

PROJECT INFORMATION		ADD ALTERNATES		ABBREVIATIONS					
<b>CLIENT NAME:</b> <b>THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL</b> <b>JOB NAME:</b> <b>UNC VENABLE HALL LOWER LEVEL UPFIT / CONSTRUCTION SET</b> <b>ISSUE DATE:</b> <b>5-21-25</b> <b>PROJECT LOCATION:</b> <b>VENABLE HALL, GROUND FLOOR</b> <b>101 South Rd</b> <b>Chapel Hill, NC 27514</b> <b>NORTH CAROLINA STATE CONSTRUCTION OFFICE NO. (SCO NUMBER)</b> <b>24-28389-01A</b> <b>UNC PROJECT MANAGER CONTACT INFORMATION:</b> <b>NAME: CHRIS BOZZELLI</b> <b>PHONE: 919.962.9048</b> <b>EMAIL: bozzelli@mail.unc.edu</b> <b>DRAWING INDEX</b>		<b>ADD ALTERNATE 01:</b> ADD A SECOND HOOD (FUME HOOD 2), INCLUDING THE DUCTWORK NEEDED TO CONNECT IT, AND ALSO ADD "EMERGENCY SHOWER & EYEWASH ADA COMPLIANT 2" PER PLANS <ul style="list-style-type: none"> <li>SEE 1/A-501 FOR EXACT LOCATION OF SECOND HOOD AND EMERGENCY SHOWER &amp; EYEWASH ADA COMPLIANT 2</li> <li>SEE 2/M-111, M-401, 1/E-200, P-311</li> <li>HOOD WILL BE OWNER PROVIDED, CONTRACTOR INSTALLED</li> <li>SAME MODEL AS FUME HOOD 1 (CONTINUOUS SPEED KEWAUNEE TRUVIEW SUPREME AIR, ADA COMPLIANT OPTION)</li> </ul>		<b>ABBREVIATIONS</b>					
<b>GENERAL PROJECT NOTES</b>									
<b>DIMENSIONING</b> <ol style="list-style-type: none"> <li>DIMENSIONS ON PLANS ARE TO FACE OF MASONRY, GWB OR FINISH UNLESS NOTED OTHERWISE.</li> <li>MASONRY DIMENSIONS SHOWN ARE ACTUAL DIMENSIONS.</li> <li>DO NOT SCALE DRAWINGS. USE DIMENSIONS ONLY.</li> <li>DIMENSIONS RELATED TO THE EXISTING BUILDING SHALL BE VERIFIED PRIOR TO CONSTRUCTION.</li> <li>EXTERIOR DIMENSIONS ARE GIVEN TYPICALLY TO THE OUTSIDE FACE OF GLAZING, MASONRY OR EIFS.</li> <li>SEE LIFE SAFETY PLANS, FLOOR PLANS &amp; WALL SCHEDULE FOR LOCATION OF FIRE RATED WALLS AND WALL TYPES.</li> <li>PROVIDE CONTINUOUS HORIZONTAL BLOCKING IN ALL PARTITIONS WHERE INDICATED AND WHERE REQUIRED FOR EQUIPMENT AND CASEWORK ATTACHMENT.</li> <li>ALL INTERIOR AND EXTERIOR WOOD BLOCKING SHALL BE TREATED AS CALLED FOR IN SPECIFICATIONS.</li> <li>IN GENERAL, THERE SHALL BE NO BACK-TO-BACK ELECTRICAL, TELEPHONE OR OTHER OUTLETS. OUTLET HOLES SHALL BE PACKED WITH ACOUSTICAL SEALANT.</li> <li>WHEN OUTLETS ARE INDICATED AS OCCURRING BACK-TO-BACK THEY SHOULD BE SEPARATED BY 16 INCHES HORIZONTALLY. WHERE DIMENSIONS ARE SHOWN WHICH CONFLICT WITH THIS, OBTAIN DIRECTION FROM ARCHITECT.</li> <li>PROVIDE A SEALANT JOINT AT ALL INTERSECTIONS OF GWB WALLS OR GWB CEILINGS WITH CMU PARTITIONS.</li> <li>Maintain INTEGRITY OF ALL RATED PARTITIONS AT INSTALLATION OF RECESSED FIRE EXTINGUISHER CABINETS, CABINETS, TOWEL DISPENSERS, RECEPTACLES, ELECTRICAL PANELS AND OTHER RECESSED ITEMS. AT GWB WALLS, OBTAIN THIS INTEGRITY BY INSTALLING AN ADDITIONAL LAYER OF GYPSUM BOARD WITHIN WALL AROUND ALL SIDES OF ITEM AND AN ADDITIONAL LAYER BEHIND ITEM.</li> <li>WHERE HVAC OR OTHER MECHANICAL, ELECTRICAL AND PLUMBING ITEMS PENETRATE PARTITIONS, STUDS SHALL BE BRACED AND FRAMED TO STRUCTURE AS REQUIRED TO PROVIDE ADEQUATE SUPPORT. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED TO PROVIDE FIRE, SMOKE AND/OR ACOUSTIC ISOLATION SPACES.</li> <li>BEFORE PATCHING ANY FIRE-RATED CMU PARTITION, FILL ANY EXPOSED CELLS SOLID WITH GROUT.</li> <li>PROVIDE FINISHED WALL UNDER AND BEHIND WALL EQUIPMENT AND CASEWORK.</li> </ol> <b>COORDINATION/INDICATION OF ENGINEERING WORK ON ARCHITECTURAL DRAWINGS:</b> <ol style="list-style-type: none"> <li>WORK OF ENGINEERING DISCIPLINES IS SHOWN ON ARCHITECTURAL DRAWINGS FOR COORDINATION AND CONVENIENCE PURPOSES ONLY. REFER TO APPROPRIATE DISCIPLINE DRAWINGS FOR COMPLETE AND GOVERNING INFORMATION REGARDING THEIR WORK.</li> <li>SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF CEILING MOUNTED MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES.</li> <li>WHERE EXPOSED STRUCTURE CEILING AREAS OCCUR IN ARCHITECTURAL REFLECTED CEILING PLANS, FULL DELINEATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS IS NOT PROVIDED. SELECTED ELEMENTS AND DEVICES MAY BE SHOWN FOR LOCATION OR COORDINATION (E.G. LIGHT AND SPRINKLER SPACING)</li> <li>FOR ALL ELECTRICAL INSTALLED IN CUSTOM MADE PANELS, FURNITURE, AND OTHER BUILT-INS, ACCEPTANCE BY ELECTRICAL INSPECTOR IS BY NEC 110.2 AND NEC 110.3</li> </ol>									
<b>MECHANICAL</b> <b>M001</b> MECHANICAL DATA SHEET <b>MD111</b> DEMO MECHANICAL- GROUND FLOOR PLAN <b>M111</b> DUCTWORK - GROUND FLOOR PLAN <b>M211</b> PIPING - GROUND FLOOR PLAN <b>M301</b> MECHANICAL DETAILS <b>M401</b> MECHANICAL SCHEDULES <b>M501</b> MECHANICAL CONTROL DIAGRAMS		<b>13.</b> PARTITIONS STUDS SHALL BE BRACED AND FRAMED TO STRUCTURE AS REQUIRED TO PROVIDE ADEQUATE SUPPORT. ALL PENETRATIONS THROUGH WALLS SHALL BE SEALED TO PROVIDE FIRE, SMOKE AND/OR ACOUSTIC ISOLATION SPACES.		<b>14.</b> BEFORE PATCHING ANY FIRE-RATED CMU PARTITION, FILL ANY EXPOSED CELLS SOLID WITH GROUT.		<b>15.</b> PROVIDE FINISHED WALL UNDER AND BEHIND WALL EQUIPMENT AND CASEWORK.		<b>COORDINATION/INDICATION OF ENGINEERING WORK ON ARCHITECTURAL DRAWINGS:</b>	
<b>ELECTRICAL</b> <b>E001</b> ELECTRICAL LEGEND SHEET <b>E002</b> ELECTRICAL NOTES AND ABBREVIATION <b>E100</b> ELECTRICAL DEMOLITION PLANS <b>E200</b> ELECTRICAL NEW WORK PLANS <b>E300</b> ELECTRICAL RISER DIAGRAMS AND PANEL SCHEDULES <b>E500</b> ELECTRICAL DETAILS <b>E501</b> ELECTRICAL DETAILS		<b>16.</b> WORK OF ENGINEERING DISCIPLINES IS SHOWN ON ARCHITECTURAL DRAWINGS FOR COORDINATION AND CONVENIENCE PURPOSES ONLY. REFER TO APPROPRIATE DISCIPLINE DRAWINGS FOR COMPLETE AND GOVERNING INFORMATION REGARDING THEIR WORK.		<b>17.</b> SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF CEILING MOUNTED MECHANICAL, ELECTRICAL AND PLUMBING FIXTURES.		<b>18.</b> WHERE EXPOSED STRUCTURE CEILING AREAS OCCUR IN ARCHITECTURAL REFLECTED CEILING PLANS, FULL DELINEATION OF STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS IS NOT PROVIDED. SELECTED ELEMENTS AND DEVICES MAY BE SHOWN FOR LOCATION OR COORDINATION (E.G. LIGHT AND SPRINKLER SPACING)		<b>19.</b> FOR ALL ELECTRICAL INSTALLED IN CUSTOM MADE PANELS, FURNITURE, AND OTHER BUILT-INS, ACCEPTANCE BY ELECTRICAL INSPECTOR IS BY NEC 110.2 AND NEC 110.3	
<b>FIRE ALARM</b> <b>FA001</b> ELECTRICAL FIRE ALARM LEGEND SHEET <b>FA100</b> FIRE ALARM DEMO AND NEW WORK PLANS									
<b>PLUMBING</b> <b>P001</b> PLUMBING DATA SHEET <b>P111</b> SANITARY - GROUND FLOOR PLAN <b>P211</b> DOMESTIC - GROUND FLOOR PLAN <b>P311</b> PLUMBING ALT 1-GROUND FLOOR PLAN		<b>20.</b> GC TO FOLLOW UNC STORMWATER REQUIREMENTS FOR SMALL CONSTRUCTION PROJECTS, ESPECIALLY WHEN STAGING OR CONDUCTING ANY ACTIVITY OUTSIDE OF THE BUILDING.							
<b>FIRE PROTECTION</b> <b>FP001</b> FIRE PROTECTION DATA SHEET <b>FP111</b> FIRE PROTECTION - GROUND FLOOR PLAN									
<b>VICINITY MAP</b> 		<b>LOCATION MAP</b> 		<b>UNC STANDARD PRACTICES:</b> <ol style="list-style-type: none"> <li>GC TO FOLLOW UNC STORMWATER REQUIREMENTS FOR SMALL CONSTRUCTION PROJECTS, ESPECIALLY WHEN STAGING OR CONDUCTING ANY ACTIVITY OUTSIDE OF THE BUILDING.</li> </ol>		<b>SYMBOLS</b>			
<b>PROJECT LOCATION:</b> <b>VENABLE HALL, GROUND FLOOR</b> <b>101 SOUTH RD</b> <b>CHAPEL HILL, NC 27514</b>				<b>WALL SECTION</b> 		<b>INTERIOR ELEVATION</b> 		<b>DETAIL SECTION</b> 	
				<b>CEILING HEIGHT</b> 		<b>INTERIOR WALL TYPE</b> 		<b>DOOR NUMBER</b> 	
				<b>ROOM NAME &amp; NUMBER</b> 		<b>FLOOR TRANSITION</b> 		<b>WINDOW NUMBER</b> 	
				<b>INTERIOR ELEVATION</b> 		<b>BASE</b> 		<b>COLUMN BUBBLE</b> 	
				<b>WALL SECTION</b> 		<b>CEILING HEIGHT</b> 		<b>DOOR NUMBER</b> 	
				<b>INTERIOR ELEVATION</b> 		<b>INTERIOR WALL TYPE</b> 		<b>DOOR NUMBER</b> 	
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				<b>INTERIOR ELEVATION</b> 		<b>INTERIOR WALL TYPE</b> <img alt			

**2018 APPENDIX B**  
**BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**  
**(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**  
 (Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: UNC VENABLE HALL LOWER LEVEL UPFIT SCO # 24-28389-01A  
 Address: VENABLE HALL, GROUND FLOOR, 101 SOUTH ROAD, CHAPEL HILL, NC Zip Code 27514  
 Owner/Authorized Agent: CHRIS BOZZELLI Phone # ( 919 ) 962 - 9048 E-Mail bozzelli@email.unc.edu  
 Owned By:  City/County  Private  State  
 Code Enforcement Jurisdiction:  City  County  State

**CONTACT:**  
 DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL  
 Architectural Notch Design, PLLC Jose Noya 15566 (919) 260-5709 jose@notchdesign.us  
 Civil  
 Electrical McKim and Creed Jesse C. Alonzo 053121 (919) 233-8091 JAlonzo@mckimreed.com  
 Fire Alarm McKim and Creed Jesse C. Alonzo 053121 (919) 233-8091 JAlonzo@mckimreed.com  
 Plumbing McKim and Creed Mitchell A. Brown, PE 019692 (919) 233-8091 MBrown@mckimreed.com  
 Mechanical McKim and Creed Mitchell A. Brown, PE 019692 (919) 233-8091 MBrown@mckimreed.com  
 Sprinkler-Standpipe McKim and Creed Mitchell A. Brown, PE 019692 (919) 233-8091 MBrown@mckimreed.com  
 Structural  
 Retaining Walls >5' High  
 Other  
 ("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

**2018 NC BUILDING CODE:**  New Building  Addition  Renovation  
 1st Time Interior Completion  
 Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements  
 Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

**2018 NC EXISTING BUILDING CODE:** EXISTING:  Prescriptive  Repair  Chapter 14  
 Alteration:  Level I  Level II  Level III  
 Historic Property  Change of Use

**CONSTRUCTED:** (date) 2011 **CURRENT OCCUPANCY(S) (Ch. 3):** (B) - Business  
**RENOVATED:** (date)  **PROPOSED OCCUPANCY(S) (Ch. 3):** (B) - Business

**RISK CATEGORY (Table 1604.5):** Current:  I  II  III  IV  
 Proposed:  I  II  III  IV

**BASIC BUILDING DATA**  
 Construction Type:  I-A  II-A  III-A  IV  V-A  
 (check all that apply)  I-B  II-B  III-B  V-B  
 Sprinklers:  No  Partial  Yes  NFPA 13  NFPA 13R  NFPA 13D  
 Standpipes:  No  Yes Class  I  II  III  Wet  Dry  
 Fire District:  No  Yes Flood Hazard Area:  No  Yes  
 Special Inspections Required:  No  Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Building Height (feet): 88.6  
 Number of Stories: 6  
 Mezzanine: No  
 High Rise: Yes

**SEISMIC DESIGN CATEGORY= B**

Gross building area: 160,458 SF  
 Area of work: 4,864 SF

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
Penthouse	15,9332	0	15,9332
Floor 4	25,780	0	25,780
Floor 3	27,952	0	27,952
Floor 2	27,867	0	27,867
Floor 1	29,856	0	29,856
Floor G	33,071	0	33,071
<b>TOTAL</b>	<b>160,458</b>	<b>0</b>	<b>160,458</b>

**SEE A-002 FOR OCCUPANT LOAD CALCULATIONS**

FIRE PROTECTION REQUIREMENTS						
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	Sheet # for rated penetration
Structural Frame, including columns, girders, trusses		2-Hr	1-Hr roof only (601 "a")	No new structural frame construction		
Bearing Walls		2-Hr		No new bearing wall construction		
Exterior		2-Hr				
North		2-Hr				
East		2-Hr				
West		2-Hr				
South		2-Hr				
Interior		2-Hr		No new bearing wall construction		
Nonbearing Walls and Partitions		0-Hr		No new rated wall construction		
Exterior walls		0-Hr				
North		0-Hr				
East		0-Hr				
West		0-Hr				
South		0-Hr				
Interior walls and partitions		0-Hr		No new rated partition construction		
Floor Construction		2-Hr		No new floor construction		
Including supporting beams and joists		2-Hr				
Floor/Ceiling Assembly		2-Hr				
Columns Supporting Floors		2-Hr				
Roof Construction, including supporting beams and joists		1-Hr		No new roof construction		
Roof/Ceiling Assembly		1-Hr				
Columns Supporting Roof		1-Hr				
Shaft Enclosures - Exit		2-Hr				
Shaft Enclosures - Other		2-Hr		No new shaft construction		
Corridor Separation		1-Hr	0 (1020.1 "c")	N/A	N/A	N/A
Occupancy/Fire Barrier Separation		N/A	N/A	N/A	N/A	N/A
Party/Fire Wall Separation		N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation		N/A	N/A	N/A	N/A	N/A
Smoke Partition		N/A	N/A	N/A	N/A	N/A
Tenant/Dwelling Unit/Sleeping Unit Separation		N/A	N/A	N/A	N/A	N/A
Incidental Use Separation		N/A	N/A	N/A	N/A	N/A

\* Indicate section number permitting reduction

**LIFE SAFETY SYSTEM REQUIREMENTS**

Emergency Lighting:  No  Yes  
 Exit Signs:  No  Yes  
 Fire Alarm:  No  Yes  
 Smoke Detection Systems:  No  Yes  Partial \_\_\_\_\_  
 Carbon Monoxide Detection:  No  Yes

**LIFE SAFETY PLAN REQUIREMENTS**

Life Safety Plan Sheet #: A002

- Fire and/or smoke rated wall locations (Chapter 7)
- Assumed and real property line locations (if not on the site plan) **(N/A to this interior renovation)**
- Exterior wall opening area with respect to distance to assumed property lines (705.8) **(N/A to this interior renovation)**
- Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) **(N/A to this interior renovation)**
- Occupant loads for each area **(see A-002)**
- Exit sign locations (1013) **(see 2E-200)**
- Exit access travel distances (1017) **(No exit travel path changes)**
- Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) **(No exit travel path changes)**
- Dead end lengths (1020.4) **(No exit travel path changes)**
- Clear exit widths for each exit door **(see A-002)**
- Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) **(see A-002)**
- Actual occupant load for each exit door **(see A-002)**
- A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation **(N/A)**
- Location of doors with panic hardware (1010.1.10) **(see A-002)**
- Location of doors with delayed egress locks and the amount of delay (1010.1.9.7) **(N/A)**
- Location of doors with electromagnetic egress locks (1010.1.9.9) **(N/A)**
- Location of doors equipped with hold-open devices **(N/A)**
- Location of emergency escape windows (1030) **(N/A)**
- The square footage of each fire area (202) **(N/A, no changes to building fire areas)**
- The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) **(N/A)**
- Note any code exceptions or table notes that may have been utilized regarding the items above

**ACCESSIBLE DWELLING UNITS**  
 (SECTION 1107)  
**(Not applicable)**

**ACCESSIBLE PARKING**  
 (SECTION 1106)  
**(N/A)**

**PLUMBING FIXTURE REQUIREMENTS**  
 (TABLE 2902.1)  
**(Unchanged)**

**SPECIAL APPROVALS**  
**(No special approvals required at this time)**

**ENERGY SUMMARY**  
**(Not applicable, no changes to thermal envelope by this interior renovation)**

**2018 APPENDIX B**  
**BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**

MECHANICAL DESIGN  
 (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

**(SEE M001)**

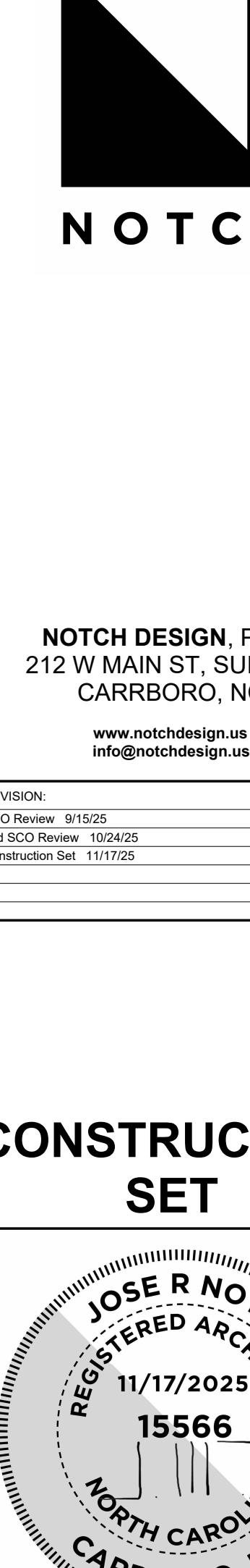
**2018 APPENDIX B**  
**BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**  
 ELECTRICAL DESIGN  
 (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

**(SEE E002)**



NOTCH DESIGN, PLLC  
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 CARRBORO, NC  
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 info@notchdesign.us

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 Notch Design



CLIENT NAME: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
 PROJ. NAME: UNC VENABLE HALL LOWER LEVEL UPFIT  
 LOCATION: 101 South Rd  
 CHAPEL HILL, NC 27514  
 ISSUE DATE: 5-21-25  
 JOB NO.: N092  
 SCO #: 24-28389-01A

Floor Designation	Code Equivalent Floor Level Relative to Grade per DOI, and Control Areas by Location			Percentage Maximum Allowable Storage Quantities of Hazardous Materials per Control Area in NCBC Tables 307.7(1) and (2)	Percentage Maximum Allowable Use Quantities of Hazardous Materials per Control Area in NCBC Tables 307.7(1) and (2)
	Relationship to Grade	Control Areas per floor	Fire Barrier Rating (hrs)		
Ground Floor	1st below	3	1	1 hr	400% x 75% =300%
1st Floor	GRADE	4	1	1 hr	400% x 100% =400%
2nd Floor	2nd above	3	1	1 hr	400% x 75% =300%
3rd Floor	3rd above	2	1	1 hr	400% x 50% =200%
4th Floor	4th above	2	1	2 hrs	400% x 12.5% =200%
Penthouse	5th above	2	1	2 hrs	400% x 12.5% =200%

THIS TABLE SHOWS THE CONTROL AREAS PROVIDED IN THE EXISTING BUILDING.

THIS TABLE WAS EXTRACTED FROM THE PROJECT "PHYSICAL SCIENCE BUILDING SCO ID# 00-06097-03C", PREVIOUSLY REVIEWED AND APPROVED BY SCO IN 2011

THE AGGREGATE QUANTITY OF CHEMICALS WILL NOT EXCEED THE QUANTITIES ALLOWED PER TABLES 307.1(1) AND 307.1.2(2)

UNC WILL ALSO COMPLY WITH OSHA REGULATORY SAFETY GUIDELINES AND UNC'S LABORATORY SAFETY MANUAL.

