The term "base bid" shall be understood to include all work contained in the contract documents excluding any substitutes or alternates. The Owner will have the right to accept Alternates in any order or combination, and to determine the low Bidder on the basis of the sum of the Base Bid and Alternates accepted.

Bidder hereby proposes to furnish all materials, labor, equipment, tools, transportation, services, licenses and permits necessary for the completion of all the work set forth in the contract documents for the sum of:

Base Bid\* \_\_\_\_\_ (\$ \_\_\_\_\_ )

Alt. #1 Initiative Room \_\_\_\_\_ (\$ \_\_\_\_\_ )

Alt. #2 Lower VAVs \_\_\_\_\_ (\$ \_\_\_\_\_ )

\*Base bid to include the cost of a Performance Bond and a Labor/Materials Payment Bond. See General and Supplementary Conditions.

1. The bidder agrees to complete the work on or before 15 August 2025
2. The bidder acknowledges receipt of addenda No.(s) \_\_\_\_\_
3. The Bidder's Utah contractor's license number is \_\_\_\_\_
4. Is your bonding capacity adequate for this job? Yes No
5. For verification call \_\_\_\_\_
6. Telephone number \_\_\_\_\_

**PROPOSED SUBSTITUTE MATERIALS**

The total sum of the Bidder's proposal shall include the furnishing and installing of all materials, equipment, and labor as called for in the contract documents as a base bid.

Hereafter give the total amount to be added or deducted for a complete installation of equipment or materials other than those specified and those approved by addendum are submitted for the Owner's consideration. All materials and equipment proposed for substitution shall be listed below and must meet the requirements of the contract documents. During the time of consideration of the proposals, complete information shall be submitted immediately to the Architect and Owner's Representative. The Contractor is referred to Page 3 of the Instructions to Bidders, Section 9, prior approvals and substitutions for requirements relative to proposed substitutions.

Proposed Substitute	Manufacturer and Catalog Numbers	\$ Add	\$ Deduct

TYPE OF BIDDER'S ORGANIZATION:

\_\_\_\_\_  
Official Name of Organization

\_\_\_\_\_  
Corporation, Co-partnership, Individual, or Other

\_\_\_\_\_  
Address

Name of individual Members of Firm:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name of President of Corporation:

\_\_\_\_\_

Name of Secretary of Corporation:

\_\_\_\_\_

Corporation is organized under the laws of the State of:

( )  
)Seal(  
( )

Signature \_\_\_\_\_

Title or Office \_\_\_\_\_

Legal Address \_\_\_\_\_  
\_\_\_\_\_

BIDDER'S LIST OF SUBCONTRACT BIDS USED IN PROPOSAL

(LIST OF SUBCONTRACTORS)

PROJECT NAME Wheatley Institute Third Floor Renovation

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WORK ORDER NUMBER M9243

---

OWNER'S NAME Brigham Young University

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DIVISION	SUBCONTRACT CLASSIFICATIONS	SUBCONTRACTOR USED	AMOUNT

## BIDDING QUESTIONS

	QUESTIONS	RESPONSES
<b>1</b>	Are the existing VAV boxes hydronic (do they have a wet side?).	No. No wet side
<b>2</b>	For alternate #2, what is the current elevation for the VAV's? Any idea how far down are we dropping the boxes?	VAV's elevations vary depending on location. Contractor should plan on lowering boxes approximately 10-15 feet so they sit 18"-24" above ceiling elevation.
<b>3</b>	The wall types (shown on G0.2) show a furred out detail FR3a. I don't see this condition on the floor plans. Do any walls need to be furred out?	Interior partition type FR3a will not be used within this project scope. Sheet G0.2 has been revised and reissued as part of this addendum.
<b>4</b>	Can you give us direction on the metal stud size and gauge we are to use on the new partitions? I don't see any indicated.	Where new walls tie into existing walls the stud sizes will need to be verified and match. All new standalone wall stud sizes to be 4". Stud gauge should be 20ga. for all non-load bearing applications and 18ga. for all load bearing applications. Sheet G0.2 has been revised and reissued as part of this addendum.
<b>5</b>	Can you tell us who supplied the original hollow metal door frames (with the radiused profile)?	The door frames are Ceco Door / Assa Abloy decorative frame profile. The Hinckley Center uses the MH type frame profile.
<b>6</b>	It was mentioned at the prebid meeting that the casework and millwork would be provided by BYU. Does this include the demo of the countertops as indicated on the Demo plans?	Demolition of existing countertop will be under the responsibility of BYU. General Contractor will be required to protect any existing or new casework and countertops from damage during construction
<b>7</b>	Will BYU be removing and storing all of the furniture as mentioned in the prebid or is the contractor responsible for the storage of the furniture as stated in note 4 of the demo plan? Will BYU be removing the Furniture that is identified on the Demo plan note 13 as casework?	Removal and storage of all furniture (including items marked with note #13) will be under the responsibility of BYU and will be done prior to the start of construction activities.
<b>8</b>	Is the shelving in the shared office considered casework and will be removed by BYU or does the contractor remove this and then return it to BYU?	Removal and salvaging of the wall shelving in the shared office will be under the responsibility of BYU.
<b>9</b>	How high above the existing ceiling are the existing VAV boxes that are being lowered? Are there any pictures of the above ceiling space available?	VAV's elevations vary depending on location. Contractor should plan on lowering boxes approximately 10-15 feet so they sit 18" above ceiling elevation.
<b>10</b>	If Alt. #2 is accepted does the scope of work include lowering the main trunk lines or just the ducts for the branch lines and the VAV	Modifications are for VAV boxes and branch lines. Main trunk lines are to remain in its current/existing elevation.
<b>11</b>	Is the VAV and associated duct work servicing the new office in Alt. #1 part of the base bid or only necessary if Alt #1 is accepted? I assume the base bid is to provide the two offices and the alternate is to just build the one room but does this affect the mechanical	Only part of ALT #1 should be broken out for pricing accordingly.
<b>12</b>	Can you help define the scope of work for the GC in regards to OIT/Technology. The responsibility matrix shows the GC providing pathways, boxes, cabling, terminations, data racks, cable trays, etc. Drawing T1.3 describes that the "electric shop" will be installing mud rings and conduits. Can you provide some clarification as what OIT is requiring the GC/Electrician to provide? If we are to rough in and provide any of these pathways, we need to know where they are going (or where the existing cable tray is currently?).	The GC/Electrical Subcontractor shall provide all pathways from existing cable tray to data jack location. Including conduit from cable tray to data jack location, double gang low voltage mud rings and pull strings. OIT shall provide all cabling and termination of cabling including data jack and cover plate. For conduit sizes and location of jacks refer to the electrical plans and details as well as specification section 26 0533.13 part 2.02. Responsibility Matrix has been revised and reissued as part of this addendum.



## BIDDING QUESTIONS

<b>13</b>	Responsibility matrix shows adjustable shelving and markerboards as CFCI. Floor plans do not show locations for these items. Verify if these items are needed in this project.	Adjustable shelving and markerboards will be under the responsibility of BYU. Matrix will be revised to reflect this change.
<b>14</b>	Responsibility matrix shows Fire Extinguisher Cabinets as CFCI. Floor plans do not show locations for these items. Verify if these items are needed in this project.	Existing Fire Extinguisher Cabinets are to remain in place. No new cabinets are included in the scope of work. There is one F.E.C. that will need to be relocated which will be indicated on the plan sheets. Sheet G0.3, A1.1, & A1.3 has been revised and reissued as part of this addendum.
<b>15</b>	Kawneer and EFCO are the specified manufacturers for the storefront. Are substitutions or alternate manufacturers for this scope of work accepted, or are these the only two to be used?	Kawneer and EFCO are the two manufacturers/suppliers that are approved by the campus standards committee. No substitutions are allowed.
<b>16</b>	Verify whether removal of furniture will be by owner or contractor per note 4 on A1.1.	Removal and storage of all furniture will be under the responsibility of BYU and will be done prior to the start of construction activities.



**FACILITIES PLANNING**  
 240 BRWB PROVO, UTAH 84602  
 PHONE: (801) 422-5504  
 FAX: (801) 422-0566

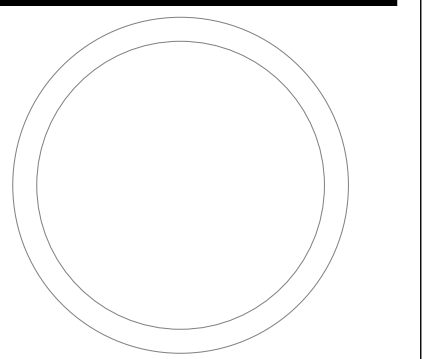
DATE: 01.31.2025  
 DESIGNER: J. PALMER  
 DRAWN BY: MDL

ADA CHECK: \_\_\_\_\_  
 CODE CHECK: \_\_\_\_\_  
 STRUCTURAL: \_\_\_\_\_  
 UTILITIES DIR: \_\_\_\_\_  
 PLANNING DIR: \_\_\_\_\_

CLIENT APPROVAL DATE

REVISIONS  
 ADDENDUM NO. 1 02.14.2025

BRIGHAM YOUNG UNIVERSITY  
 WHEATLEY INSTITUTE - 3RD FLOOR RENOVATION  
 ADVANCEMENT VP - ALUMNI  
 GORDON B. HINKLEY ALUMNI AND VISITORS CENTER



ASSEMBLIES TYPES

WORK ORDER & SHEET NO.

**M9243**  
**G0.2**

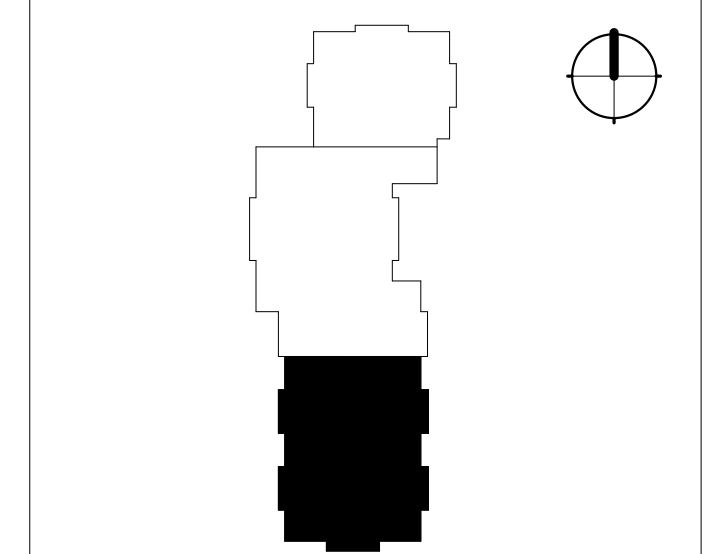
**REFERENCE NOTES**

- 1 LIGHT GAUGE METAL FRAMING/STUD. STUD SIZE TO BE 4" U.N.O. BRACE TOP OF WALL BACK TO STRUCTURE AS REQUIRED. WHERE A NEW WALL ATTACHES TO AN EXISTING WALL STUD SIZE TO MATCH EXISTING SO FACES OF WALLS ALIGN.
- 2 5/8" TYPE 'X' GYPSUM WALL BOARD. EXTEND A MINIMUM OF 18" ABOVE FINISHED CEILING U.N.O.
- 3 ACOUSTIC SOUND BATT INSULATION.
- 4 METAL RUNNER - BOTTOM TRACK.
- 5 METAL RUNNER - TOP COMPRESSION TRACK.
- 6 SEALANT WITH BACKER ROD. USE ACOUSTIC SEALANT AT SOUND WALLS.
- 7 WALL BASE, RE: FINISH SCHEDULE.
- 8 TOP OF WALL CONDITION, RE: PLANS AND DETAILS.
- 9 SINGLE LAYER 5/8" TYPE 'X' GYPSUM WALL/CEILING BOARD.
- 10 SUSPENDED ACOUSTIC CEILING TILE (ACT) AND GRID SYSTEM. RE: FINISH SCHEDULE.
- 11 EXISTING 1HR RATED COMPOSITE CONCRETE FLOOR SLAB ASSEMBLY.
- 12 EXISTING STRUCTURAL STEEL FRAMING SYSTEM.
- 13 CARPET (NIC) INSTALLED BY BYU.

**LEGEND**

- WALLS**
- EXISTING WALL - TO REMAIN
  - EXISTING WALL - DEMOLISH
  - NEW MTL STUD WALL, RE: WALL TYPE
- DOORS**
- EXISTING DOOR - TO REMAIN
  - EXISTING DOOR - DEMOLISH
  - NEW DOOR
- CEILINGS**
- SLOPED GYP CEILING - DEMOLISH
  - EXISTING CEILING - TO REMAIN
  - EXISTING CEILING - DEMOLISH
  - NEW CEILING
  - PENDANT LIGHT FIXTURE - EXISTING TO REMAIN
  - PENDANT LIGHT FIXTURE - REMOVE AND SALVAGE
  - PENDANT LIGHT FIXTURE - REINSTALLED
  - LAY-IN LIGHT FIXTURE (SIZE VARIES) - DEMOLISH
  - LAY-IN LIGHT FIXTURE (SIZE VARIES)
  - MECHANICAL DIFFUSER/GRILLE
  - LINEAR SLOT DIFFUSER - EXISTING
  - LINEAR SLOT DIFFUSER - DEMOLISHED
  - CONCEALED FIRE SPRINKLER HEAD
  - EXIT SIGNAGE
  - WIRELESS ACCESS POINT

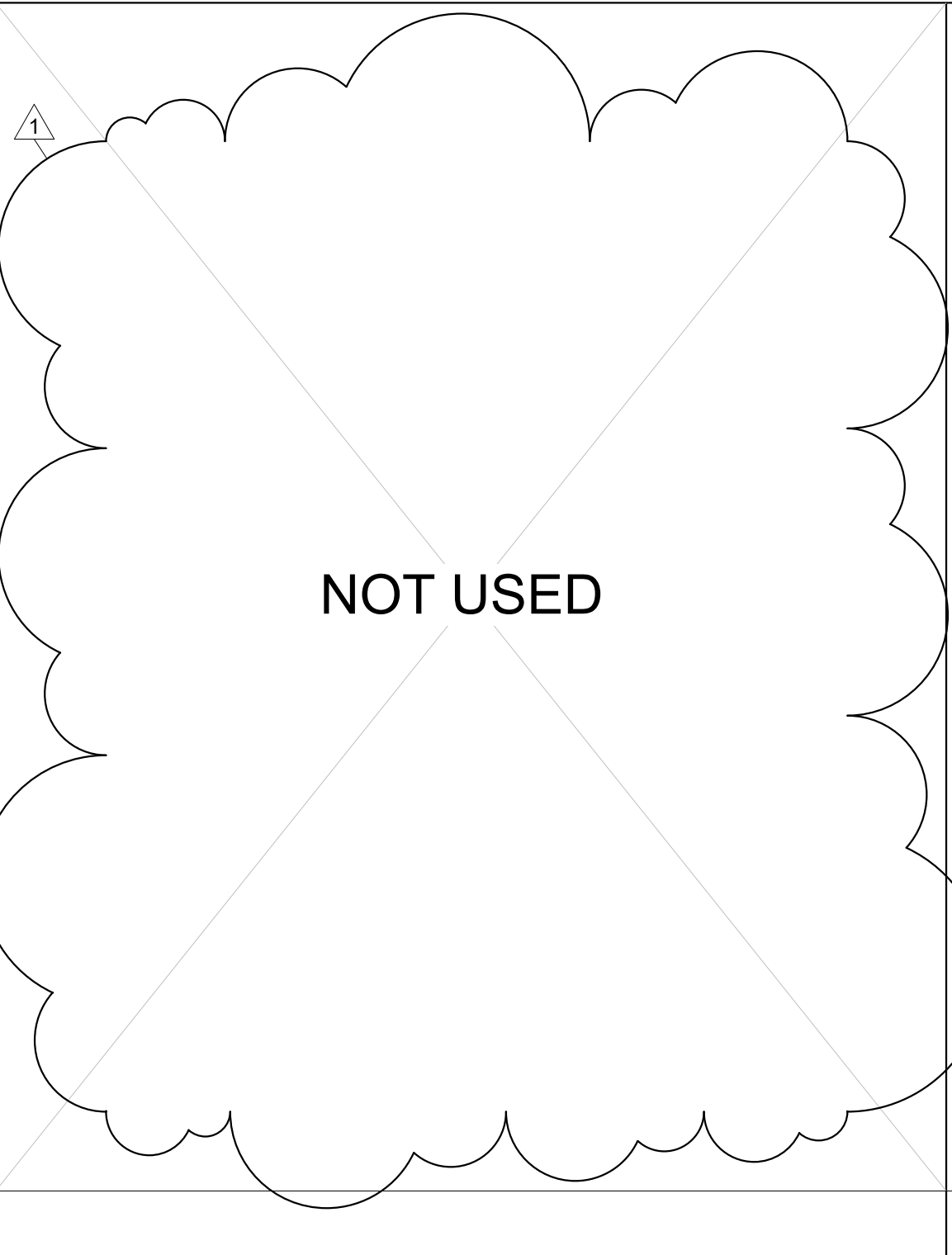
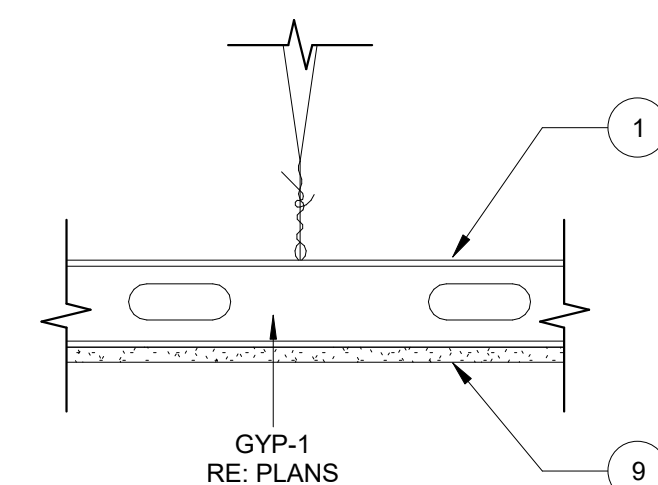
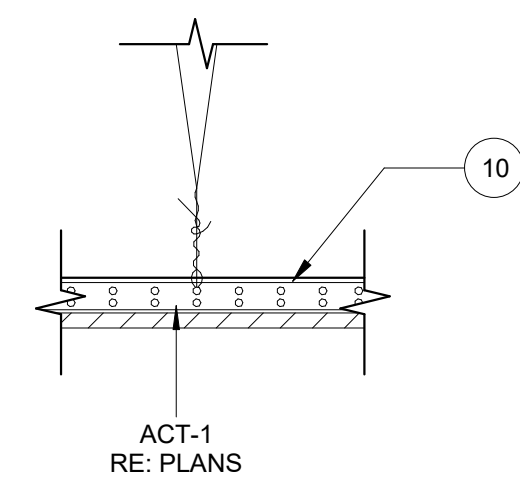
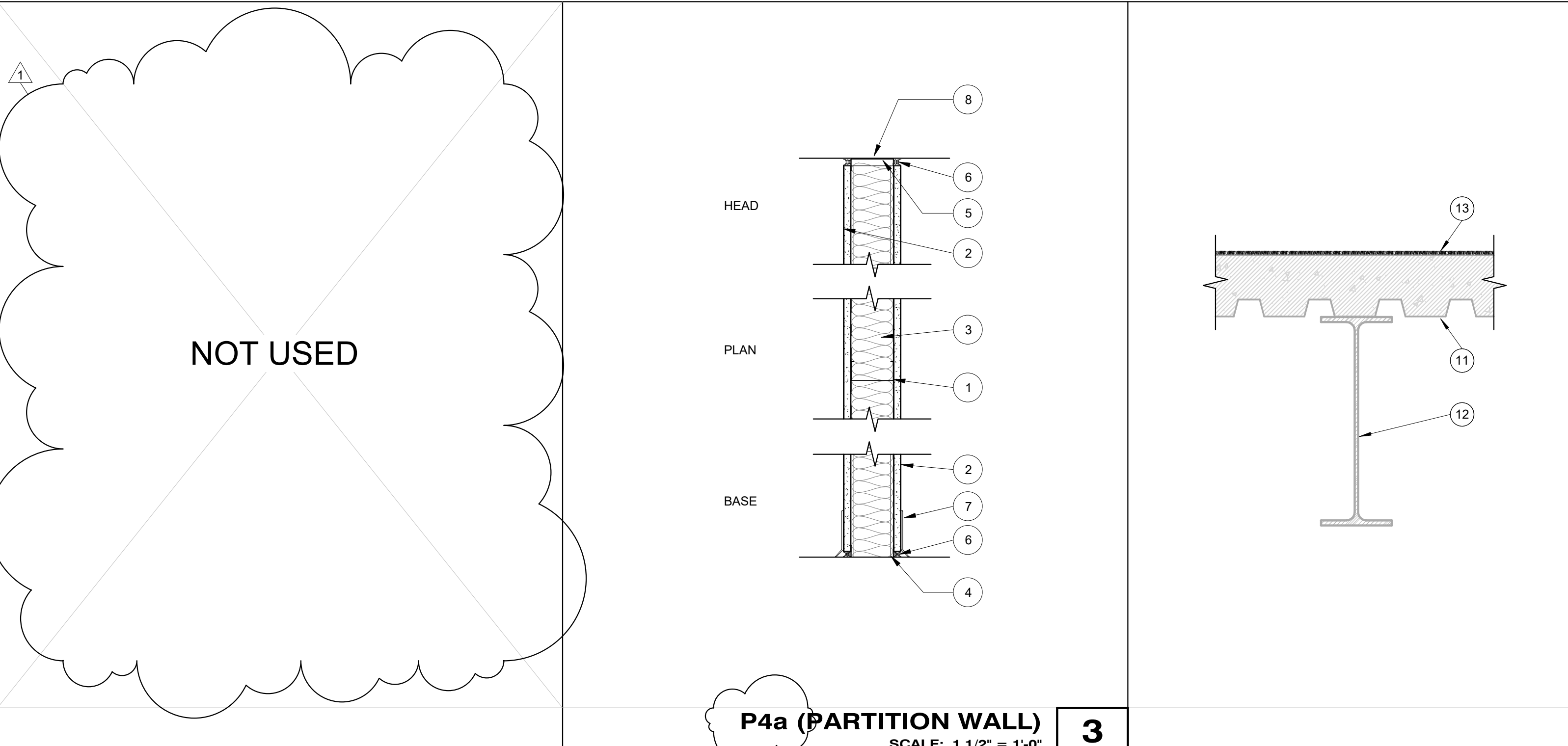
**KEY PLAN**



HINKLEY CENTER - 3RD FLOOR

Not-in-Contract (NIC) Coordination List	Furnished by BYU	Installed by BYU / BYU Vendor	Installed by General Contractor	Furnished by General Contractor	Notes
All Design Fees	x				
All Printing Costs (Use established BYU printing contract)	x				
Fees: Plan Check, Demolition Permit, Grading Permit, Building Permit, Sign Permit, Engineering Permit, Connection, and Impact Street and Sidewalk Closure Permit, Haul Route Permit, etc.	x				
Payment, Performance, and Materials Bonds				x	
Asbestos and Hazardous Materials Abatement	x				
Testing and Special Inspection Fees	x				
Testing and Special Inspection Scheduling				x	
<b>General</b>					
Signage - interior and exterior	x	x			
Removeable Core Cylinders and Keying	x	x			
Fire Extinguisher Cabinets and Extinguishers			x	x	
<b>OIT</b>					
Audio / Sound Reinforcement with mounting hardware, etc. (power and rough electrical In Contract)	x	x			
Flat Panel Displays and Digital Signage with mounting hardware (backing, power and rough electrical In Contract)	x	x			
CCTV Cameras with mounting hardware (power and rough electrical In Contract)	x	x			
Smart Boards and Interactive Marker Boards with mounting hardware (power and rough electrical In Contract)	x	x			
All AV systems (power and rough electrical In Contract)	x	x			
All Data Pathways, Termination Boxes and Mud Rings, Pull Strings, Warranty			x	x	
All Data Racks, Cabling, Terminations to Wall Plates	x	x			
All Cable Tray			x	x	
Cable Pass Systems complete, Terminations, Wall Racks, Cable Hangers, Wall Plugs, Intumescent bags (1 per cable pass penetration)	x	x	x	x	
Wireless Access Points (Power and Data In Contract)	x	x			
Time Clocks - Student Employee Type (power, data, and rough electrical In Contract)	x	x			
<b>Interiors</b>					
KV type adjustable shelving	x	x			
Marker boards / Tack boards	x	x			
Casework and Cabinetry	x	x			
Solid Surface Countertops	x	x			
Systems Furniture in Offices, etc.	x	x			
Movable Furniture and Seating	x	x			
Carpet and Carpet Base, LVT, Rubber Base	x	x			
<b>Systems</b>					
Mechanical Controls Hardware (both system and terminal units) by Atkinson or Johnson Controls	x		x		
Mechanical Controls Raceway and Wiring			x	x	
Mechanical Controls Programming (Software - both system and terminal units) by Atkinson or Johnson Controls	x	x			
High Temperature Hot Water Control Valves	x		x		
High Temperature Controls (panels and sensors)	x	x			
<b>Project Specific</b>					
Moving Existing Equipment	x				

**RESPONSIBILITY MATRIX**



**ACT-1 (ACOUSTIC CEILING TILE)**  
 SCALE: 1 1/2" = 1'-0"

**1**

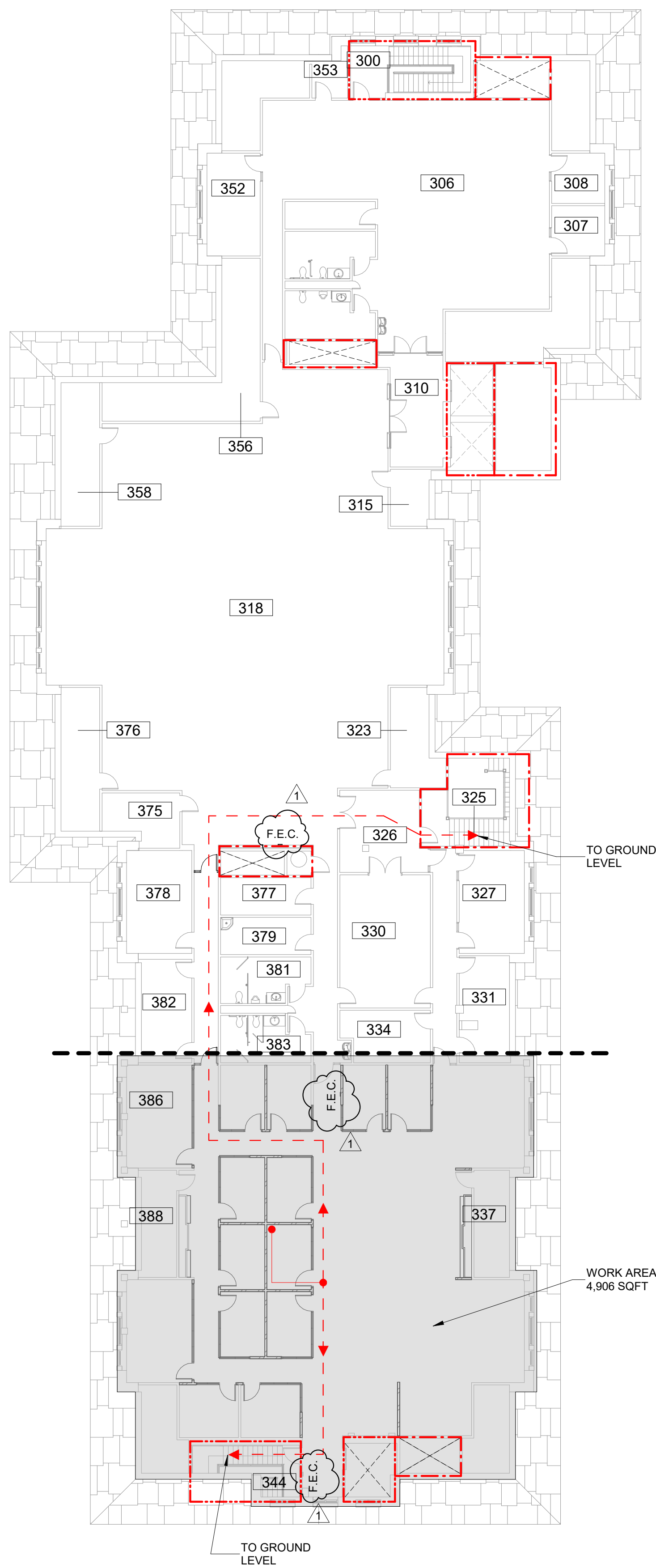
**GYP-1 (GYPSUM CEILING)**  
 SCALE: 1 1/2" = 1'-0"

**2**

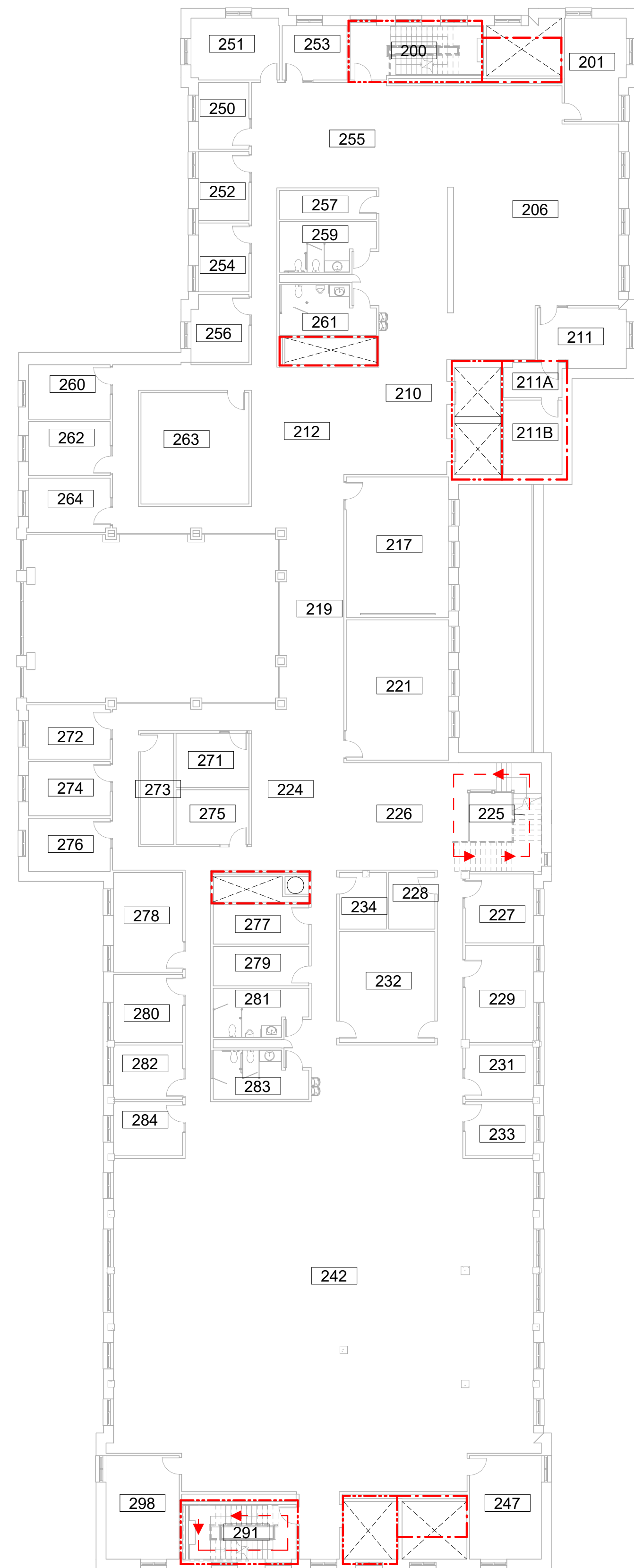
**P4a (PARTITION WALL)**  
 SCALE: 1 1/2" = 1'-0"

**3**

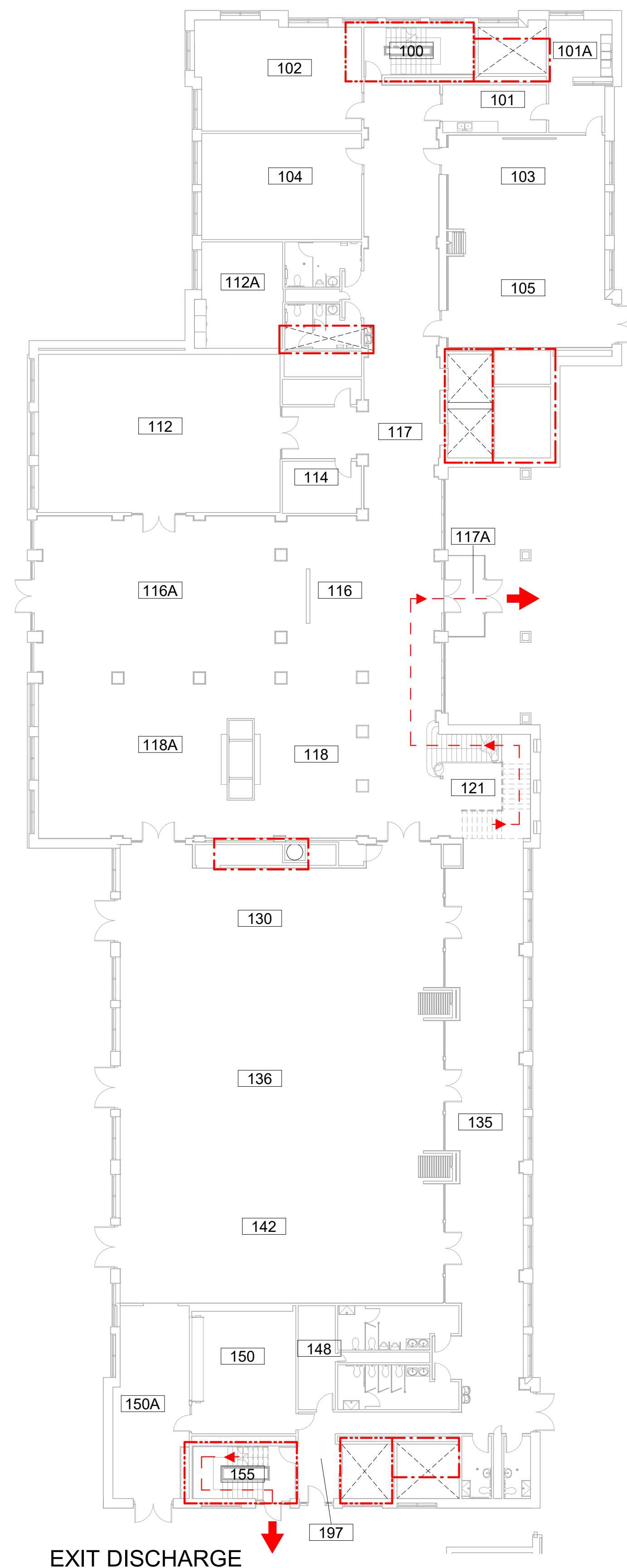
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**M9243 EGRESS PLAN**  
SCALE: 1/16" = 1'-0"



**M9243 - EGRESS PLAN (L2)**  
SCALE: 1/16" = 1'-0"



**M9243 - EGRESS PLAN (L1)**  
SCALE: 1/16" = 1'-0"

**CODE COMPLIANCE**

THIS PROJECT SHALL BE COMPLETED ACCORDING TO THE LATEST EDITION OF THE FOLLOWING STANDARDS & AMENDMENTS TO THOSE STANDARDS AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION:

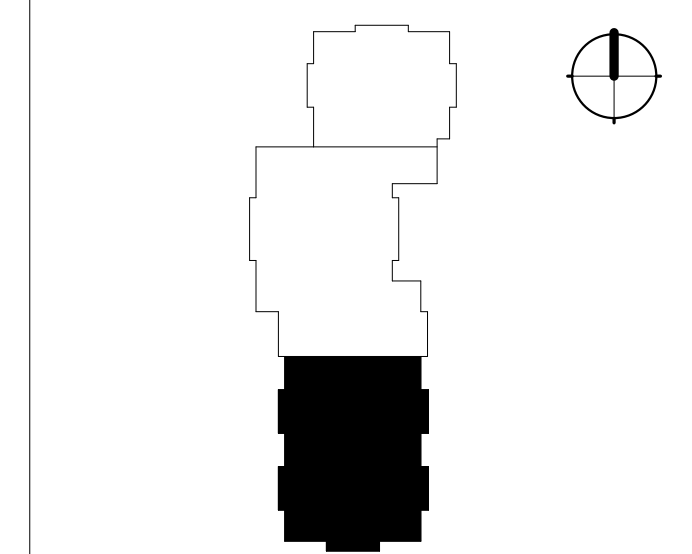
- 2021 IBC (International Building Code)
- 2021 IEBC (International Existing Building Code)
- 2021 IFC (International Fire Code)
- 2020 NEC (National Electrical Code)
- 2021 IECC (International Energy Conservation Code)
- 2021 IFGC (International Fuel Gas Code)
- NEMA (National Electrical Manufacturer's Assoc.)
- 2021 IMC (International Mechanical Code)
- 2021 IPC (International Plumbing Code)
- 1997 Uniform Code for Building Conservation
- NFPA (National Fire Protection Association)
- UL (Underwriters Laboratories, Inc.)
- State & Local Building Authority & Codes

OCCUPANCY CLASS.: Group: B, A-2 (Unchanged)  
Section 304  
CONSTRUCTION TYPE: Type: II-A (Unchanged)  
Section 602  
EXISTING BLDG CODE: Chapter 5 (IEBC)  
IEBC COMPLIANCE METHOD: Alteration  
Section 503  
OCCUPANT LOAD: Unchanged  
FIRE PROTECTION: Fully sprinkled  
Section 903  
EGRESS: Unchanged  
REQUIRED PLBG. FIXTURES: Unchanged

**LEGEND**

- COMMON PATH OF TRAVEL
- - - PATH OF EGRESS
- ▶ EGRESS DIRECTION
- - - 1 HR RATED ASSEMBLY
- - - 2 HR RATED ASSEMBLY
- ← EXIT DISCHARGE

**KEY PLAN**



HINKLEY CENTER - 3RD FLOOR



**FACILITIES PLANNING**  
240 BRWB PROVO, UTAH 84602  
PHONE: (801) 422-5504  
FAX: (801) 422-0566

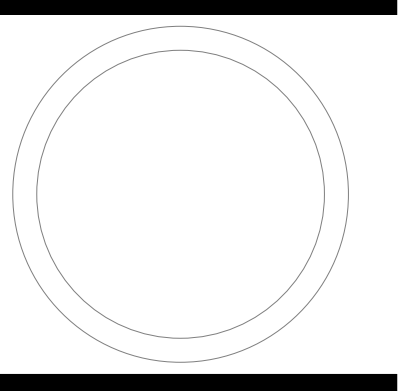
DATE: 01.31.2025  
DESIGNER: J. PALMER  
DRAWN BY: EPE

ADA CHECK: \_\_\_\_\_  
CODE CHECK: \_\_\_\_\_  
STRUCTURAL: \_\_\_\_\_  
UTILITIES DIR: \_\_\_\_\_  
PLANNING DIR: \_\_\_\_\_

CLIENT APPROVAL DATE

**REVISIONS**  
ADDENDUM NO. 1 02.14.2025

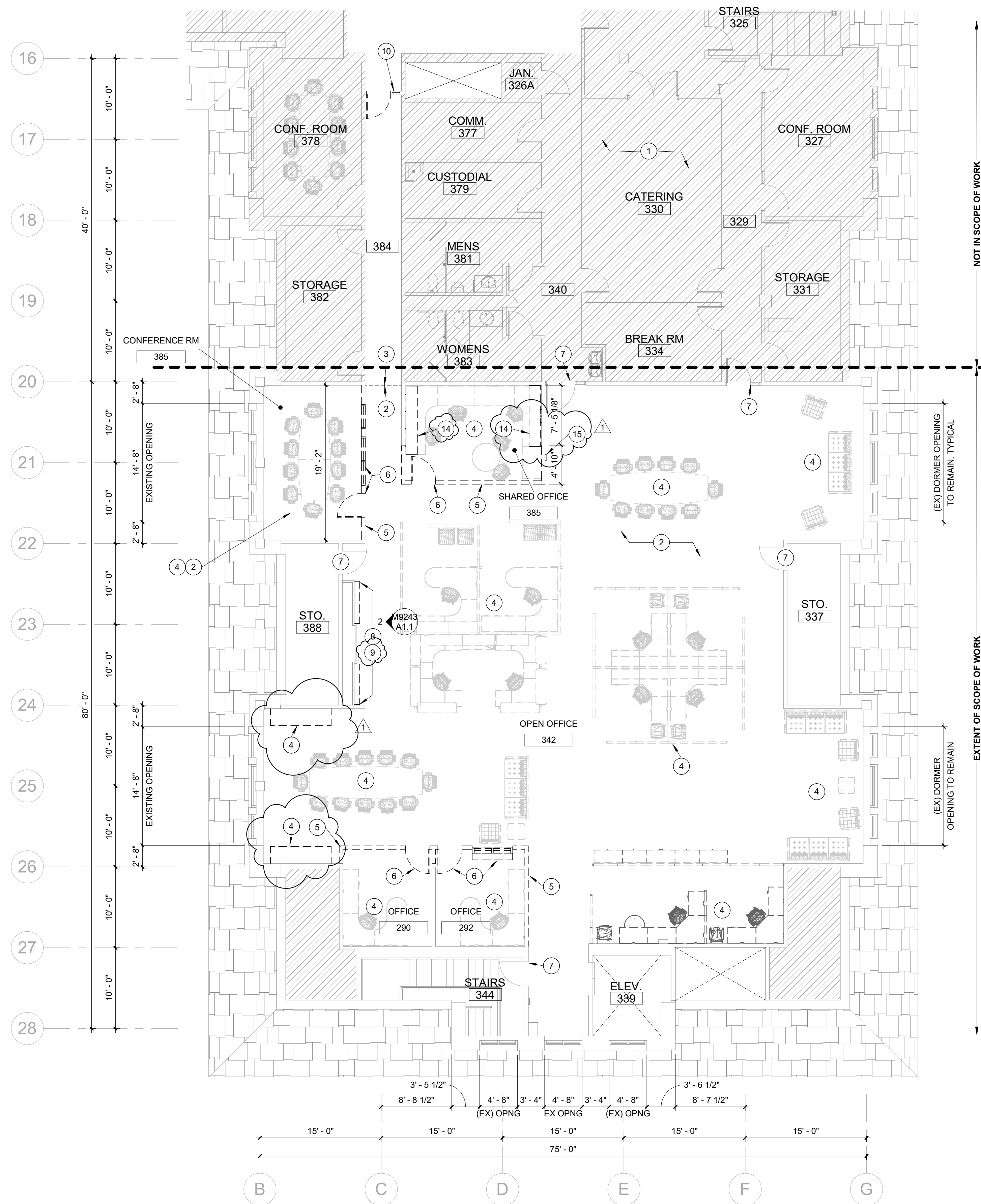
**BRIGHAM YOUNG UNIVERSITY**  
**WHEATLEY INSTITUTE - 3RD FLOOR RENOVATION**  
**ADVANCEMENT VP - ALUMNI**  
 GORDON B. HINKLEY ALUMNI AND VISITORS CENTER



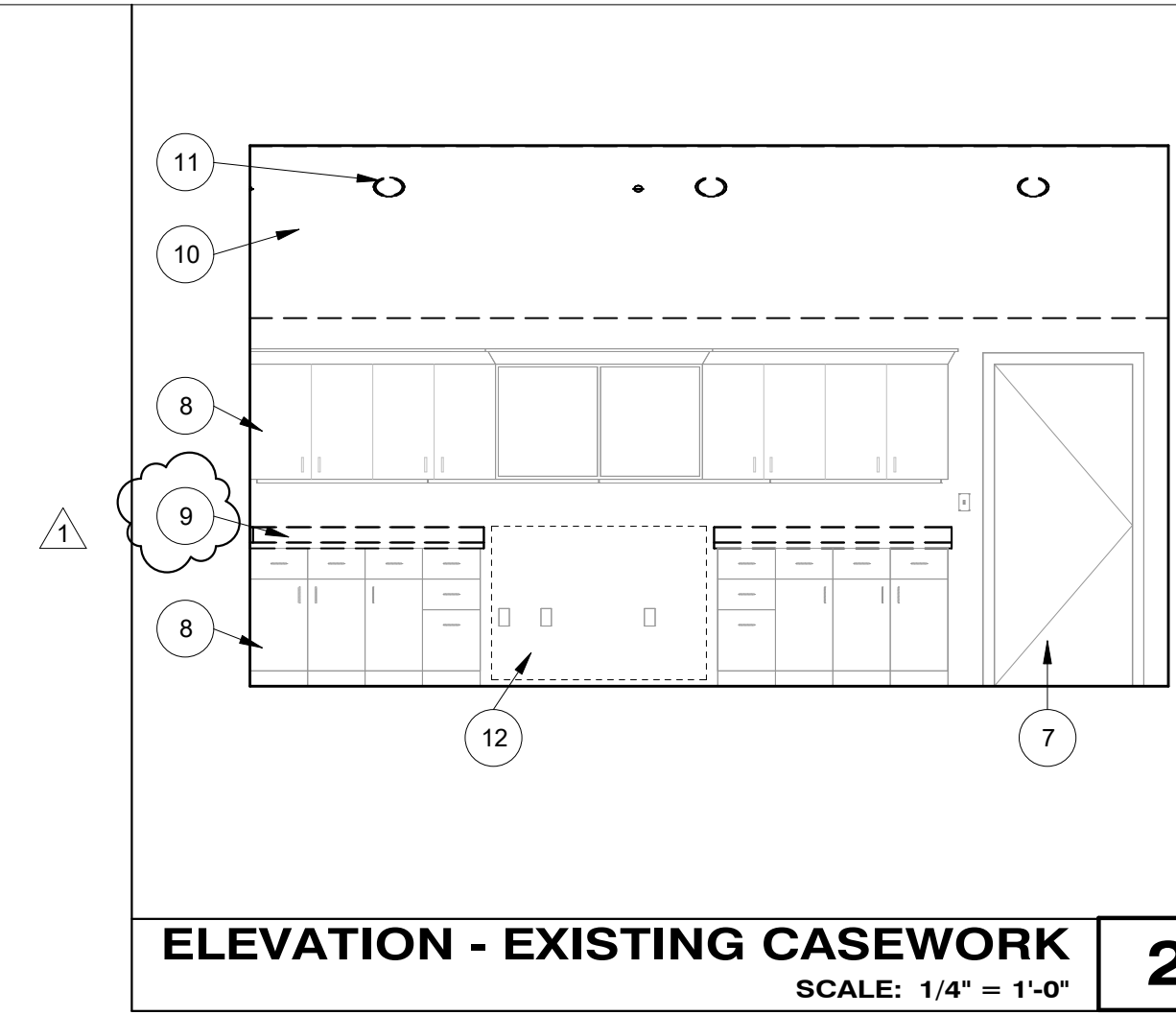
**EGRESS PLANS**

WORK ORDER & SHEET NO.

**M9243**  
**G0.3**



**DEMOLITION FLOOR PLAN - 3RD FLOOR SOUTH**  
SCALE: 1/8" = 1'-0" **1**

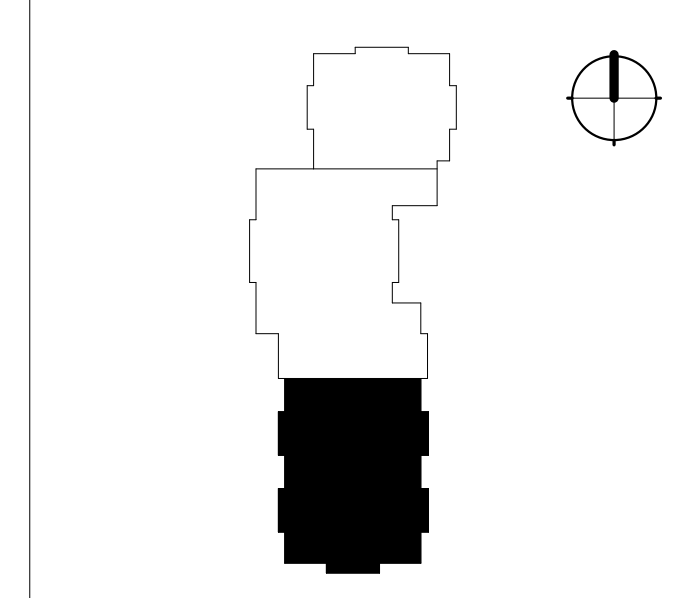


- GENERAL NOTES**
- REFER TO RESPONSIBILITY MATRIX FOR ITEMS UNDER THE GENERAL CONTRACTOR'S SCOPE OF WORK AND ITEMS UNDER THE OWNER'S SCOPE OF WORK.
  - GENERAL CONTRACTOR SHALL TAKE NECESSARY ACTIONS TO PROTECT EXIST. WALLS, DOORS, WINDOWS, FLOORS, SIGNAGE, BELLS, ALARMS, FIRE EXTINGUISHER CABS, DRINKING FOUNTAINS, WALL MOUNTED HEATERS, & ANY OTHER PERMANENT COMPONENTS OF THE EXIST. BUILDING TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE TO FIX, PATCH, REPAIR AND/OR REPLACE ANY & ALL EXISTING ITEMS WHICH ARE DAMAGED DURING CONSTRUCTION.
  - GENERAL CONTRACTOR SHALL TAKE NECESSARY ACTIONS TO PROTECT ALL EXISTING FIRE SPRINKLER PIPING. DO NOT PLACE, POSITION, HANG, OR SUPPORT AGAINST EXISTING PIPING OR HEADS.
  - REMOVE ALL EXISTING CONDITIONS AS INDICATED AND REQUIRED TO COMPLETE THE PROPOSED SCOPE OF NEW CONSTRUCTION.
  - REMOVE ALL DEMOLITION MATERIALS FROM THE BUILDING AND OFF SITE WITHOUT DAMAGE TO THE BUILDING OR ITS FINISHES. IMMEDIATELY FOLLOWING DEMOLITION OF EXISTING WALLS, FLOORS, AND CEILINGS, CONTRACTOR SHALL EVALUATE EXISTING CONDITIONS TO IDENTIFY ANY CONFLICTS WITH NEW LAYOUTS. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF CONFLICTS ARE DISCOVERED.

- REFERENCE NOTES**
- DIAGONAL HATCH REGIONS INDICATE AREA NOT IN SCOPE OF WORK, TYPICAL.
  - REMOVE AND DISPOSE OF EXISTING CARPET THROUGHOUT WHEATLEY INSTITUTE SPACE TO BE COMPLETED BY BYU UPHOLSTERY SHOP.
  - EXISTING CARPET TO REMAIN; PROTECT FROM CONSTRUCTION ACTIVITIES.
  - REMOVAL, SALVAGING, AND STORAGE OF ALL FURNITURE WITHIN WHEATLEY INSTITUTE SPACE TO BE PROVIDED BY BYU.
  - REMOVE AND DISPOSE OF WALL SYSTEM OR PORTION THEREOF. RELOCATE ANY ELECTRICAL AND TECHNOLOGY DEVICES AS REQUIRED FOR NEW LAYOUT. REFER TO NEW FLOOR PLANS AND ELECTRICAL DRAWINGS.
  - REMOVE AND DISPOSE OF EXISTING HM DOOR/WINDOW FRAME.
  - EXISTING HM DOOR TO REMAIN. PROTECT DURING CONSTRUCTION. RE: DOOR SCHEDULE FOR DOORS TO RECEIVE NEW HARDWARE.
  - EXISTING UPPER AND LOWER CASEWORK AND MOLDING TO REMAIN, PROTECT DURING CONSTRUCTION.
  - (N.I.C.) REMOVE AND DISPOSE OF EXISTING SOLID SURFACE COUNTERTOP TO BE BY BYU CARPENTRY SHOP.
  - DEMOLISH PORTION OF SLOPED GYP. BD CEILING AS INDICATED BY CROSSHATCH PATTERN.
  - DISCONNECT AND REMOVE RECESSED CAN LIGHT FIXTURE, RE: ELECTRICAL.
  - EXISTING SLOPED GYP. BD CEILING (DORMER CONDITION) TO REMAIN; PROTECT AS REQ'D.
  - NOT USED.
  - (N.I.C.) REMOVE AND SALVAGE WALL MOUNTED STANDARDS AND SHELVING BY BYU CARPENTRY SHOP.
  - EXISTING FIRE EXTINGUISHER CABINET TO BE REMOVED AND RELOCATED IN NEW WALL AS INDICATED ON PLAN.

- LEGEND**
- WALLS**
- EXISTING WALL - TO REMAIN
  - EXISTING WALL - DEMOLISH
  - NEW MTL STUD WALL, RE: WALL TYPE
- DOORS**
- EXISTING DOOR - TO REMAIN
  - EXISTING DOOR - DEMOLISH
  - NEW DOOR

**KEY PLAN**



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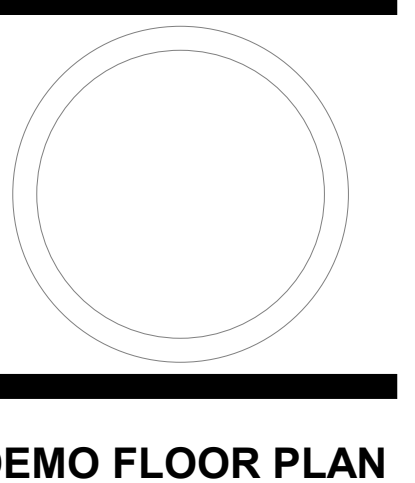
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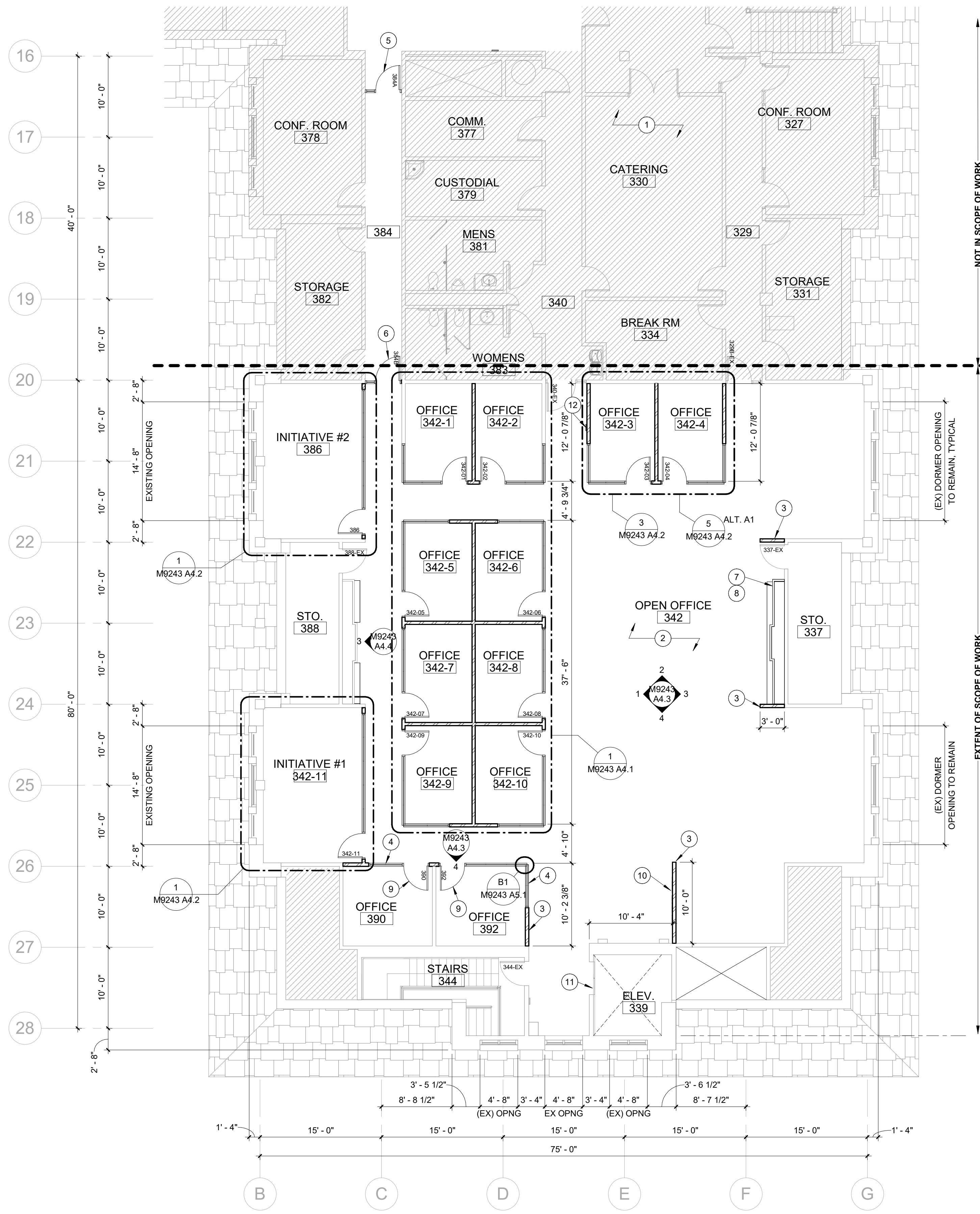
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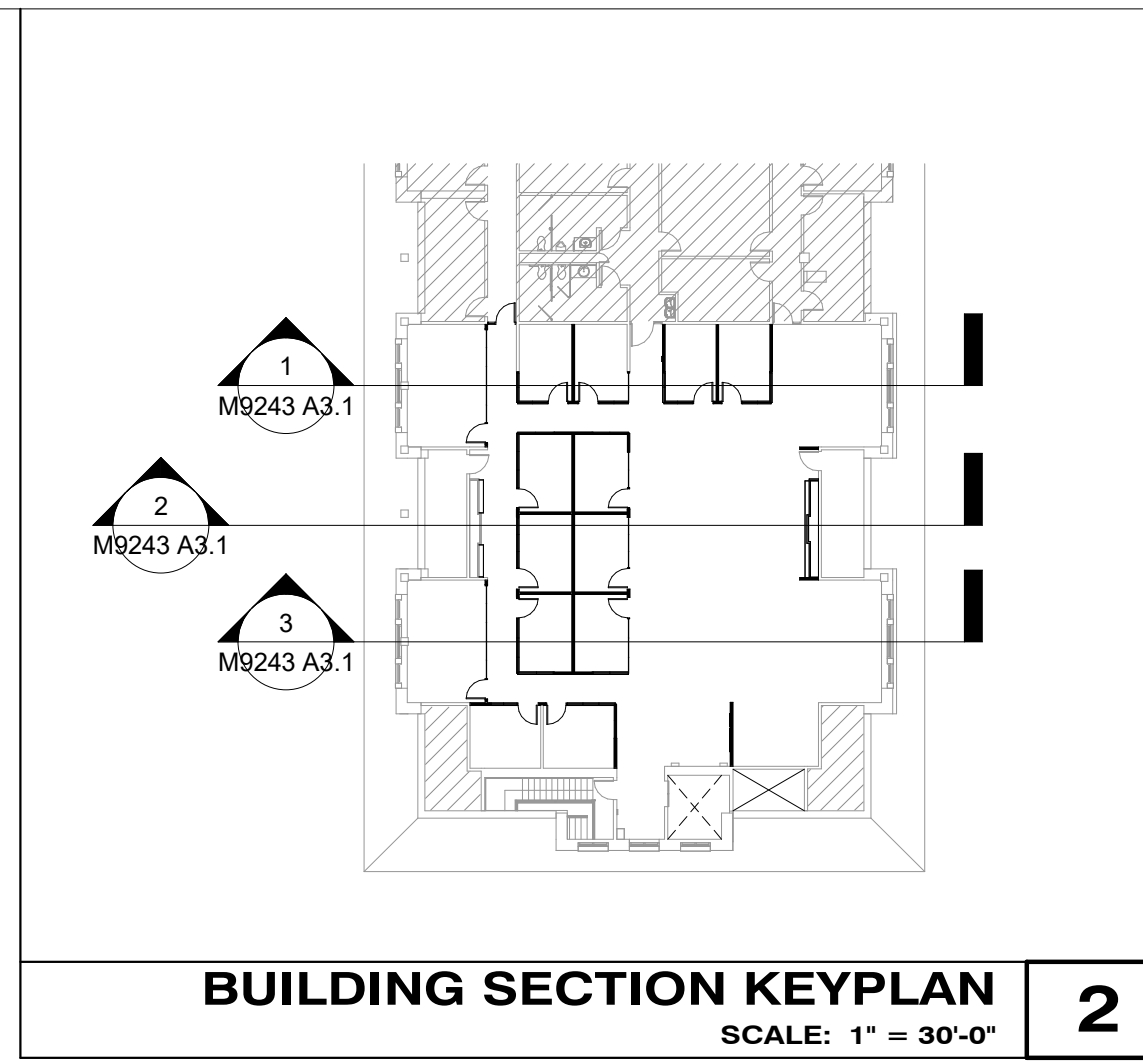
WORK ORDER & SHEET NO.