A001  
 APPENDIX B



NOTCH DESIGN, PLLC  
212 W MAIN ST, SUITE E,  
CARRBORO, NC

www.notchdesign.us  
info@notchdesign.us

REVISION:  
SCO Review 9/15/25  
2nd SCO Review 10/24/25  
Construction Set 11/17/25

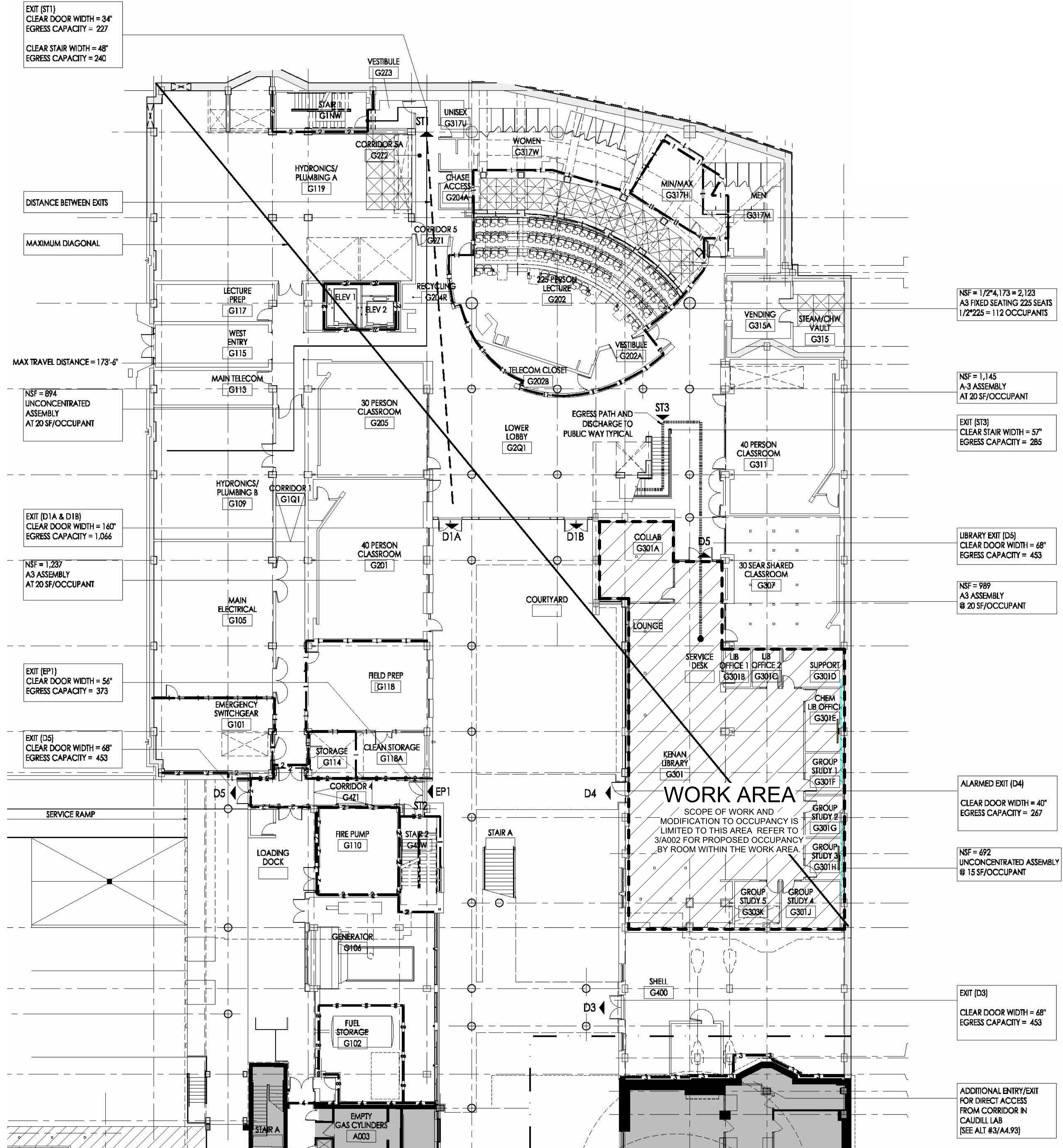
## CONSTRUCTION SET



CLIENT NAME: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
PRO. NAME: UNC VENABLE HALL LOWER LEVEL UPGRADE  
LOCATION: 101 South Rd, CHAPEL HILL, NC 27514  
ISSUE DATE: 5-21-25  
JOB NO.: N092  
SCO # 24-28389-01A

A002

LIFE SAFETY &  
OCCUPANT LOAD



## OCCUPANT LOAD TOTALS

2011 AS-BUILT DRAWINGS OCCUPANT LOAD CALCULATIONS IN BLACK  
2025 UPDATED OCCUPANT LOAD CALCULATIONS IN RED

MAIN GSF = 29,267

A3 ASSEMBLY = 4,265 sf @ 20 SF/OCUPANT = 213 OCCUPANTS

CONCENTRATED ASSEMBLY = 1,152 sf @ 7 SF/OCUPANT = 165 OCCUPANTS

A3 FIXED SEATING = 2,123 sf = 1/2\*225 = 112 OCCUPANTS

MECHANICAL ROOMS = 8,957 sf @ 300 SF/OCUPANT = 30 OCCUPANTS

BUSINESS GROUP B OCCUPANCY = (GSF - ASSEMBLY) = 5,515 sf @ 100 SF/OCUPANT = 95 OCCUPANTS

MAIN OCCUPANT LOAD = 615

LIBRARY GSF = 4,864

UNCONCENTRATED ASSEMBLY = 1,079 sf @ 15 SF/OCUPANT = 72 OCCUPANTS

READING ROOM = 654 sf @ 50 SF/OCUPANT = 13 OCCUPANTS

BUSINESS GROUP B OCCUPANCY = (GSF - ASSEMBLY) = 1/2\*225 = 100 SF/OCUPANT = 31 OCCUPANTS

LIBRARY OCCUPANT LOAD = 116

TOTAL OCCUPANT LOAD = 731

TOTAL EGRESS CAPACITY = 2413

MAXIMUM DIAGONAL = 280'-0"

DISTANCE BETWEEN EXITS = 98'-0"

98'-0" > 1/3 (280'-0") = 93'-4"

MAXIMUM TRAVEL DISTANCE ALLOWABLE = 300'

ACTUAL MAX TRAVEL DISTANCE = 173'-6"

LAB GSF = 2,195

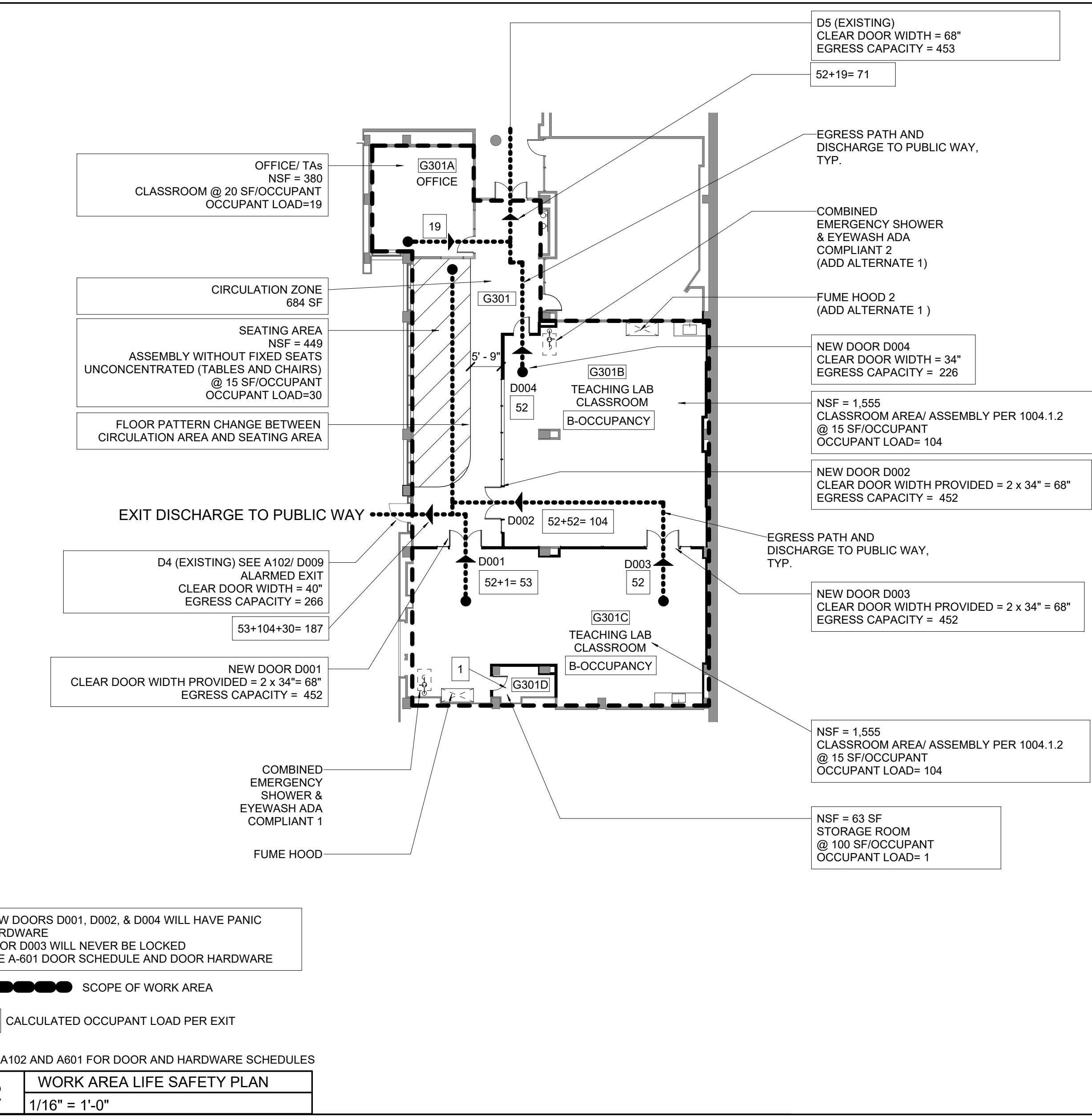
BUSINESS GROUP B OCCUPANCY = 2,195 sf @ 100 SF/OCUPANT = 22 OCCUPANTS

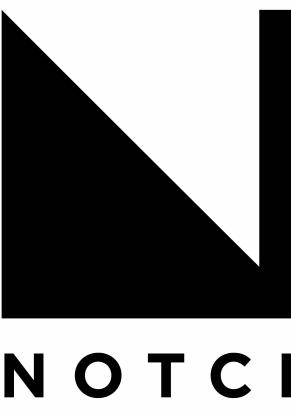
EXIT CAPACITY (D3) = 453

MAXIMUM DIAGONAL = 71'-0"

DISTANCE BETWEEN EXITS = 40'

40' > 1/3 (71'-0") = 35'-6"





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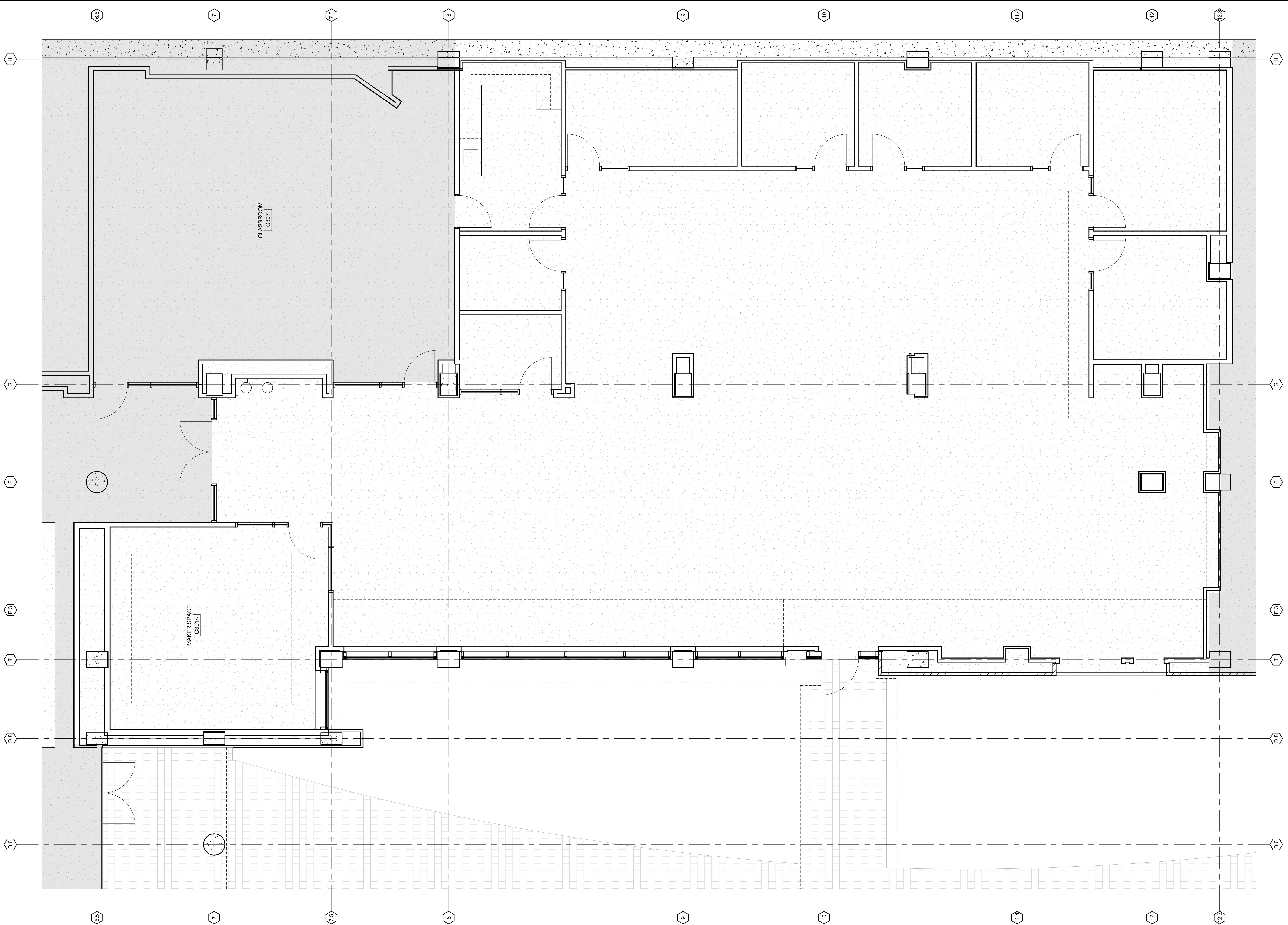
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CHAPEL HILL, NC 27514

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JOB NO.: N092  
SCO # 24-28389-01A

**A100**  
GROUND FLOOR  
EXISTING PLAN

1 GROUND FLOOR PLAN EXISTING



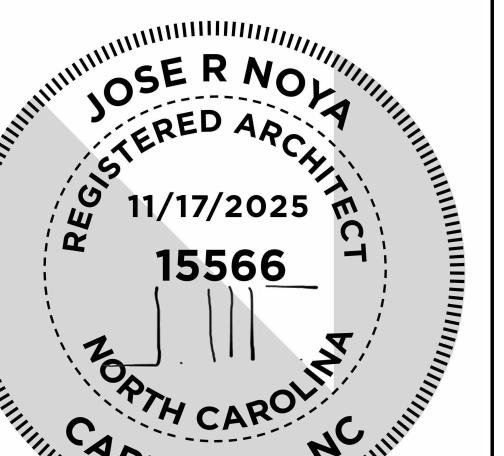


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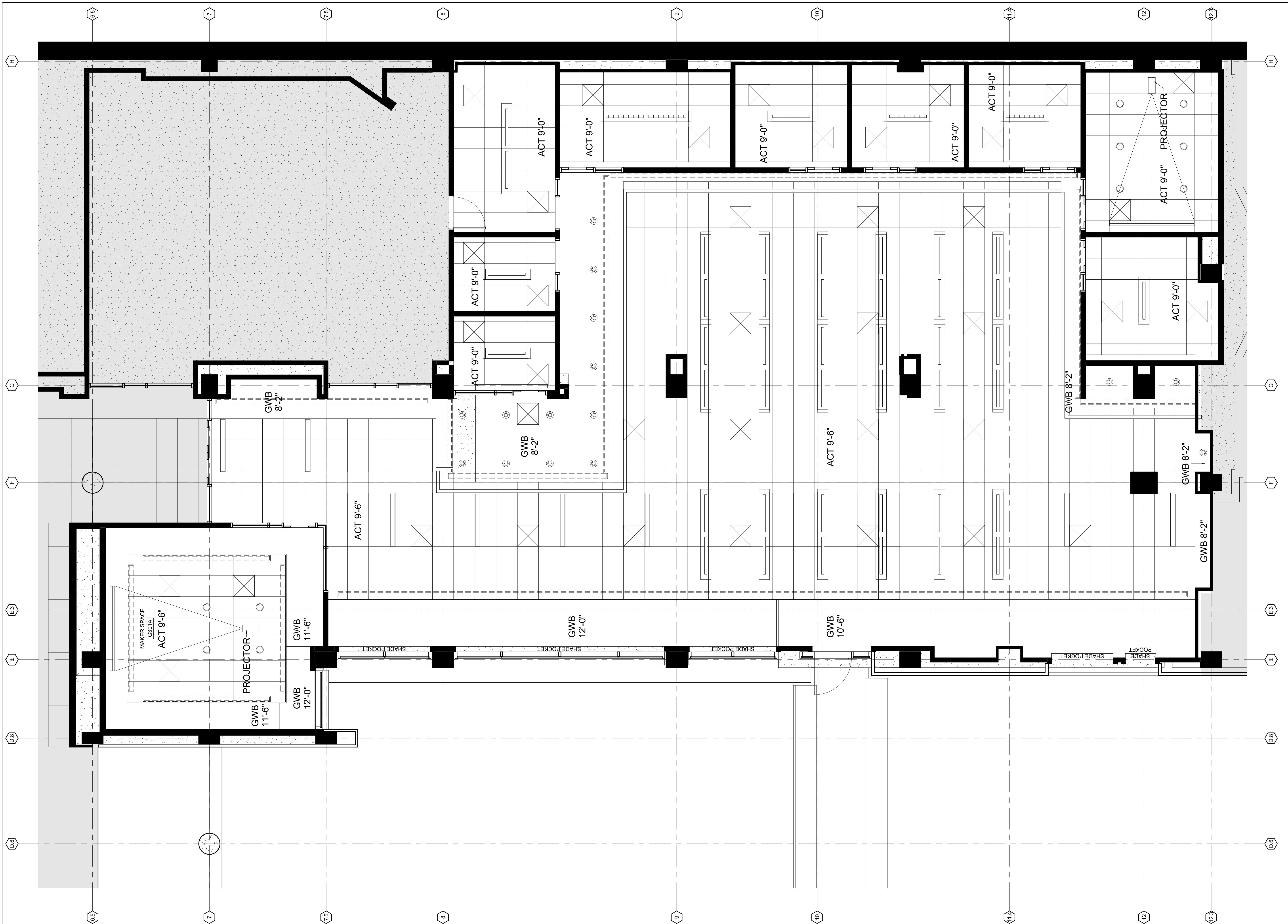
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LOCATION: 101 South Rd  
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JOB NO.: N092  
SCO # 24-28389-01A

**A100.1**

GROUND FLOOR  
EXISTING RCP

1 GROUND FLOOR EXISTING RCP







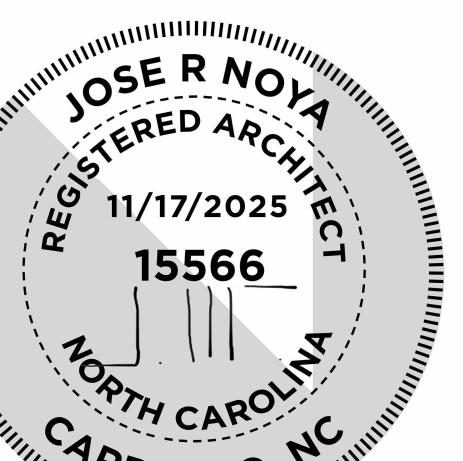


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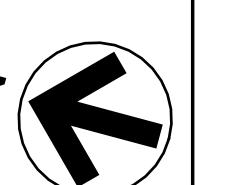
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THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

UNC VENABLE HALL LOWER LEVEL

101 South Rd

CHASE HILL, NC 27514



DIMENSIONS TO FINISHED FACE U.N.O.

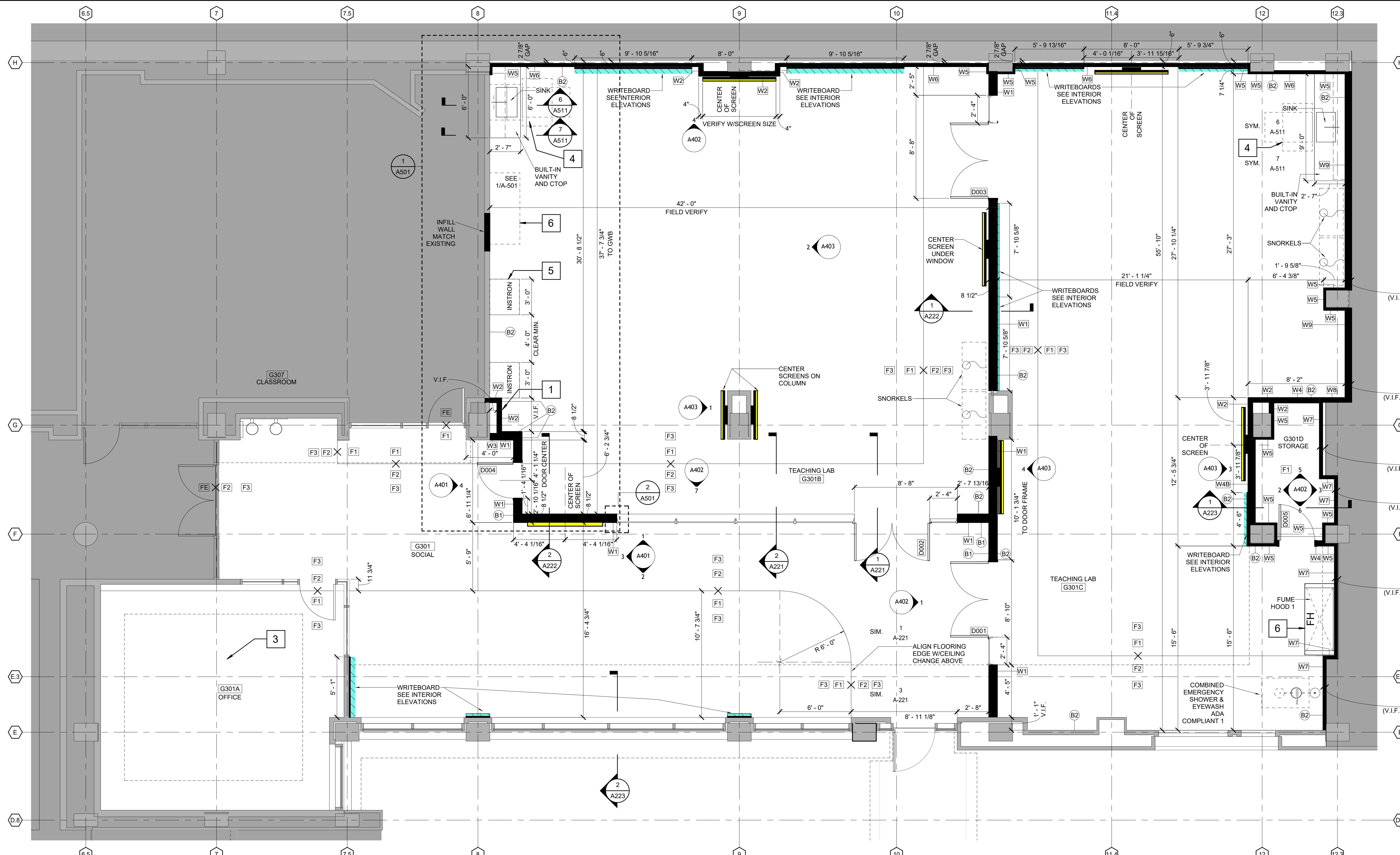
1	NEW WORK PLAN
	1/4" = 1'-0"

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A102

NEW WORK PLAN



### FLOOR PLAN GENERAL NOTES

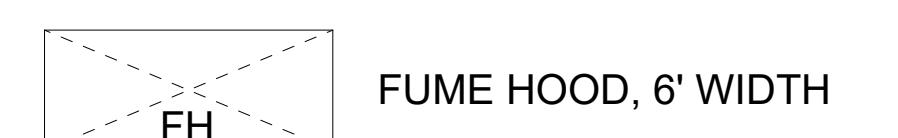
- ALL EXISTING CONDITIONS AND DIMENSIONS TO BE FIELD VERIFIED
- SEE A-601 FOR INTERIOR WALL TYPES
- SEE A-601 FOR WINDOW SCHEDULE
- SEE A-601 FOR DOOR SCHEDULE
- SEE A-601 FOR FLOOR AND WALL FINISH SCHEDULE
- SEE A-601 FOR BASE SCHEDULE
- REFER TO 3A-501 FOR FLOORING PATTERN
- ALL EXISTING AND NEW PARTITION AND CARRIERS WALLS WITHIN THE OPEN-CEILING AREAS TO BE EXTENDED AND FINISHED UP TO THE BOTTOM OF STRUCTURAL SLAB ABOVE.
- FURNITURE SHOWN FOR INFORMATIONAL PURPOSES ONLY, FF&E NOT IN SCOPE OF THIS PLAN
- ALL EXISTING WALLS TO RECEIVE NEW PAINT
- OWNER TO PROVIDE SPECS FOR DISPLAY SCREENS. COORDINATE MOUNTING LOCATIONS WITH ARCHITECT AND POWER AND DATA NEEDS WITH ARCHITECT AND MEP ENGINEER. DISPLAY SCREENS OR OTHER OBJECTS SHOULD NOT ENCRAGE MORE THAN 4 INCHES FROM ADA COMPLIANCE
- PROVIDE BLOCKING AS REQD. FOR DISPLAY SCREENS, WRITEBOARDS AND ANY OTHER WALL-MOUNTED ITEMS
- FUME HOOD PROVIDED BY OWNER. CONTRACTOR INSTALLED. MODEL: CONTINUOUS SPEED KEWAUNEE TRUVIEW
- SNORKELS AND INSTRUMENTS ARE FF&E ITEMS OWNER PROVIDED. SHOWING HERE FOR REFERENCE
- INTERIOR AND EXTERIOR SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL HAVE BOTH THE NAME AND NUMBER IN RAISED LETTERS AND BRAILLE THAT COMPLIES WITH THE CURRENT ACCESSIBILITY CODES.
- A MINIMUM OF ONE EACH TYPE OF EQUIPMENT PROVIDED IN EACH LABORATORY MUST BE ACCESSIBLE
- A MINIMUM OF ONE EACH TYPE OF STORAGE PROVIDED IN EACH LABORATORY MUST BE ACCESSIBLE
- PROVIDE ACCESSIBLE FURNITURE AS REQUIRED BY NCBC CHAPTER 11 AND ICC A117.1

### PLAN KEYED NOTES

- 1 FURR AS NEEDED TO ACCOMMODATE NEW DRAIN LEADER ADJACENT TO COLUMN, REFER TO PLUMBING SANITARY GROUND PLAN (P111).
- 2 REVERSE SWING
- 3 PAINT EXISTING OFFICE'S WALLS AND BASEBOARDS TO MATCH G301 SOCIAL AND TEACHING LABS.
- 4 ADA COMPLIANT CLEAR FLOOR SPACE PROVIDED PER NCBC CHAPTER 11 AND ICC A117.1. SHOWN AS DASHED LINE
- 5 INSTRON MACHINE TO BE ADA COMPLIANT / ICC A117.1
- 6 HOOD MODEL: KEWAUNEE TRUVIEW SUPREME AIR, ADA COMPLIANT OPTION / ICC A117.1

### FLOOR PLAN LEGEND

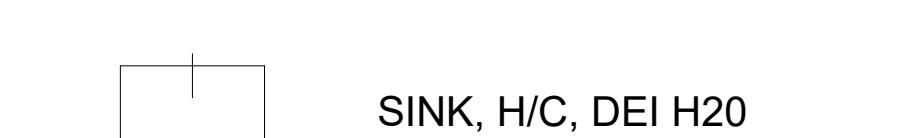
- EXISTING WALLS
- NEW WALLS
- DISPLAY SCREEN W/ OPTIONAL FLEXIBLE ARM, ADA COMPLIANT
- GLASS WRITABLE SURFACE
- INSTRON
- INSTRON TESTING MACHINE ON TABLE, 115" TOTAL HEAD CLEARANCE NEEDED