**M9243**  
**A1.1**

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**NOTE:**  
 BYU TO EVALUATE ANY EXISTING FLOOR PENETRATIONS WITHIN SCOPE OF WORK AND COORDINATE WITH CONTRACTOR ON ANY PENETRATIONS THAT WILL NO LONGER BE USED AND WILL REQUIRE TO BE GROUTED AND FILLED.  
 CONTRACTOR TO VERIFY WITH BYU PRIOR TO ANY NEW PENETRATIONS THROUGH FLOOR.

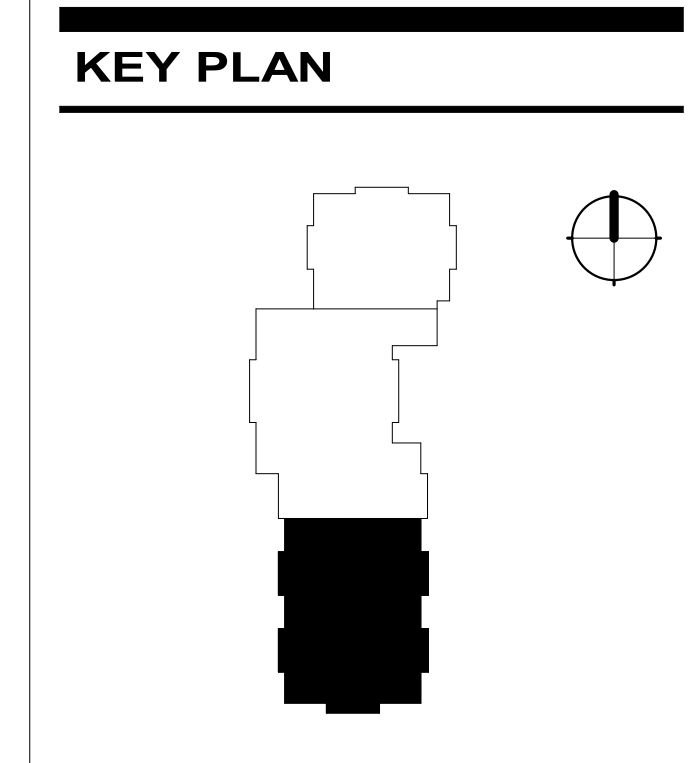


**NEW FLOOR PLAN - 3RD FLOOR SOUTH** SCALE: 1/8" = 1'-0" **1**

- GENERAL NOTES**
- REFER TO RESPONSIBILITY MATRIX FOR A BREAKDOWN ON SCOPE OF WORK. GENERAL CONTRACTOR SHALL COORDINATE WITH OWNER FOR ALL ITEMS OUTSIDE THEIR SCOPE.
  - ALL DIMENSIONS SHOWN ON DRAWINGS FOR NEW WALLS ARE TO FACE OF STUD. FOR EXISTING WALLS, DIMENSIONS ARE TO FACE OF WALL SURFACE.
  - WALL SURFACES SHOWN ON DRAWINGS THAT APPEAR TO BE FLUSH WITH AN EXISTING WALL ARE INDEED FLUSH. GENERAL CONTRACTOR TO COORDINATE INSTALLATION OF FRAMING SO THAT FINISH WALL SURFACE REMAINS FLUSH.
  - AT WALL TRANSITIONS FROM EXISTING TO NEW, PATCH AND/OR REPLACE GYP. BOARD AS REQUIRED TO PROVIDE A FLUSH AND SEAMLESS TRANSITION BETWEEN WALL SURFACES.
  - WHERE LOWER PORTIONS OF THE ROOF STRUCTURE EXIST, EXTEND NEW WALLS UP AND ATTACH TO STRUCTURE. WHERE IT IS NOT FEASIBLE TO EXTEND WALLS UP DUE TO ROOF STRUCTURE HEIGHT THE GENERAL CONTRACTOR SHALL PROVIDE DIAGONAL BRACING BACK TO STRUCTURE AS REQUIRED.
  - ROOM ID SIGNAGE TO BE PROVIDED AND INSTALLED BY BYU.
  - GENERAL CONTRACTOR TO PROVIDE IN WALL BLOCKING FOR ALL WALL MOUNTED EQUIPMENT (CABINETS, ACCESSORIES, HARDWARE, ETC.). WOOD BLOCKING OR 16 GA. METAL STRAPPING (SECURED TO 3 STUDS MINIMUM) IS ACCEPTABLE.
  - GENERAL CONTRACTOR TO PROVIDE FIRESTOPPING/CAULKING AT ALL NEW PENETRATIONS THROUGH EXISTING WALLS AND FLOORS. PENETRATIONS THROUGH NEW WALLS SHOULD BE SEALED/CAULKED AS REQUIRED.

- REFERENCE NOTES**
- DIAGONAL HATCH REGIONS INDICATE AREA NOT IN SCOPE OF WORK. TYPICAL.
  - GENERAL CONTRACTOR TO PREP FLOOR FOR NEW FLOORING INSTALLATION. BYU TO PROVIDE AND INSTALL NEW HC BUILDING STANDARD CARPET TILES THROUGHOUT SPACE. RE: RESPONSIBILITY MATRIX.
  - NEW MTL STUD FRAMED WALL (RE WALL TYPE ASSEMBLY). EXTEND AND SECURE WALL UP TO 12" ABOVE HIGHEST CEILING.
  - NEW ALUMINUM FRAMED STOREFRONT SYSTEM WITH BUTT GLAZED GLASS PANELS. RE: STOREFRONT ELEVATIONS AND SPECS.
  - REMOVE AND REINSTALL DOOR WITH DOOR SWING IN OPPOSITE DIRECTION SO THAT DOOR SWINGS OUT INTO OPEN EVENT SPACE.
  - NEW 3'-0" X 7'-0" HM DOOR & FRAME WITH SIDELITE. RE: DOOR SCHEDULE AND FRAME ELEVATIONS.
  - N.I.C. - NEW UPPER AND LOWER CABINETRY TO BE FURNISHED AND INSTALLED BY OWNER. RE: INTERIOR ELEVATIONS.
  - N.I.C. - NEW SOLID SURFACE COUNTERTOP TO BE FURNISHED AND INSTALLED BY OWNER. RE: FINISH SCHEDULE. COORDINATE ABOVE COUNTER ELECTRICAL RECEPTACLES.
  - NEW FLUSH WOOD DOOR PROVIDED. RE: DOOR SCHEDULE AND DOOR PANEL ELEVATIONS.
  - DIMENSIONAL SIGNAGE USING WHEATLEY TYPE FONT FACE. MOUNT USING 1" STANDOFFS FROM WALL. RE: SPECS.
  - CONTRACTOR TO PROVIDE PROTECTION OF ALL SURFACES WITHIN ELEVATOR CAR AND ELEVATOR ENTRANCES.
  - RELOCATED FIRE EXTINGUISHER CABINET.

- LEGEND**
- WALLS**
- EXISTING WALL - TO REMAIN
  - EXISTING WALL - DEMOLISH
  - NEW MTL STUD WALL, RE: WALL TYPE
- DOORS**
- EXISTING DOOR - TO REMAIN
  - EXISTING DOOR - DEMOLISH
  - NEW DOOR



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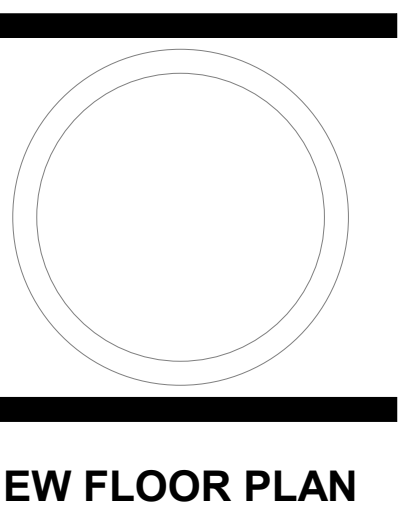
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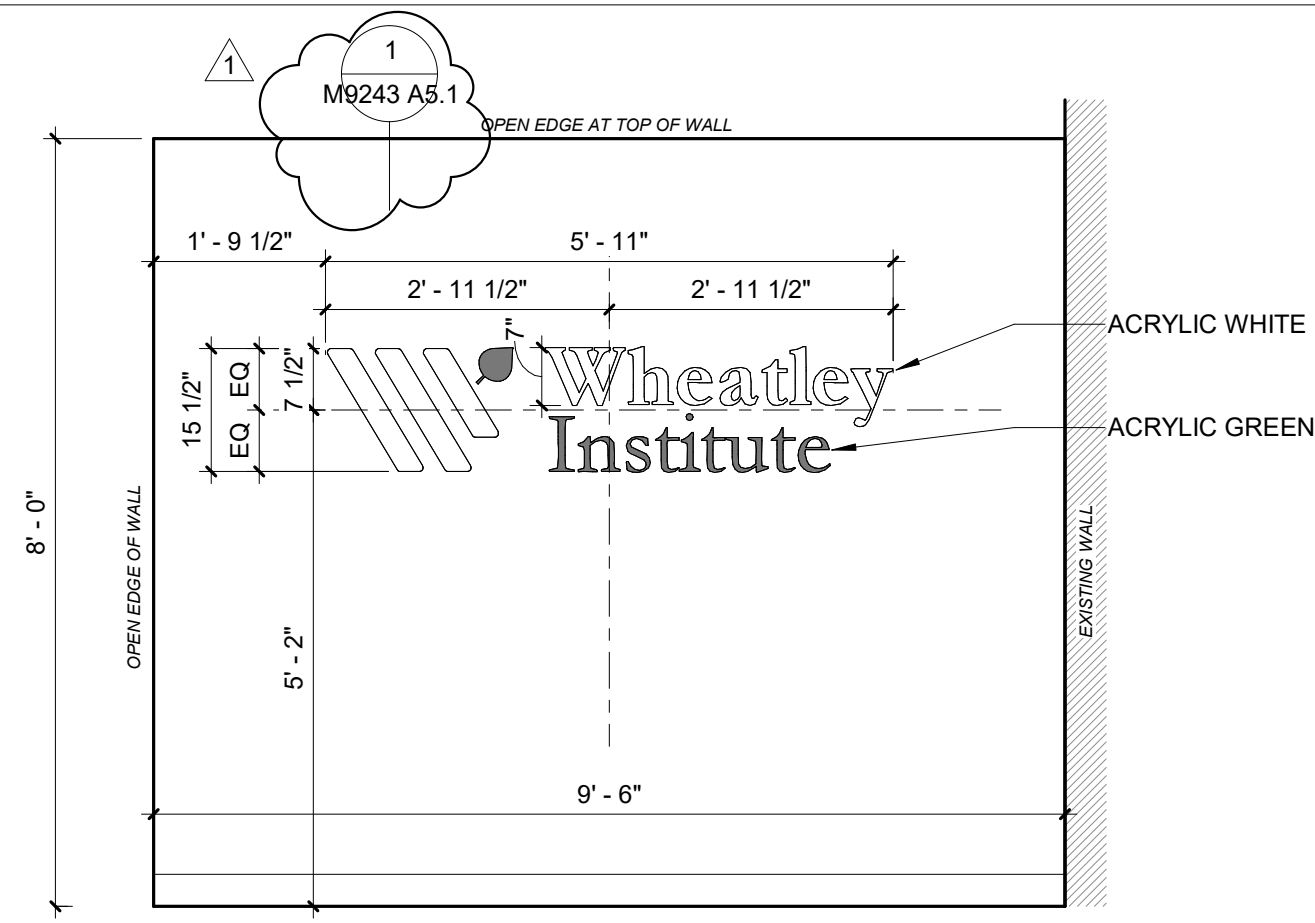
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**REVISIONS**  
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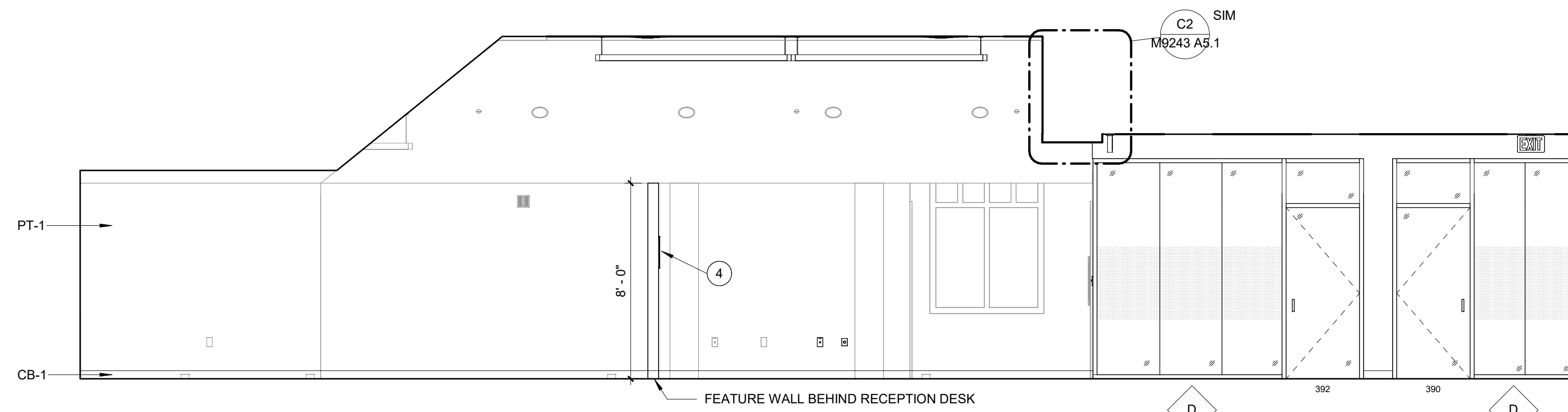
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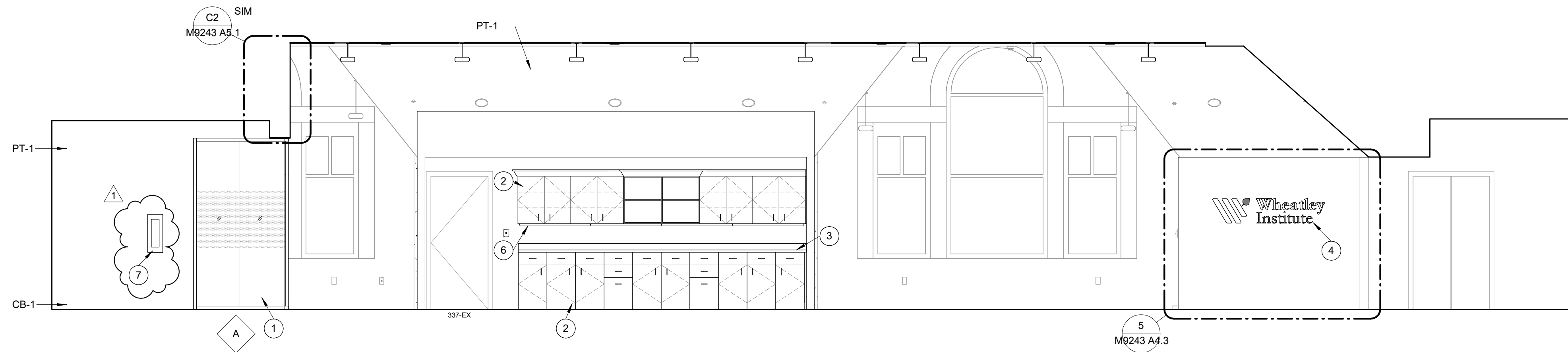
WORK ORDER & SHEET NO.  
**M9243**  
**A1.3**



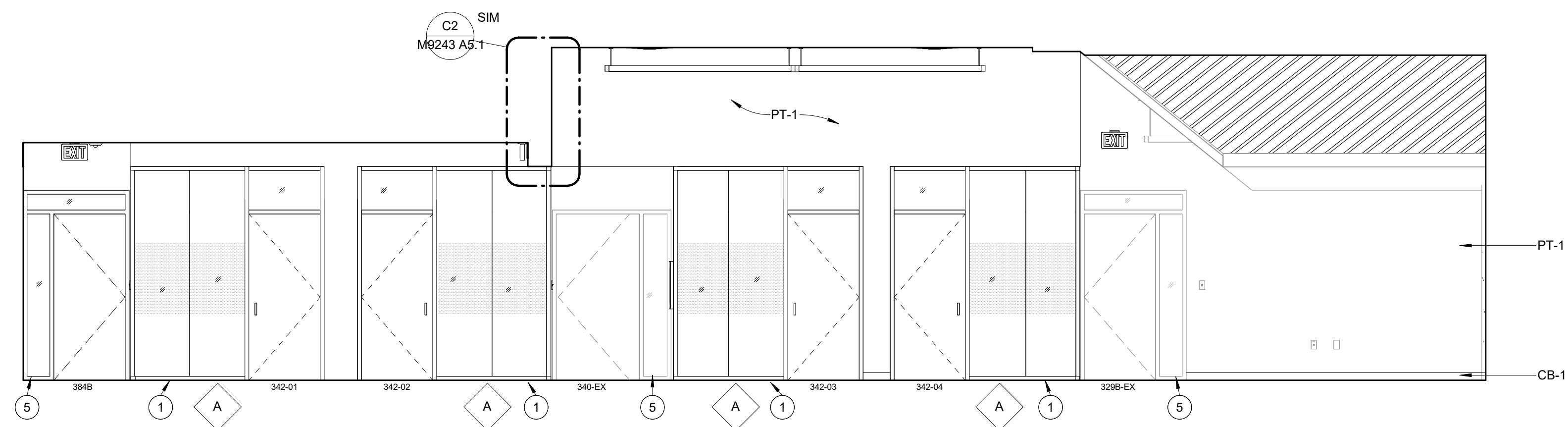
**ELEVATION - RECEPTION FEATURE WALL**  
SCALE: 1/2" = 1'-0" **5**



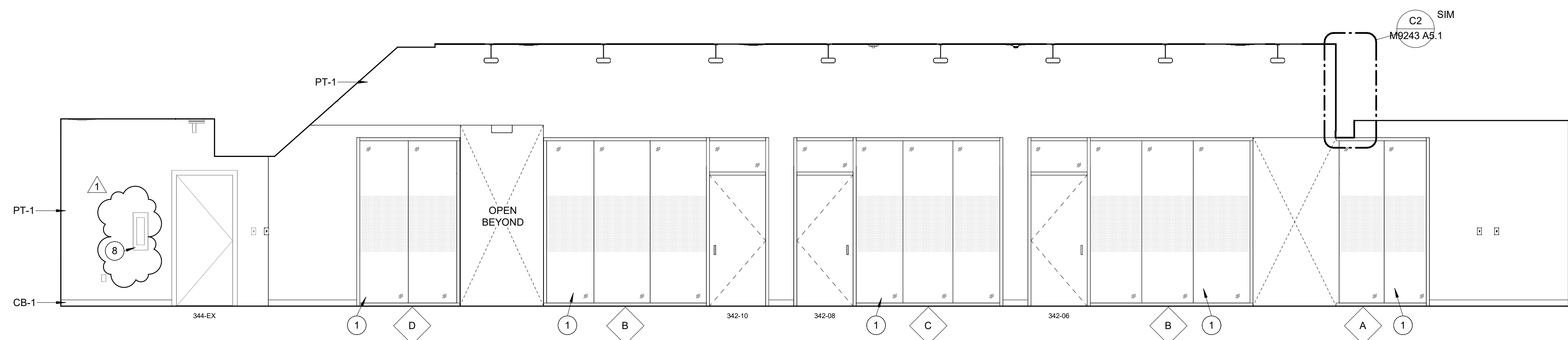
**SOUTH ELEVATION (RM 342)**  
SCALE: 1/4" = 1'-0" **4**



**WEST ELEVATION (RM 342)**  
SCALE: 1/4" = 1'-0" **3**



**NORTH ELEVATION (RM 342)**  
SCALE: 1/4" = 1'-0" **2**



**EAST ELEVATION (RM 342)**  
SCALE: 1/4" = 1'-0" **1**

**REFERENCE NOTES**

- 1 ALUMINUM FRAMED STOREFRONT SYSTEM, RE: SPECS.
- 2 N.I.C. - NEW UPPER AND LOWER CABINETRY TO BE FURNISHED AND INSTALLED BY OWNER, RE: INTERIOR ELEVATIONS.
- 3 N.I.C. - NEW SOLID SURFACE COUNTERTOP TO BE FURNISHED AND INSTALLED BY OWNER, RE: FINISH SCHEDULE. COORDINATE ABOVE COUNTER ELECTRICAL RECEPTACLES.
- 4 DIMENSIONAL SIGNAGE USING WHEATLEY TYPE FONT FACE. MOUNT USING 1" STANDOFFS FROM WALL. RE: SPECS.
- 5 HM DOOR FRAME, RE: DOOR SCHEDULE.
- 6 UNDER CABINET LIGHT FIXTURE. COORDINATE INSTALLATION WITH INSTALLATION OF OWNER PROVIDED CABINETRY. RE: ELECTRICAL.
- 7 RELOCATED FIRE EXTINGUISHER CABINET. EXISTING FIRE EXTINGUISHER CABINET TO REMAIN. PROTECT AS REQUIRED.



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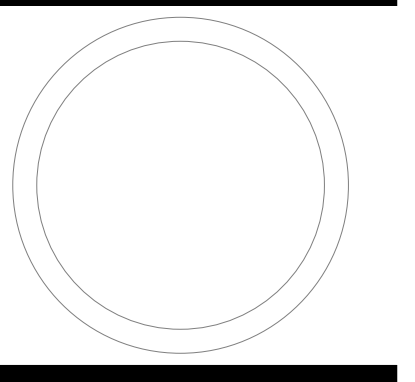
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**INTERIOR ELEVATIONS**

WORK ORDER & SHEET NO.

**M9243  
A4.3**



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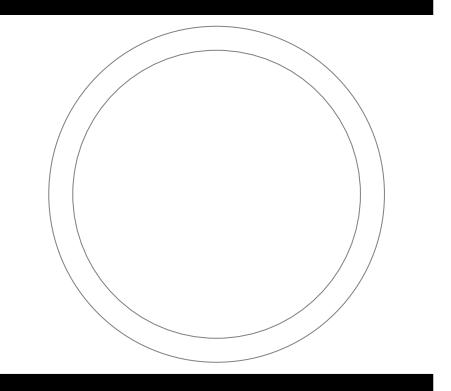
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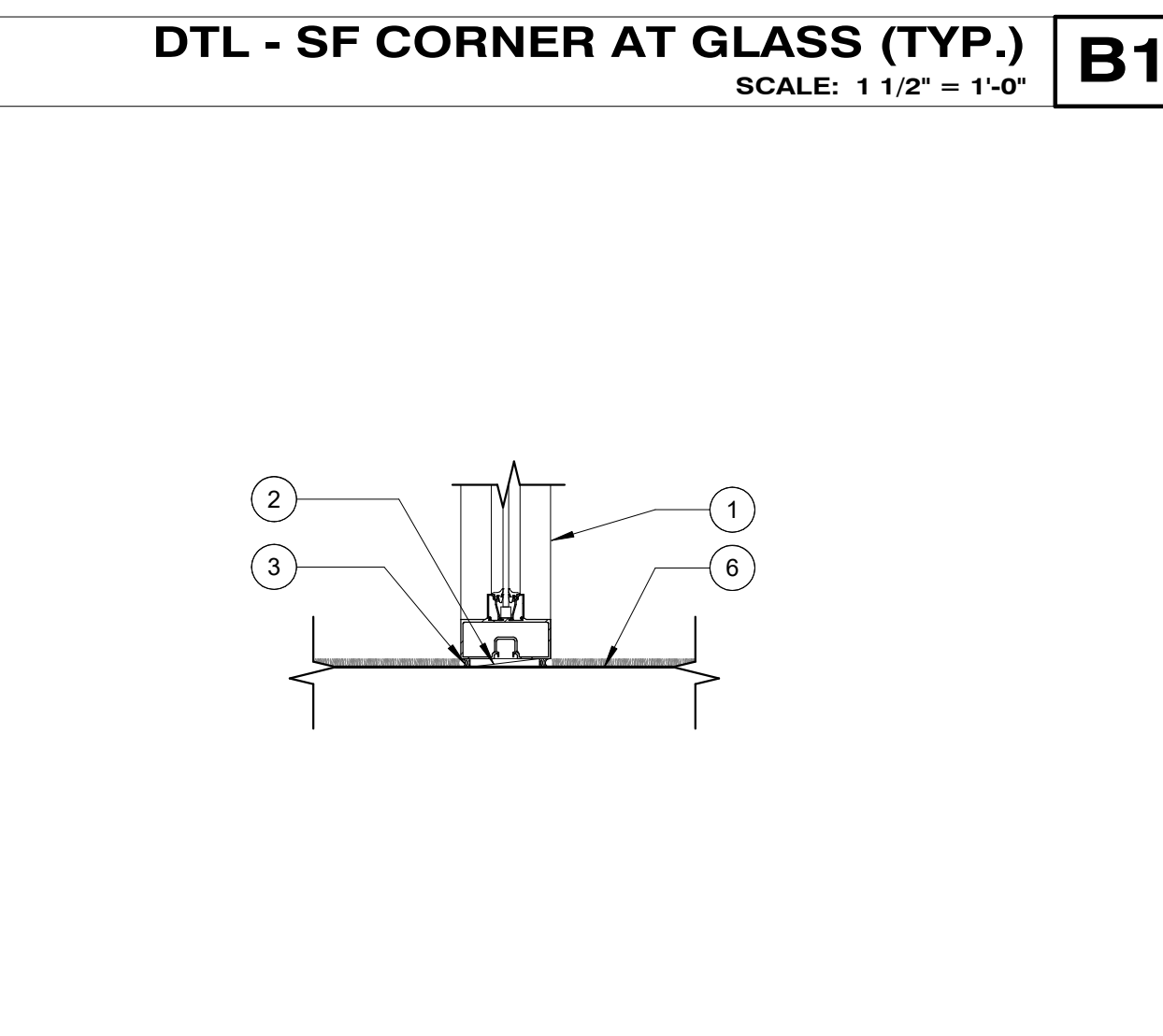
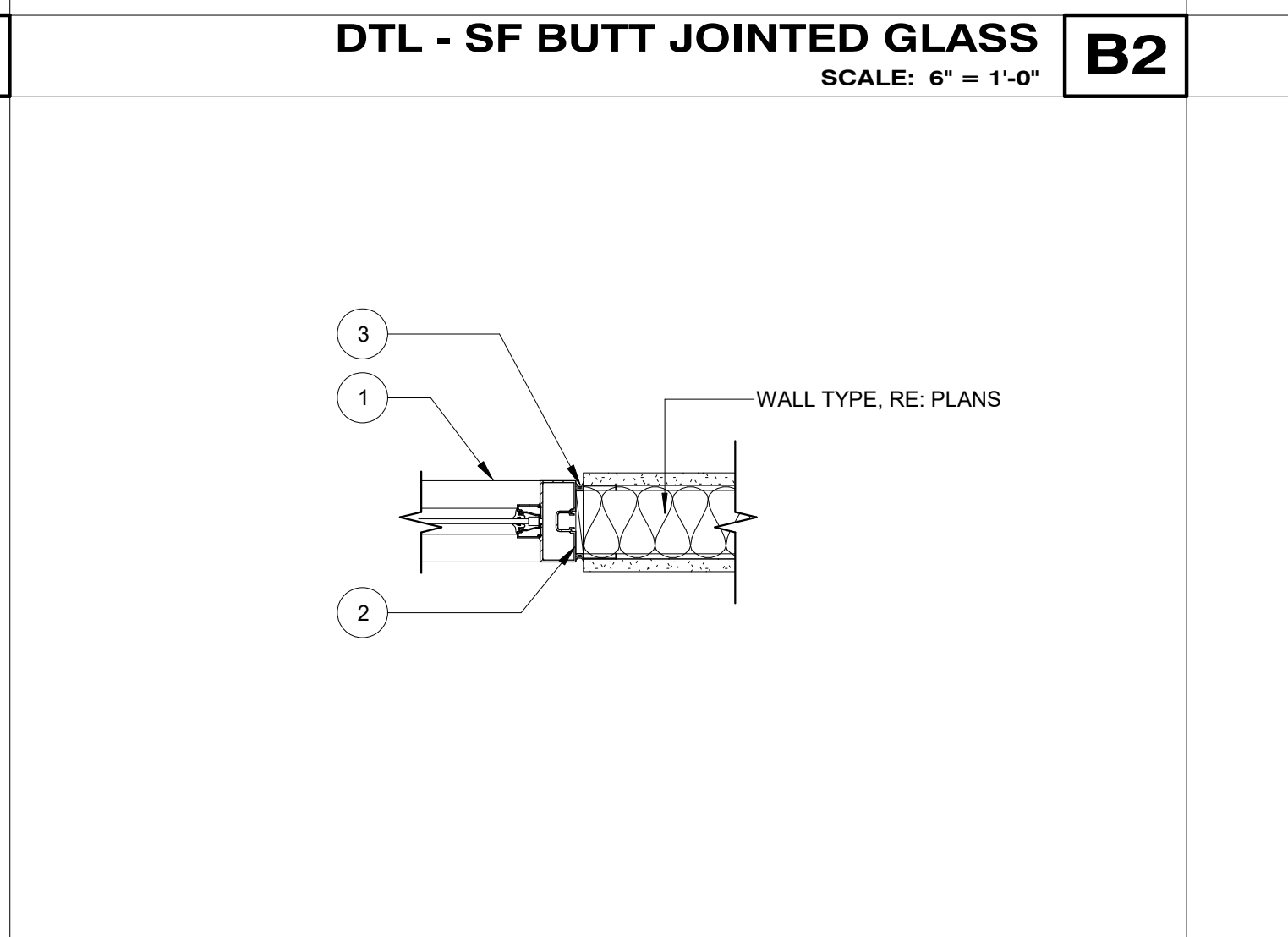
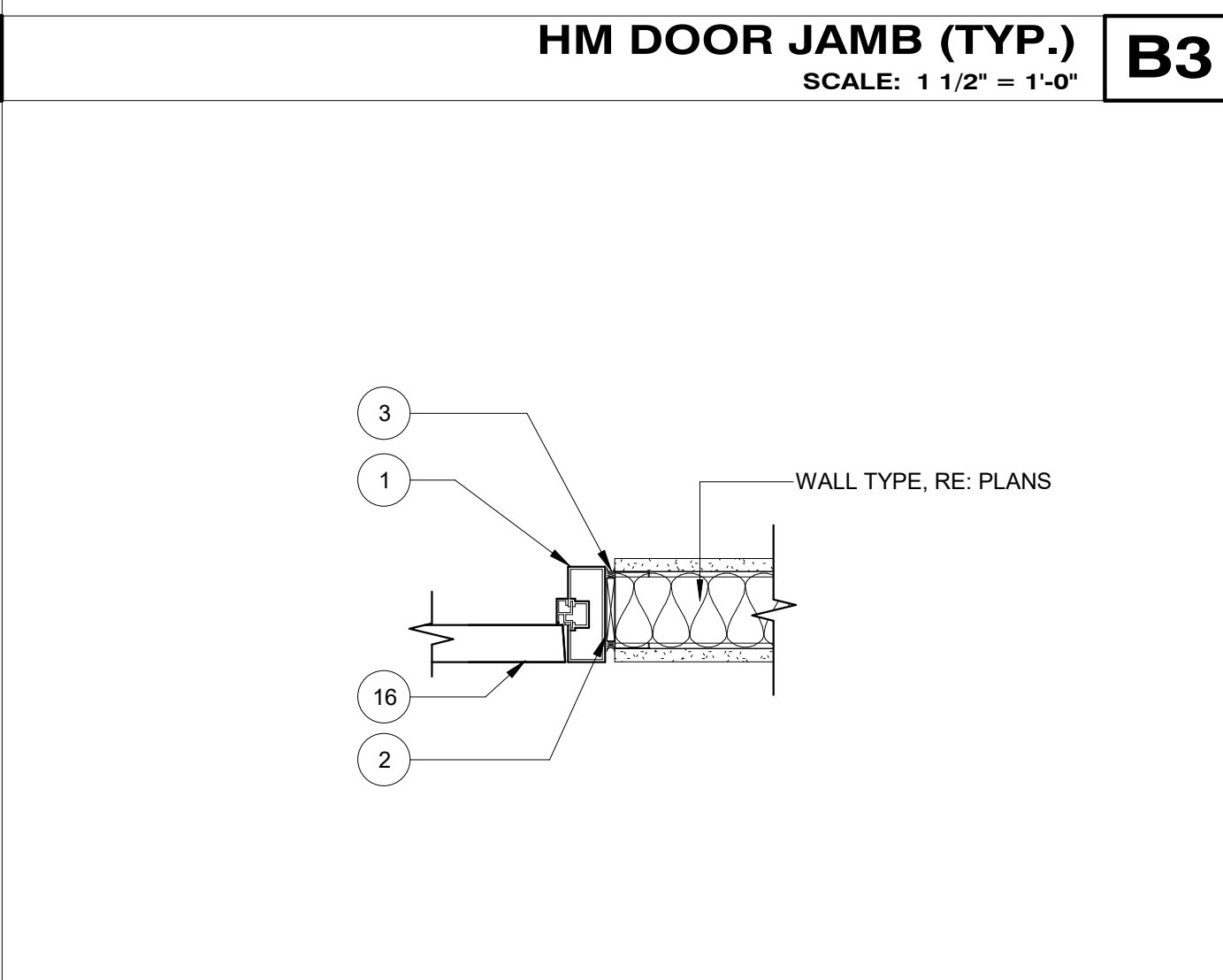
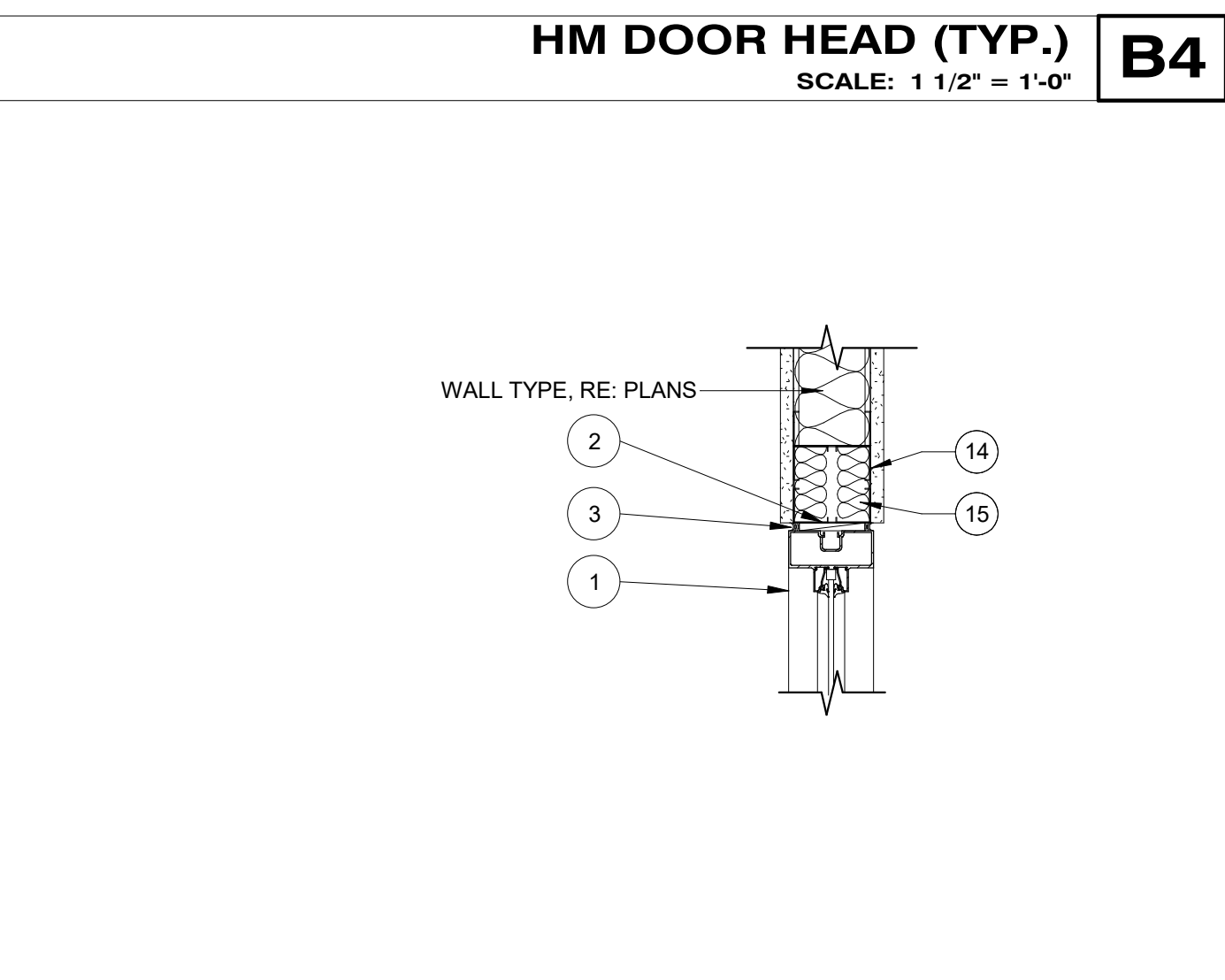
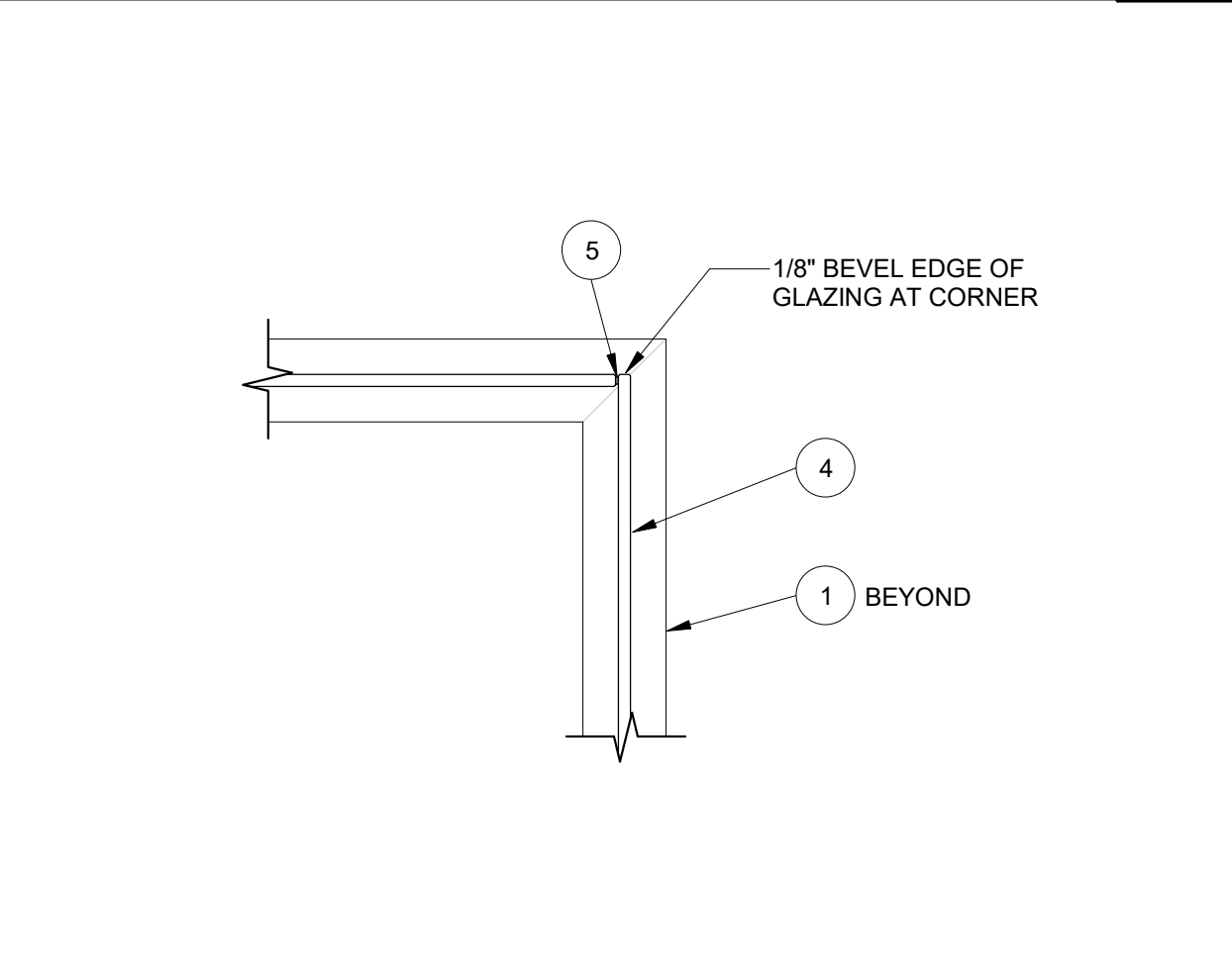
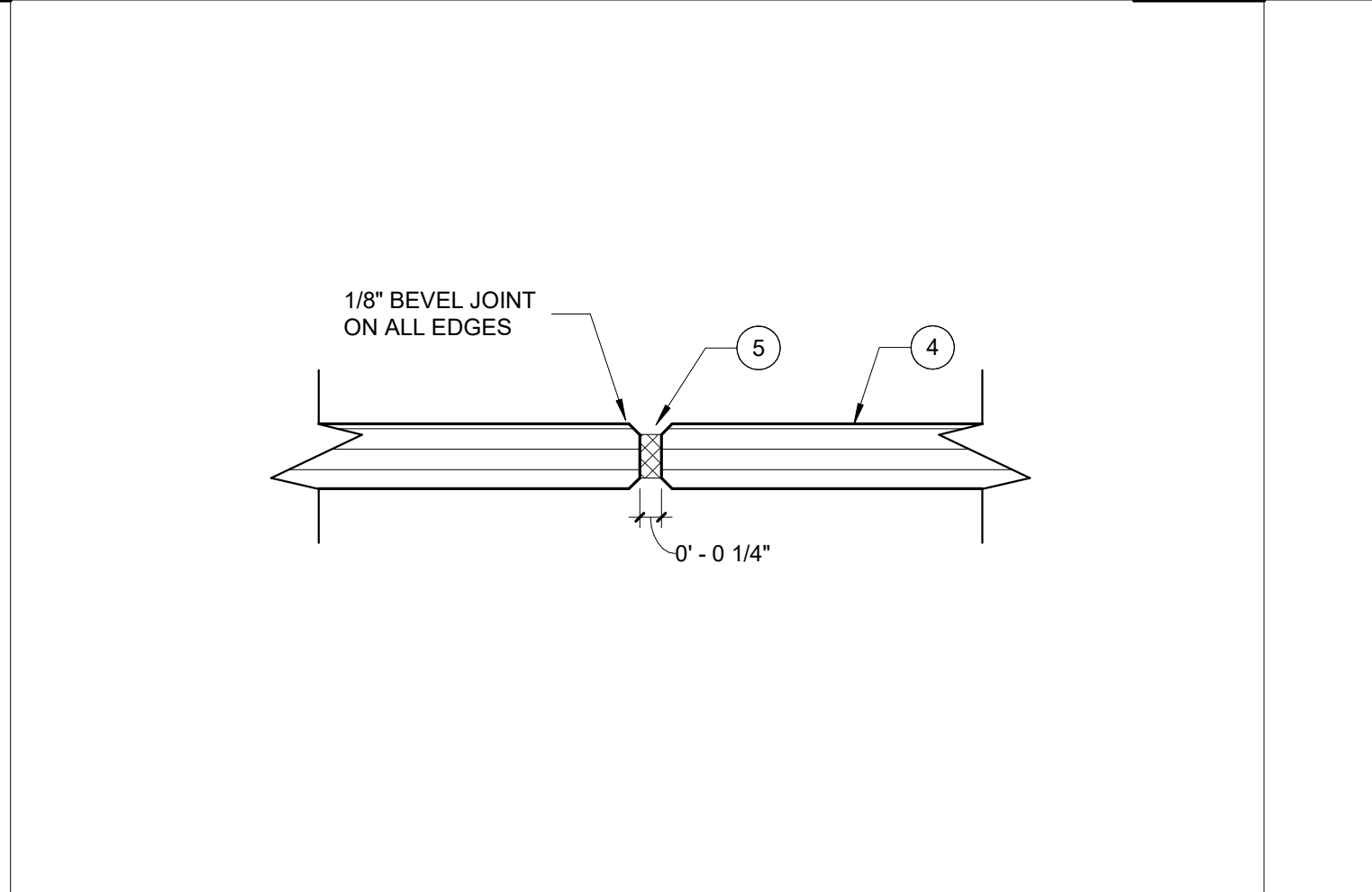
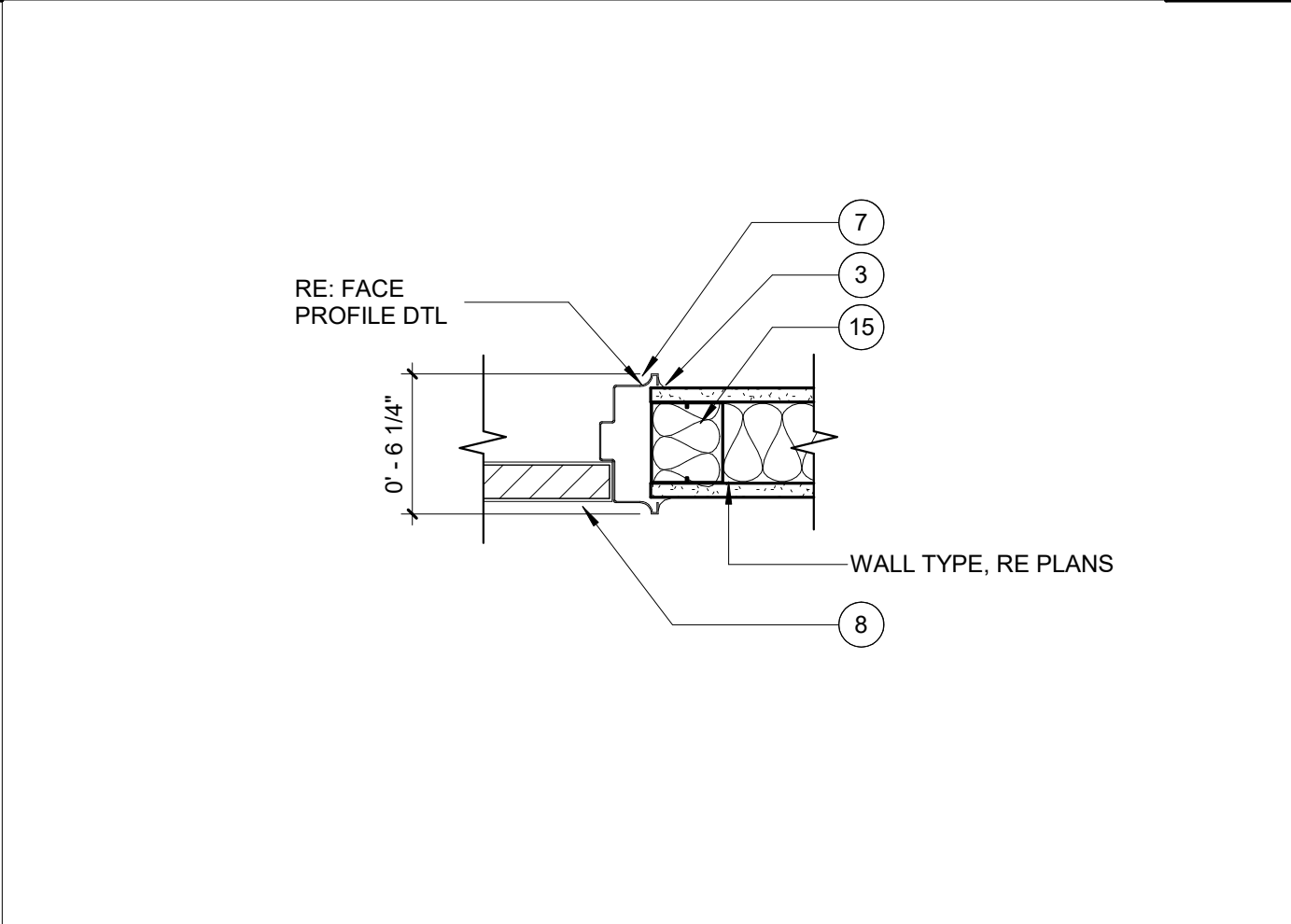
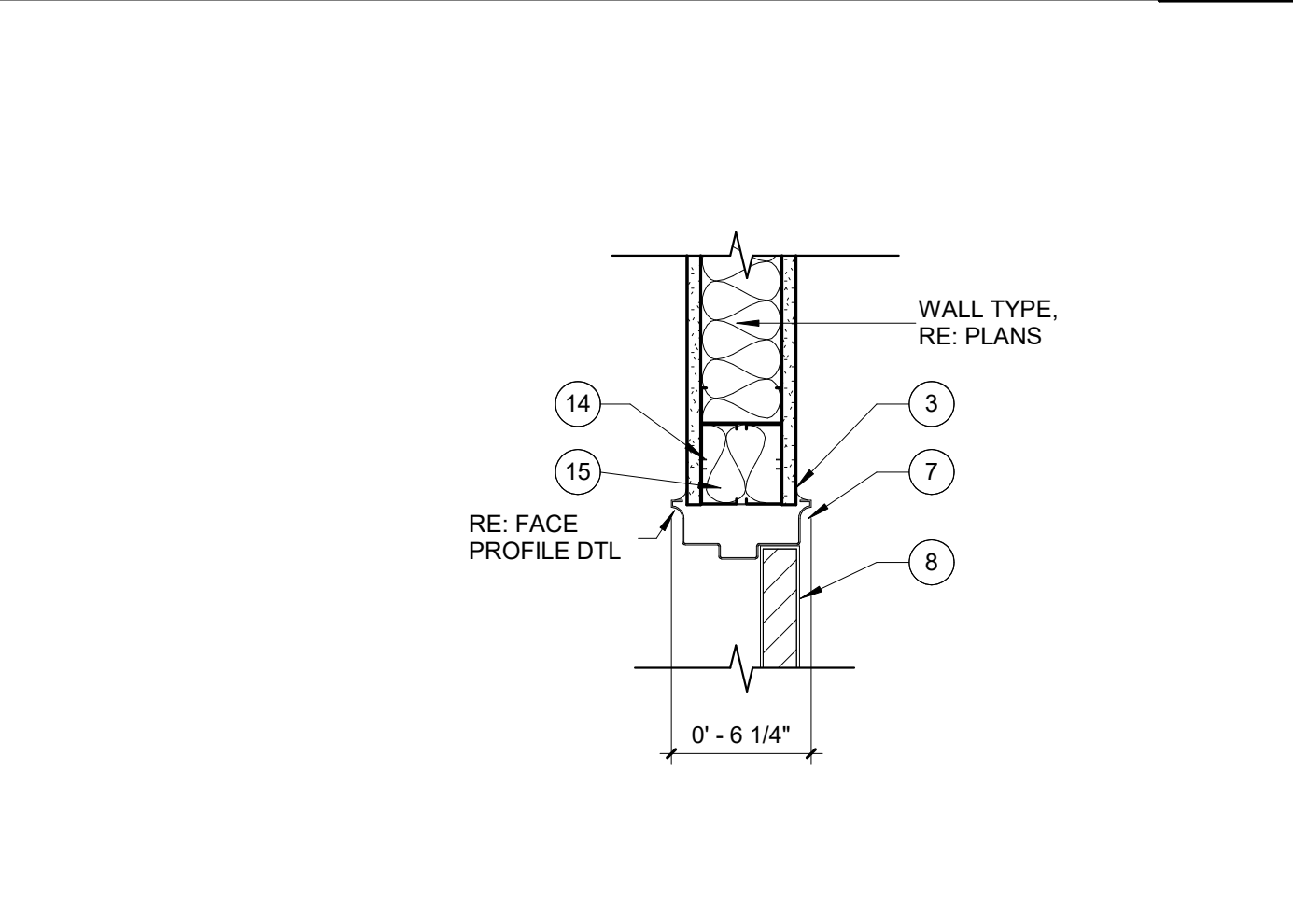
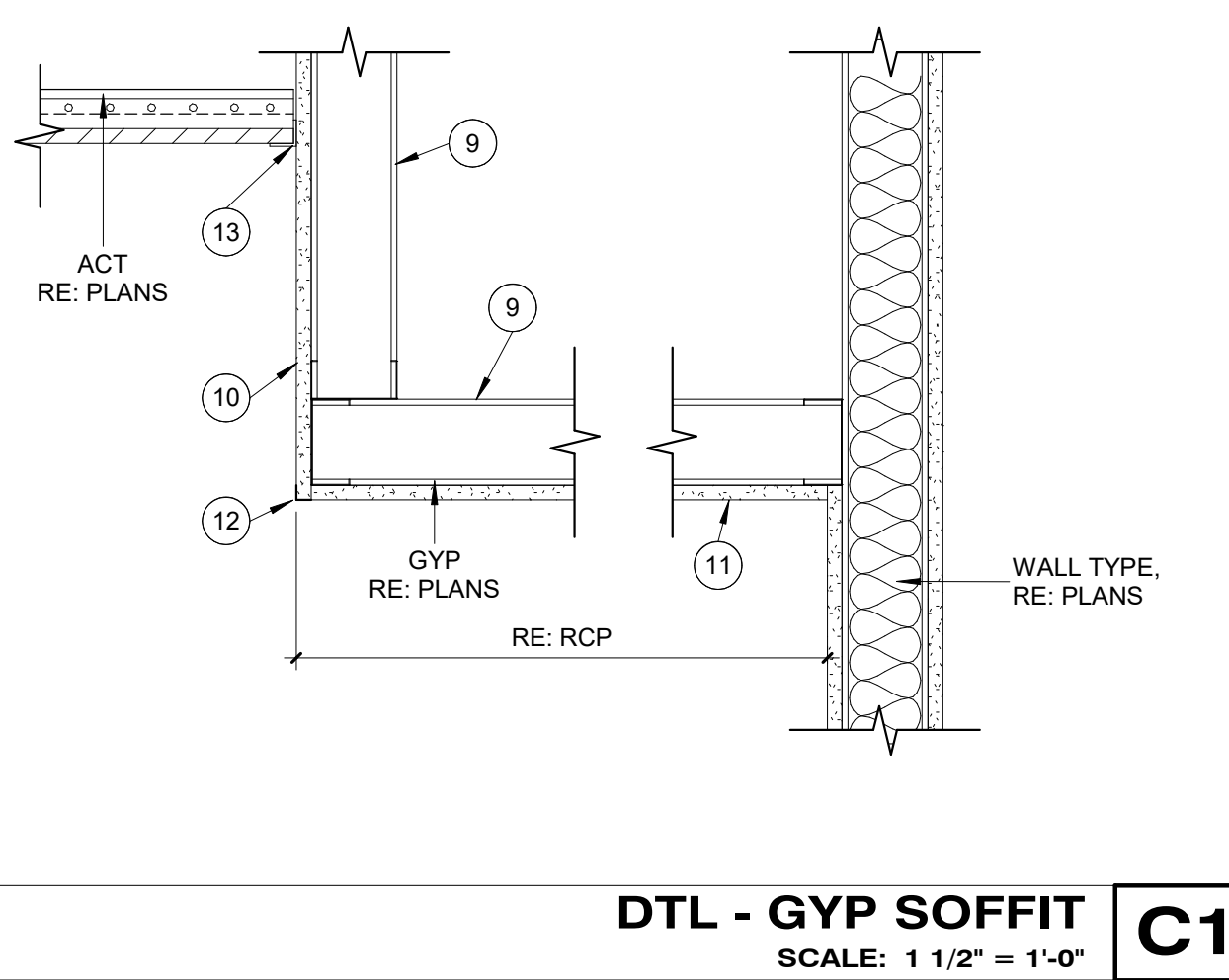
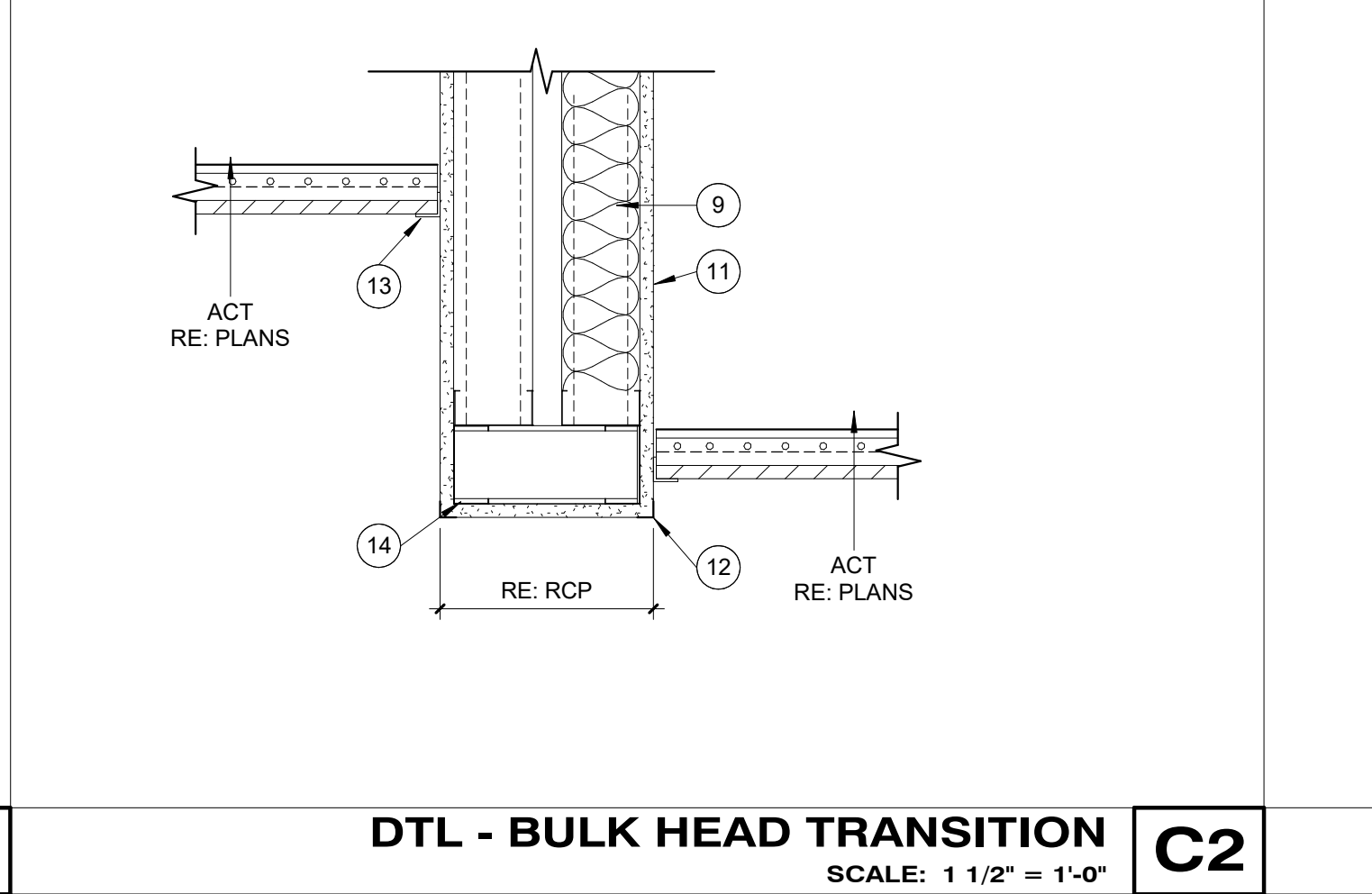
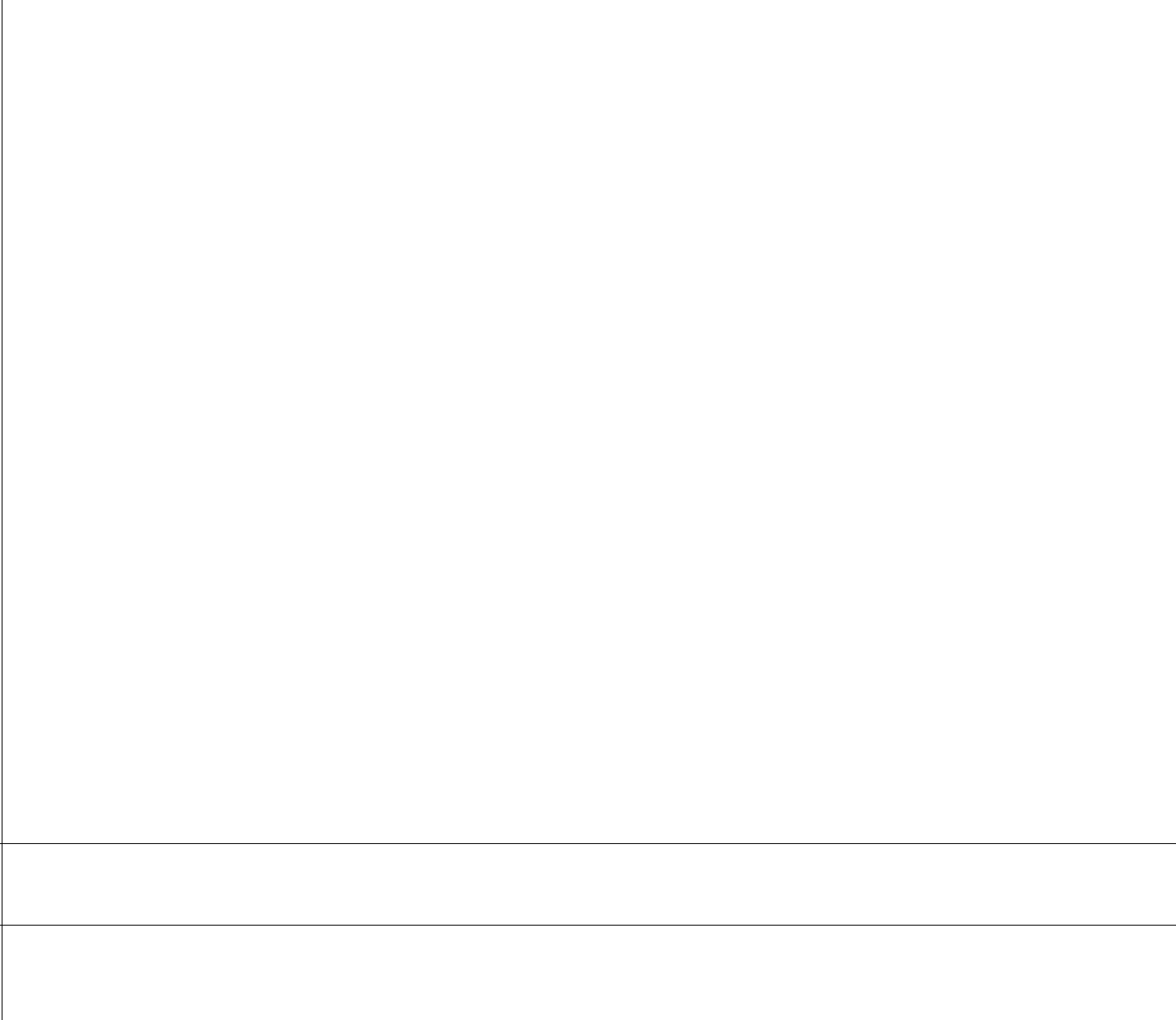
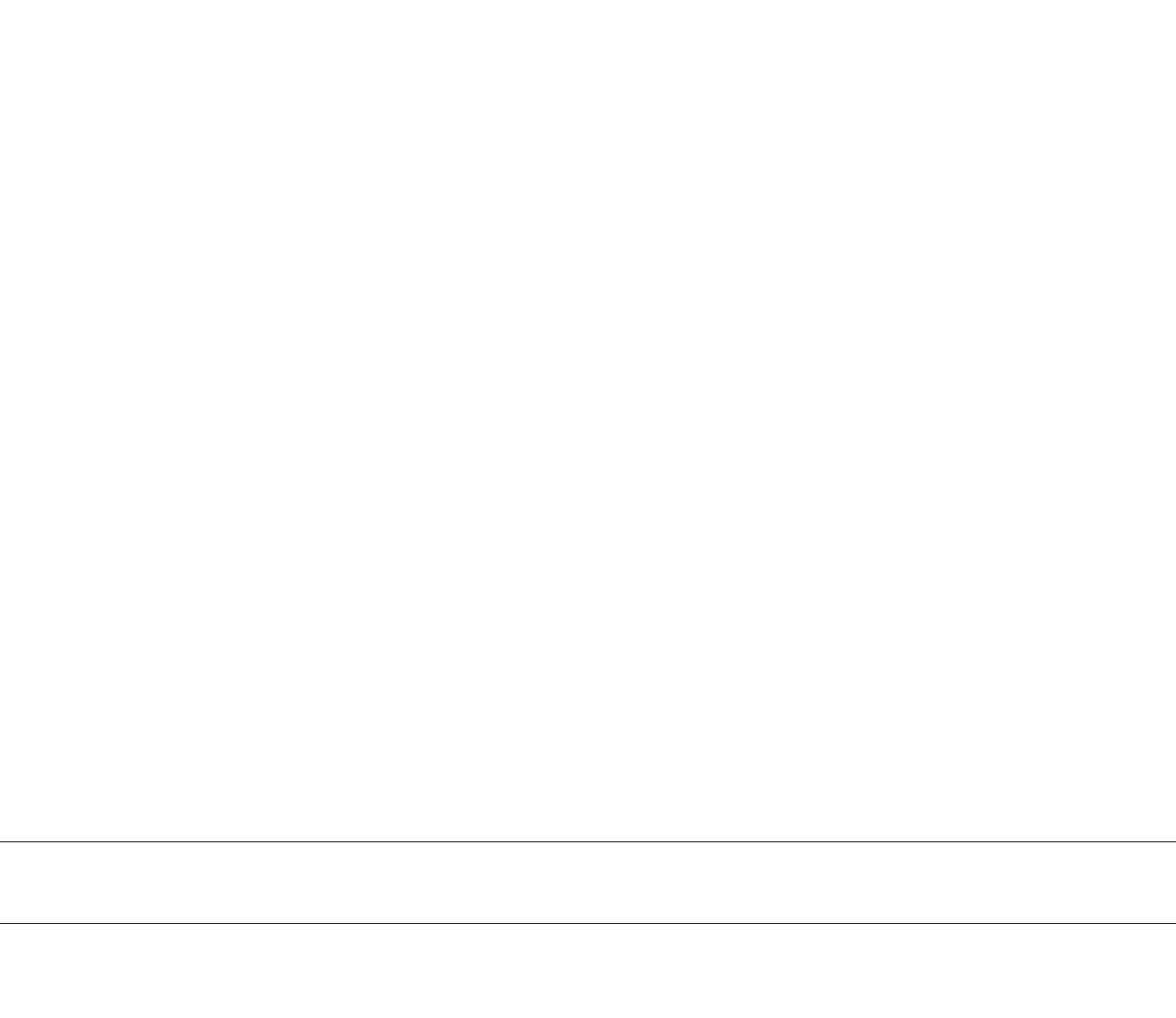
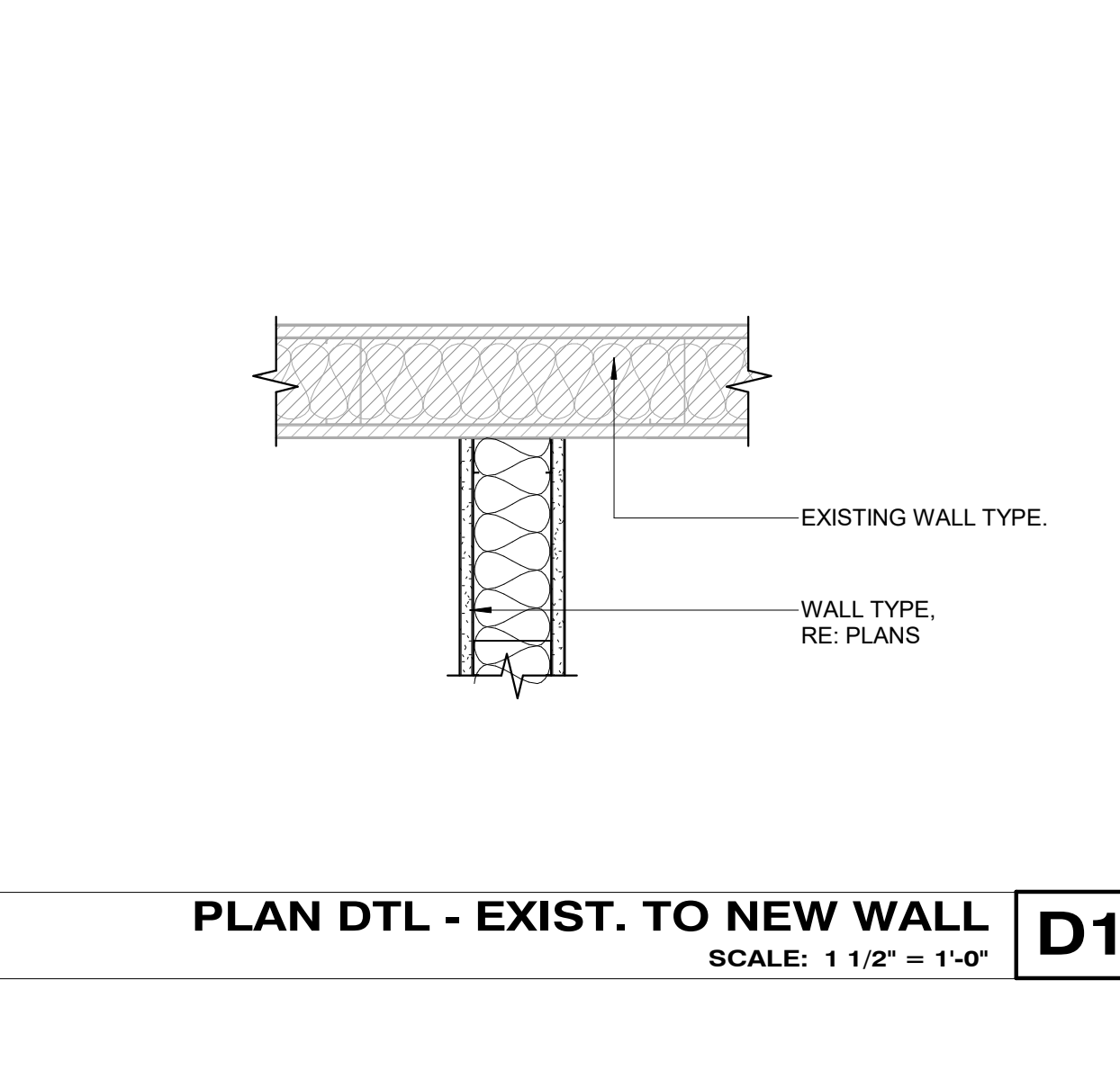
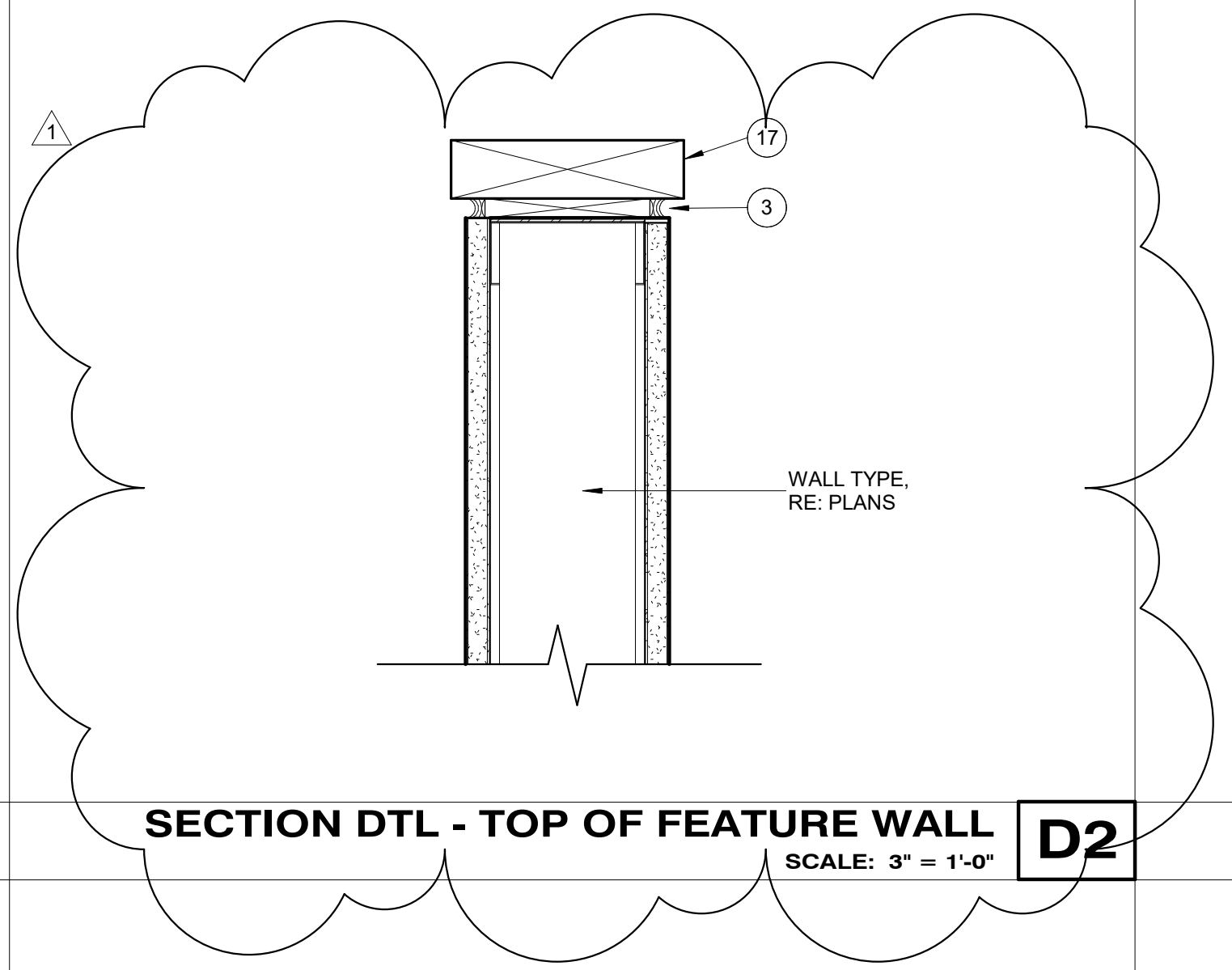
DETAILS