FUME HOOD, 6' WIDTH



SNORKEL WORK AREA  
4' WIDTH



COMBINED  
EYEWASH  
AND SHOWER  
ADA  
COMPLIANT



SINK, H/C, DEI H20



DIGITAL DISPLAY, FLUSH  
MOUNTED, ADA COMPLIANT



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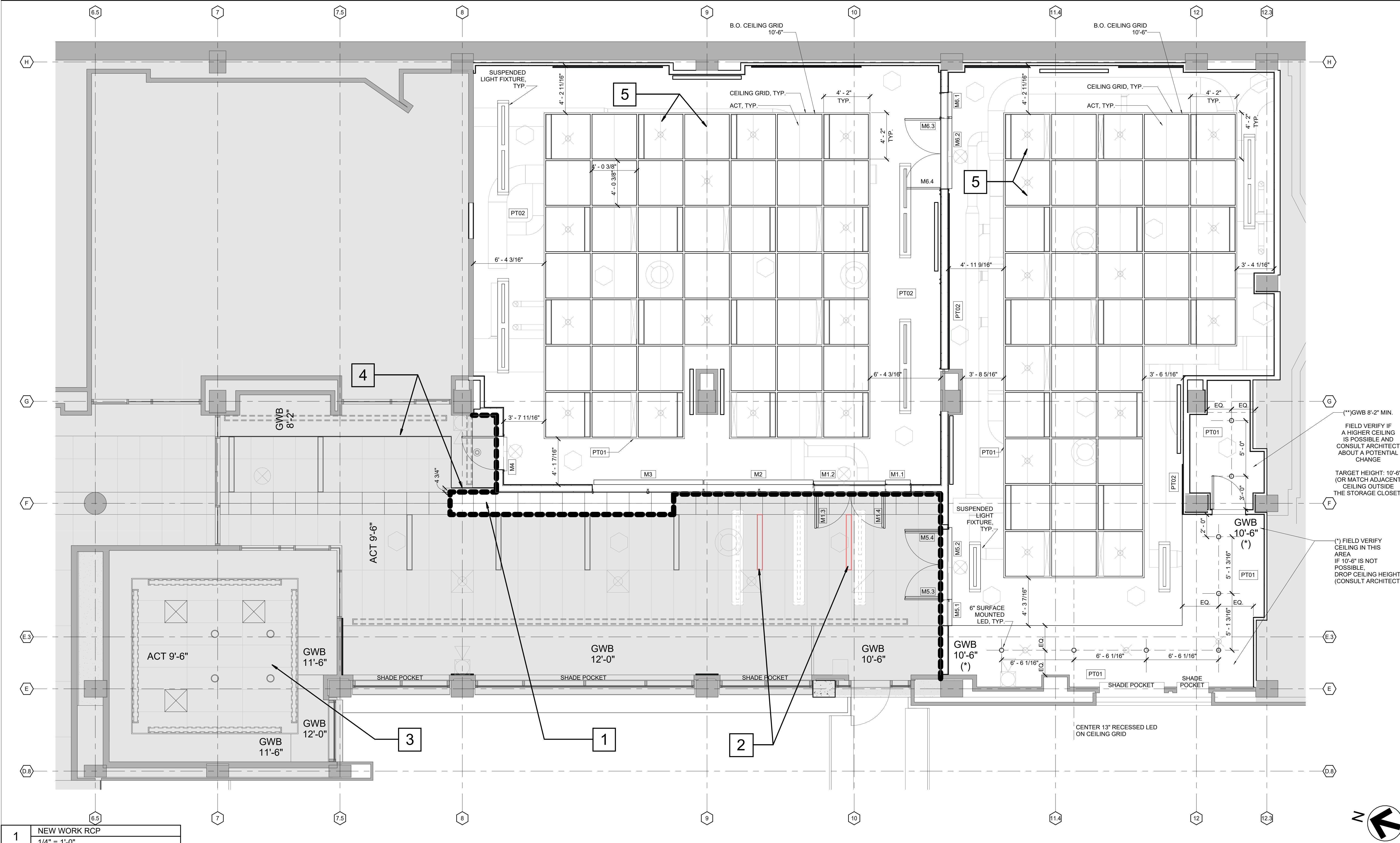
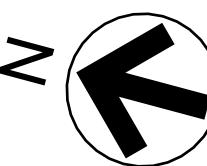
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1 NEW WORK RCP  
1/4" = 1'-0"

A102.1

NEW WORK RCP

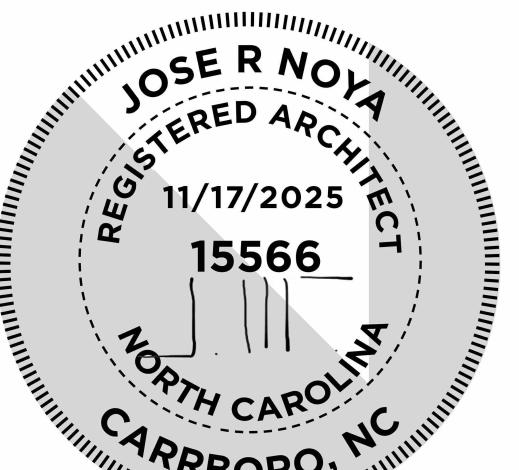


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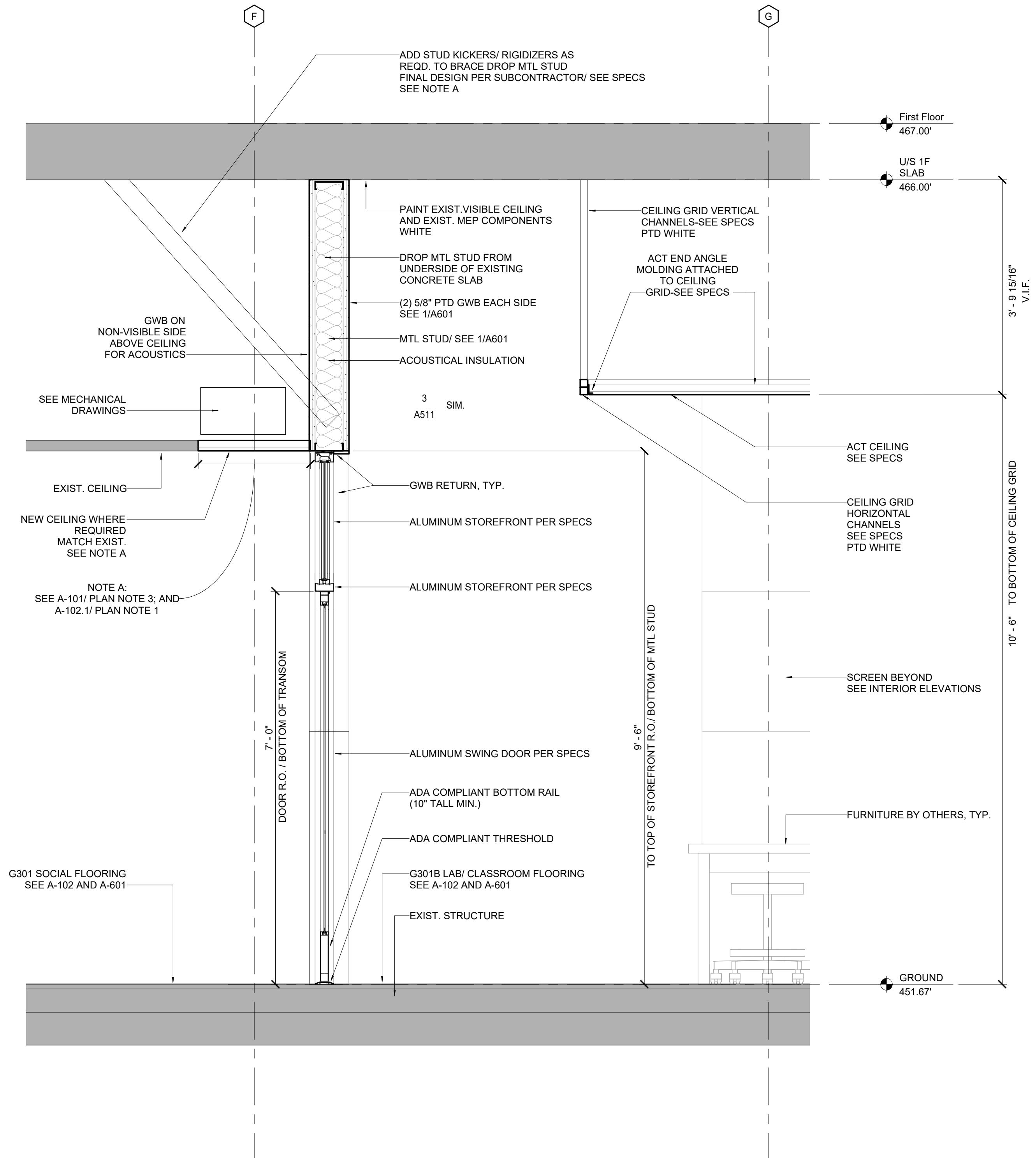
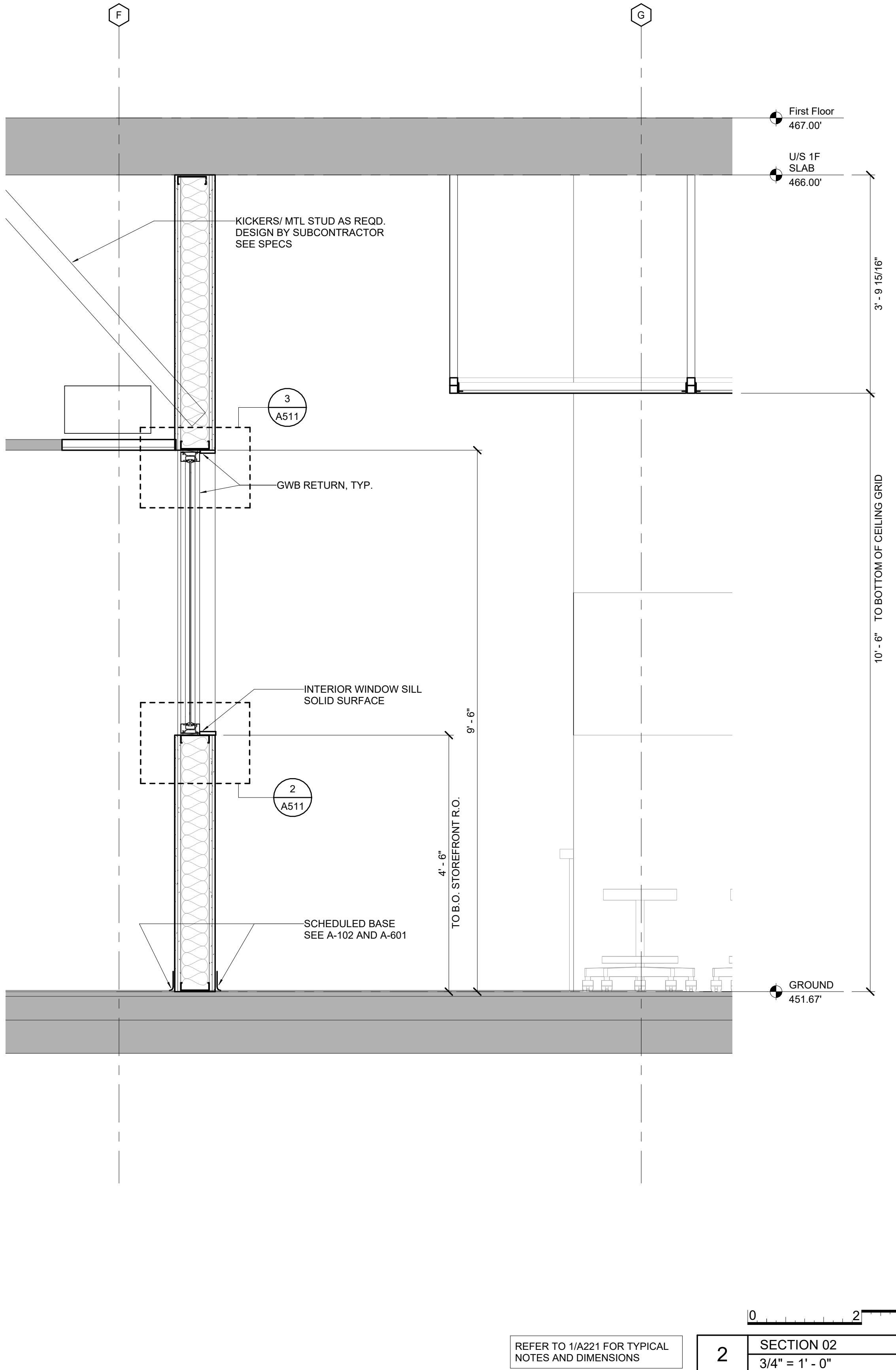
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A221

WALL SECTIONS 1



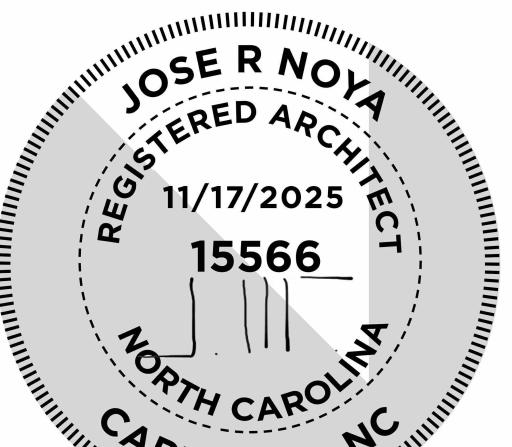


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CLIENT NAME  
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**CHAPEL**  
  
ISSUE DATE  
**5-21-25**  

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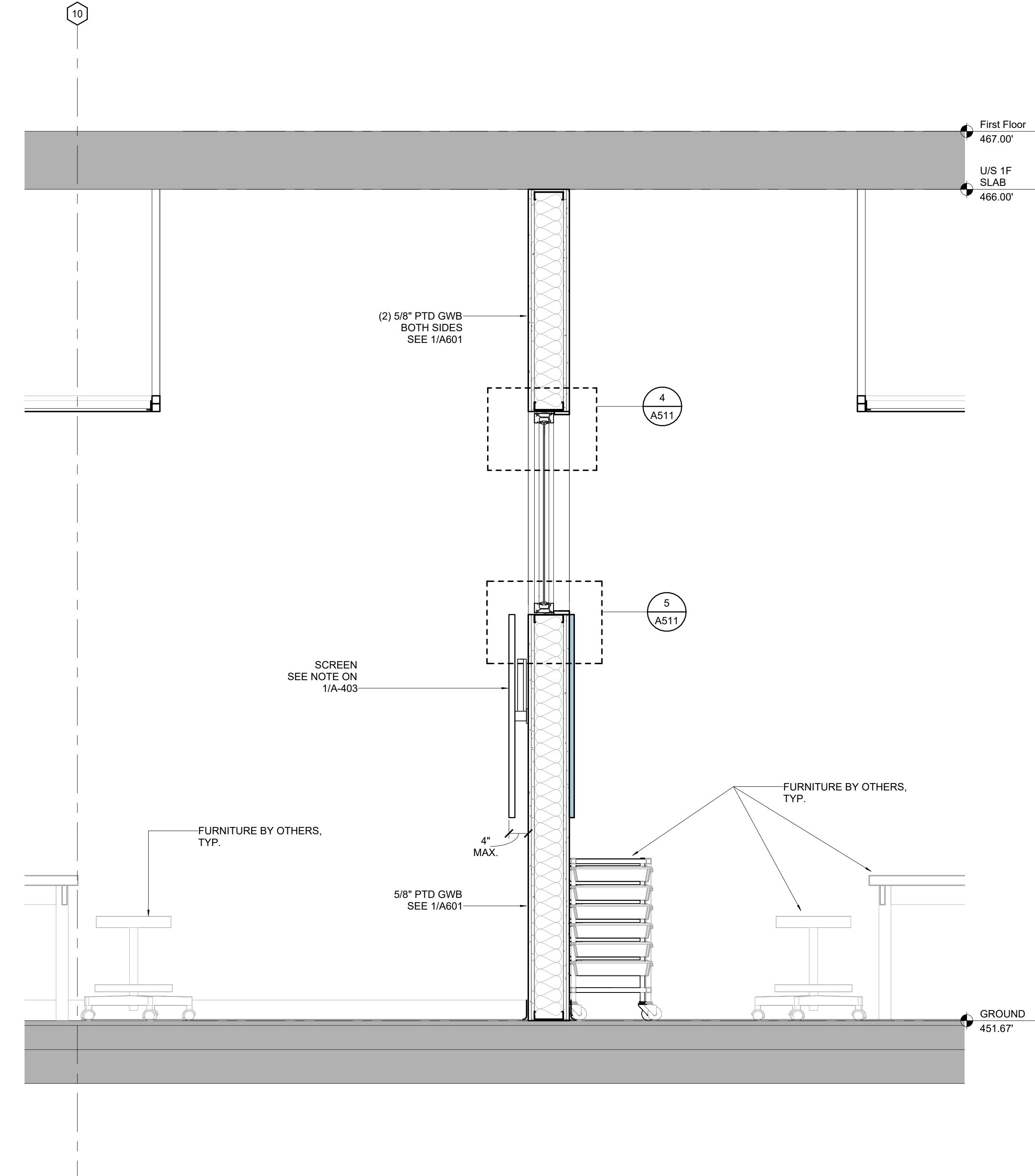
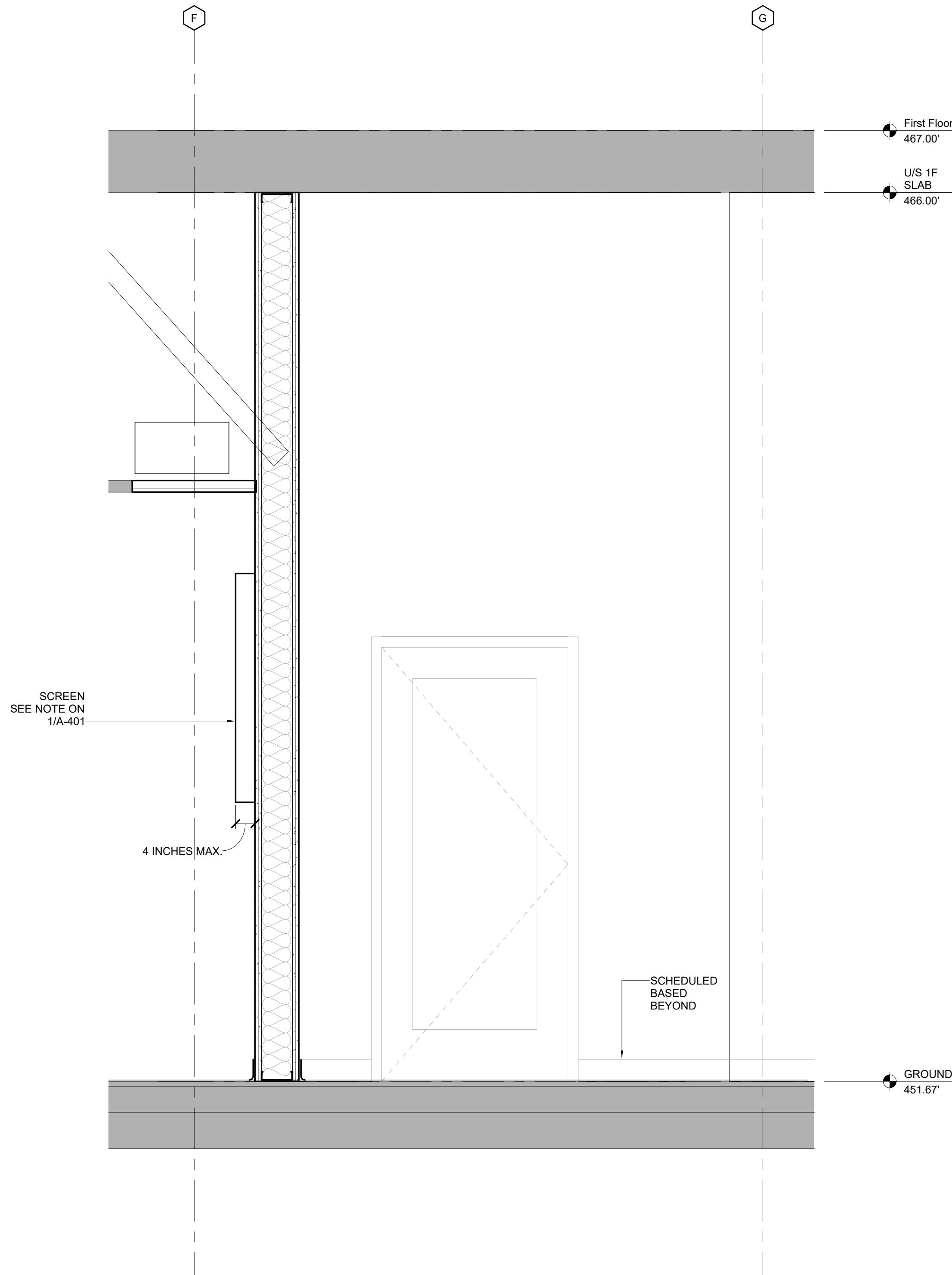
  
JOB. NO.  
**N092**  

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SCO # **24-28389-01A**

**A222**

## WALL SECTIONS 2



REFER TO 1 &2 /A221 FOR TYPICAL  
NOTES AND DIMENSIONS

2

## SECTION

03  
0"

REFER TO 1 & 2 /A221 FOR TYPICAL  
NOTES AND DIMENSIONS

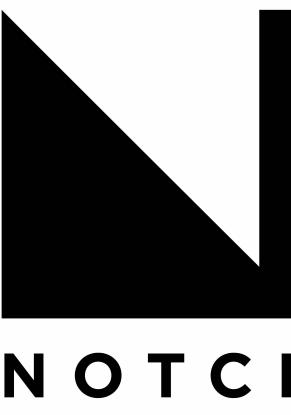
1

## SECTION

04  
- 0"

1

WALL SECTIONS 2

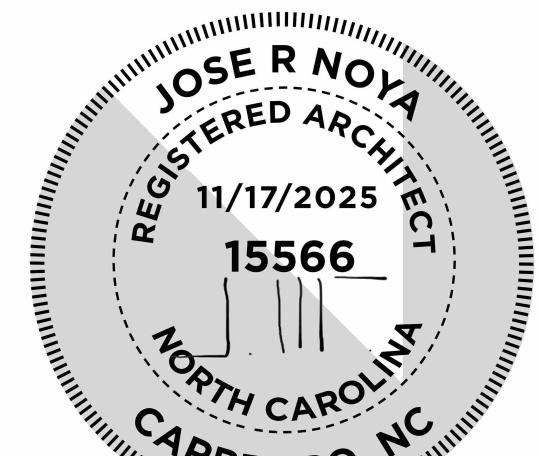


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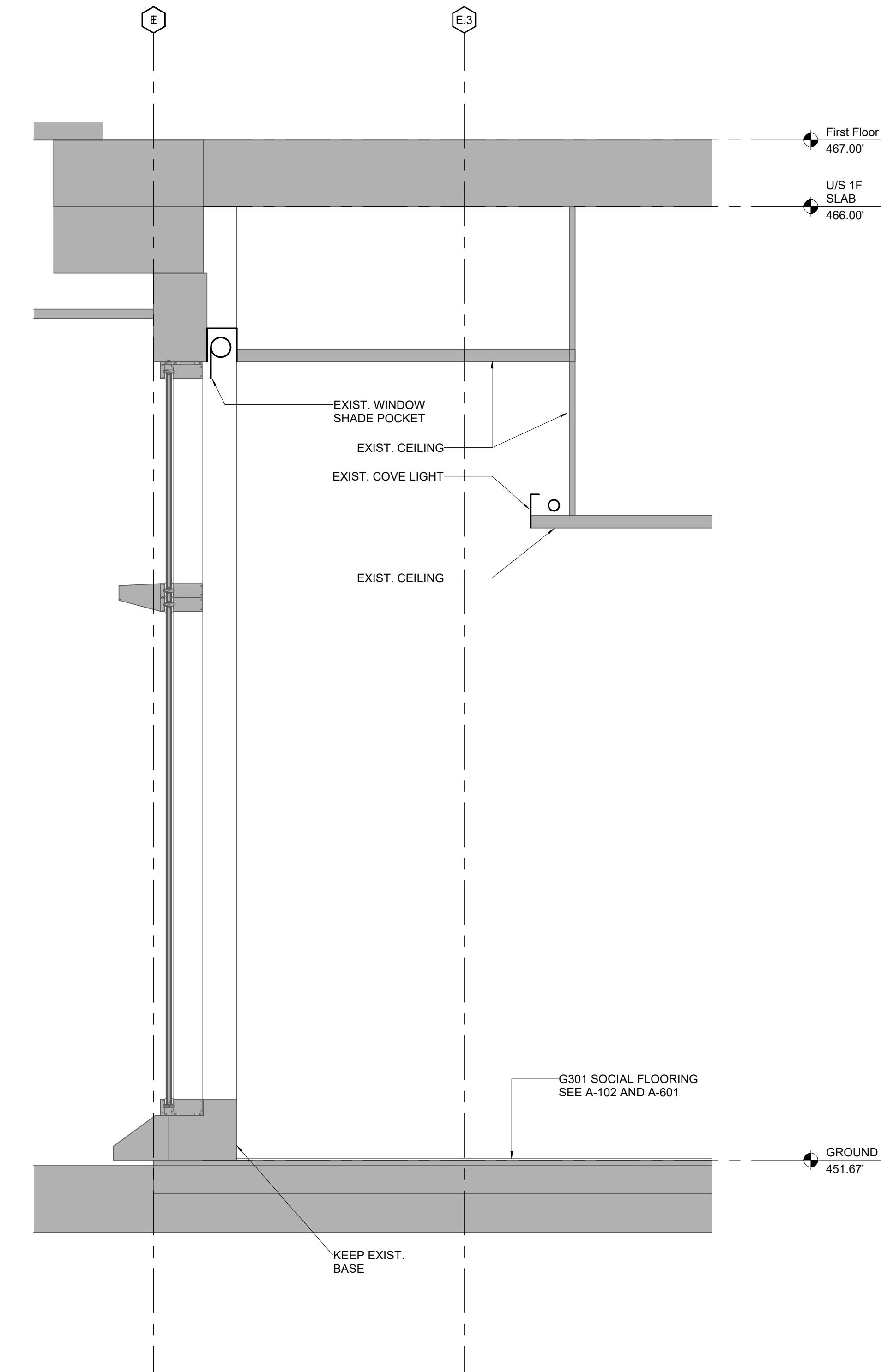
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## A223

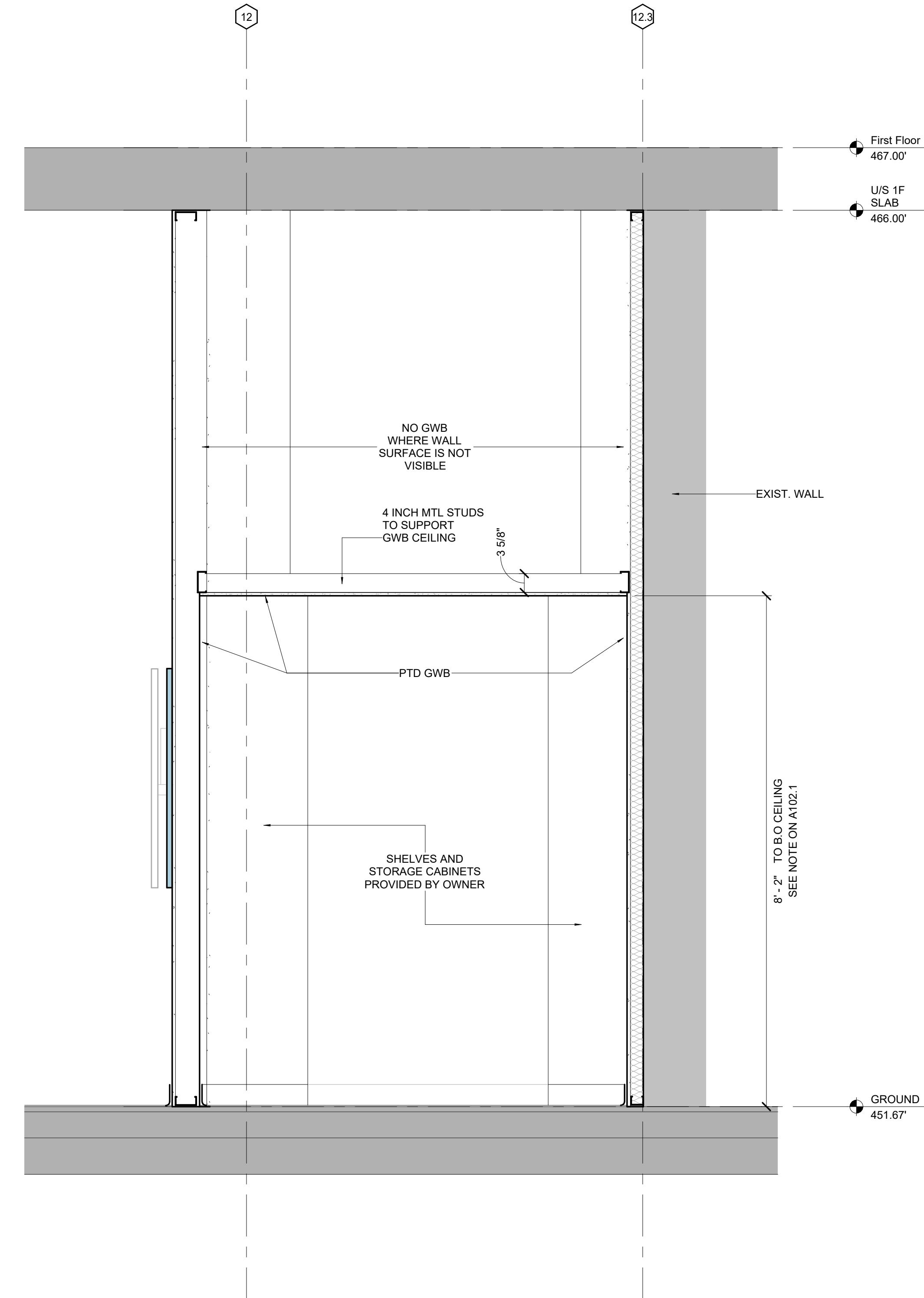
WALL SECTIONS 3



REFER TO 1/A221 FOR TYPICAL  
NOTES AND DIMENSIONS

2

SECTION 06  
3/4" = 1' - 0"



REFER TO 1/A221 FOR TYPICAL  
NOTES AND DIMENSIONS

1

SECTION 05  
3/4" = 1' - 0"

0

2

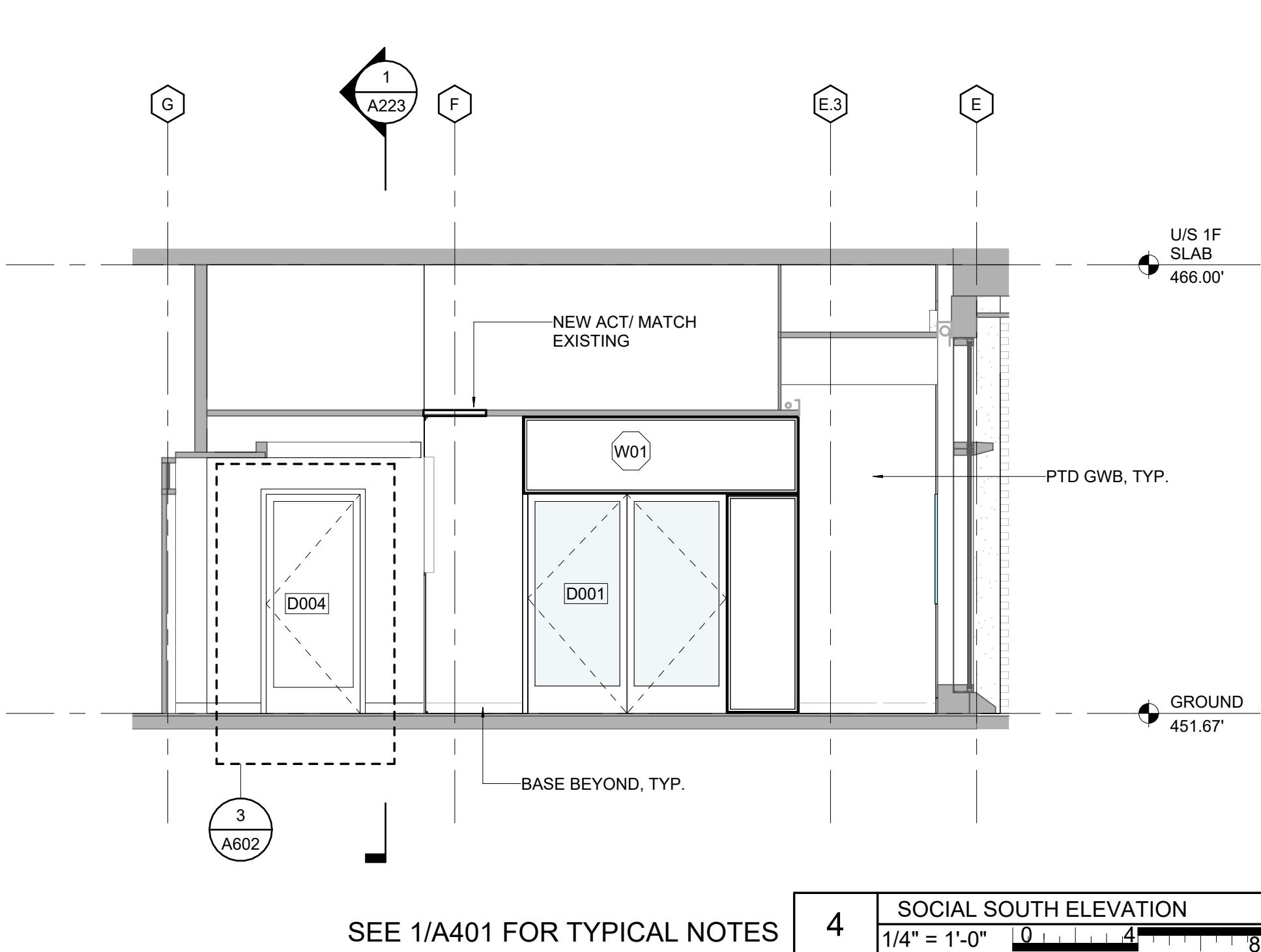
4FT



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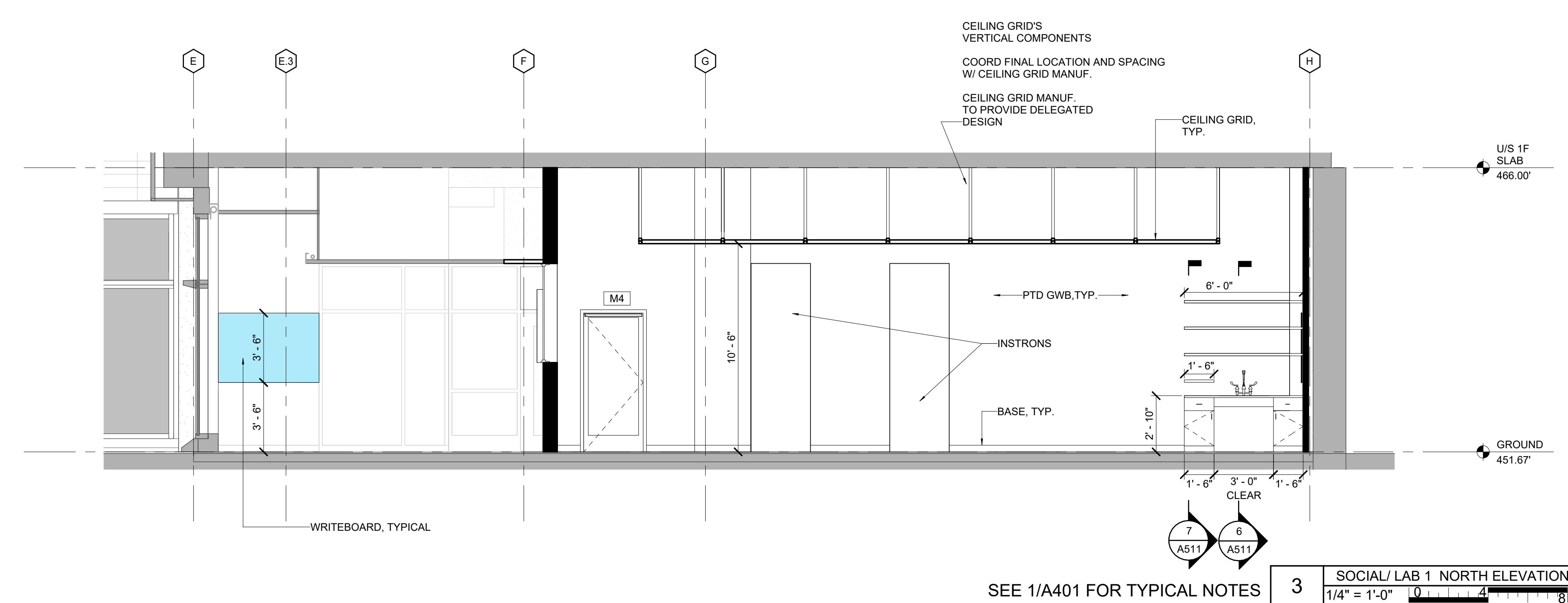


SEE 1/A401 FOR TYPICAL NOTES

4

SOCIAL SOUTH ELEVATION

1/4" = 1'-0" 0 1 2 3 4 5 6 7 8 FT



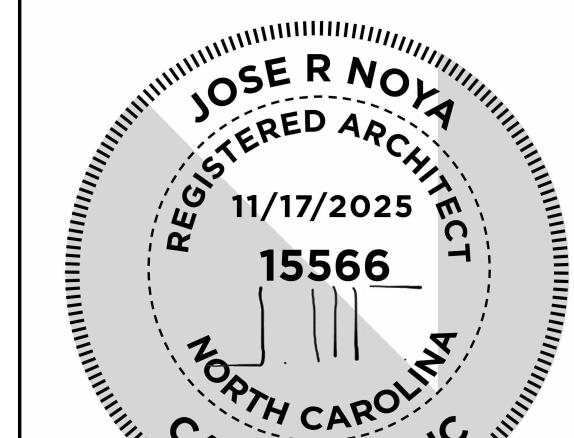
SEE 1/A401 FOR TYPICAL NOTES

3

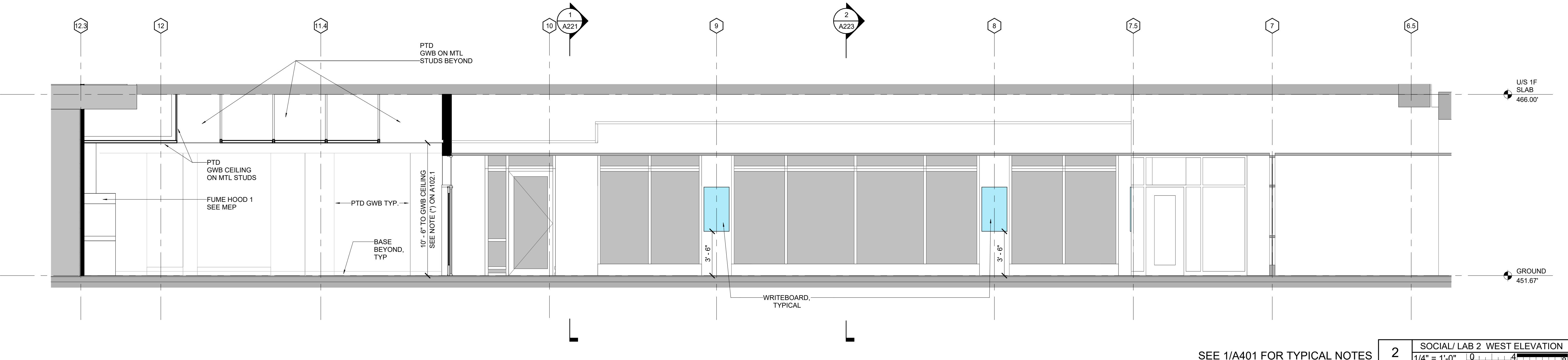
SOCIAL/LAB 1 NORTH ELEVATION

1/4" = 1'-0" 0 1 2 3 4 5 6 7 8 FT

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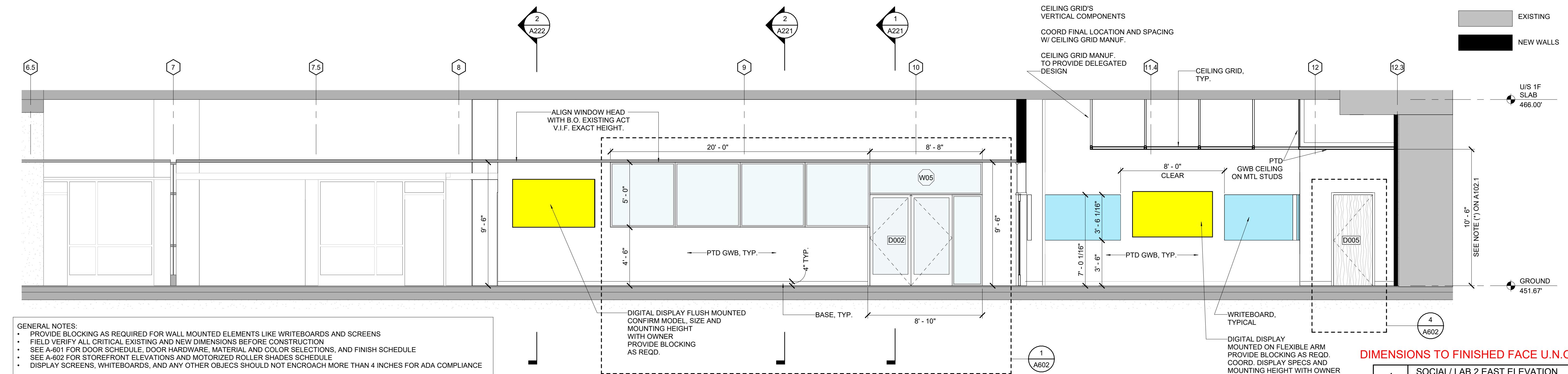


SEE 1/A401 FOR TYPICAL NOTES

2

SOCIAL/LAB 2 WEST ELEVATION

1/4" = 1'-0" 0 1 2 3 4 5 6 7 8 FT



GENERAL NOTES:  
• PROVIDE BLOCKING AS REQUIRED FOR WALL MOUNTED ELEMENTS LIKE WRITEBOARDS AND SCREENS  
• FIELD VERIFY ALL CRITICAL EXISTING AND NEW DIMENSIONS BEFORE CONSTRUCTION  
• SEE A-601 FOR DOOR SCHEDULE, DOOR HARDWARE, MATERIAL AND COLOR SELECTIONS, AND FINISH SCHEDULE  
• SEE A-602 FOR STOREFRONT ELEVATIONS AND MOTORIZED ROLLER SHADES SCHEDULE  
• DISPLAY SCREENS, WHITEBOARDS, AND ANY OTHER OBJECTS SHOULD NOT ENCROACH MORE THAN 4 INCHES FOR ADA COMPLIANCE

DIMENSIONS TO FINISHED FACE U.N.O.

1

SOCIAL/LAB 2 EAST ELEVATION

1/4" = 1'-0" 0 1 2 3 4 5 6 7 8 FT

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A401  
INTERIOR  
ELEVATIONS 1



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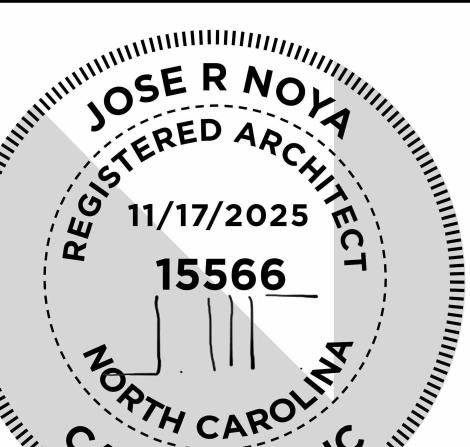
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SEE 1&2/A401 AND 1&6/A402 FOR TYPICAL NOTES 7 LAB2/LAB1/SOCIAL WEST ELEV.  
1/4" = 1'-0" 0 4 8

7

LAB2/LAB1/SOCIAL WEST ELEV.

# CONSTRUCTION SET



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Architectural cross-section diagram showing the following components and dimensions:

- Column 12.3 (left)
- Column 12 (right)
- U/S 1F SLAB (top slab)
- PTD GWB, TYP. (Typical Parapet Wall)
- BASE, TYP. (Typical Foundation Base)
- GROUND (bottom level)
- Vertical dimension: 466.00'

SEE 1/A401 & 2/A-402 FOR TYPICAL  
NOTE

6	STORAGE WEST
1/4" = 1'-0"	0 4 8

This architectural drawing shows a storage unit. The top horizontal beam is labeled "U/S SLA 466." The left vertical support is labeled "PTD GWB, TYP." The right vertical support is labeled "BASE, TYP." A callout arrow points to the base, labeled "GRC 451." The left vertical support has a small rectangular cutout. The central area is labeled "STORAGE CABINETS AND/ OR SHELVES BY OWNER." Two hexagonal callouts are present: one on the left labeled "12" and one on the right labeled "12.3".

SEE 1/A401 & 2/A-402 FOR TYP  
NC

5	STORAGE EAST	
	1/4" = 1'-0"      0      4	

This architectural cross-section diagram illustrates the vertical structure of a building facade. The diagram is divided into several horizontal and vertical sections, each labeled with a number:

- 8**: Located at the top left, above a vertical column.
- 9**: Located at the top center, above a vertical column.
- 10**: Located at the top right, above a vertical column.
- 11**: Located at the bottom center, below a vertical column.

The facade features a central vertical column with a horizontal band near the top. To the left of this column is a vertical column with a horizontal band near the bottom. The facade is divided into sections by vertical lines, and horizontal lines indicate different levels. A large blue rectangular area is labeled **WRITEBOARD** at the bottom. A yellow rectangular area is labeled **DIGITAL DISPLAY** at the bottom. Vertical dimensions are indicated on the right side:

- 3' - 6" (feet and inches)
- 3' - 6" (feet and inches)
- 7' - 0" (feet and inches)

11.4

12

12.3

First Floor  
U/S 1F  
467.00'  
SLAB

466.00'

7' - 0 1/16"

3' - 6 1/16"

3' - 6"

8' - 0" CLEAR

WRITEBOARD,  
TYPICAL

GROUND  
451.67'

SEE 1/A401 FOR TYPICAL NOTES

SEE 1/A4  
FOR TYPICAL NOTE

This architectural cross-section diagram illustrates a room's interior and exterior dimensions. The room's width is marked as 10' - 6". The exterior height is indicated as 10' - 6". The interior ceiling height is labeled as PTD GWB CEILING ON MTL STUDS. A note specifies PTD GWB, TYP. The room contains storage cabinets and shelves, which are to be installed by the owner. The base is also labeled as BASE, TYP. Reference points F, A223, and G are marked at the top. A note on the right side states SEE NOTE (\*\*\*) ON A-102.1.

PTD GWB CEILING  
ON MTL STUDS

PTD GWB, TYP.

STORAGE  
CABINETS  
AND/ OR  
SHELVES  
BY OWNER

BASE, TYP.

SEE NOTE (\*\*\*) ON A-102.1

SEE 1/A401 FOR TYPICAL

SEE A401 FOR GENERAL NOTES  
SFF 1 & 4/A401 FOR TYPICAL NOTES

1 1/4" = 1'-0" 1 1/4" 4 1/4" 6 1/4"