WORK ORDER & SHEET NO.

**M9243**  
**A5.1**

**REFERENCE NOTES**

- 1 ALUMINUM FRAMED STOREFRONT SYSTEM, RE: SPECS.
- 2 SHIM AS REQUIRED.
- 3 SEALANT, EACH SIDE.
- 4 GLAZING, TYPE AS INDICATED, RE: SPECS.
- 5 SILICONE SEALANT - CLEAR.
- 6 GENERAL CONTRACTOR TO PREP FLOOR FOR NEW FLOORING INSTALLATION, BYU TO PROVIDE AND INSTALL NEW HC BUILDING STANDARD CARPET TILES THROUGHOUT SPACE, RE: RESPONSIBILITY MATRIX.
- 7 HM DOOR FRAME, RE: DOOR SCHEDULE.
- 8 HM DOOR SLAB, RE: DOOR SCHEDULE.
- 9 LIGHT GAUGE METAL FRAMING/STUD, STUD SIZE TO BE 4" U.N.O. BRACE TOP OF WALL BACK TO STRUCTURE AS REQUIRED, WHERE A NEW WALL ATTACHES TO AN EXISTING WALL STUD SIZE TO MATCH EXISTING SO FACES OF WALLS ALIGN.
- 10 5/8" TYPE 'X' GYPSUM WALL BOARD, EXTEND A MINIMUM OF 18" ABOVE FINISHED CEILING U.N.O.
- 11 SINGLE LAYER 5/8" TYPE 'X' GYPSUM WALL/CEILING BOARD.
- 12 GYPSUM CORNER BEAD.
- 13 ACT CEILING GRID - PERIMETER TRIM.
- 14 BOX HEADER, AS REQUIRED.
- 15 ACOUSTIC SOUND BATT INSULATION, AT OFFICE CONDITION, RE: PLANS AND WALL TYPES.
- 16 FLUSH WOOD DOOR, RE: SCHEDULE.
- 17 (N.I.C.) 1X HARD WOOD CAP INSTALLED AND FASTENED TO TOP OF WALL BY BYU.



**DTL - SF HEAD (TYP.) A4**  
 SCALE: 1 1/2" = 1'-0"

**DTL - SF JAMB AT DOOR (TYP.) A3**  
 SCALE: 1 1/2" = 1'-0"

**DTL - SF JAMB AT WALL (TYP.) A2**  
 SCALE: 1 1/2" = 1'-0"

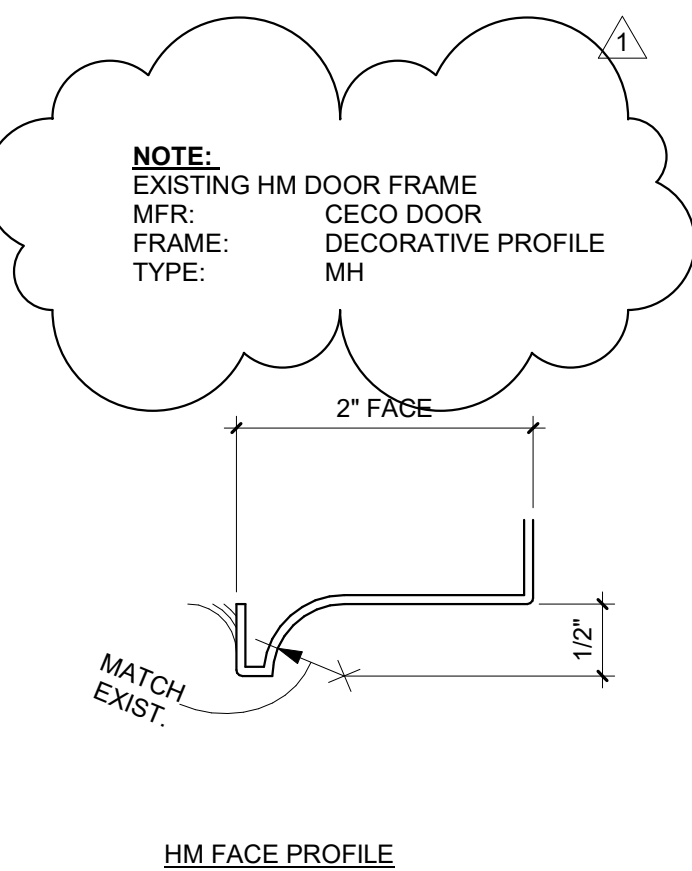
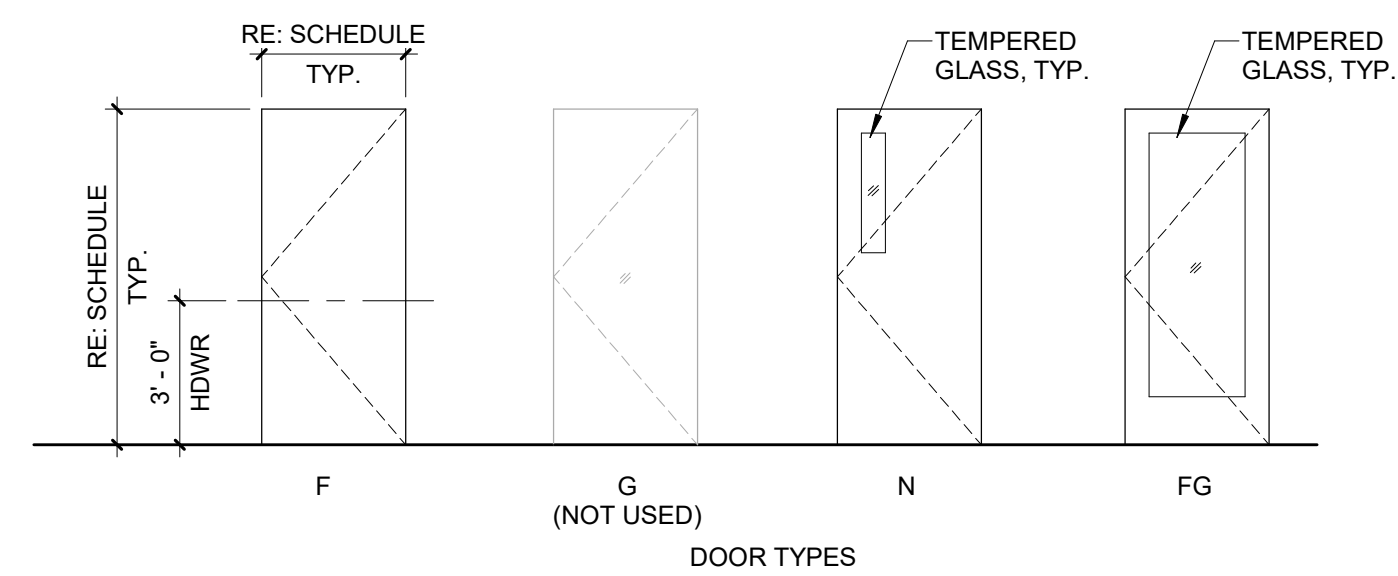
**DTL - SF SILL (TYP.) A1**  
 SCALE: 1 1/2" = 1'-0"