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# A402

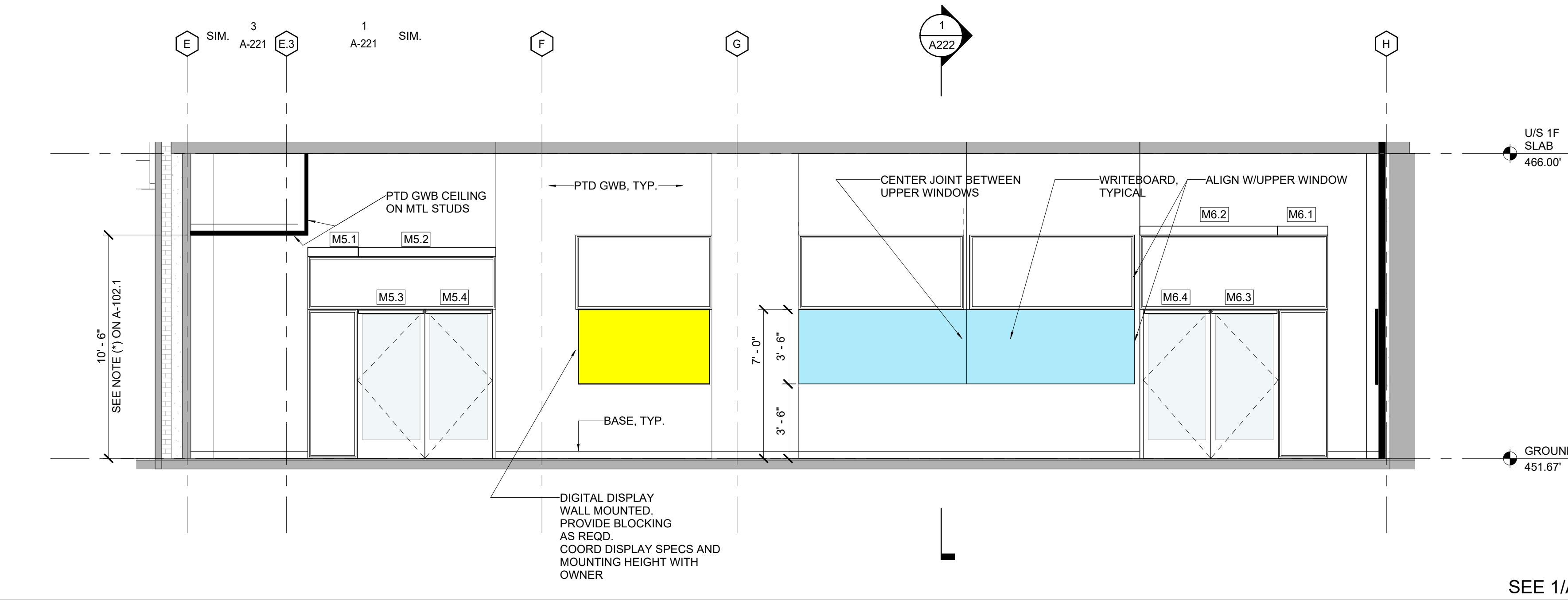
## INTERIOR ELEVATIONS 2



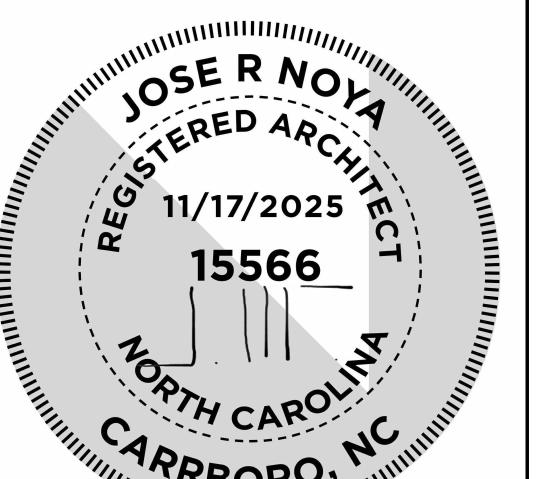
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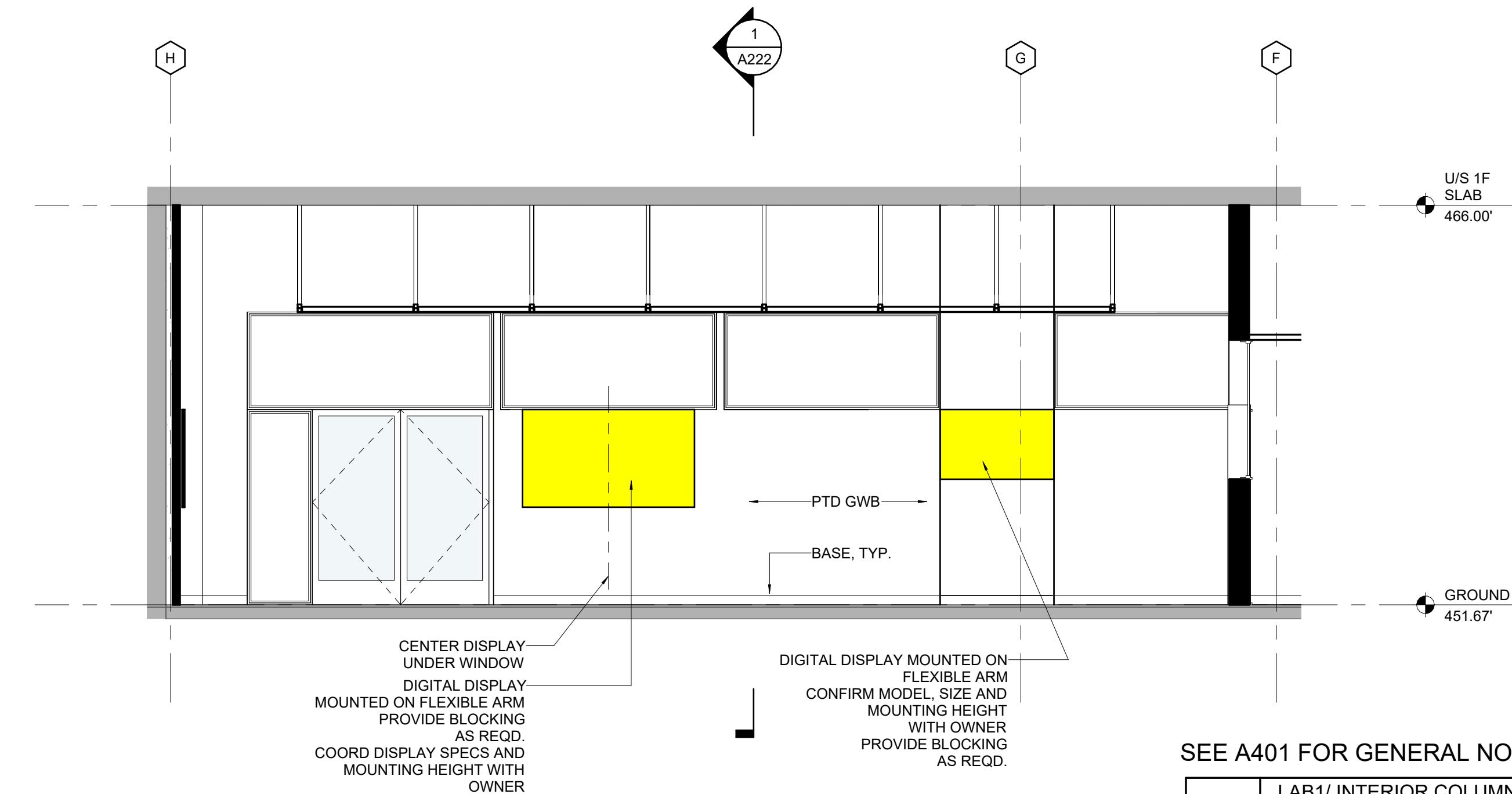
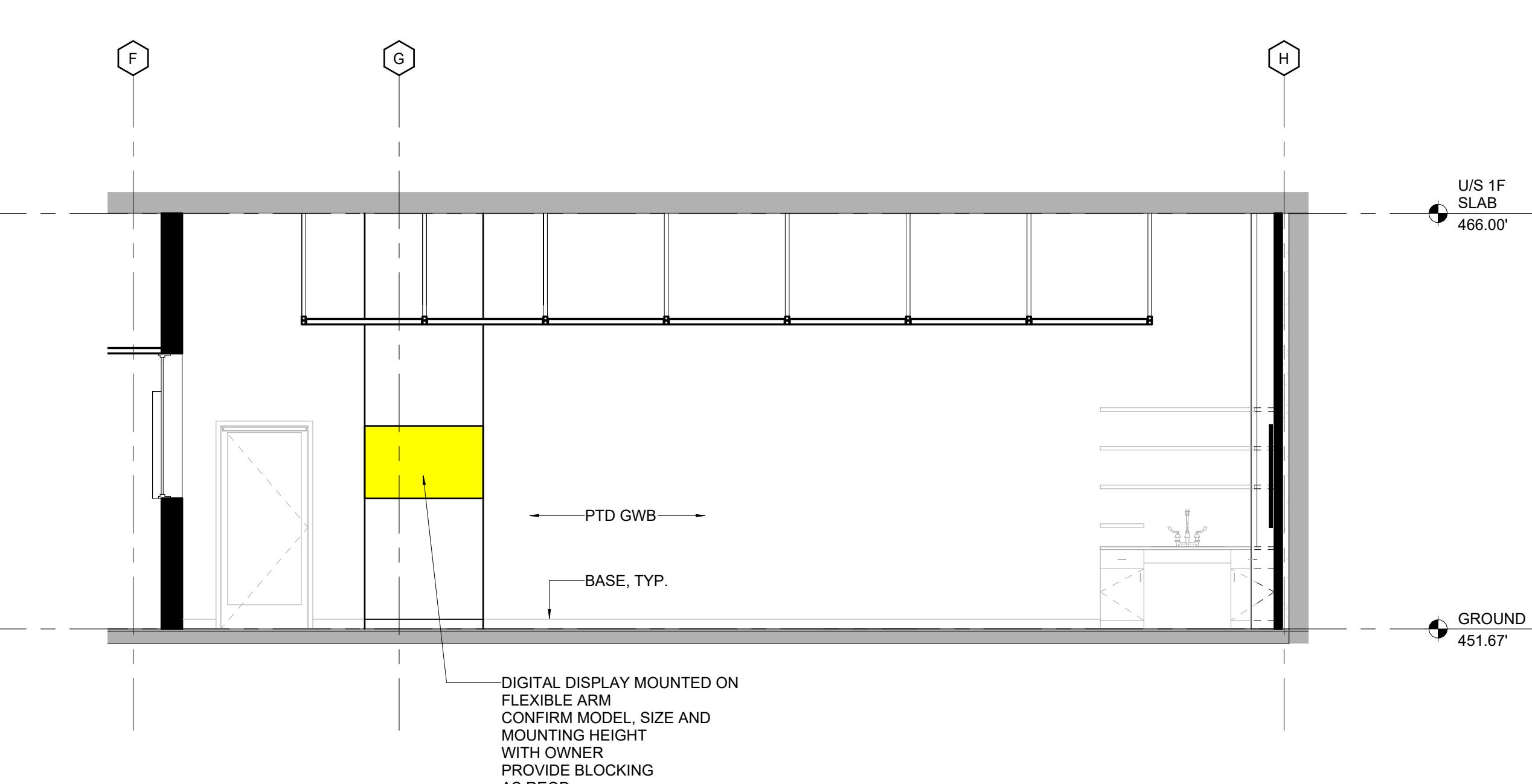
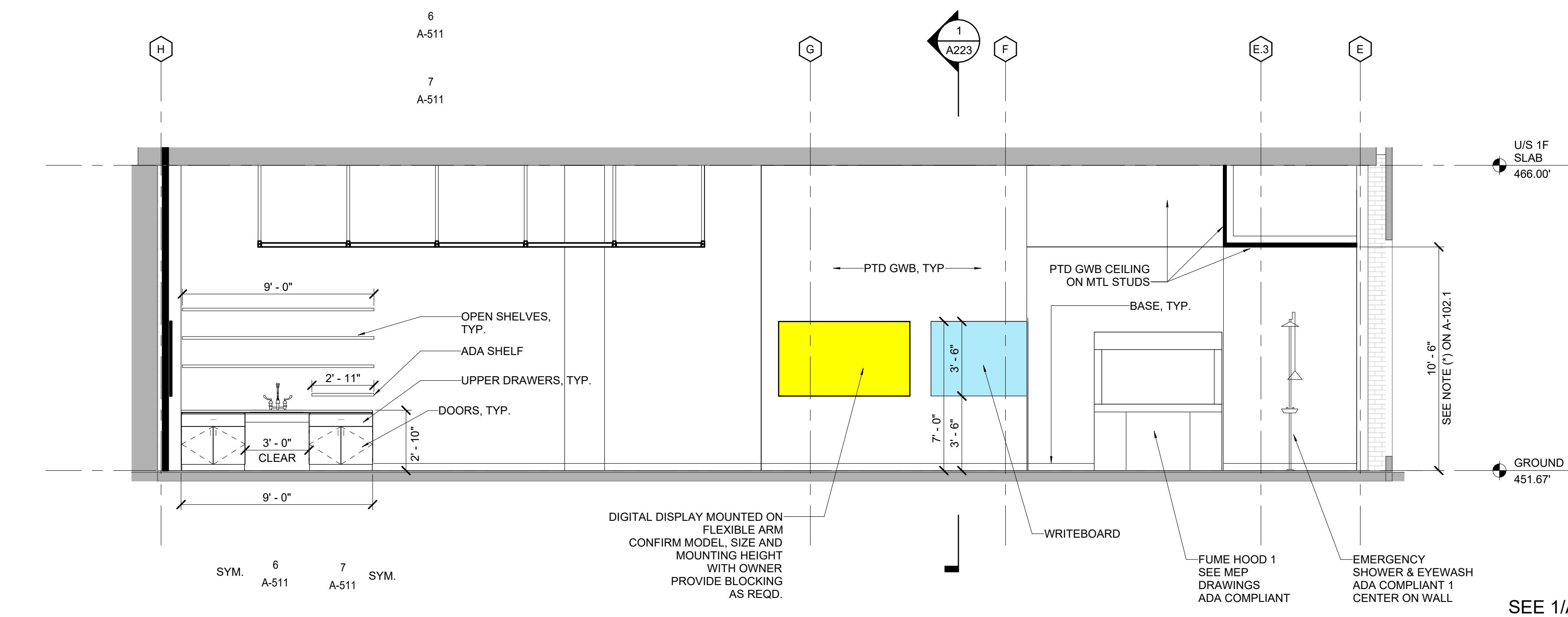
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A403

INTERIOR  
ELEVATIONS 3



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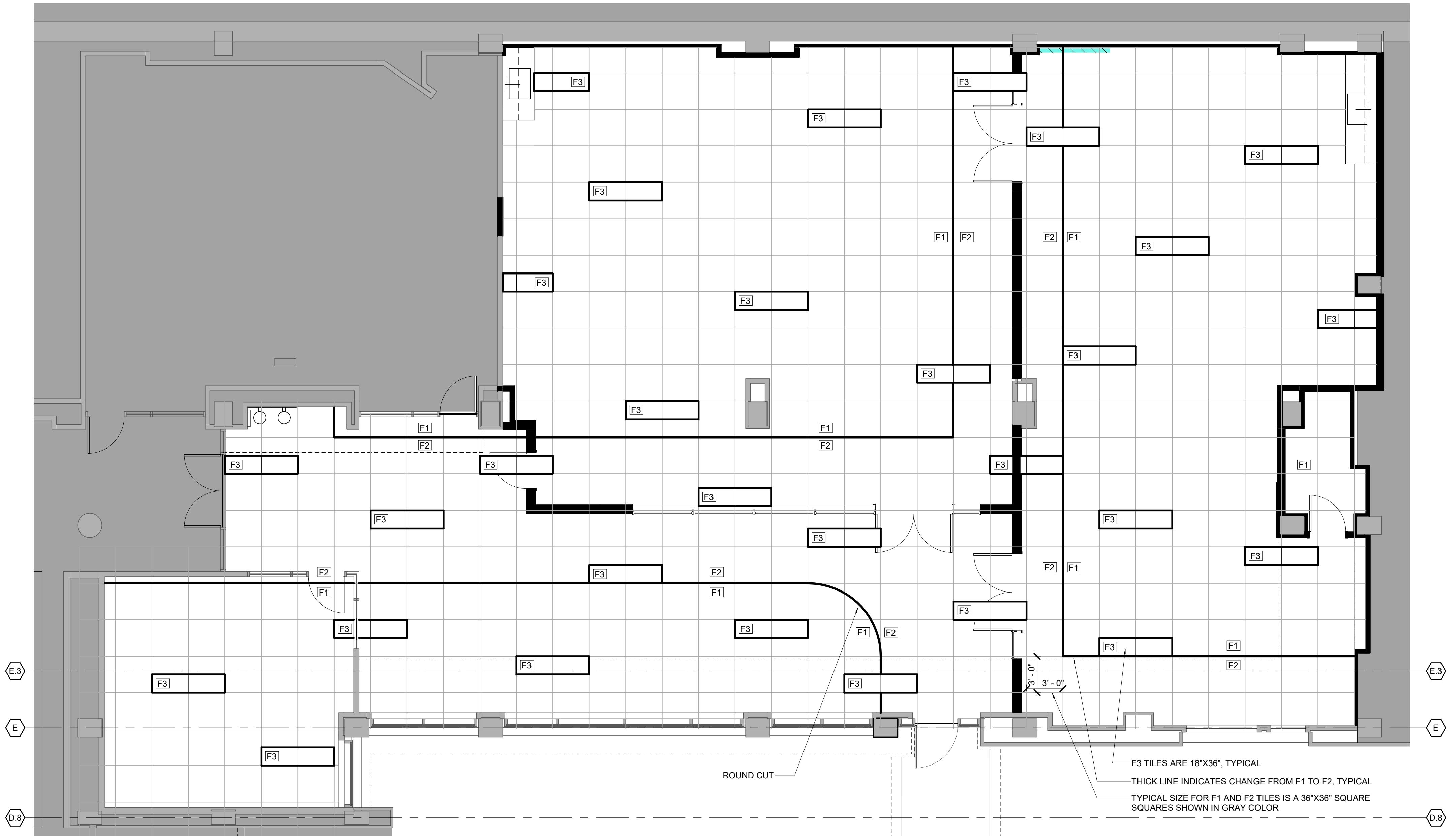
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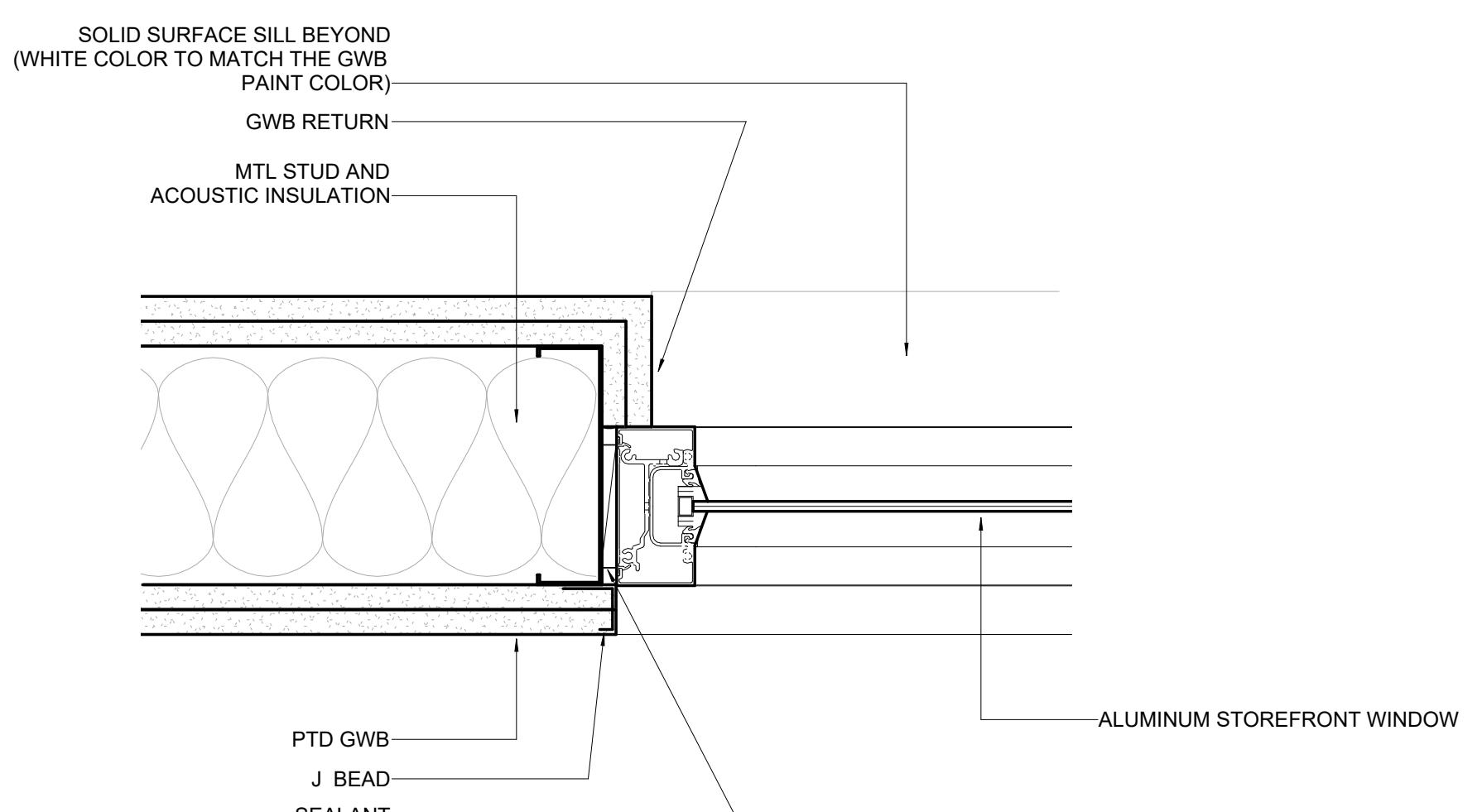
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ALL JOINTS ARE WELDED AND SEAMLESS. SEE FLOORING SPECS

THIS FLOORING LAYOUT IS PRELIMINARY AND FOR BIDDING PURPOSES. MINOR ADJUSTMENTS TO THE FINAL PATTERN DESIGN MAY BE NEEDED BEFORE CONSTRUCTION. COORDINATE FINAL PATTERN WITH ARCHITECT

SEE A-601 AND A-102 3 FLOOR PATTERN  
3/16" = 1'-0"



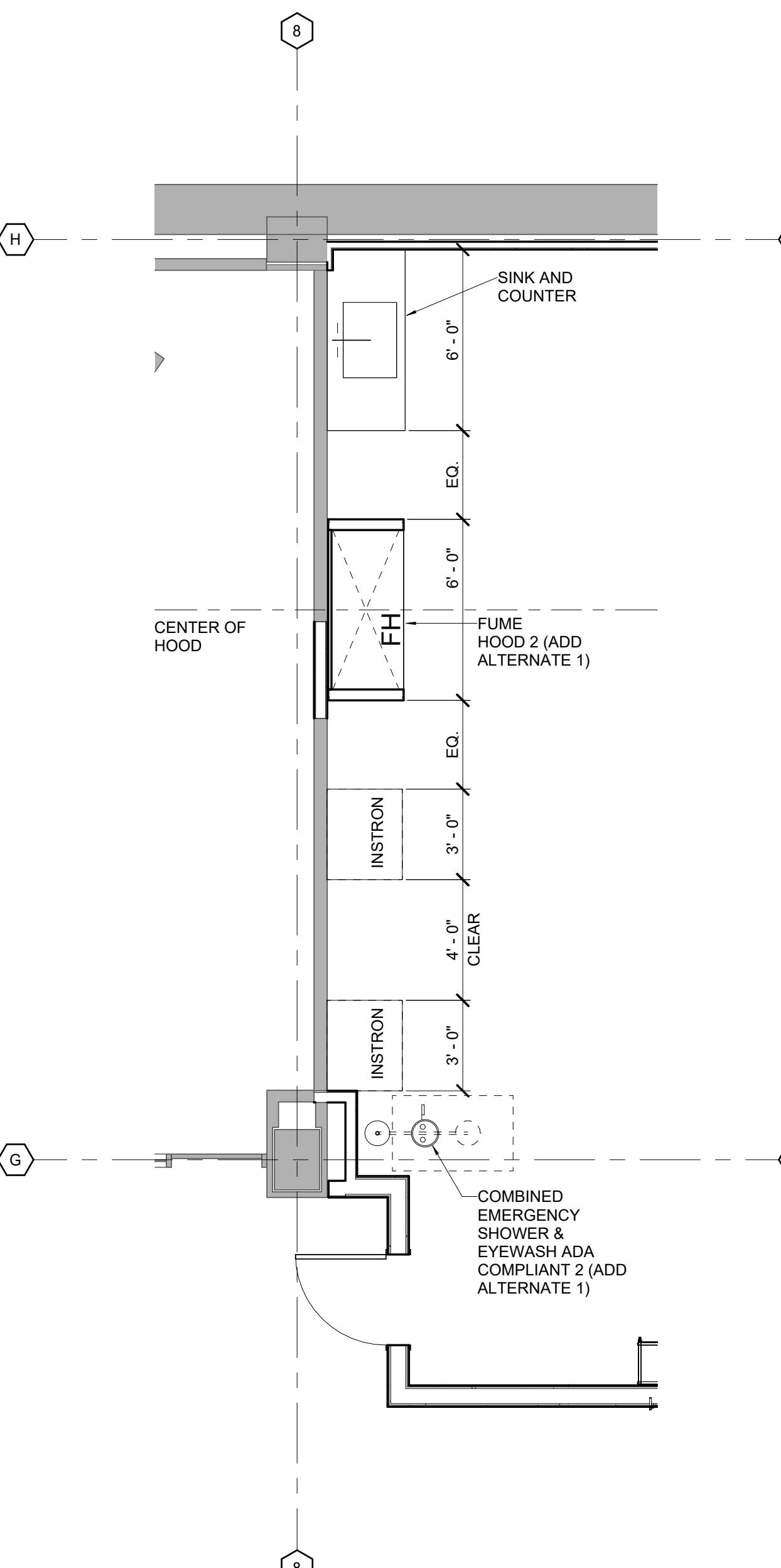
10 6 12 IN  
2 STOREFRONT PLAN DETAIL  
3" = 1'-0"

SEE A102 FOR TYPICAL NOTES AND LEGEND

1 ADD ALTERNATE 1-SECOND HOOD  
1/4" = 1'-0"

**A501**

PLAN DETAILS



CLIENT NAME: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
PROJ. NAME: UNC VENABLE HALL LOWER LEVEL UPLIFT  
LOCATION: 101 South Rd  
CARRBORO, NC 27514  
ISSUE DATE: 5-21-25  
JOB NO.: N092  
SCO # 24-28389-01A

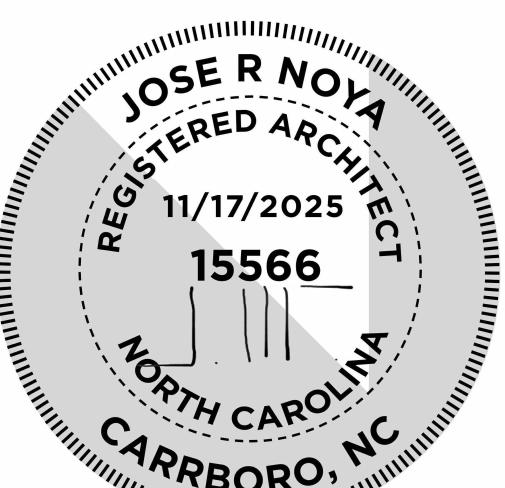


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SCO Review 9/15/25  
2nd SCO Review 10/24/25  
Construction Set 11/17/25

## CONSTRUCTION SET



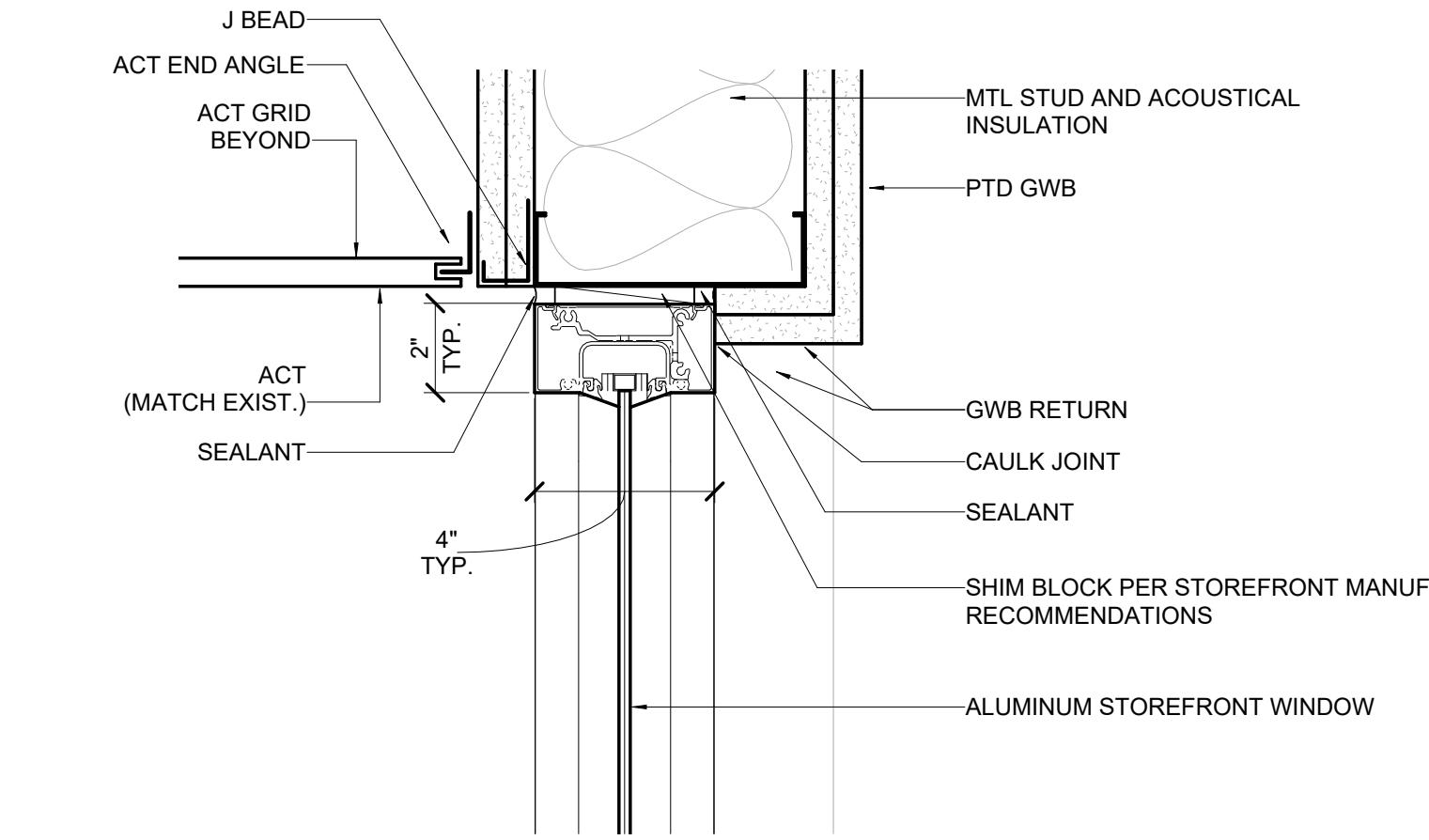
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THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
JOB NAME: UNC VENABLE HALL LOWER LEVEL UPGRADE  
LOCATION: 101 South Rd  
CHAPEL HILL, NC 27514

CLIENT NAME: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
ISSUE DATE: 5-21-25  
JOB NO.: N092  
SCO # 24-28389-01A