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M9243 DOOR SCHEDULE													
MARK	DOOR			FRAME				HEAD DTL	JAMB DTL	HDWR FUNCTION	SET #	Comments	
	W	HT	T	MATL	EL	MATL	EL						
329B-EX	3'-0"	7'-0"	1 3/4"	WD	FG	HM	4	-	-	EXIST.	-	EXISTING DOOR, NEW HARDWARE - PROTECT FROM DAMAGE	
337-EX	3'-0"	7'-0"	1 3/4"	WD	F	HM	1	-	-	EXIST.	-	EXISTING DOOR, NIC - PROTECT FROM DAMAGE	
340-EX	3'-6"	7'-0"	1 3/4"	WD	FG	HM	3	-	-	EXIST.	-	EXISTING DOOR, NIC - PROTECT FROM DAMAGE	
342-01	3'-0"	7'-0"	1 3/4"	WD	F	AL	A	C3/A1.9	A3/A1.9	OFFICE	-		
342-02	3'-0"	7'-0"	1 3/4"	WD	F	AL	A	C3/A1.9	A3/A1.9	OFFICE	-		
342-03	3'-0"	7'-0"	1 3/4"	WD	F	AL	A	C3/A1.9	A3/A1.9	OFFICE	-		
342-04	3'-0"	7'-0"	1 3/4"	WD	F	AL	A	C3/A1.9	A3/A1.9	OFFICE	-		
342-05	3'-0"	7'-0"	1 3/4"	WD	F	AL	B	C3/A1.9	A3/A1.9	OFFICE	-		
342-06	3'-0"	7'-0"	1 3/4"	WD	F	AL	B	C3/A1.9	A3/A1.9	OFFICE	-		
342-07	3'-0"	7'-0"	1 3/4"	WD	F	AL	C	C3/A1.9	A3/A1.9	OFFICE	-		
342-08	3'-0"	7'-0"	1 3/4"	WD	F	AL	C	C3/A1.9	A3/A1.9	OFFICE	-		
342-09	3'-0"	7'-0"	1 3/4"	WD	F	AL	B	C3/A1.9	A3/A1.9	OFFICE	-		
342-10	3'-0"	7'-0"	1 3/4"	WD	F	AL	B	C3/A1.9	A3/A1.9	OFFICE	-		
342-11	3'-0"	7'-0"	1 3/4"	WD	FG	AL	E	C3/A1.9	A3/A1.9	OFFICE	-		
344-EX	3'-0"	7'-0"	1 3/4"	WD	F	HM	1	-	-	EXIST.	-	EXISTING DOOR, NIC - PROTECT FROM DAMAGE	
384A	3'-0"	7'-0"	1 3/4"	WD	FG	HM	4	B4/A5.1	B3/A5.1	PASSAGE	-	REUSE EXISTING DOOR FRAME, NEW DOOR SLAB & HARDWARE - PROTECT FROM DAMAGE	
384B	3'-0"	7'-0"	1 3/4"	WD	FG	HM	4	B4/A5.1	B3/A5.1	PASSAGE	-		
386	3'-0"	7'-0"	1 3/4"	WD	FG	AL	E	C3/A1.9	A3/A1.9	OFFICE	-		
388-EX	3'-0"	7'-0"	1 3/4"	WD	F	HM	1	-	-	EXIST.	-	EXISTING DOOR, NIC - PROTECT FROM DAMAGE	
390	3'-0"	7'-0"	1 3/4"	WD	F	AL	D	C3/A1.9	A3/A1.9	OFFICE	-		
392	3'-0"	7'-0"	1 3/4"	WD	F	AL	D	C3/A1.9	A3/A1.9	OFFICE	-		

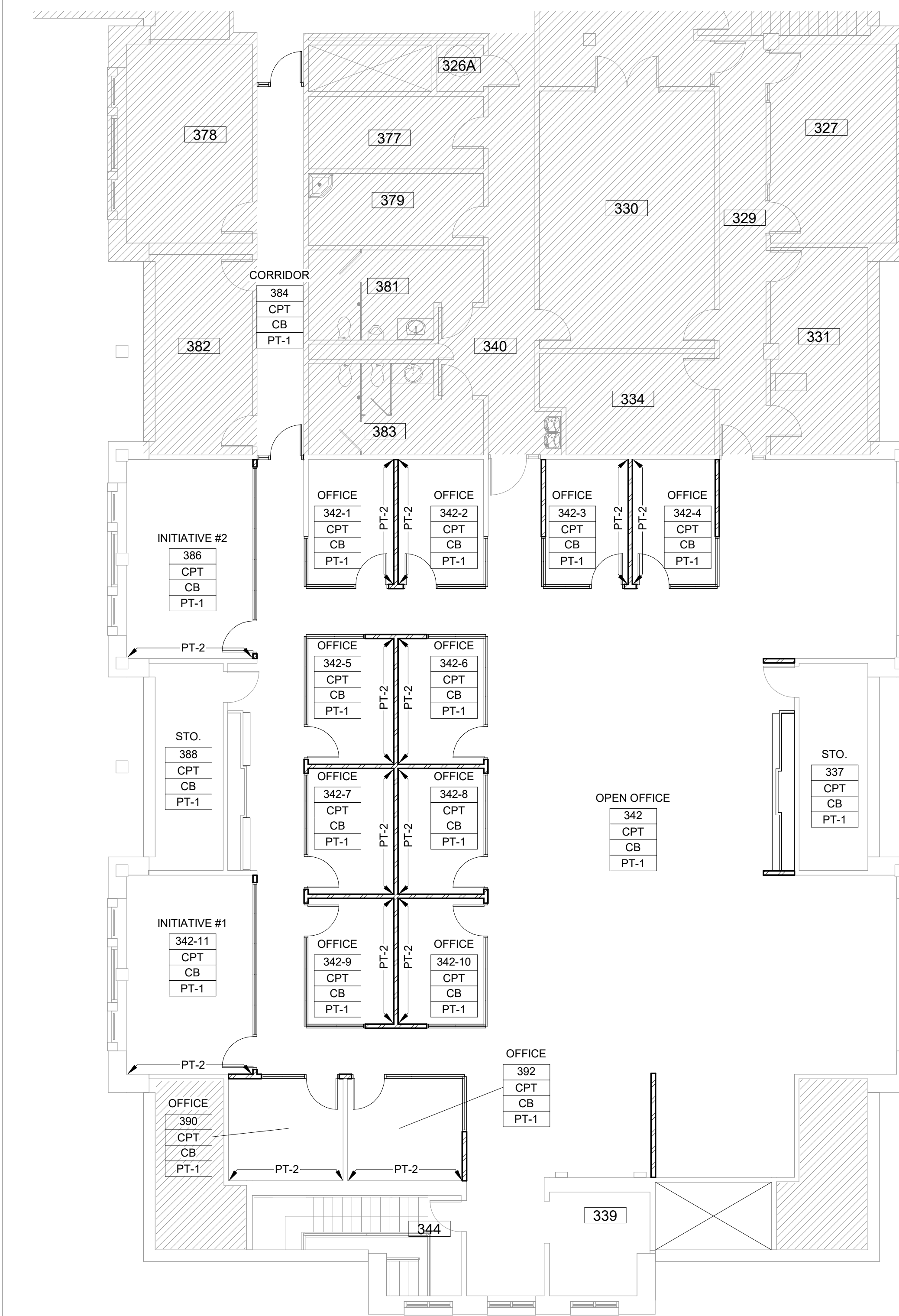
**DOOR MATERIALS & TYPES**

- AL ALUMINUM FRAMED STOREFRONT
- GL GLASS (TEMPERED)
- HM HOLLOW METAL
- WD WOOD - MATCH BUILDING STANDARD
- F FLUSH
- N NARROW LITE (TEMPERED GLASS)
- FG FULL GLAZED



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

ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	HEIGHT (A.F.F.)	COMMENTS
				NORTH	EAST	SOUTH	WEST			
337	STO.	CPT	CB	PT-1	PT-1	PT-1	PT-1	ACT	10'-6"	VAULTED CEILING
342	OPEN OFFICE	CPT	CB	PT-1	PT-1	PT-1	PT-1	EX - GYP	VARIES	RE: RCP FOR GYP SOFFIT PORTIONS AND TIE-IN TO EXISTING CEILINGS.
342-1	OFFICE	CPT	CB	PT-1	PT-2	PT-1	PT-1	ACT	10'-6"	
342-2	OFFICE	CPT	CB	PT-1	PT-1	PT-1	PT-2	ACT	10'-6"	
342-3	OFFICE	CPT	CB	PT-1	PT-2	PT-1	PT-1	ACT	10'-6"	
342-4	OFFICE	CPT	CB	PT-1	PT-1	PT-1	PT-2	ACT	10'-6"	
342-5	OFFICE	CPT	CB	PT-1	PT-2	PT-1	PT-1	ACT	10'-6"	
342-6	OFFICE	CPT	CB	PT-1	PT-1	PT-1	PT-2	ACT	10'-6"	
342-7	OFFICE	CPT	CB	PT-1	PT-2	PT-1	PT-1	ACT	10'-6"	
342-8	OFFICE	CPT	CB	PT-1	PT-1	PT-1	PT-2	ACT	10'-6"	
342-9	OFFICE	CPT	CB	PT-1	PT-2	PT-1	PT-1	ACT	10'-6"	
342-10	OFFICE	CPT	CB	PT-1	PT-1	PT-1	PT-2	ACT	10'-6"	
342-11	INITIATIVE #1	CPT	CB	PT-1	PT-1	PT-1	PT-2	EX - GYP	ACT	VAULTED CEILING
384	CORRIDOR	CPT	CB	PT-1	PT-1	PT-1	PT-1			
386	INITIATIVE #2	CPT	CB	PT-1	PT-1	PT-2	PT-1	EX - GYP	ACT	VAULTED CEILING
388	STO.	CPT	CB	PT-1	PT-1	PT-1	PT-1	EX - GYP	ACT	VAULTED CEILING
390	OFFICE	CPT	CB	PT-1	PT-1	PT-2	PT-1	ACT	10'-0"	
392	OFFICE	CPT	CB	PT-1	PT-1	PT-2	PT-1	ACT	10'-0"	



**FINISH FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**MATERIAL FINISH LEGEND:**

- ALUMINUM FRAMED STOREFRONT SYSTEM:**  
AL: ALUMINUM - BLACK ANODIZED FINISH
- CEILING TILE & GRID**  
ACT: ACOUSTIC CEILING TILE, BUILDING STANDARD  
MANUF.: ARMSTRONG  
PRODUCT: CIRRUS (VERIFY EXISTING)  
SIZE: 24" x 24"  
EDGE: BEVELED TEGULAR (9/16)  
COLOR: WHITE  
GRID: SILHOUETTE XL 9/16" BOLT SLOT  
REVEAL: 1/4" (VERIFY EXISTING)
- FILM (GLAZING)**  
F-1: GLAZING FILM (LOCATIONS, RE: WINDOW ELEVATIONS)  
MANUF.: 3M  
PRODUCT: FASARA GLASS FINISHES  
GEOMETRIC GRID (SH2FGGD)  
PATTERN: STOCK NO.: 7100126668  
SIZE: 50" WIDE (INSTALL HORIZONTAL)
- FLOORING (NIC)**  
CPT-1: CARPET TILE, BUILDING STANDARD  
MANUF.: MANNINGTON  
PRODUCT: ALIGN  
COLOR: RADIAN  
SIZE: 2' x 2'
- GLAZING**  
G-1: LAMINATED GLASS - ALL INTERIOR GLAZING U.N.O  
MANUF.: CARDINAL GLASS INDUSTRIES  
THICKNESS: 1/2" OVERALL  
STC: 36  
G-2: TEMPERED SAFETY GLASS - GLAZED LITES IN DOORS  
MANUF.: CARDINAL GLASS INDUSTRIES  
THICKNESS: 1/4" OVERALL
- PAINT**  
PT-1: STANDARD (FIELD): SW 6105 DIVINE WHITE  
PT-2: ACCENT: SW 6223 STILL WATER
- SOLID SURFACE (NIC)**  
SS-1: SOLID SURFACE COUNTERTOP  
MANUF.: STARON  
PRODUCT: WS287  
COLOR: QUARRY STARRED
- WALL BASE (NIC)**  
CB-1: CARPET WALL BASE  
MANUF.: MANNINGTON  
PRODUCT: ALIGN  
COLOR: RADIAN  
HEIGHT: 4"
- WOOD VENEER**  
WV-1: WOOD VENEER FINISH (DOORS AND CASEWORK)  
SPECIES: CHEERY (MATCH EXISTING)



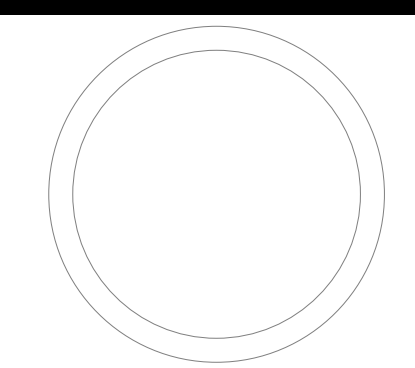
**FACILITIES PLANNING**  
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DATE: 01.31.2025  
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UTILITIES DIR:  
PLANNING DIR:

CLIENT APPROVAL DATE

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**DOOR AND FINISH SCHEDULE**

WORK ORDER & SHEET NO.

**M9243 A6.1**

2

1

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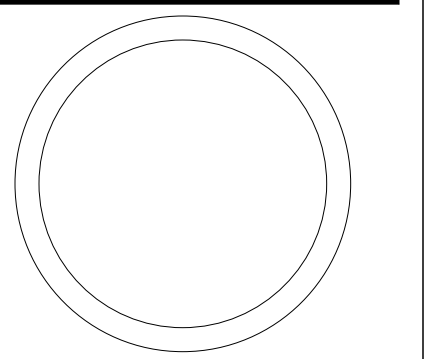
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DRAWN BY: J. JENSEN

ADA CHECK:  
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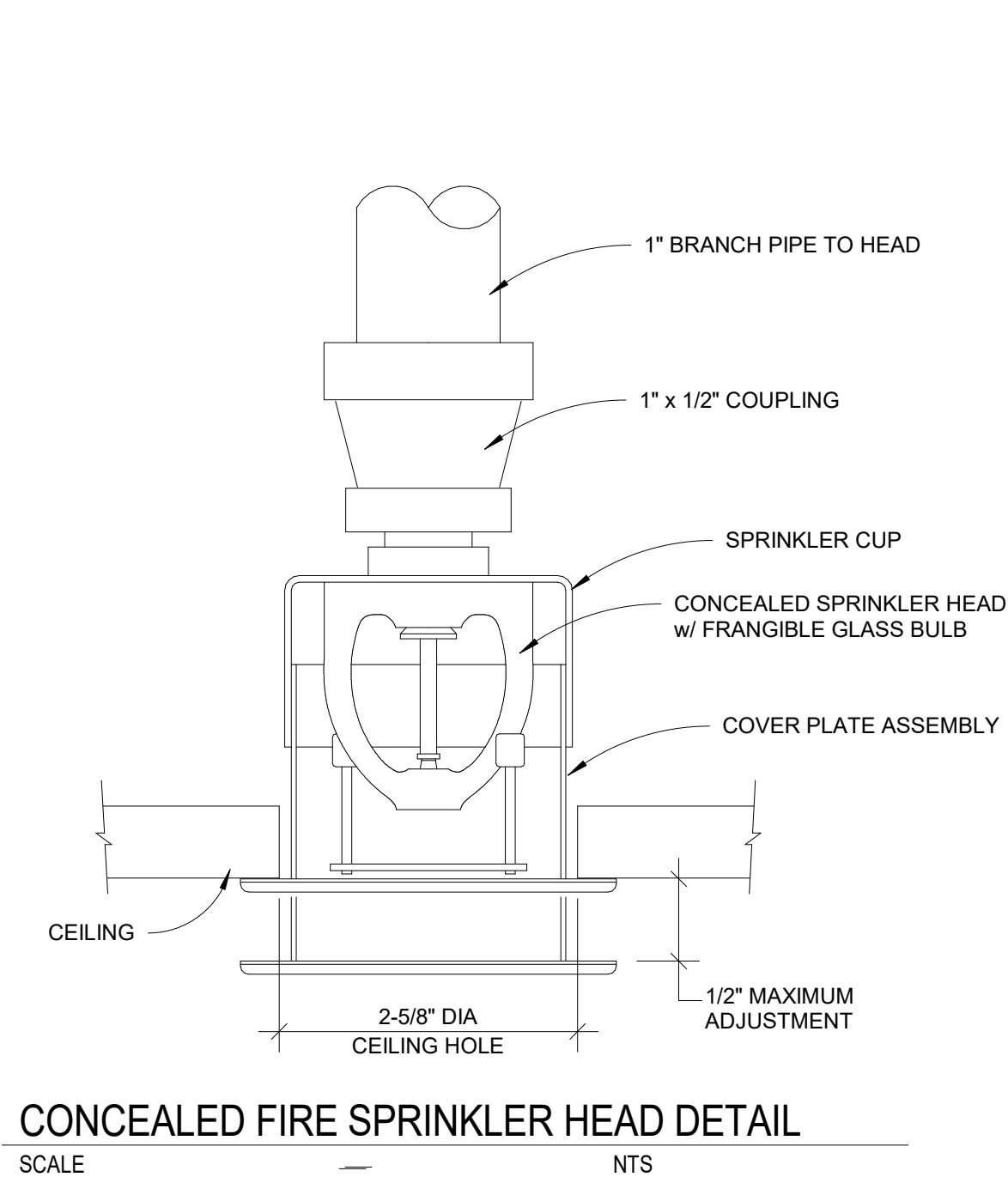


**MECHANICAL LEGEND, SCHEDULES & DETAILS**

WORK ORDER & SHEET NO.

**M9243**  
**M0.1**

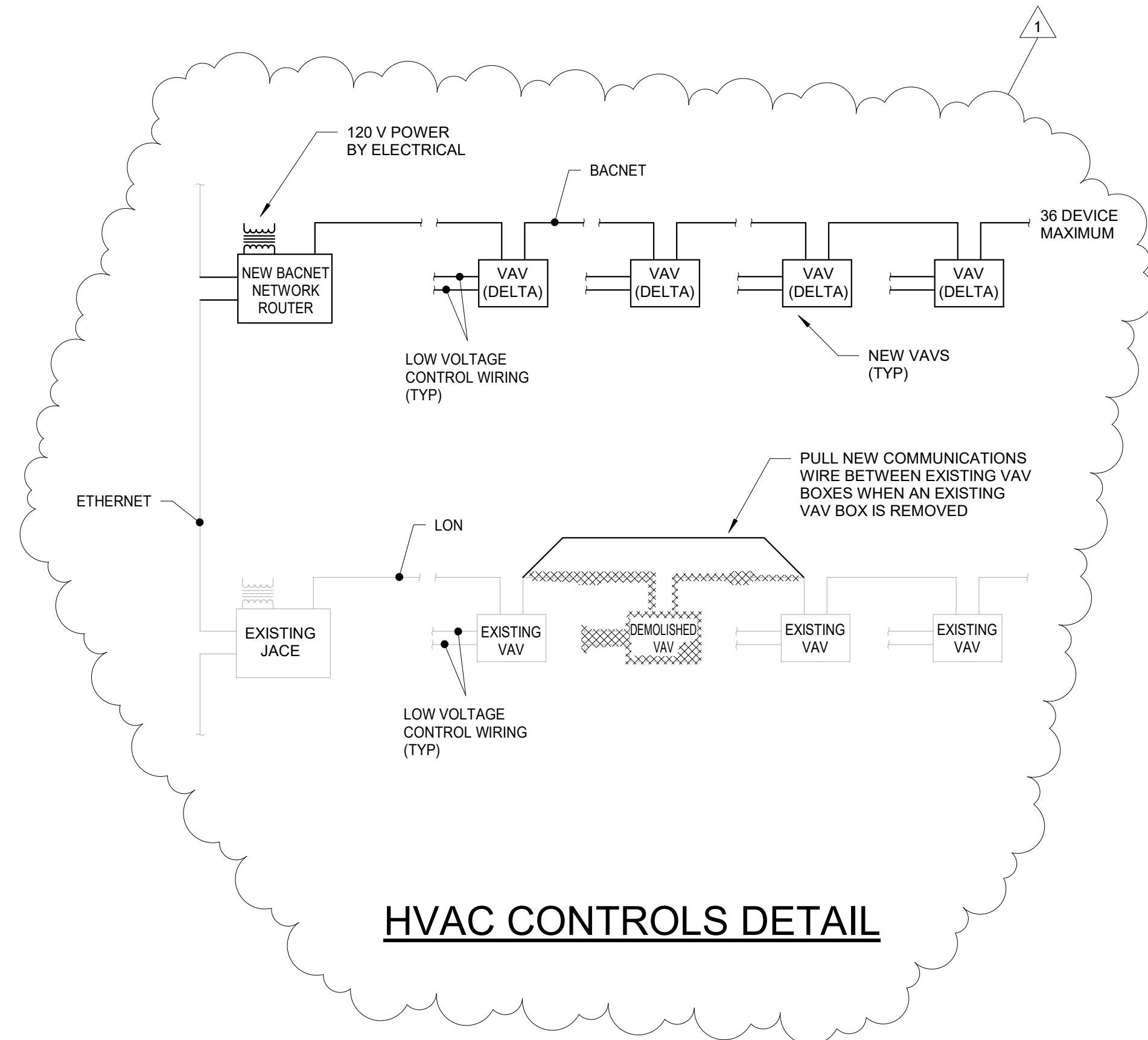
NOT-IN-CONTRACT (NIC) COORDINATION LIST				
ITEM	FURNISHED BY BYU	INSTALLED BY BYU OR BYU VENDOR	INSTALLED BY CONTRACTOR	FURNISHED BY CONTRACTOR
MECHANICAL CONTROLS HARDWARE (BOTH SYSTEM AND TERMINAL UNITS) BY ATKINSON	X		X	
MECHANICAL CONTROLS RACEWAY			X	X
MECHANICAL CONTROLS PROGRAMMING (SOFTWARE - BOTH SYSTEM AND TERMINAL UNITS) BY ATKINSON	X	X		



**CONCEALED FIRE SPRINKLER HEAD DETAIL**

SCALE: NTS

NOTE: CENTER SPRINKLER HEADS IN CENTER OF TILE IF INSTALLED IN LAY-IN CEILING SYSTEM.



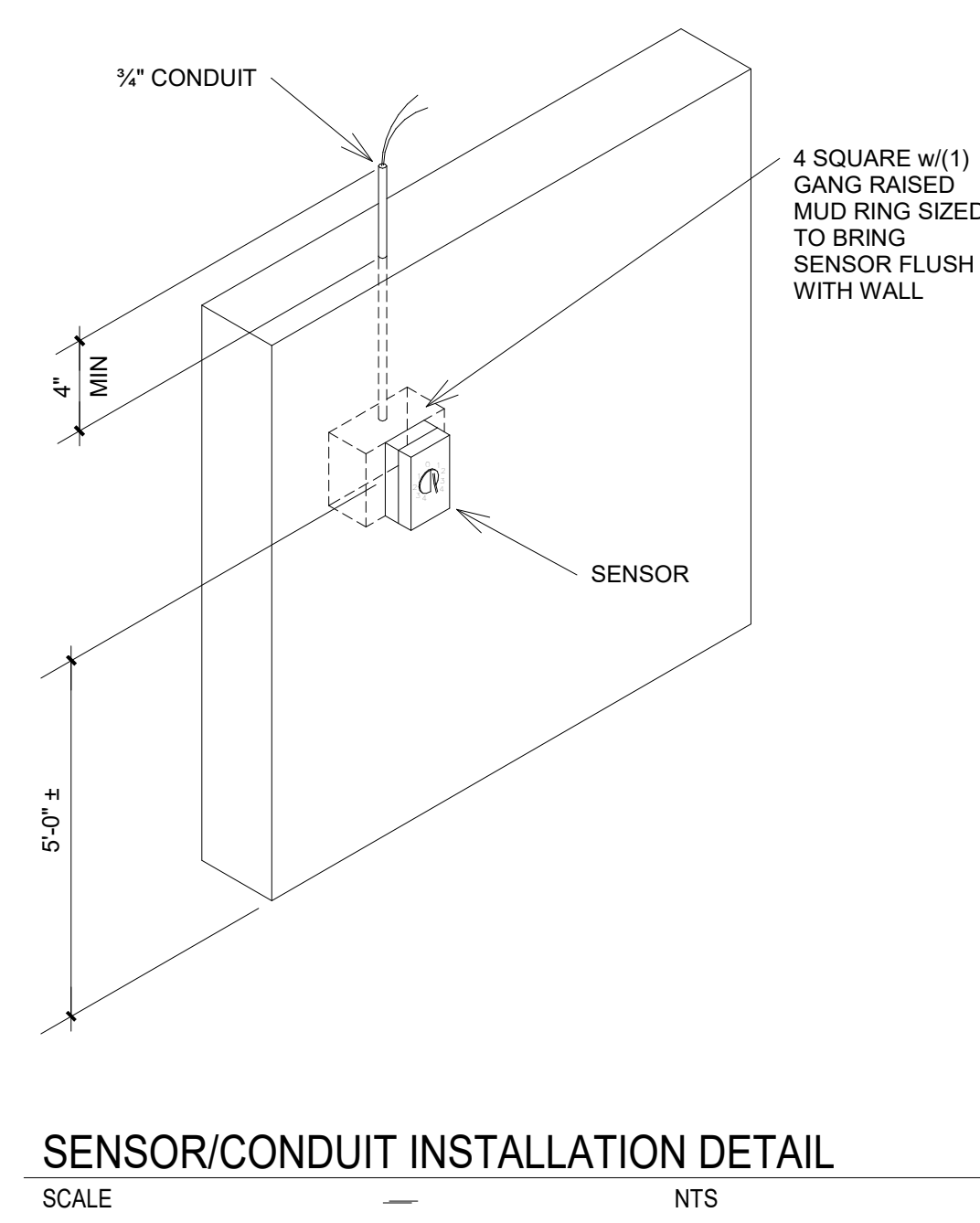
**HVAC CONTROLS DETAIL**

AIR HANDLING SYMBOLS	
SYMBOL	DESCRIPTION
[Symbol]	AIR FLOW DIRECTION
[Symbol]	OPPOSED BLADE DAMPER
[Symbol]	PARALLEL BLADE DAMPER
[Symbol]	SUPPLY DUCT (CROSS SECTION)
[Symbol]	RETURN AIR or EXHAUST (CROSS SECTION)
[Symbol]	DUCT SIZE, INSIDE CLEAR DIMENSION
[Symbol]	DUCT w/ACOUSTIC LINING, INSIDE CLEAR DIMENSION
[Symbol]	DUCT RISE
[Symbol]	DROP or RISE IN SUPPLY DUCT
[Symbol]	SLOT SUPPLY DIFFUSER or REGISTER
[Symbol]	CEILING SUPPLY DIFFUSER or REGISTER
[Symbol]	CEILING RETURN/EXHAUST AIR REGISTER or GRILLE
[Symbol]	SIDEWALL SUPPLY DIFFUSER or REGISTER
[Symbol]	SIDEWALL RETURN/EXHAUST AIR REGISTER or GRILLE
[Symbol]	AIR TURNING VANES
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	FLEXIBLE DUCT
[Symbol]	FIRE DAMPER
[Symbol]	HAND DAMPER
[Symbol]	45° SQUARE to SQUARE TAKE-OFF
[Symbol]	45° SQUARE to ROUND TAKE-OFF
[Symbol]	MITCO TYPE VARIABLE AIR VALVE
[Symbol]	VARIABLE VOLUME AIR VALVE
[Symbol]	PNEUMATIC THERMOSTAT
[Symbol]	STAEFA SENSOR
[Symbol]	DOOR GRILLE
[Symbol]	UNDER CUT DOOR

PIPING LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	DOMESTIC COLD WATER
[Symbol]	DOMESTIC HOT WATER
[Symbol]	DOMESTIC HOT WATER RECIRCULATION
[Symbol]	SOIL or WASTE
[Symbol]	VENT
[Symbol]	GAS
[Symbol]	HWS — HOT WATER SUPPLY
[Symbol]	HWR — HOT WATER RETURN
[Symbol]	ChWS — CHILLED WATER SUPPLY
[Symbol]	ChWR — CHILLED WATER RETURN
[Symbol]	CWS — CONDENSING WATER SUPPLY
[Symbol]	CWR — CONDENSING WATER RETURN
[Symbol]	FP — FIRE PROTECTION
[Symbol]	D — DRAIN
[Symbol]	OX — OXYGEN
[Symbol]	LP — LIQUIFIED PETROLEUM GAS
[Symbol]	NO — NITROUS OXIDE
[Symbol]	A — AIR
[Symbol]	BALL VALVE
[Symbol]	GATE VALVE
[Symbol]	GLOBE VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	CHECK VALVE
[Symbol]	SOLENOID VALVE
[Symbol]	POST INDICATOR VALVE - (PIV)
[Symbol]	ANGLE VALVE
[Symbol]	SAFETY or RELIEF VALVE
[Symbol]	PLUG VALVE
[Symbol]	VALVE IN RISE
[Symbol]	PRESSURE REDUCING VALVE - (PRV)
[Symbol]	2 WAY CONTROL VALVE
[Symbol]	3 WAY CONTROL VALVE
[Symbol]	GAUGE with GAUGE COCK
[Symbol]	GAUGE COCK
[Symbol]	THERMOMETER
[Symbol]	THERMOMETER or GAUGE WELL
[Symbol]	AIR VENT with NEEDLE VALVE
[Symbol]	STRAINER with BLOWDOWN VALVE
[Symbol]	CONCENTRIC REDUCER
[Symbol]	ECCENTRIC REDUCER
[Symbol]	UNION
[Symbol]	PIPE ANCHOR
[Symbol]	PIPE GUIDE
[Symbol]	GROOVED JOINT COUPLING
[Symbol]	NEW CONNECTION
[Symbol]	FLOW CONTROLLER
[Symbol]	PIPE CAP
[Symbol]	BLIND FLANGE
[Symbol]	FLOOR DRAIN, FLOOR SINK, ROOF DRAIN
[Symbol]	FLOOR CLEAN OUT
[Symbol]	WALL CLEAN OUT
[Symbol]	CLEAN OUT
[Symbol]	CLEAN OUT TO GRADE
[Symbol]	LOW PRESSURE STEAM
[Symbol]	LOW PRESSURE CONDENSATE
[Symbol]	MEDIUM PRESSURE STEAM
[Symbol]	MEDIUM PRESSURE CONDENSATE
[Symbol]	HIGH PRESSURE STEAM
[Symbol]	HIGH PRESSURE CONDENSATE
[Symbol]	IN LINE PUMP
[Symbol]	PRESSURE/TEMPERATURE TEST PLUG (P-T PLUG)
[Symbol]	ELBOW DROP IN PIPE
[Symbol]	TEE DROP IN PIPE
[Symbol]	RISE IN PIPE

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE				
ID	MFR	MODEL	DESCRIPTION	
CD1	EH PRICE	SPD	FACE STYLE: SQUARE PLAQUE DIFFUSER FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) PATTERN: 360° RADIAL HORIZONTAL AIR PATTERN DAMPER: OPPOSED BLADE MAX NC - 30 DAMPER: NONE REMOVABLE FACE
RG1	EH PRICE	PFRF	FACE STYLE: PERFORATED FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING SPACE AVAILABLE APPLICATION: AIR RETURN MATERIAL-FRAME: ALUMINUM FINISH: FACE: B12 WHITE POWDERCOAT	MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) DAMPER: NONE MAX NC - 30
RG2	EH PRICE	530	PROVIDE RETURN GRILLES WITH SOUNDBOOT / DUCTBOARD CAN WITH BAFFLE 22"x22" or 10"x22" TO MATCH GRILLE. USE HERCULES INDUSTRIES MODEL SB2222 OR SB2210. FACE STYLE: SIDE WALL RETURN AIR GRILLE ARRANGEMENT: STATIONARY HORIZONTAL BLADE ORIENTATION: 45 DEG DEFLECTION VANES SPACED AT 3/4 INCH CENTERS. FRONT BLADES PARALLEL TO SHORT DIMENSION. MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT	FRAME: 1.25 INCH FLAT / BORDER MOUNTING: SURFACE PATTERN: PERMANENT 45 DEGREE DEFLECTION DAMPER: OPPOSED BLADE MAX NC - 30

NOTES: ALL DIFFUSERS SHALL BE CD1 AND ALL CEILING RETURNS SHALL BE RG1.