**A511**

SECTION DETAILS



SEE 6/A-511 FOR ALTERNATIVE DETAIL WITH SHADES  
CONFIRM WITH OWNER NUMBER AND LOCATION OF SHADES

3 STOREFRONT HEAD DETAIL  
3" = 1' - 0"

0 6 12 IN

SEE 3/A-511 FOR GENERAL NOTES

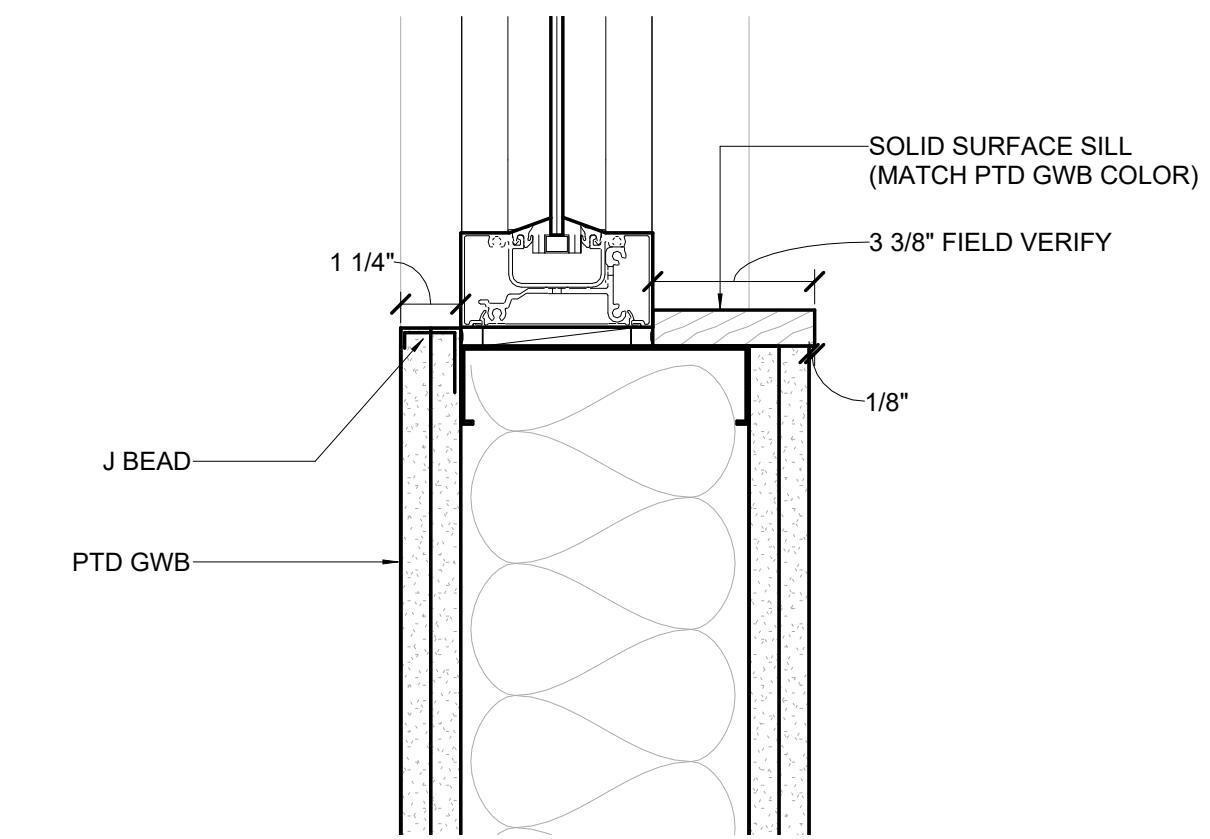
4 STOREFRONT HEAD 2  
3" = 1' - 0"

0 6 12 IN

SEE 2/A-511 FOR GENERAL NOTES

5 STOREFRONT SILL 2  
3" = 1' - 0"

0 6 12 IN



SEE 3/A-511 FOR GENERAL NOTES

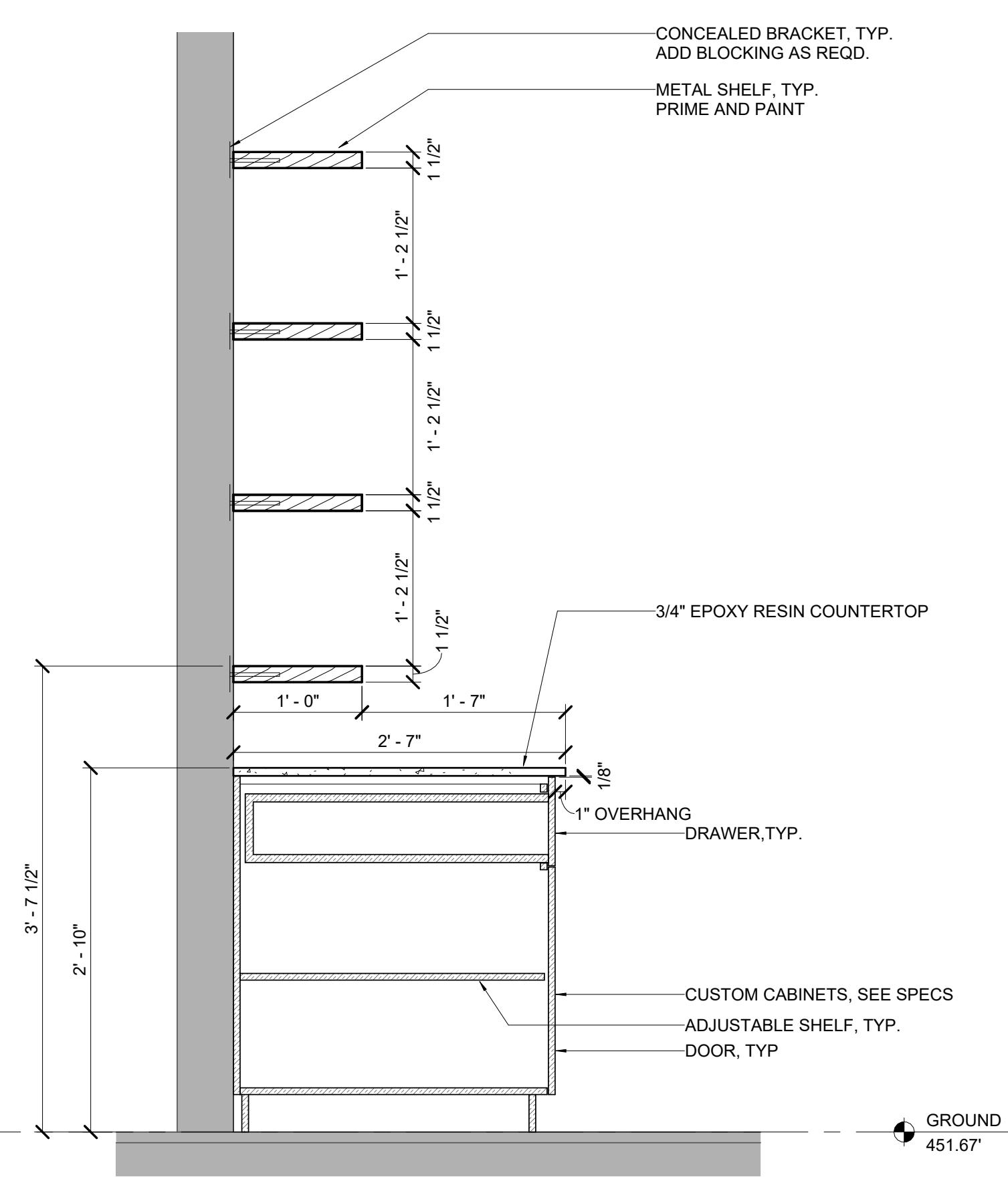
2 STOREFRONT SILL DETAIL  
3" = 1' - 0"

0 6 12 IN

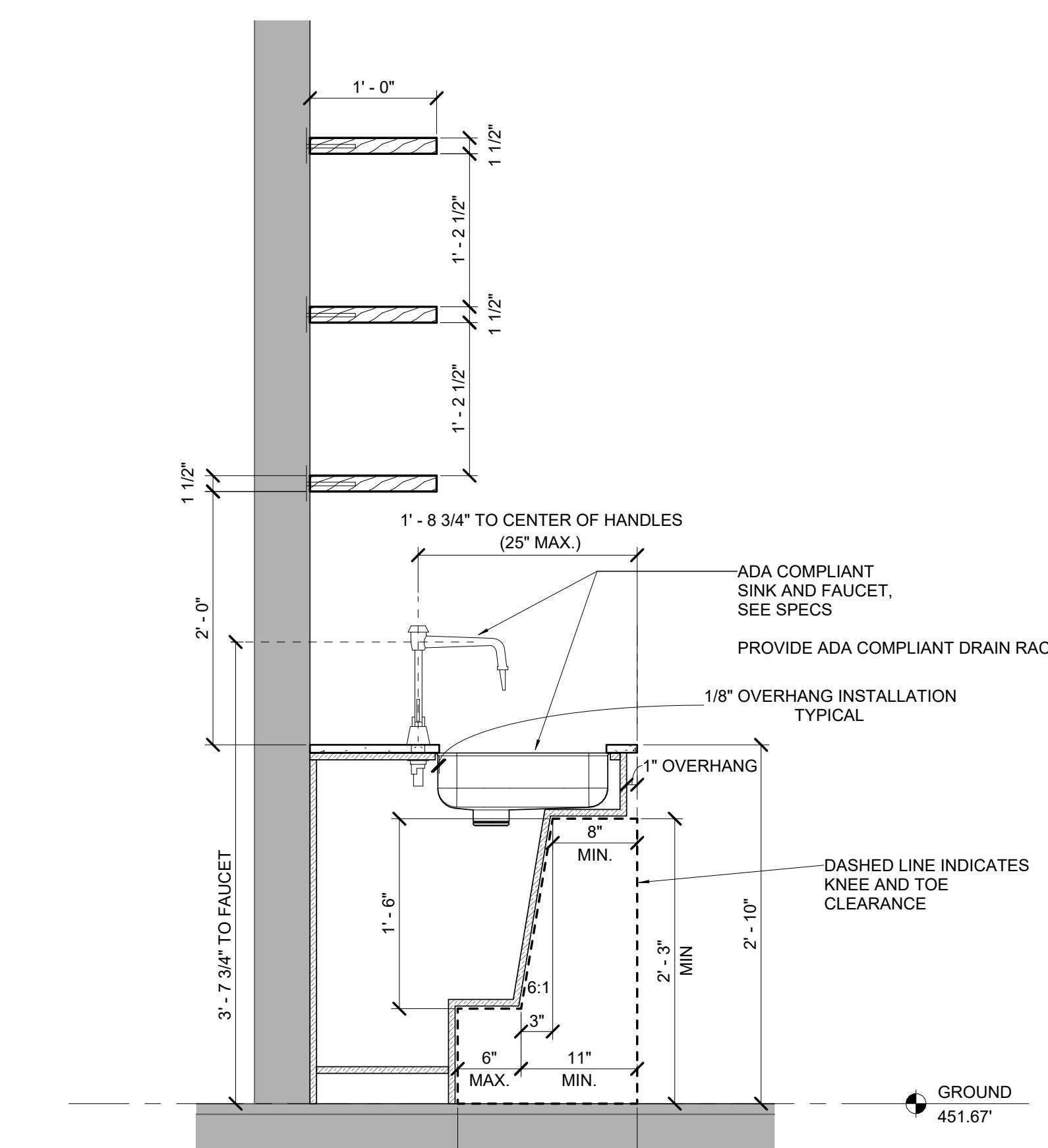
SEE 2/A-511 FOR GENERAL NOTES

5 STOREFRONT SILL 2  
3" = 1' - 0"

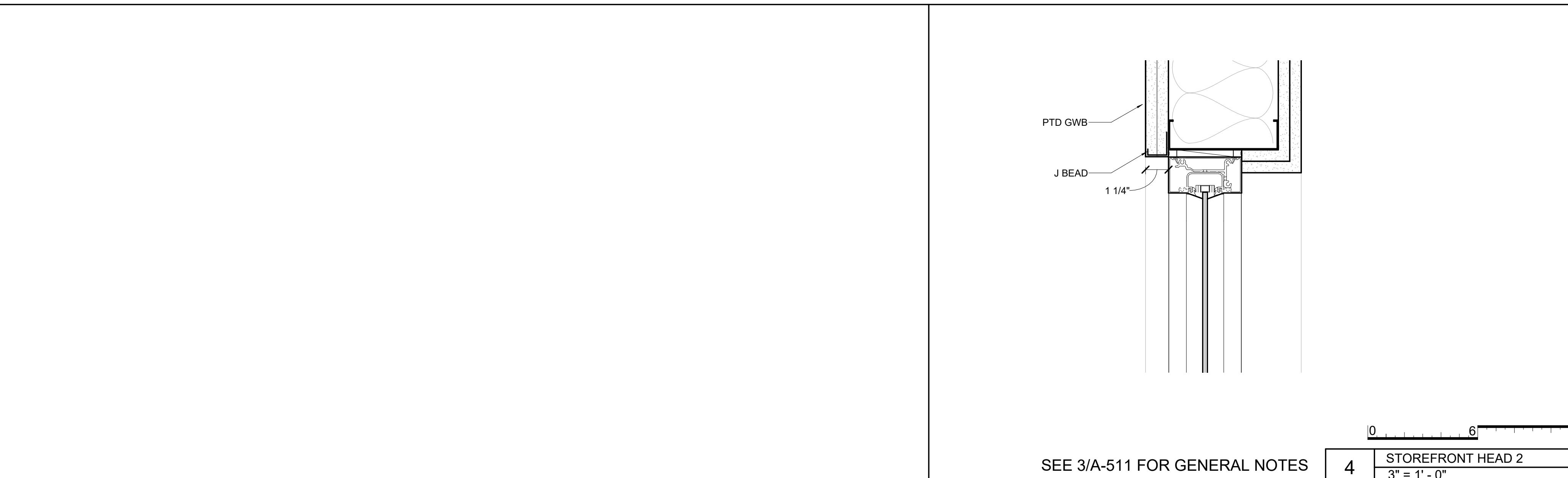
0 6 12 IN



7 BUILT-IN CABINET SECTION 2  
1" = 1' - 0"



SEE 7/511 FOR TYPICAL NOTES  
6 BUILT-IN CABINET SECTION 1  
1" = 1' - 0"



SEE 3/A-511 FOR GENERAL NOTES

4 STOREFRONT HEAD 2  
3" = 1' - 0"

0 6 12 IN

SEE 3/A-511 FOR GENERAL NOTES

3 STOREFRONT HEAD DETAIL  
3" = 1' - 0"

0 6 12 IN

SEE 6/A-511 FOR ALTERNATIVE DETAIL WITH SHADES  
CONFIRM WITH OWNER NUMBER AND LOCATION OF SHADES

0 6 12 IN

3 STOREFRONT HEAD DETAIL  
3" = 1' - 0"

SEE 3/A-511 FOR GENERAL NOTES

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3" = 1' - 0"

0 6 12 IN

SEE 2/A-511 FOR GENERAL NOTES

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3" = 1' - 0"

0 6 12 IN

SEE 3/A-511 FOR GENERAL NOTES

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SEE 2/A-511 FOR GENERAL NOTES

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SEE 3/A-511 FOR GENERAL NOTES

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3" = 1' - 0"

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3" = 1' - 0"

SEE 3/A-511 FOR GENERAL NOTES

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SEE 3/A-511 FOR GENERAL NOTES

2 STOREFRONT SILL DETAIL  
3" = 1' - 0"

0 6 12 IN

SEE 2/A-511 FOR GENERAL NOTES

5 STOREFRONT SILL 2  
3" = 1' - 0"

0 6

## FINISH SCHEDULE

SPACE	FLOOR	BASE	WALLS	CEILING		REMARKS
				MATERIAL/COMPONENT	FINISH	
G301 SOCIAL	F1, F2, F3 SEE 1/A102 & 3/A501	EXISTING AND B1	GWB	PT01	ACT AREA (WHERE PATCHING IS REQD.)	MATCH EXISTING ACT AS REQD.
					GWB CEILING AREA	PT01
G301A OFFICE	F1, F3 SEE 1/A102 & 3/A501	EXISTING	GWB	PT01	ACT AREA (WHERE PATCHING IS REQD.)	MATCH EXISTING ACT AS REQD.
					GWB CEILING AREA	PT01
G301B TEACHING LAB	F1, F2, F3 SEE 1/A102 & 3/A501	B2	GWB	PT01	OPEN CEILING AND MEP/FP COMPONENTS	PT02 (WHERE VISIBLE)
					STRUCTURAL GRID	PT02
G301C TEACHING LAB	F1, F2, F3 SEE 1/A102 & 3/A501	B2	GWB	PT01	NEW ACT	REFER TO A-102.1 AND SPECS
					OPEN CEILING AND MEP/FP COMPONENTS	PT02 (WHERE VISIBLE)
G301D STORAGE	F1 SEE 1/A102 & 3/A501	B2	GWB	PT01	STRUCTURAL GRID	PT02
					NEW ACT	REFER TO A-102.1 AND SPECS
G301D STORAGE	F1 SEE 1/A102 & 3/A501	B2	GWB	PT01	GWB CEILING AREA	PT01

## REMARKS

1. WALL GRAPHICS TO BE INSTALLED BY OTHERS
2. IN OPEN-CEILING AREAS, WALLS AND WALL PAINT CONTINUE TO DECK ABOVE, USE PT02 FOR OTHER ELEMENTS TO BE PAINTED IN CEILING ZONE.

## MATERIAL AND COLOR SELECTIONS

## WOOD AND WOOD VENEER:

**WD01:**  
RIFT SAWN WHITE OAK, LINEAR GRAIN DIRECTION AS DESCRIBED IN THE DRAWINGS / MATCH EXISTING WOOD GRAIN  
FINAL APPROVAL OF ALL WOOD ELEMENTS TO BE MADE BY OWNER AND ARCHITECT FROM PHYSICAL SAMPLES SUBMITTED BY THE GENERAL CONTRACTOR

## PAINT COLORS:

**PT01** SHERWIN WILLIAMS PURE WHITE SW 7005  
**PT02** WHITE DRYFALL PAINT, COLOR SW 7005

## FLOORING:

**F1** 36"X36" HVT SHAW MONTAGE FUSE, 84518  
**F2** 36"X36" HVT SHAW MONTAGE ASSEMBLE 84761

**F3** 36"X36" HVT SHAW MONTAGE BLEND 84447. CUT IT HALF TO CREATE 18"X36" PIECES, AND WELD THEM TOGETHER TO CREATE 18"X72" RECTANGLES

## BASE:

**B1** 4" RESILIENT COVE BASE, DARK GRAY FINISH TO BE SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S FULL RANGE. SEE SPECS  
**B2** 4" RESILIENT COVE BASE, DARK GRAY FINISH TO BE SELECTED BY THE ARCHITECT FROM THE MANUFACTURER'S FULL RANGE. SEE SPECS

## PRODUCT MATERIAL/COLOR SELECTIONS:

**STOREFRONT WINDOW SYSTEM:** CLEAR ANODIZED

**GLASS WRITABLE SURFACE:** COLOR TO BE SELECTED BY OWNER AND ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS

**HVT FLOORING:** F1, F2, AND F3 COLORS AND PATTERNS TO BE APPROVED BY OWNER DURING INTERIOR DESIGN STAGE PRIOR TO CONSTRUCTION.

## DOOR SCHEDULE

DOOR NO.	W	H	RATING	MAT		FINISH		HEAD	JAMB	DESCRIPTION	REMARKS
				DOOR	FRM	DOOR	FRM				
D001	6'-4" (PR OF 3'-2")	7'-0"	N/A	AL	AL	ANODIZED	ANODIZED	1 / A221 SIM.	PER MANUF.	ALUMINUM STOREFRONT DOOR, FULL LITE, ADA COMPLIANT	1,2,3,4,9,11,12
D002	6'-4" (PR OF 3'-2")	7'-0"	N/A	AL	AL	ANODIZED	ANODIZED	1 / A221	PER MANUF.	ALUMINUM STOREFRONT DOOR, FULL LITE, ADA COMPLIANT	1,2,3,4,8,11,12
D003	6'-4" (PR OF 3'-2")	7'-0"	N/A	AL	AL	ANODIZED	ANODIZED	1 / A221 SIM.	PER MANUF.	ALUMINUM STOREFRONT DOOR, FULL LITE, ADA COMPLIANT	1,2,3,4,5,10,11,12
D004	3'-0"	7'-0"	N/A	AL	AL	ANODIZED	ANODIZED	PER MANUF.	PER MANUF.	ALUMINUM STOREFRONT DOOR, FULL LITE, ADA COMPLIANT	1,2,3,4,7,11,12
D005	3'-0"	7'-0"	N/A	SC	HM	WD	WD	5/A-602	SC WD DOOR, FLUSH SLAB, VERTICAL GRAIN, MATCH EXISTING DOORS		1,2,3,4,6

## DOOR REMARKS:

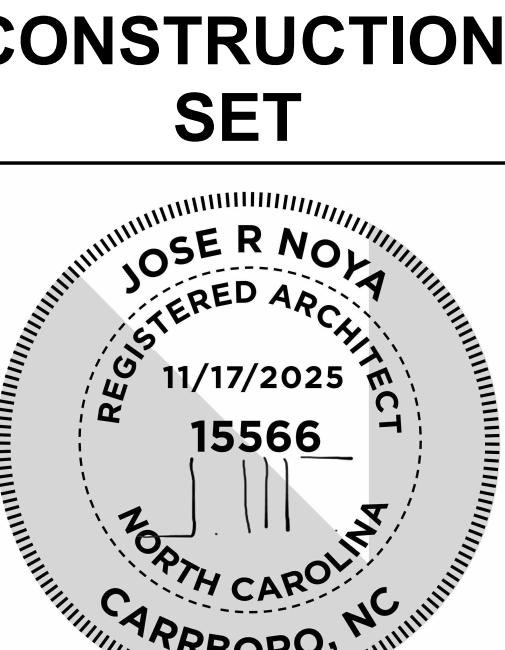
1. PROVIDE AUTOMATIC CLOSER
2. SIGNAGE SHOULD ADHERE TO UNC STANDARDS
3. COORDINATE CARD READER ACCESS WITH THE OWNER
4. SEE "DOOR HARDWARE" BELOW
5. THIS DOOR CANNOT BE LOCKED BECAUSE A PERCENTAGE OF THE OCCUPANTS IN ROOM G301C NEED TO BE ABLE TO EGREGG THROUGH ROOM G301B (SEE A002)
6. SEE 6/A-602 FOR DOOR FRAME PROFILE
7. DOOR AND FRAMES TO MATCH THE STOREFRONT SYSTEM'S DOORS AND FRAMES (W05-D002; W01-D001; W04-D003)
8. THIS DOOR IS ATTACHED TO STOREFRONT UNIT "W05"; SEE 1/A-602
9. THIS DOOR IS ATTACHED TO STOREFRONT UNIT "W01"; SEE 2/A-602
10. THIS DOOR IS ATTACHED TO STOREFRONT UNIT "W04"; SEE 2/A-602
11. EXIT DEVICE, PANIC HARDWARE / COORDINATE WITH ELECTRICAL-LOW VOLTAGE INSTALLATION AS REQUIRED. SEE RISER DIAGRAMS ATTACHED TO SPEC SECTION "DOOR HARDWARE" 087100
12. DOOR AND HARDWARE TO BE ADA COMPLIANT

## ABBREVIATIONS

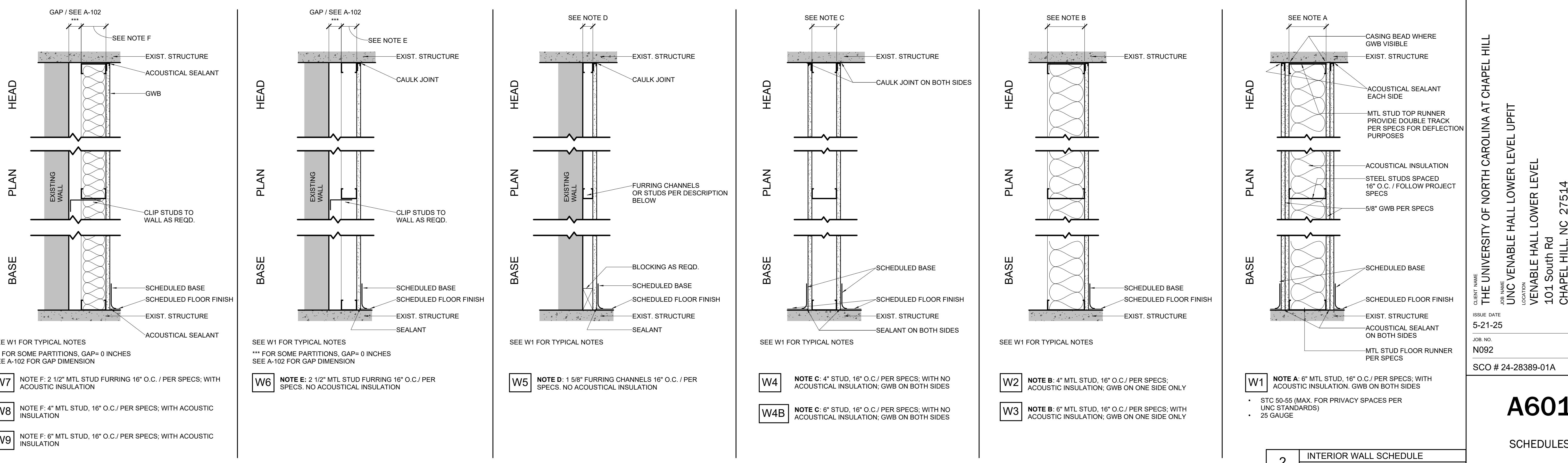
PR: PAIR OF DOORS  
UPR: UNEVEN PAIR OF DOORS  
T: THICKNESS  
MAT: MATERIAL  
WD: WOOD  
AL: ALUMINUM  
GL: GLASS  
ST: STEEL  
FIN: FINISH  
PT: PAINTED  
STN: STAINED  
HW: HEAD WIDTH  
FRM: FRAME  
HM: HOLLOW METAL DOOR  
SC: SOLID CORE COMMERCIAL DOOR

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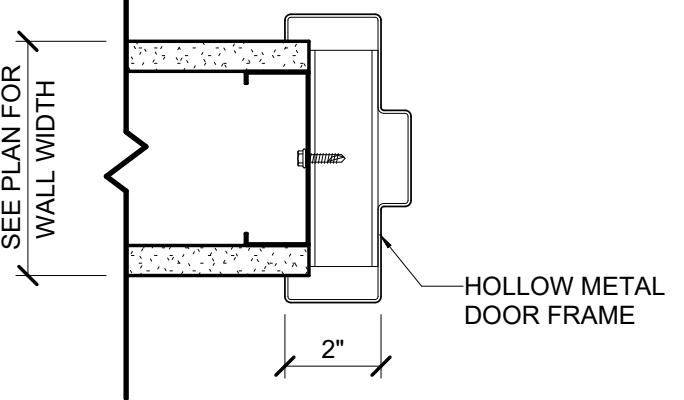
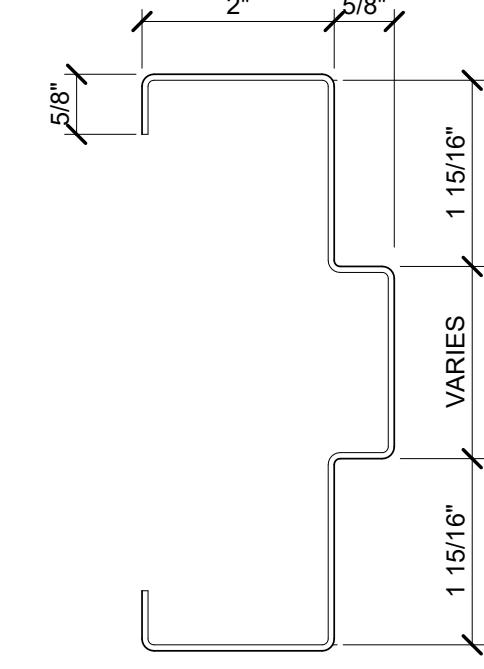
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PROJ. NAME: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
LOCATION: VENABLE HALL LOWER LEVEL  
101 South Rd  
CHAPEL HILL, NC 27514  
ISSUE DATE: 5-21-25  
JOB NO.: N092  
SCO # 24-28389-01A



## ROLLER SHADES SCHEDULE

TAG	DRAWINGS	DESCRIPTION	FINISH	DRAPEY SELECTION	NOTES
M1.1	7/A-402 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M1.2	7/A-402 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M1.3	7/A-402 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M1.4	7/A-402 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M2	7/A-402 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M3	7/A-402 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M4	3/A-401 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M5.1	4/A-403 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M5.2	4/A-403 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M5.3	4/A-403 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M5.4	4/A-403 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M6.1	4/A-403 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M6.2	4/A-403 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M6.3	4/A-403 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES
M6.4	4/A-403 & 1/A-102.1	ROLLER SHADE, SINGLE ROLLER, ALUMINUM FASCIA AND END CAPS	WHITE	BLACKOUT FABRIC, FINAL SELECTION BY ARCHITECT	MANUAL CHAIN SIMILAR TO EXISTING SHADES

GENERAL NOTES:  
 • SEE PROJECT MANUAL, COMPLY WITH UNC GUIDELINES  
 • ALL ROLLER SHADE CHAINS SHOULD BE WITHIN ADA OPERABLE REACH RANGES (15" AFF MINIMUM, 48" AFF MAXIMUM)

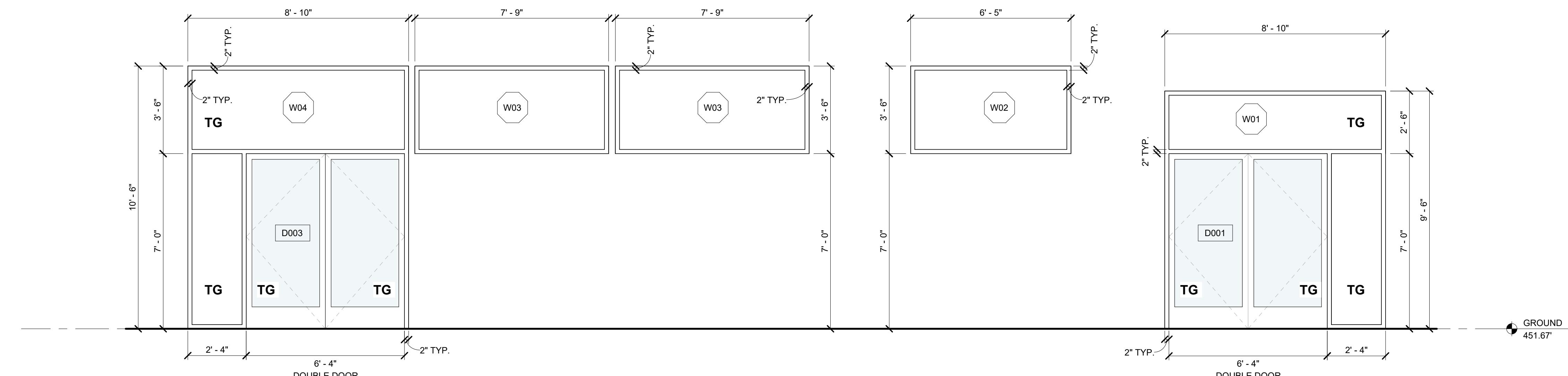


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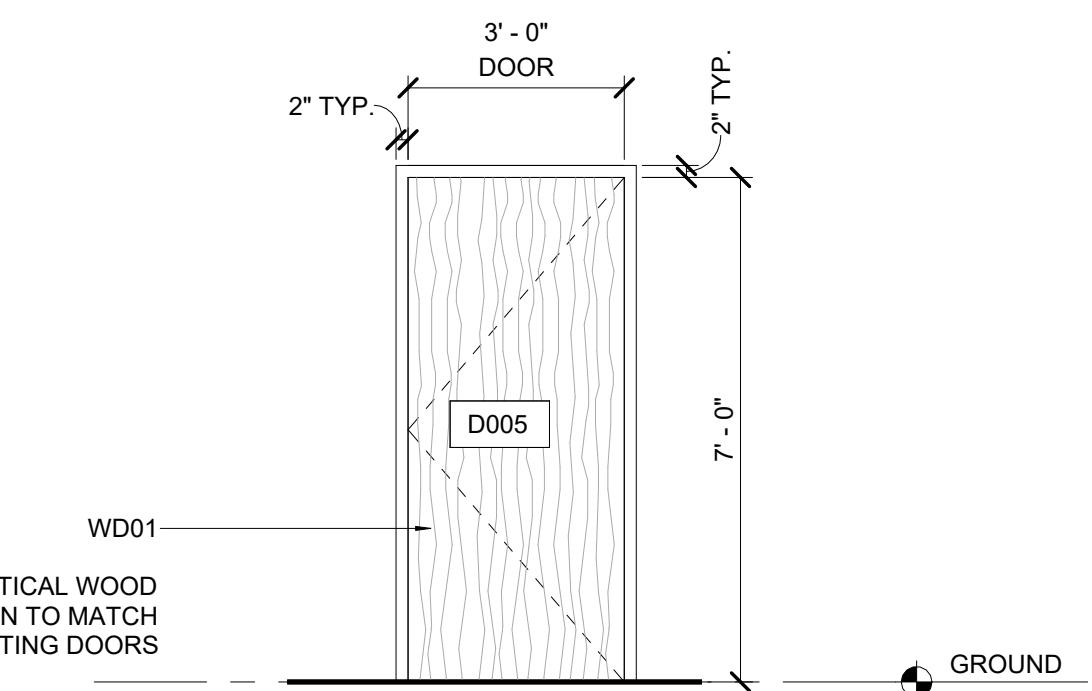
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6 TYP HM DOOR FRAME PROFILE  
 6" = 1' - 0"

5 TYP HM DOOR HEAD/JAMB DETAILS  
 3" = 1' - 0"

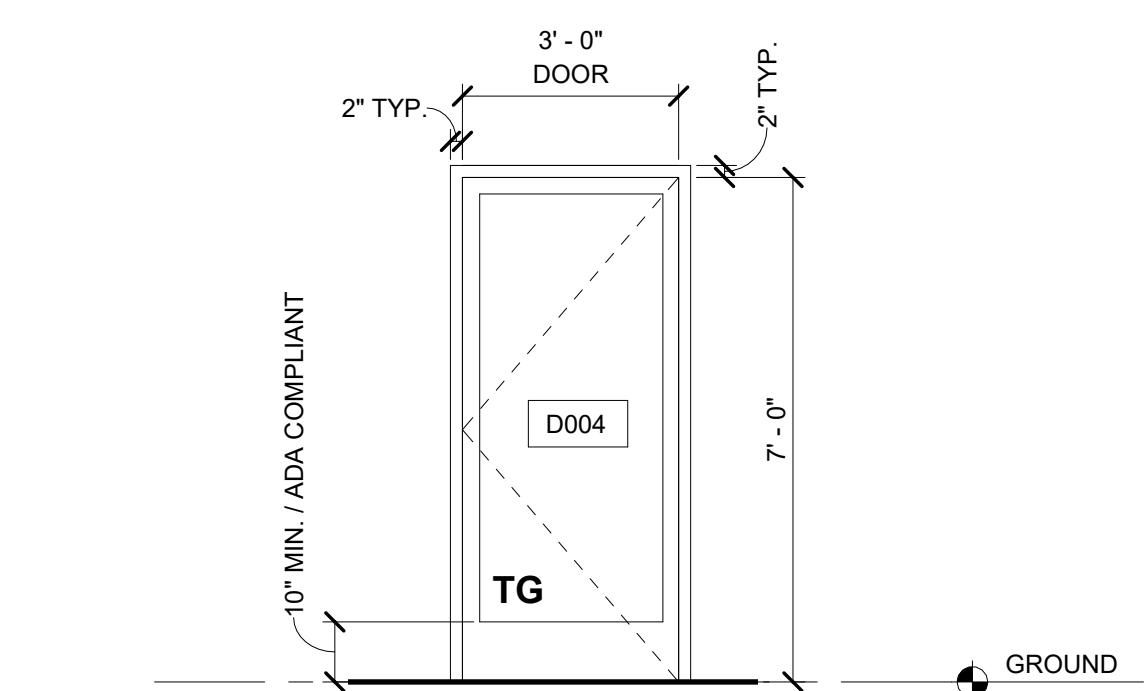


SEE 1/A-602 FOR TYPICAL NOTES 2 W01-W04, D001 & D003 ELEVATIONS  
 3/8" = 1' - 0"

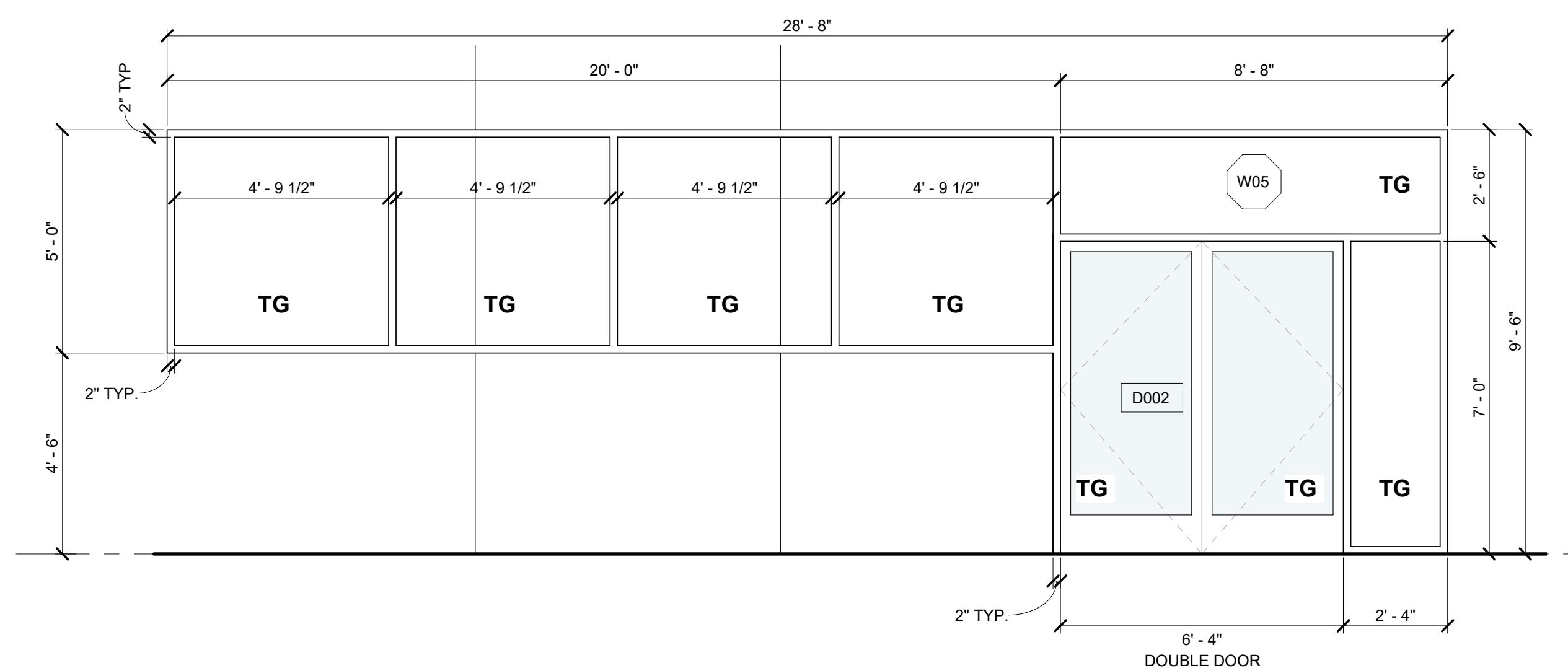


SEE 5 & 6/A-602 FOR DOOR FRAME, JAMB AND HEAD DETAILS

SEE 1/A-602 FOR TYPICAL NOTES 4 D005 ELEVATION  
 3/8" = 1' - 0"



SEE 1/A-602 FOR TYPICAL NOTES 3 D004 ELEVATION  
 3/8" = 1' - 0"

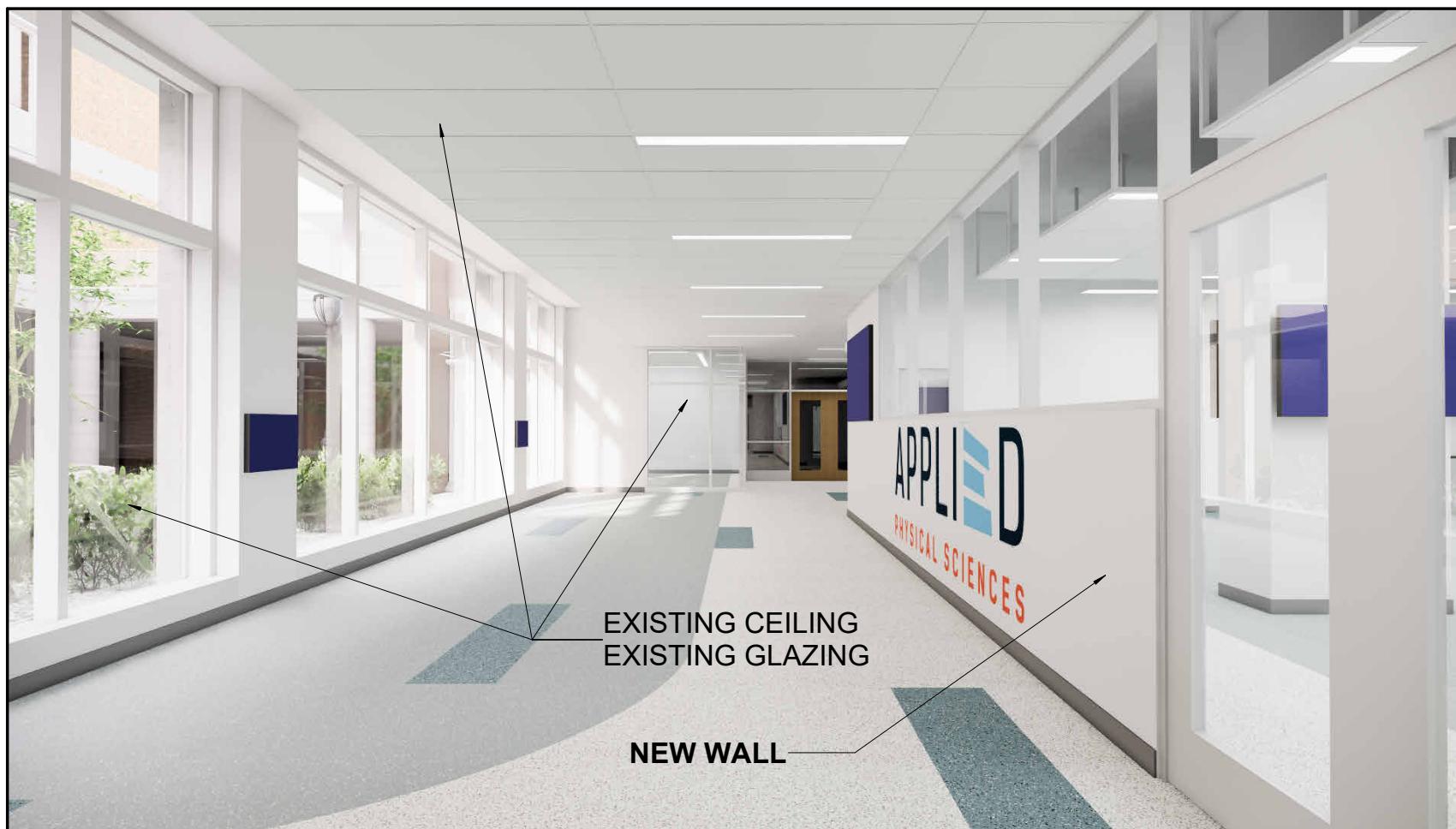


SEE A-601/ DOOR SCHEDULE AND DOOR HARDWARE

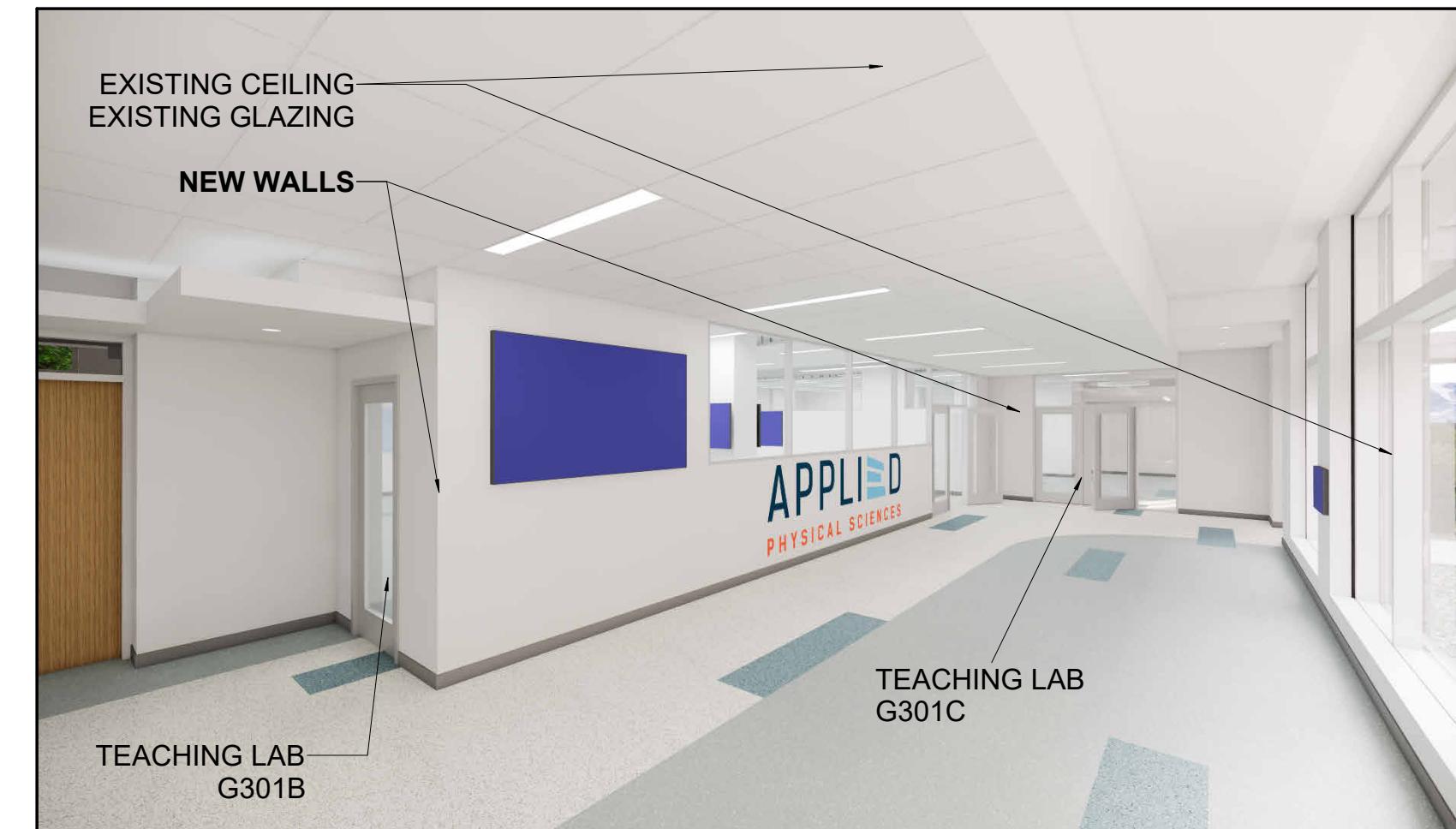
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A602  
 INTERIOR  
 STOREFRONT AND  
 DOOR ELEVATIONS

1 W05 AND D002 ELEVATION  
 3/8" = 1' - 0"



1. SOCIAL SPACE G301, LOOKING NORTH



2. SOCIAL SPACE G301, LOOKING SOUTH



3. SOCIAL SPACE G301, LOOKING SOUTH AT TEACHING LAB ENTRIES



4. TEACHING LAB G301B LOOKING EAST/SOUTHEAST



5. TEACHING LAB G301B LOOKING SOUTH



6. TEACHING LAB G301B LOOKING NORTH



7. TEACHING LAB G301C, LOOKING NORTH/NORTHWEST



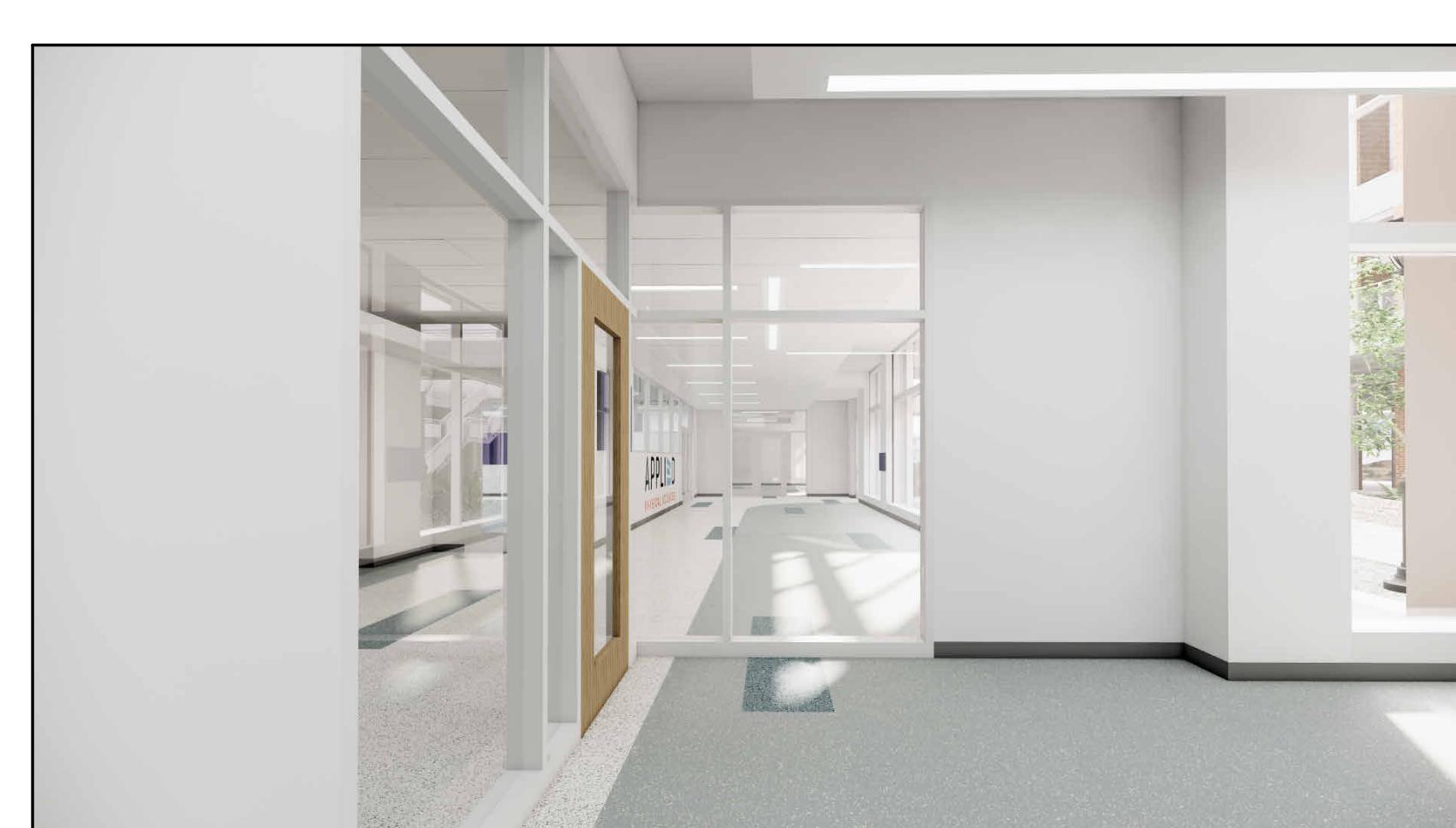
8. TEACHING LAB G301C LOOKING NORTHEAST



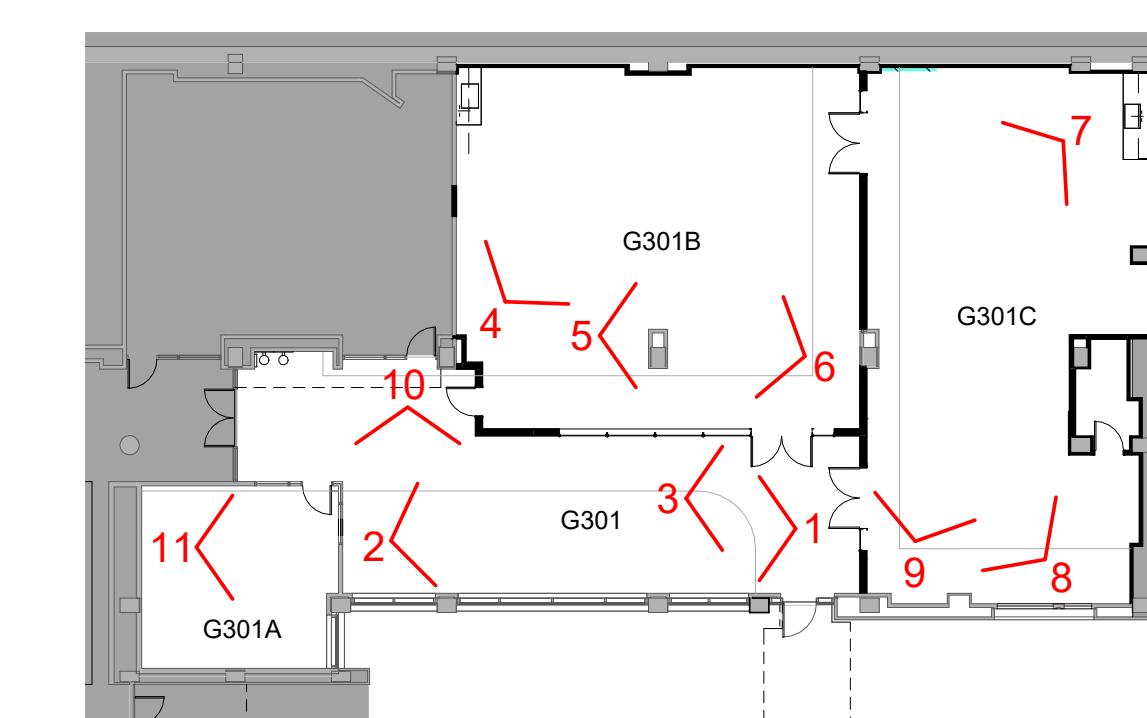
9. TEACHING LAB G301C LOOKING EAST



10. TEACHING LAB G301B, LOOKING EAST TOWARD TEACHING STATION



11. OFFICE G301A, LOOKING SOUTH



3D VIEWS  
KEY PLAN

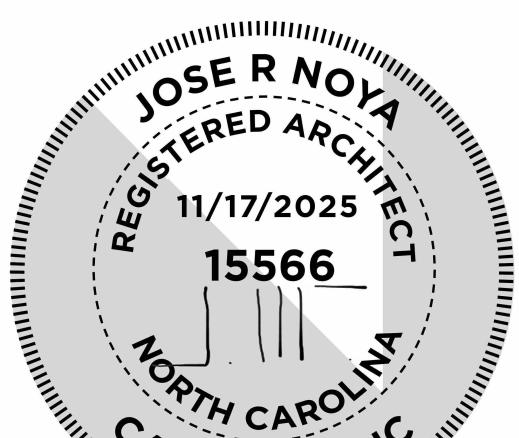


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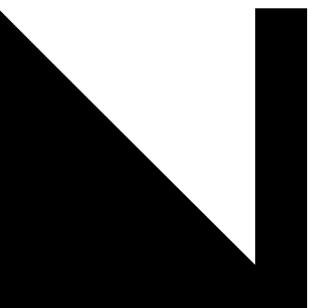