**SENSOR/CONDUIT INSTALLATION DETAIL**

SCALE: NTS

EXISTING DUAL DUCT VAV BOX RELOCATION SCHEDULE					
ID	STATUS	CONFIGURATION	SIZE, COOLING (IN)	SIZE, HEATING (IN)	NOTES
EV1	EXISTING	STANDARD	8	6	1
EV2	EXISTING	STANDARD	12	8	1
EV3	EXISTING	STANDARD	10	8	1
EV4	EXISTING	STANDARD	14	10	1
EV5	EXISTING	STANDARD	10	8	1
EV6	EXISTING	STANDARD	10	8	1
EV7	EXISTING	STANDARD	8	6	1
EV8	EXISTING	STANDARD	10	8	1
EV9	EXISTING	STACKED	6	6	1
EV10	EXISTING	STACKED	6	6	1
EV11	EXISTING	STACKED	6	6	1

1. PROVIDE BID ALTERNATE PRICE TO MODIFY AND EXTEND THE EXISTING DUCTWORK ASSOCIATED WITH THIS EXISTING DUAL DUCT VAV BOX AND RELOCATE THIS EXISTING DUAL DUCT VAV BOX DOWN TO WITHIN 18 INCHES OF THE CEILING. REFER TO MECHANICAL PLAN FOR EXISTING LOCATIONS AND DUCT SIZES. FIELD VERIFY EXISTING CONDITIONS.

BID ALTERNATE #2

DUAL DUCT VAV BOX SCHEDULE							
ID	MFR	MODEL	ROOMS SERVED	SIZE	CFM	HOT/COLD	NOTES
V1	EH PRICE	SDV	3 & 14	6	110	COLD	
V2	EH PRICE	SDV	3 & 14	6	60	HOT	
V3	EH PRICE	SDV	4 & 5	6	110	COLD	
V4	EH PRICE	SDV	4 & 5	6	60	HOT	
V5	EH PRICE	SDV	6 & 7	6	110	COLD	
V6	EH PRICE	SDV	6 & 7	6	60	HOT	
V7	EH PRICE	SDV	8 & 9	6	110	COLD	
V8	EH PRICE	SDV	8 & 9	6	60	HOT	



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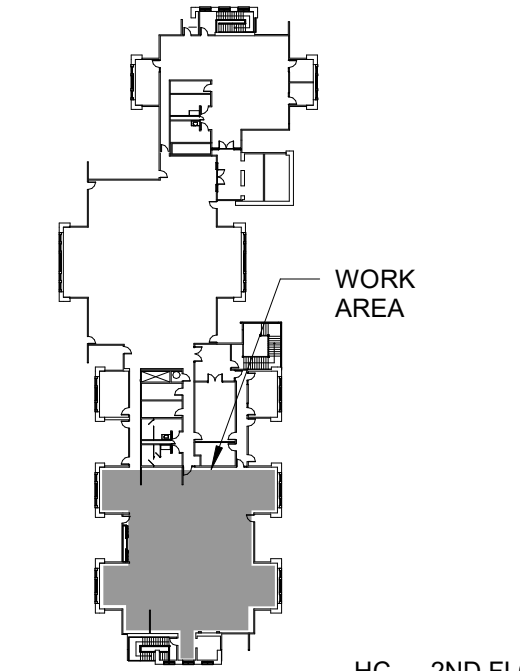
**REFERENCE NOTES**

- REMOVE EXISTING DUCTWORK BACK TO ACTIVE MAINS AND CAP. FIELD VERIFY EXISTING CONDITIONS.
- REMOVE EXISTING THERMOSTAT.
- INSTALL GRILLE APPROXIMATELY 6 INCHES ABOVE FINISHED FLOOR. COORDINATE EXACT PLACEMENT WITH ARCHITECT.
- EXTEND DUCT DOWN THROUGH FLOOR TO RETURN AIR PLENUM BELOW. PROVIDE COMBINATION FIRE/SMOKE DAMPER AT PENETRATION AND FIRE CAULK ALL AROUND. SEE LOW SIDEWALL RETURN SECTION VIEW. FSD CALLOUT REFERS ONLY TO FLOOR PENETRATION.

**GENERAL NOTES**

- EXTEND DUCTWORK AS REQUIRED DOWNWARD TO NEW CEILINGS.
- INSULATE ALL NEW OR REPAIRED AND UNLINED SUPPLY AIR DUCTWORK WITH 1" THICK FIBERGLASS INSULATION WITH ALUMINUM FOIL SCRIM KRAFT FACING AND A DENSITY OF 1.5 LB/FT<sup>3</sup>. COORDINATE ALL DIFFUSER LOCATIONS WITH LIGHTING LAYOUT.
- LAY OUT ALL DUCTWORK SUCH THAT DUCT RUN-OUTS OR DROPS TO DIFFUSERS ARE ALIGNED TO AVOID UNNECESSARY OFFSETS. USE FLEXIBLE DUCT ONLY WHERE HARD DUCTING IS NOT POSSIBLE. FLEXIBLE DUCT SHALL BE INSTALLED SUCH THAT THE CENTER LINE OF THE DIFFUSER NECK SHALL NOT BE OFFSET FROM THE CENTER LINE OF THE DUCT ELBOW BY MORE THAN ONE DUCT RADIUS. NO MORE THAN 24" MAXIMUM LENGTH OF FLEX DUCT AND NO FLEX DUCT ELBOWS ALLOWED.
- THE JOINTS AND SEAMS OF ALL SUPPLY AIR DUCTWORK SHALL BE SEALED. MASTIC SEALING COMPOUND SHALL BE DURODYNE S-2, 3M EC-750, IRON GRIP 601 or HARDCAST TWO-PART SYSTEM II.
- AIR BALANCE ALL DIFFUSERS AND VAV BOXES TO AIR VOLUMES NOTED IN SCHEDULE OR ON PLANS.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL DIFFUSERS, GRILLES, FIRE SPRINKLERS, ETC.
- ALL NEW FIRE SPRINKLER HEADS IN OFFICES WITH LAY-IN CEILINGS SHALL BE CONCEALED TYPE WITH A FRANGIBLE GLASS BULB AND A WHITE COVER PLATE ASSEMBLY.
- MECHANICAL PLAN SHOWS BASE BID LAYOUT FOR ROOM #3 AND ROOM # 14. TO PROVIDE ALTERNATE #1, MAKE THE FOLLOWING ADJUSTMENTS IN THAT AREA: REMOVE ONE RETURN GRILLE; REMOVE THE THERMOSTAT; REMOVE THE DIFFUSERS AND ASSOCIATED BRANCH DUCTWORK; PROVIDE A 10" ROUND BRANCH DUCT CONNECTED TO THE 10x8 TRUNK, HET WITH DAMPER, AND A DIFFUSER EXTENDED TO APPROXIMATELY THE CENTER OF THE ROOM. BALANCE AIRFLOW TO 240 CFM. REMOVE AND SALVAGE EXISTING STAEFA CONTROLS AND RETURN TO OWNER. PROTECT AND REUSE ALL RELOCATED THERMOSTATS.
- PROVIDE REMOTE DAMPER OPERATORS FOR ANY BALANCING DAMPERS ON NEW DUCTWORK THAT ARE LOCATED HIGHER THAN 12'-0" ABOVE FINISHED FLOOR.

**LOCATION PLAN**

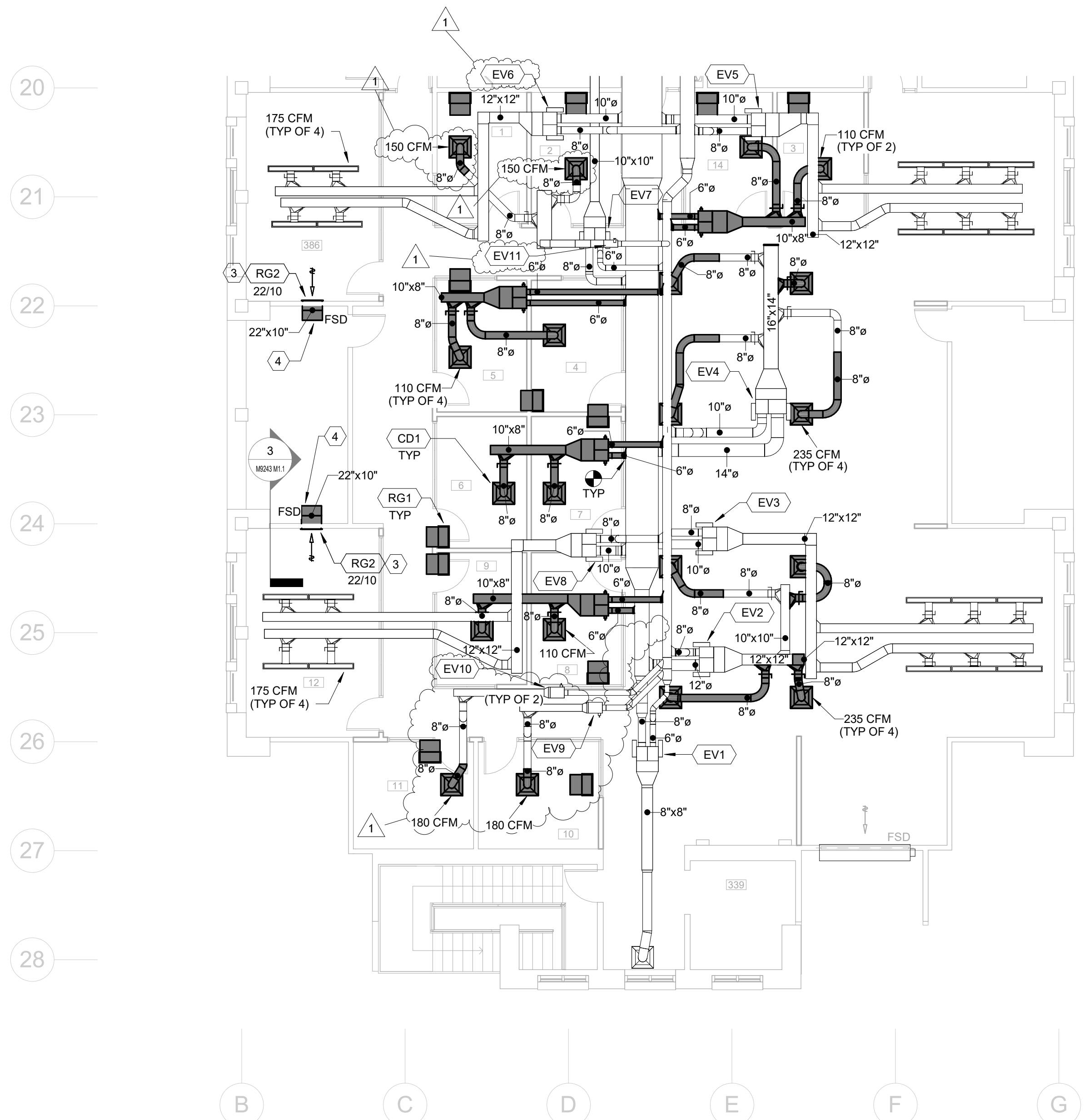


HC — 2ND FLOOR

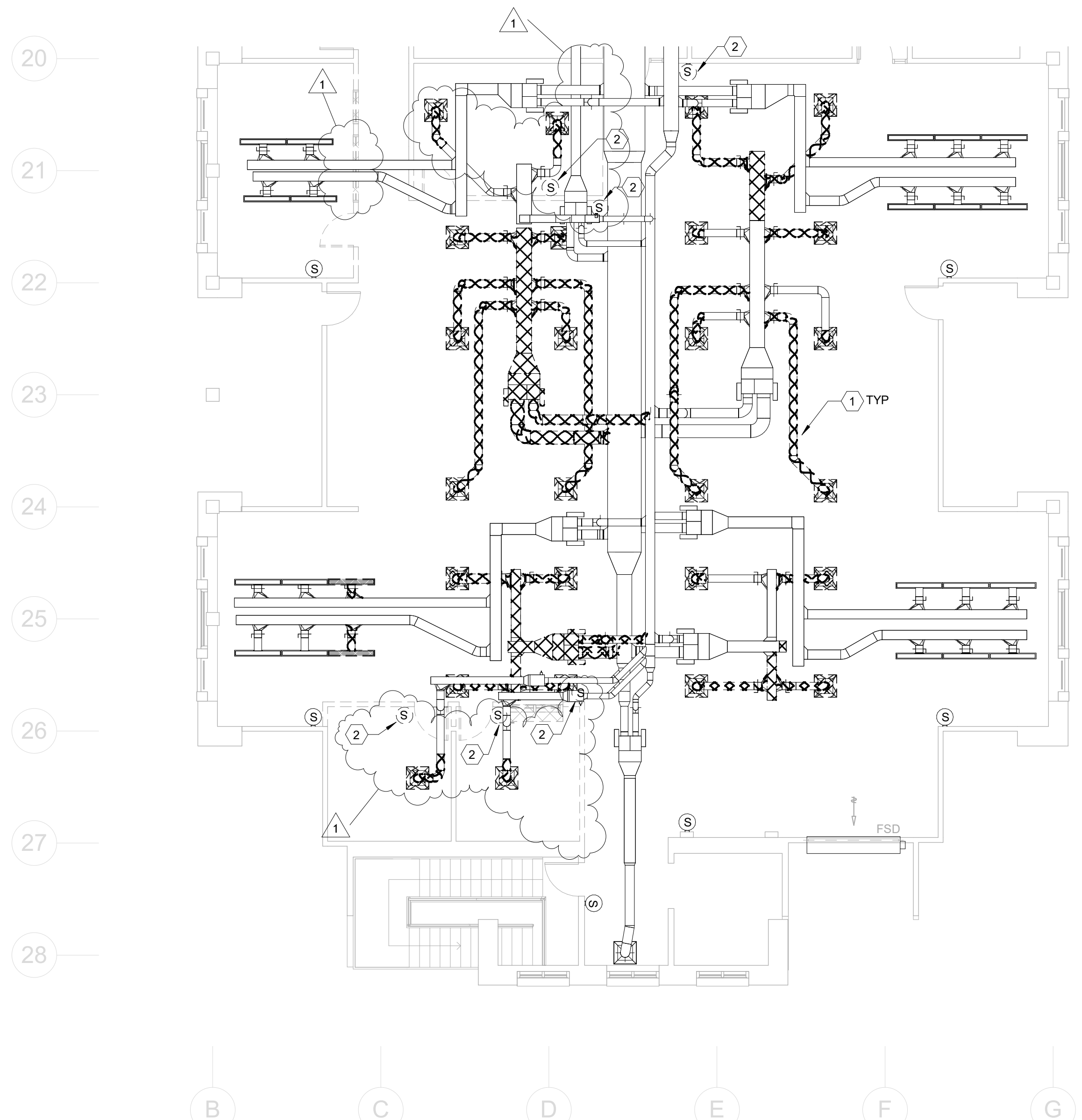
**MECHANICAL PLANS**

WORK ORDER & SHEET NO.

**M9243**  
**M1.0**

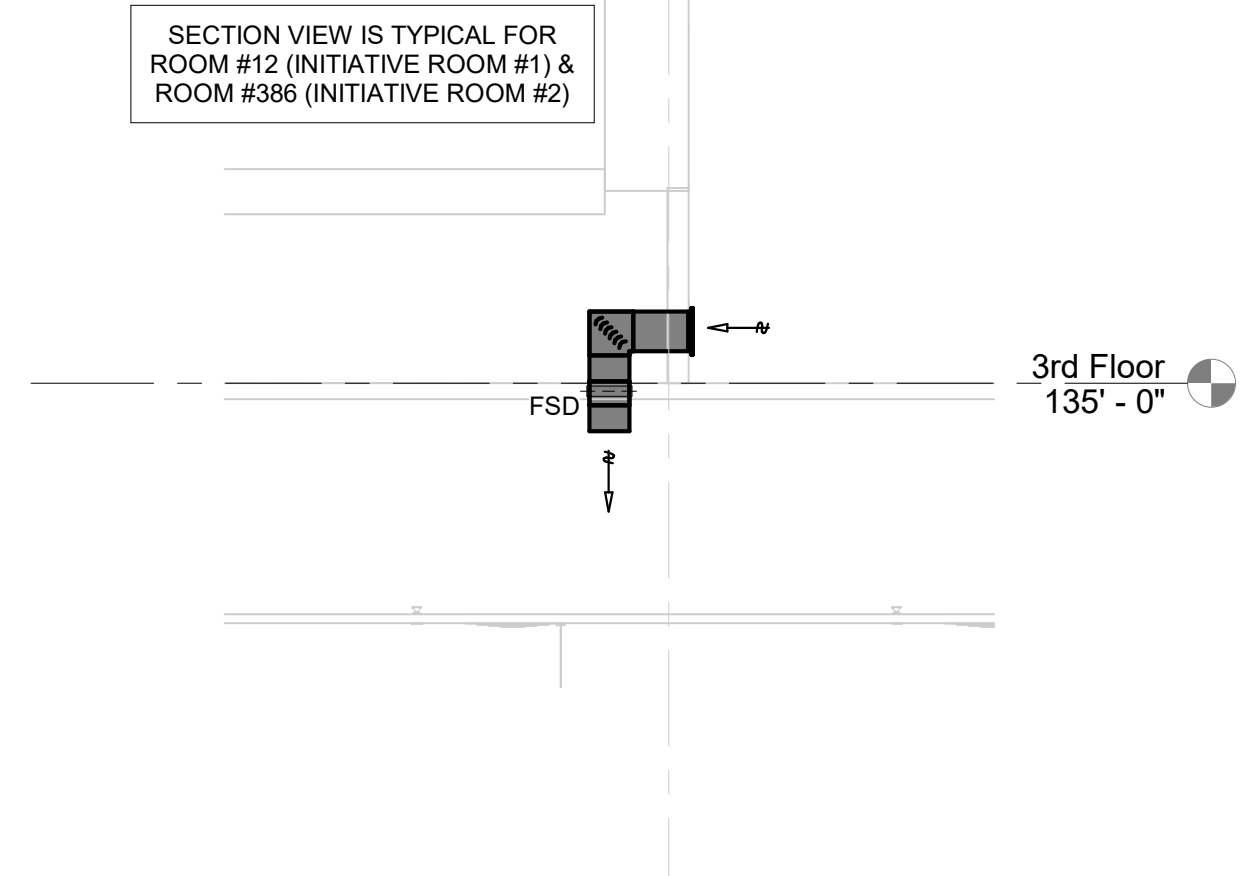


**M9243 MECHANICAL PLAN**  
 SCALE: 1/8" = 1'-0" **2**

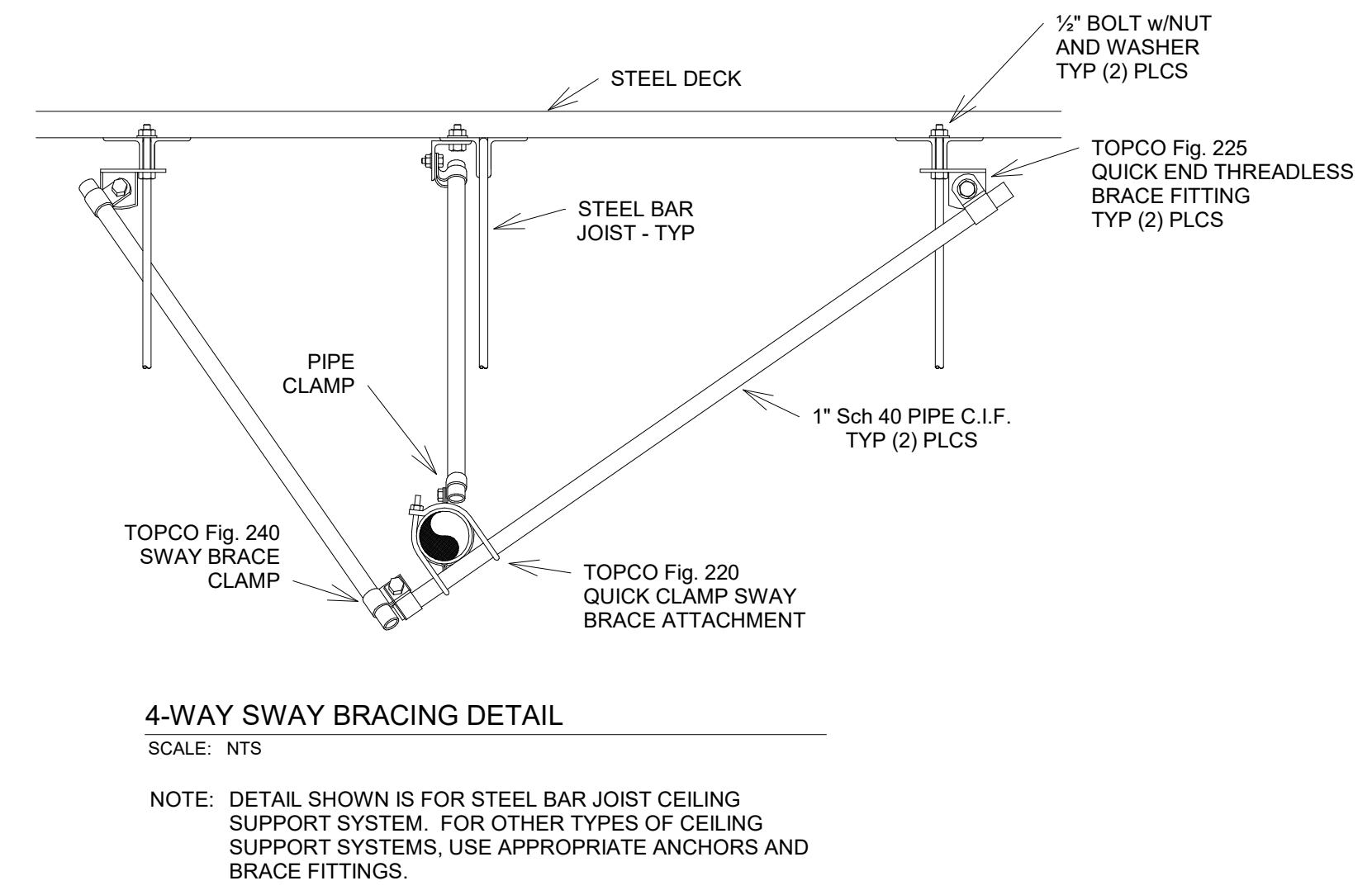
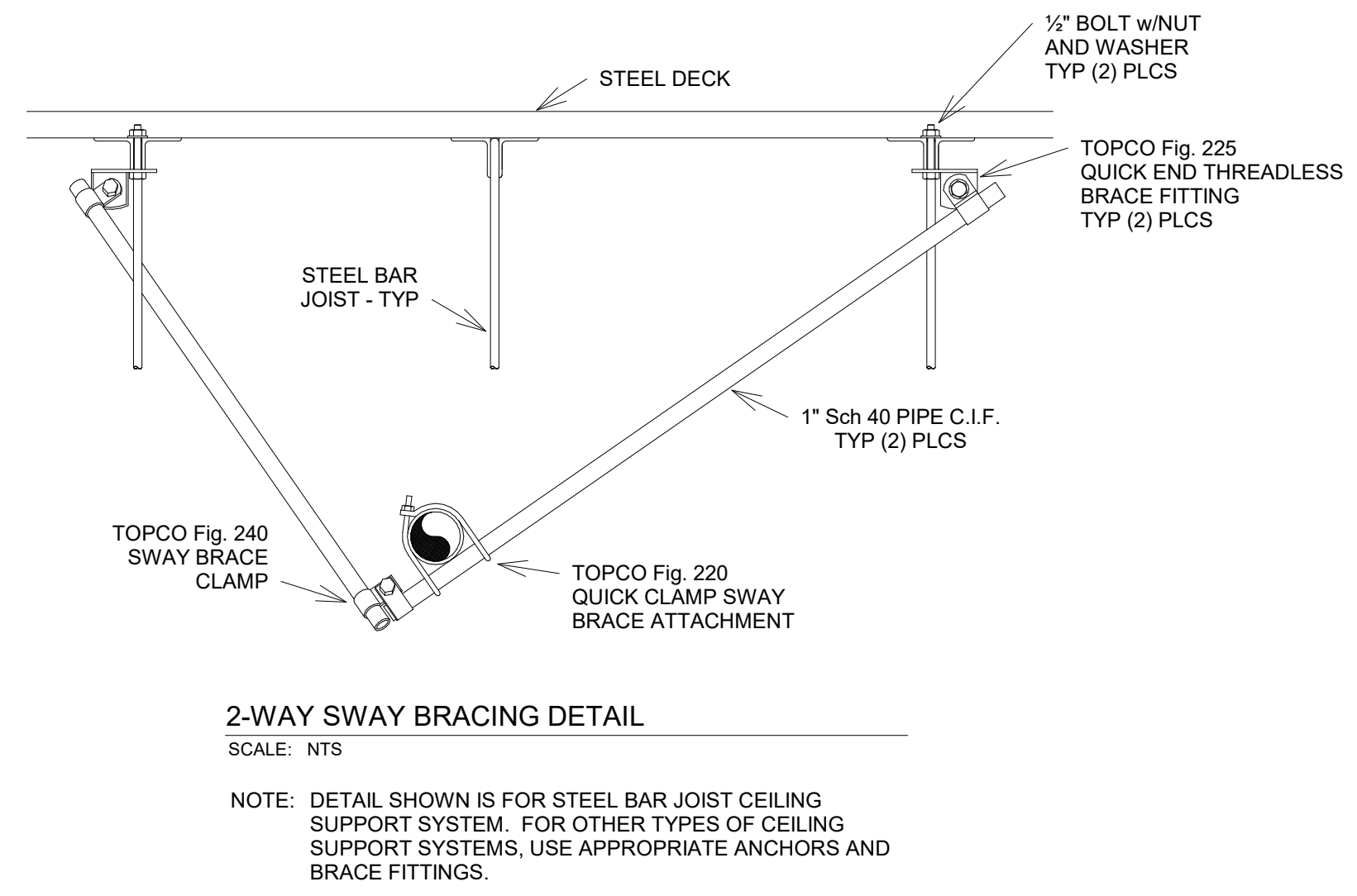


**M9243 MECHANICAL DEMOLITION PLAN**  
 SCALE: 1/8" = 1'-0" **1**

24



**LOW SIDEWALL RETURN SECTION VIEW**  
SCALE: 1/4" = 1'-0" **3**



**REFERENCE NOTES**

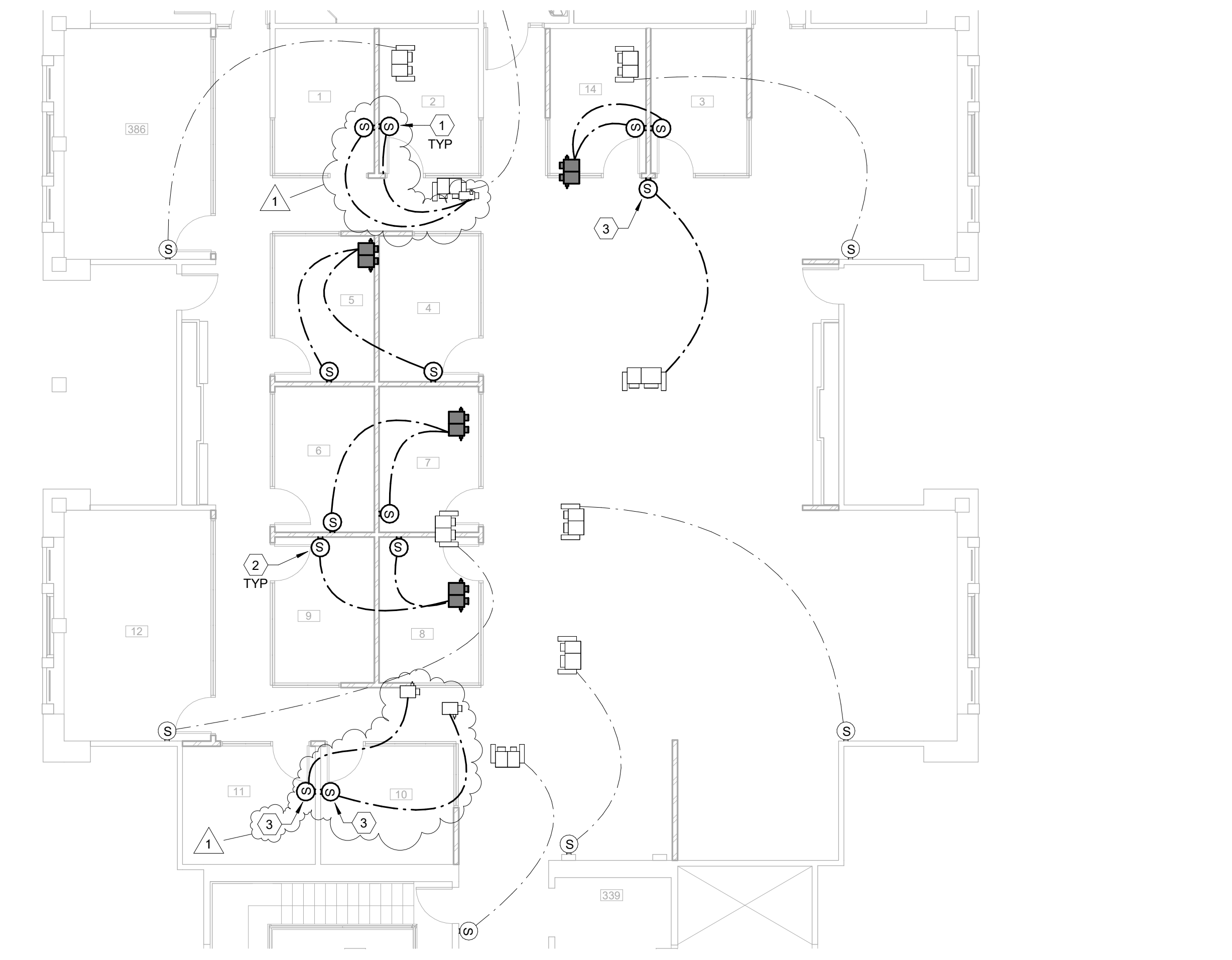
1. INSTALL SENSOR AND COORDINATE EXACT PLACEMENT WITH ARCHITECT. SEE SENSOR/CONDUIT INSTALLATION DETAIL.
2. INSTALL AVERAGING SENSOR.
3. INSTALL RELOCATED SENSOR.

**GENERAL NOTES**

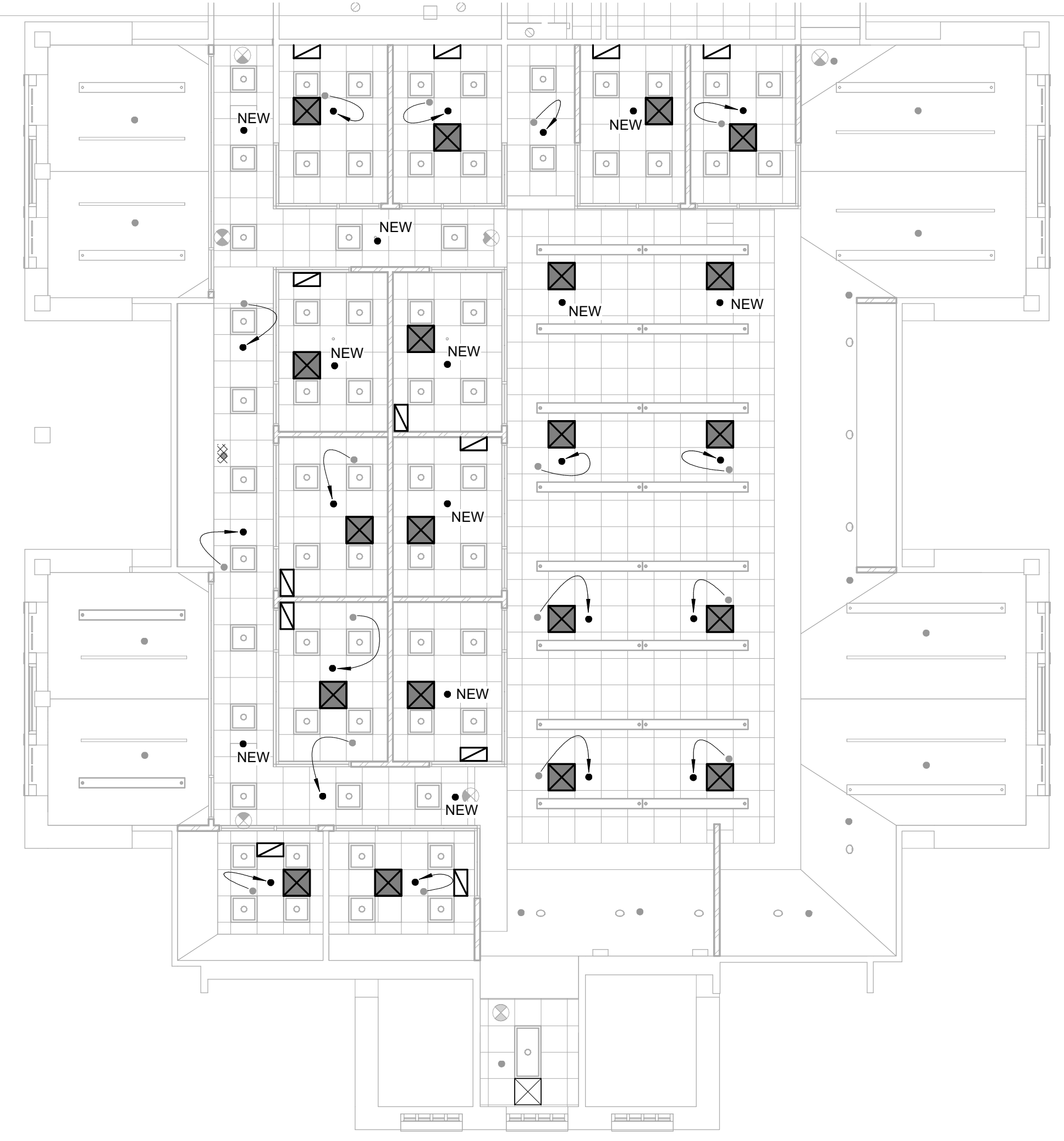
1. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL DIFFUSERS, GRILLES, FIRE SPRINKLERS, ETC.
2. ALL NEW FIRE SPRINKLER HEADS IN OFFICES WITH LAY-IN CEILINGS SHALL BE CONCEALED TYPE WITH A FRANGIBLE GLASS BULB AND A WHITE COVER PLATE ASSEMBLY.
3. INSTALL NEW DELTA AVERAGING THERMOSTATS AND CONTROLLERS - SEE HVAC CONTROLS DETAIL.

**FIRE SPRINKLING NOTES**

1. FIRE SPRINKLING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND FAMILIARIZE THEMSELVES WITH THE INTENT OF THE NEW FIRE SPRINKLING INSTALLATION PRIOR TO SUBMITTING A BID ON THIS PROJECT.
2. INSTALL NEW FIRE SPRINKLER HEADS, AS CLOSE AS POSSIBLE, IN LOCATIONS SHOWN. RELOCATE EXISTING FIRE SPRINKLERS AS SHOWN.
3. ALL NEW SPRINKLER HEADS INSTALLED IN CEILING SHALL BE RELIABLE CONCEALED TYPE WITH A 1/2" ORIFICE.
4. COORDINATE EXACT LOCATIONS OF ALL NEW HEADS WITH STRUCTURE, HVAC PIPING, DUCTWORK, LIGHTING, ELECTRICAL CONDUITS, ETC. INSTALL ALL NEW SPRINKLER HEADS IN CENTER OF GRID IN LAY-IN CEILINGS UNLESS OTHERWISE APPROVED.
5. FIRE SPRINKLING CONTRACTOR SHALL INVESTIGATE EXISTING CONDITIONS AND PIPE INSTALLATION AND DESIGN NEW FIRE SPRINKLING SYSTEM ACCORDING TO THE NFPA NATIONAL FIRE CODE, ORDINARY HAZARD PIPE SCHEDULE. CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL COMPONENTS AND PROVIDE HYDRAULIC CALCULATIONS PRIOR TO INSTALLATION.
6. UPGRADE SEISMIC BRACING OF ANY NEW OR MODIFIED SPRINKLER PIPING AS PER MOST RECENTLY ADOPTED VERSION OF NFPA NATIONAL FIRE CODE.

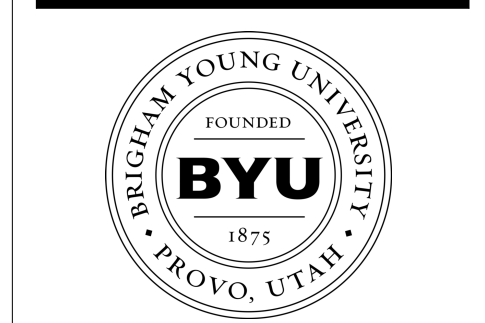
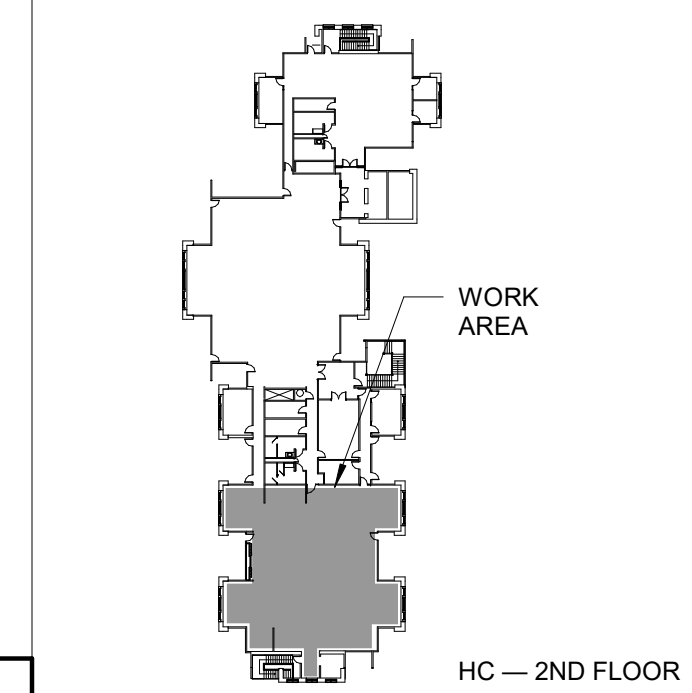


**M9243 MECHANICAL CONTROLS PLAN**  
SCALE: 1/8" = 1'-0" **2**



**M9243 MECHANICAL REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0" **1**

**LOCATION PLAN**



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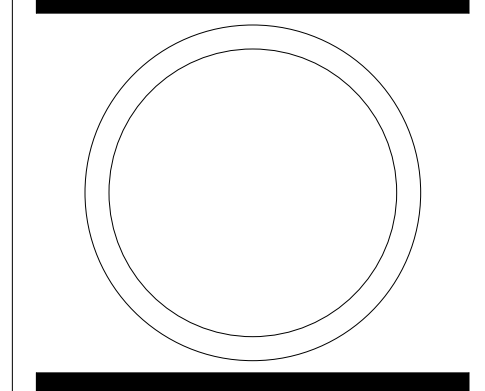
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DRAWN BY: J. JENSEN

ADA CHECK: \_\_\_\_\_  
CODE CHECK: \_\_\_\_\_  
STRUCTURAL: \_\_\_\_\_  
UTILITIES DIR: \_\_\_\_\_  
PLANNING DIR: \_\_\_\_\_

CLIENT APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

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**MECHANICAL PLANS**

WORK ORDER & SHEET NO.

**M9243**  
**M1.1**



## SECTION 09 2116 GYPSUM BOARD ASSEMBLIES

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Performance criteria for gypsum board assemblies.
- B. Metal stud wall framing.
- C. Metal channel ceiling framing.
- D. Acoustic insulation.
- E. Gypsum sheathing.
- F. Gypsum wallboard.
- G. Joint treatment and accessories.
- H. Acoustic (sound-dampening) wall and ceiling board.

#### 1.02 RELATED REQUIREMENTS

- A. Section 016116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 072100 - Thermal Insulation: Acoustic insulation.
- C. Section 072500 - Weather Barriers: Water-resistive barrier over sheathing.
- D. Section 078400 - Firestopping: Top-of-wall assemblies at fire rated walls.
- E. Section 093000 - Tiling: Tile backing board.

#### 1.03 REFERENCE STANDARDS

- A. AISI S100-12 - North American Specification for the Design of Cold-Formed Steel Structural Members; American Iron and Steel Institute; 2012.
- B. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units; 2010 (Reaffirmed 2016).
- C. ANSI A118.9 - American National Standard Specifications for Test Methods and Specifications for Cementitious Backer Units; 1999 (Reaffirmed 2016).
- D. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2014.
- E. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.
- F. ASTM A1003/A1003M - Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members; 2015.
- G. ASTM C475/C475M - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2015.
- H. ASTM C645 - Standard Specification for Nonstructural Steel Framing Members; 2014.
- I. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2012.
- J. ASTM C754 - Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products; 2017.
- K. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2016.



- L. ASTM C954 - Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs From 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness; 2015.
- M. ASTM C1002 - Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2016.
- N. ASTM C1047 - Standard Specification for Accessories For Gypsum Wallboard and Gypsum Veneer Base; 2014a.
- O. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2013.
- P. ASTM C1178/C1178M - Standard Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel; 2013.
- Q. ASTM C1280 - Standard Specification for Application of Exterior Gypsum Panel Products for Use as Sheathing; 2013a.
- R. ASTM C1288 - Standard Specification for Discrete Non-Asbestos Fiber-Cement Interior Substrate Sheets; 2014.
- S. ASTM C1325 - Specification for Non-Asbestos Fiber-Mat Reinforced Cementitious Backer Units; 2017.
- T. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2014a.
- U. ASTM C1629/C1629M - Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels; 2015.
- V. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2016.
- W. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2009 (Reapproved 2016).
- X. GA-216 - Application and Finishing of Gypsum Board; 2016.
- Y. GA-226 - Application of Gypsum Board to Form Curved Surfaces; Gypsum Association; 2016.
- Z. GA-600 - Fire Resistance Design Manual; 2015.
- AA. UL (FRD) - Fire Resistance Directory; current edition.

#### **1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate special details associated with fireproofing and acoustic seals.
- C. Product Data: Provide data on metal framing, gypsum board, accessories, and joint finishing system.
- D. Product Data: Provide manufacturer's data on partition head to structure connectors, showing compliance with requirements.
- E. Submit structural calculations and details stamped by a structural engineer licensed in the state of Utah showing the design of the members and their attachment to each other and to the building structure. THE STRUCTURAL DESIGN MUST BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

#### **1.05 QUALITY ASSURANCE**

- A. Installer Qualifications: Company specializing in performing gypsum board installation and finishing, with minimum 3 years of experience.



## PART 2 PRODUCTS

### 2.01 GYPSUM BOARD ASSEMBLIES

- A. Provide completed assemblies complying with ASTM C840 and GA-216.
  - 1. See PART 3 for finishing requirements.
- B. Interior Partitions: Provide completed assemblies with the following characteristics:
  - 1. Acoustic Attenuation: STC as indicated calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.

### 2.02 METAL FRAMING MATERIALS

- A. Manufacturers - Metal Framing, Connectors, and Accessories:
  - 1. Clarkwestern Dietrich Building Systems LLC; [www.clarkdietrich.com](http://www.clarkdietrich.com)
  - 2. Jaimes Industries; [www.jaimesind.com](http://www.jaimesind.com)
  - 3. Marino; [www.marinoware.com](http://www.marinoware.com)
  - 4. Phillips Manufacturing Co; \_\_\_\_; [www.phillipsmfg.com](http://www.phillipsmfg.com)
  - 5. CEMCO Steel; [www.cemcosteel.com](http://www.cemcosteel.com)

- 1
- B. Metal Framing – General: Provide framing materials complying with specified standards and tested assemblies; galvanized sheet steel.
    - 1. Interior non-loadbearing application: 20 gauge
    - 2. Interior loadbearing application: 18 gauge
  - C. Non-Loadbearing Framing System Components: ASTM C645, galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/360 at 5 psf.
    - 1. Studs: "C" shaped with flat or formed webs with knurled faces. (1 5/8" x 3 5/8" wide Typical at interior walls)
    - 2. Runners: U shaped, sized to match studs.
    - 3. Ceiling Channels: C-shaped.
    - 4. Furring: Hat-shaped sections, minimum depth of 7/8 inch.
    - 5. Resilient Furring Channels: 1/2 inch depth, for attachment to substrate through both legs; both legs expanded metal mesh.
      - a. Products:
        - 1) Same manufacturer as other framing materials.
  - D. Area Separation Wall Studs and Accessories: ASTM C645; galvanized sheet steel, of size and properties necessary to comply with specified performance requirements.
  - E. Ceiling Hangers: Type and size as specified in ASTM C754 for spacing required.
  - F. Partition Head To Structure Connections: Provide track fastened to structure with legs of sufficient length to accommodate deflection, for friction fit of studs cut short and fastened as indicated on drawings.
  - G. Non-Loadbearing Framing Accessories:
    - 1. Ceiling Hangers: Type and size as specified in ASTM C754 for spacing required.
    - 2. Partial Height Wall Framing Support: Provides stud reinforcement and anchored connection to floor.
      - a. Materials: ASTM A36/A36M formed sheet steel support member with factory-welded ASTM A1003/A1003M steel plate base.
    - 3. Framing Connectors: ASTM A653/A653M G90 galvanized steel clips; secures cold rolled channel to wall studs for lateral bracing.

### 2.03 BOARD MATERIALS

- A. Manufacturers - Gypsum-Based Board:
  - 1. American Gypsum Company: [www.americangypsum.com](http://www.americangypsum.com)



2. CertainTeed Corporation: [www.certainteed.com](http://www.certainteed.com)
  3. Georgia-Pacific Gypsum; Dense Shield Tile Baker: [www.gpgypsum.com](http://www.gpgypsum.com).
  4. USG Corporation: [www.usg.com](http://www.usg.com)
  5. Substitutions: See Section 016000 - Product Requirements.
- B. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
  2. At Assemblies Indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH listed.
  3. Thickness:
    - a. Vertical Surfaces: 5/8 inch.
    - b. Ceilings: 5/8 inch.
  4. Paper-Faced Products:
    - a. American Gypsum Company; FireBloc Type X Gypsum Wallboard.
    - b. Continental Building Products; Firecheck Type X.
    - c. Georgia-Pacific Gypsum; ToughRock Fireguard X.
    - d. National Gypsum Company; Gold Bond BRAND Fire-Shield Gypsum Board.
- C. Abuse Resistant Wallboard:
1. Application: High-traffic areas indicated.
  2. Surface Abrasion: Level 2, minimum, when tested in accordance with ASTM C1629/C1629M.
  3. Indentation: Level 1, minimum, when tested in accordance with ASTM C1629/C1629M.
  4. Soft Body Impact: Level 1, minimum, when tested in accordance with ASTM C1629/C1629M.
  5. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
  6. Paper-Faced Type: Gypsum wallboard as defined in ASTM C1396/C1396M.
  7. Type: Fire resistance rated Type X, UL or WH listed.
  8. Thickness: 5/8 inch.
  9. Edges: Tapered.
  10. Paper-Faced Products:
    - a. American Gypsum Company; M-Bloc AR Type X.
    - b. CertainTeed Corporation; Extreme Abuse Resistant Drywall with M2Tech.
    - c. Continental Building Products; Protecta AR 100 Type X with Mold Defense.
    - d. Georgia-Pacific Gypsum; ToughRock Fireguard X Mold Guard Abuse-Resistant.
    - e. National Gypsum Company; Gold Bond Hi-Abuse XP Gypsum Board.
  11. Products:
    - a. American Gypsum Company; M-Bloc AR Type X.
    - b. Continental Building Products; Protecta AR 100 Type X with Mold Defense.
    - c. Continental Building Products; Rapid Deco Level 5 Type X with Protecta.
    - d. Georgia-Pacific Gypsum; ToughRock Fireguard X Mold Guard Abuse-Resistant.
    - e. National Gypsum Company; Gold Bond Hi-Abuse XP Gypsum Board.
- D. Impact Resistant Wallboard:
1. Application: High-traffic areas indicated.
  2. Surface Abrasion: Level 3, minimum, when tested in accordance with ASTM C1629/C1629M.
  3. Indentation: Level 1, minimum, when tested in accordance with ASTM C1629/C1629M.
  4. Soft Body Impact: Level 3, minimum, when tested in accordance with ASTM C1629/C1629M.
  5. Hard Body Impact: Level 2, minimum, when tested in accordance with ASTM C1629/C1629M.
  6. Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
  7. Paper-Faced Type: Gypsum wallboard as defined in ASTM C1396/C1396M.
  8. Type: Fire resistance rated Type X, UL or WH listed.
  9. Thickness: 5/8 inch.



10. Edges: Tapered.
11. Products:
  - a. American Gypsum Company; M-Bloc IR Type X.
  - b. Continental Building Products; Protecta HIR 300 Type X with Mold Defense.
  - c. National Gypsum Company; Gold Bond HI-Impact XP Gypsum Board.
  - d. Substitutions: See Section 016000 - Product Requirements.

## 2.04 ACCESSORIES

- A. Acoustic Insulation: As specified in Section 072100.
- B. Acoustic Sealant: Acrylic emulsion latex or water-based elastomeric sealant; do not use solvent-based non-curing butyl sealant.
- C. Beads, Joint Accessories, and Other Trim: ASTM C1047, rigid plastic, galvanized steel, or rolled zinc, unless noted otherwise.
  1. Rigid Corner Beads: Low profile, for 90 degree outside corners.
  2. Expansion Joints:
- D. Joint Materials: ASTM C475/C475M and as recommended by gypsum board manufacturer for project conditions.
  1. Tape: 2 inch wide, coated glass fiber tape for joints and corners, except as otherwise indicated.
  2. Tape: 2 inch wide, creased paper tape for joints and corners, except as otherwise indicated.
  3. Ready-mixed vinyl-based joint compound.
  4. Powder-type vinyl-based joint compound.
  5. Chemical hardening type compound.
  6. Thinsets and mastics for backerboard installations.
- E. High Build Drywall Surfer: Vinyl acrylic latex-based coating for spray application, designed to take the place of skim coating and separate paint primer in achieving Level 5 finish.
  1. Products:
    - a. CertainTeed Corporation; Level V Wall and Ceiling Primer/Surfer with M2Tech: [www.certainteed.com](http://www.certainteed.com)
- F. Screws for Fastening of Gypsum Panel Products to Cold-Formed Steel Studs Less than 0.033 inch in Thickness and Wood Members: ASTM C1002; self-piercing tapping screws, corrosion resistant.
- G. Screws for Fastening of Gypsum Panel Products to Steel Members from 0.033 to 0.112 inch in Thickness: ASTM C954; steel drill screws, corrosion resistant.
- H. Anchorage to Substrate: Tie wire, nails, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in place.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verify that project conditions are appropriate for work of this section to commence.

### 3.02 FRAMING INSTALLATION

- A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.
- B. Suspended Ceilings and Soffits: Space framing and furring members as indicated.
  1. Level ceiling system to a tolerance of 1/1200.
  2. Laterally brace entire suspension system.
  3. Install bracing as required at exterior locations to resist wind uplift.
- C. Studs: Space studs at 16 inches on center.
  1. Extend partition framing to structure where indicated and to ceiling in other locations..
  2. Partitions Terminating at Ceiling: Attach ceiling runner securely to ceiling track in accordance with manufacturer's instructions.





3. Partitions Terminating at Structure: Attach extended leg top runner to structure, maintain clearance between top of studs and structure, and brace both flanges of studs with continuous bridging.
  4. Partitions Terminating at Structure: Attach top runner to structure, maintain clearance between top of studs and structure, and connect studs to track using specified mechanical devices in accordance with manufacturer's instructions; verify free movement of top of stud connections; do not leave studs unattached to track.
- D. Openings: Reinforce openings as required for weight of doors or operable panels, using not less than double studs at jambs.
- E. Standard Wall Furring: Install at concrete walls scheduled to receive gypsum board, not more than 4 inches from floor and ceiling lines and abutting walls. Secure in place on alternate channel flanges at maximum 16 inches on center.
1. Orientation: Vertical.
  2. Spacing: As indicated.
- F. Acoustic Furring: Install resilient channels at maximum 24 inches on center. Locate joints over framing members.
- G. Furring for Fire Ratings: Install as required for fire resistance ratings indicated.
- H. Blocking: Install mechanically fastened steel sheet blocking for support of:
1. Framed openings.
  2. Wall mounted cabinets.
  3. Plumbing fixtures.
  4. Toilet partitions.
  5. Toilet accessories.
  6. Wall mounted door hardware.

### **3.04 ACOUSTIC ACCESSORIES INSTALLATION**

- A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.
- B. Acoustic Sealant: Install in accordance with manufacturer's instructions.
1. Place one bead continuously on substrate before installation of perimeter framing members.
  2. Place continuous bead at perimeter of each layer of gypsum board.
  3. Seal around all penetrations by conduit, pipe, ducts, and rough-in boxes, except where firestopping is provided.

### **3.05 BOARD INSTALLATION**

- A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install interior gypsum board horizontally, especially in Corridors and Highly Visible Locations.
- B. Fire-Rated Construction: Install gypsum board in strict compliance with requirements of assembly listing.
- C. Cementitious Backing Board: Install over steel framing members and plywood substrate where indicated, in accordance with ANSI A108.11 and manufacturer's instructions.
- D. Installation on Metal Framing: Use screws for attachment of gypsum board.
- E. Curved Surfaces: Apply gypsum board to curved substrates in accordance with GA-226.

### **3.06 INSTALLATION OF TRIM AND ACCESSORIES**

- A. Control Joints: Place control joints consistent with lines of building spaces and as indicated.
1. Not more than 30 feet apart on walls and ceilings over 50 feet long.
  2. At exterior soffits, not more than 30 feet apart in both directions.
- B. Corner Beads: Install at external corners, using longest practical lengths.



- C. Edge Trim: Install at locations where gypsum board abuts dissimilar materials.
- D. Exterior Soffit Vents: Install according to manufacturer's written instructions and in locations indicated on drawings. Provide vent area specified.
- E. Exposed finished raw edges are not allowed.
- F. All metal fittings to be bedded and finished to designated finish level.

### **3.07 JOINT TREATMENT**

- A. Glass Mat Faced Gypsum Board and Exterior Glass Mat Faced Sheathing: Use fiberglass joint tape, bedded and finished with chemical hardening type joint compound.
- B. Paper Faced Gypsum Board: Use paper joint tape, bedded with ready-mixed vinyl-based joint compound and finished with ready-mixed vinyl-based joint compound.
- C. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
  - 1. Level 5: Walls and ceilings to receive semi-gloss or gloss paint finish and other areas specifically indicated.
  - 2. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
  - 3. Level 2: In utility areas, behind cabinetry, and on backing board to receive tile finish.
  - 4. Level 1: Fire rated wall areas above finished ceilings, whether or not accessible in the completed construction.
- D. Tape, fill, and sand exposed joints, edges, and corners to produce smooth surface ready to receive finishes.
  - 1. Feather coats of joint compound so that camber is maximum 1/32 inch.
  - 2. Taping, filling, and sanding is not required at surfaces behind adhesive applied ceramic tile and fixed cabinetry.
- E. Where Level 5 finish is indicated, spray apply high build drywall surfacer over entire surface after joints have been properly treated; achieve a flat and tool mark-free finish.

### **3.08 TOLERANCES**

- A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.

**END OF SECTION**



BRIGHAM YOUNG UNIVERSITY

ADDENDUM RECEIPT

DATE: February 14, 2025

PROJECT: HC Wheatley Institute 3<sup>rd</sup> Floor

PROJ. #: WO # M9243

We acknowledge receipt of Addendum Number 1.

COMPANY: \_\_\_\_\_

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

**PLEASE EMAIL SIGNED RECEIPT TO [construction@byu.edu](mailto:construction@byu.edu)**