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PRO. NAME: VENABLE HALL LOWER LEVEL UPGRADE  
LOCATION: 101 South Rd  
CARRBORO, NC 27514  
ISSUE DATE: 5-21-25  
JOB NO.: N092  
SCO # 24-28389-01A

A700

3D VIEWS



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2018 APPENDIX B	
NC MECHANICAL SUMMARY	
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
4A	
CLIMATE ZONE	
WINTER DRY BULB	10 DEG F
SUMMER DRY BULB	92 DEG F
INTERIOR DESIGN CONDITIONS	
WINTER DRY BULB	70 DEG F
SUMMER DRY BULB	75 DEG F
RELATIVE HUMIDITY	50%
BUILDING HEATING LOAD	N/A
BUILDING COOLING LOAD	N/A
MECHANICAL SPACE CONDITIONING SYSTEM	
UNITARY	N/A
DESCRIPTION OF UNIT	N/A
HEATING EFFICIENCY	N/A
COOLING EFFICIENCY	N/A
HEAT OUTPUT OF UNIT	N/A
COOLING OUTPUT OF UNIT	N/A
BOILER	TOTAL BOILER OUTPUT, IF OVERSIZED, STATE REASON. N/A
CHILLER	TOTAL CHILLER OUTPUT, IF OVERSIZED, STATE REASON. N/A
LIST EQUIPMENT EFFICIENCIES	

CODES/STANDARDS	
2018 NORTH CAROLINA MECHANICAL CODE	<ul style="list-style-type: none"> <li>ASHRAE STANDARDS:</li> <li>15-2022, "SAFETY STANDARD FOR REFRIGERATION SYSTEMS"</li> <li>62-2022, "VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY"</li> <li>90.1-2021, "ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE"</li> <li>170-2021, "VENTILATION OF HEALTHCARE FACILITIES"</li> <li>2018, "ADVANCED ENERGY GUIDE FOR K-12 SCHOOL BUILDINGS, SMALL RETAIL BUILDINGS, SMALL OFFICE BUILDINGS"</li> <li>55-2023, "THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY"</li> </ul>
2018 ASHRAE STANDARDS	
15-2022, "SAFETY STANDARD FOR REFRIGERATION SYSTEMS"	
62-2022, "VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY"	
90.1-2021, "ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE"	
170-2021, "VENTILATION OF HEALTHCARE FACILITIES"	
2018, "ADVANCED ENERGY GUIDE FOR K-12 SCHOOL BUILDINGS, SMALL RETAIL BUILDINGS, SMALL OFFICE BUILDINGS"	
55-2023, "THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY"	

MECHANICAL ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT
ADJ	ADJUSTABLE OR ADJUSTMENT
AI	ANALOG IN
AO	ANALOG OUT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
APD	AIRSIDE PRESSURE DROP
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BMP	BOILER MANAGEMENT PANEL
CFM	CUBIC FEET PER MINUTE
CMD	COMMAND
COND	CONDENSATE DRAINAGE
CV	CONSTANT VOLUME
CWMU	COLD WATER MAKEUP UNIT
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
DI	DIGITAL IN
DO	DIGITAL OUT
DN	DOWN
EA	EXHAUST AIR
EAG-X	EXHAUST AIR GRILLE - TYPE
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FPM	FEET PER MINUTE
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HWS	HEATING HOT WATER SUPPLY
HWR	HEATING HOT WATER RETURN
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
IND	INDUCTION UNIT
IWC	INCHES WATER COLUMN
JB	JUNCTION BOX
LAT	LEAVING AIR TEMPERATURE
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LWT	LEAVING WATER TEMPERATURE
MAV	MANUAL AIR VENT
MC	MECHANICAL CONTRACTOR
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MTD	MONTH TO DATE
N/A	NOT AVAILABLE / NOT APPLICABLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OCC	OCCUPANT OR OCCUPANCY
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RAG-X	RETURN AIR GRILLE - TYPE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAD-X	SUPPLY AIR DIFFUSER - TYPE
SC	SAFETY CIRCUIT
S/S	START/STOP
STM COND	STEAM CONDENSATE RETURN
TAB	TEST AND BALANCE
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
UH	UNIT HEATER
VEL	VELOCITY
VAV	VARIABLE AIR VOLUME
VP	VIRTUAL POINT
WPD	WATERSIDE PRESSURE DROP
XFMR	TRANSFORMER

HAZARDOUS MATERIALS WARNING	
HAZARDOUS MATERIALS, INCLUDING ASBESTOS CONTAINING MATERIALS, ARE EITHER NOT PRESENT OR WERE REMOVED PRIOR TO CONSTRUCTION. TO THE BEST OF THIS CONSULTANT'S KNOWLEDGE, THERE IS ALWAYS THE RISK OF REMAINING, UNDISCOVERED HAZARDOUS MATERIALS PRESENT IN THE CONSTRUCTION SITE; HOWEVER, DURING THE COURSE OF THE PROJECT, SHOULD SUSPECT REGULATED MATERIALS BE LOCATED AND/OR IDENTIFIED, THE CONTRACTOR SHALL CEASE ALL WORK AND NOTIFY THE OWNER/DESIGNER/ENVIRONMENTAL CONSULTANT FOR CONFIRMATION AND TESTING IF NECESSARY.	

CONTROLS LEGEND	
	ANALOG POINT
	DIGITAL POINT
	CARBON DIOXIDE SENSOR
	CONTROL POINT
	CONTROL RELAY
	CONTROL WIRING
	CURRENT SWITCH
	CURRENT TRANSMITTER
	DIFFERENTIAL PRESSURE TRANSMITTER
	ELECTRO-PNEUMATIC TRANSDUCER
	EMERGENCY STOP SWITCH
	END SWITCH
	ENTHALPY SELECTOR
	FLOW SWITCH
	FLOW TRANSMITTER
	FREEZESTAT
	HIGH TEMPERATURE SWITCH
	HUMIDITY SWITCH
	HUMIDITY TRANSMITTER
	LEVEL SWITCH
	LIGHT METER
	MOTOR OPERATED DAMPER
	MOTOR STARTER
	OCCUPANCY SENSOR
	override switch
	OXYGEN SENSOR
	PRESSURE SWITCH
	PRESSURE TRANSMITTER
	SMOKE DETECTOR
	3 BOX
	2 BOX
	DIFFUSER/GRILLE TAG
	SIZE
	CFM
	AIRFLOW DIRECTION
	SUPPLY REGISTER OR GRILLE
	EXHAUST OR RETURN GRILLE
	RECTANGULAR DUCTWORK
	ROUND DUCTWORK
	EXISTING DUCTWORK
	DUCTWORK TO BE DEMOLISHED
	FLEXIBLE DUCTWORK (INSULATED)
	DUCT ACCESS DOOR
	SUPPLY DUCT (UP & DOWN)
	EXHAUST DUCT (UP & DOWN)
	RETURN DUCT (UP & DOWN)
	EXISTING PIPING TO REMAIN
	PIPING TO BE DEMOLISHED
	ISOLATION VALVE
	GATE VALVE
	GATE VALVE WITH 3/4" HOSE ADAPTER
	CHECK VALVE
	BUTTERFLY VALVE
	BALL VALVE
	BALANCING VALVE
	RELIEF VALVE
	WYE STRAINER
	BOILER DRAIN VALVE
	PRESSURE REGULATING VALVE
	CONTROL VALVE (2-WAY)
	CONTROL VALVE (3-WAY)
	TEST PLUG (PRESSURE/TEMPERATURE)
	PIPING DOWN
	PIPING UP
	TEE UP
	TEE DOWN
	CAPPED PIPING
	IN LINE TRIPLE DUTY VALVE
	AUTOMATIC AIR VENT
	MANUAL AIR VENT

MECHANICAL LEGEND	
	LIMIT OF DEMOLITION
	POINT OF CONNECTION TO EXISTING
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	BEACON STROBE LIGHT FOR HVAC ALARM SYSTEMS
	MANUAL VOLUME CONTROL DAMPER
	BACKDRAFT DAMPER
	MOTORIZED AIR DAMPER (PNEUMATIC) - ELECTRIC
	VERTICAL FIRE DAMPER (WITH ACCESS DOOR AND SLEEVE)
	HORIZONTAL FIRE DAMPER (WITH ACCESS DOOR AND SLEEVE)
	COMBINATION FIRE SMOKE DAMPER (PNEUMATIC) - ELECTRIC
	MOTORIZED SMOKE DAMPER
	SOUND ATTENUATOR TAG - MARK (X)
	AIRFLOW MEASURING STATION TAG - MARK (X)
	RADIATION DAMPER FOR RATED CEILINGS
	CONSTANT AIRFLOW REGULATOR
	SMOKE DETECTOR
	3 BOX
	2 BOX
	DIFFUSER/GRILLE TAG SIZE
	CFM
	AIRFLOW DIRECTION
	SUPPLY REGISTER OR GRILLE
	EXHAUST OR RETURN GRILLE
	RECTANGULAR DUCTWORK
	ROUND DUCTWORK
	EXISTING DUCTWORK
	DUCTWORK TO BE DEMOLISHED
	FLEXIBLE DUCTWORK (INSULATED)
	DUCT ACCESS DOOR
	SUPPLY DUCT (UP & DOWN)
	EXHAUST DUCT (UP & DOWN)
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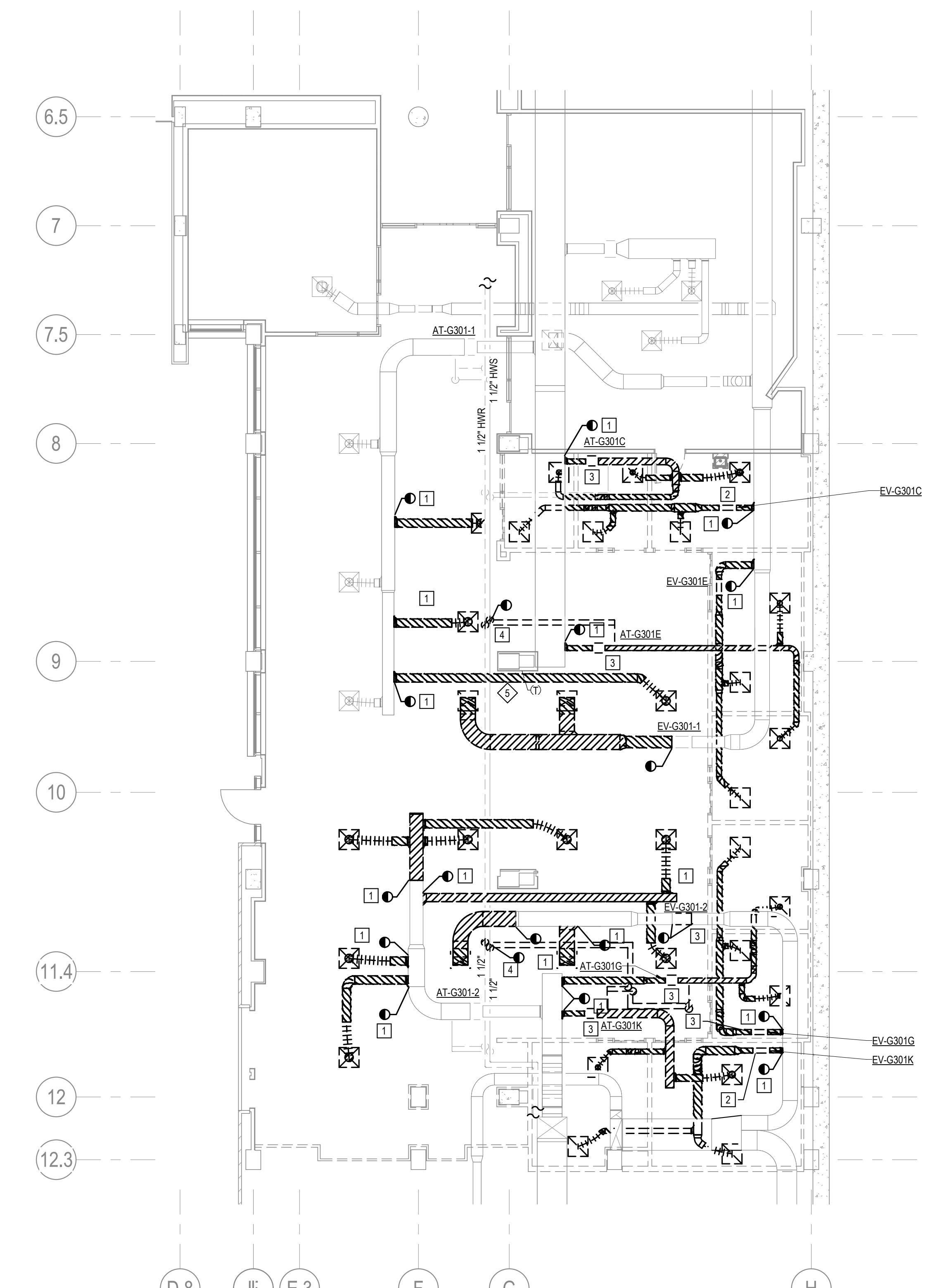


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JOB NAME: UNC VENABLE HALL LOWER LEVEL UPLIFT  
LOCATION: VENABLE HALL LOWER LEVEL  
101 South RD  
CHAPEL HILL, NC 27514  
SCO ID: 24-28389-01A

ISSUE DATE: 11-17-25  
JOB NO.: 10021-0001  
DWG. NO.:  
11-17-25

**MD111**  
DEMO  
MECHANICAL -  
GROUND FLOOR  
PLAN



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

1/8" = 1'-0" 8' 4' 0 8' 16'



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CHAPEL HILL, NC 27514

ISSUE DATE: 11-17-25

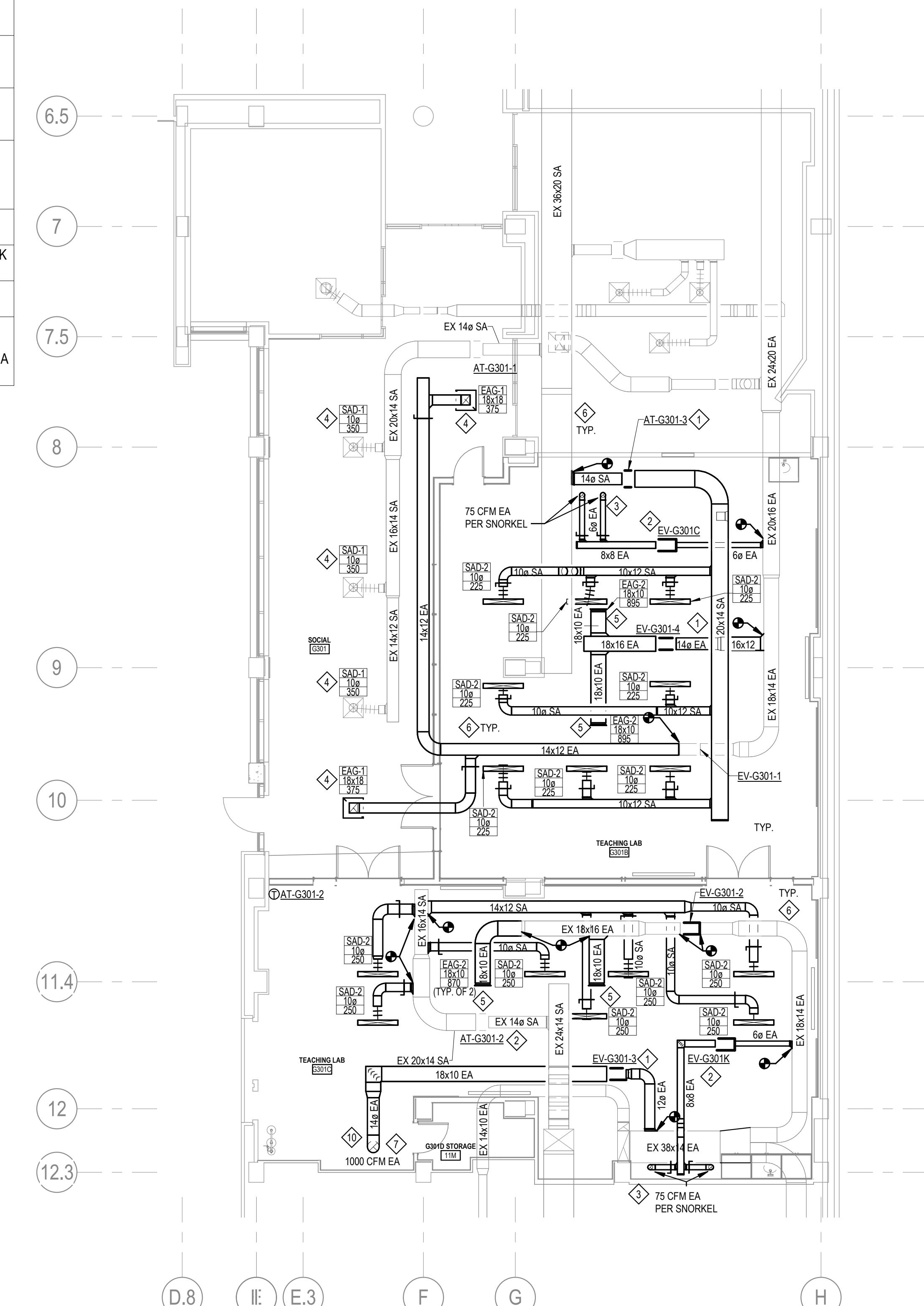
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DWG. NO.:

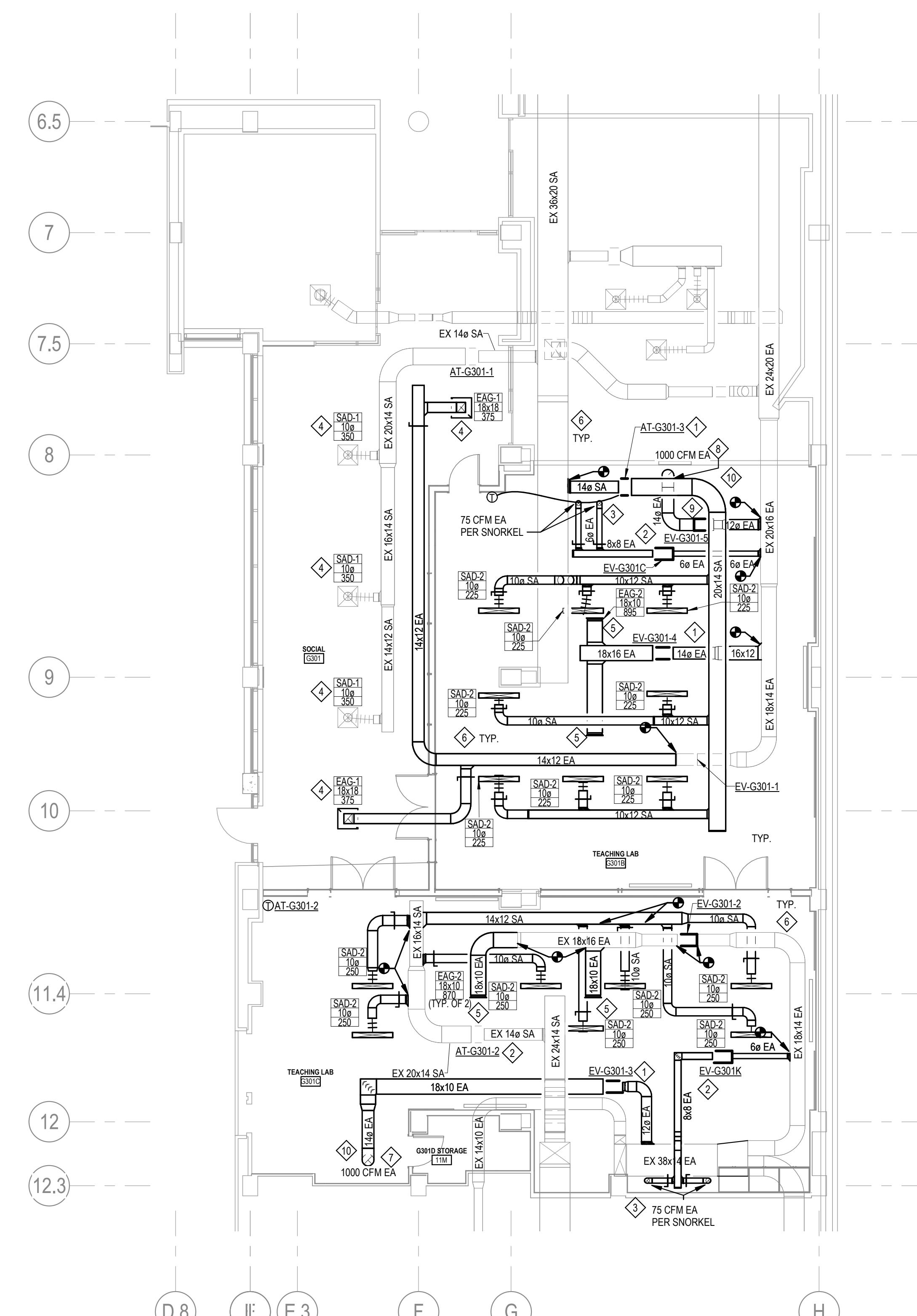
**M111**

DUCTWORK -  
GROUND FLOOR  
PLAN

1/8" = 1'-0" 8' 4' 0 8' 16'



**1 MECHANICAL DUCTWORK GROUND PLAN**  
SCALE: 1/8" = 1'-0"



**2 MECHANICAL DUCTWORK GROUND PLAN ALTERNATE 01**  
SCALE: 1/8" = 1'-0"

KEYED NOTES	
1	PROVIDE AND INSTALL NEW SUPPLY/EXHAUST TERMINAL UNIT AS SCHEDULED ON M401.
2	EXISTING SUPPLY/EXHAUST TERMINAL UNIT TO BE RELOCATED AS SHOWN. COORDINATE WITH DEMO PLANS AND REBALANCE TO CONNECTED/SCHEDULED AIRFLOW.
3	6" EXHAUST DUCTWORK DOWN TO SNORKELS. SNORKELS PROVIDED BY OTHERS.
4	BALANCE EXISTING DIFFUSER/GRILLE TO AIRFLOW LISTED ON PLANS. UPDATE TERMINAL UNIT AIRFLOW SETPOINTS AS SHOWN ON SCHEDULE.
5	NEW EXHAUST AIR DUCT SHALL BE TERMINATED WITH EXHAUST GRILLE AT THE END OF THE DUCT. DUCT IS ABOVE THE SUSPENDED CLOUD/CEILING.
6	PROVIDE AND INSTALL PAINTABLE JACKET ON ALL NEW AND EXISTING EXPOSED DUCTWORK WITHIN PROJECT SCOPE. COORDINATE COLOR OF JACKET PAINT WITH ARCHITECT AND ALL OTHER TRADES.
7	14" EXHAUST DUCTWORK DOWN TO NEW EXHAUST HOOD PROVIDED BY OTHERS.
8	ADD ALTERNATE 01: PROVIDE 14" EXHAUST DUCTWORK DOWN TO NEW EXHAUST HOOD PROVIDED BY OTHERS.
9	ADD ALTERNATE 01: PROVIDE NEW EXHAUST AIR VALVE FOR FUME HOOD.
10	CONTRACTOR SHALL CERTIFY THE FUME HOOD PERFORMANCE IN ACCORDANCE WITH ASHRAE 110 USING A QUALIFIED PROFESSIONAL FIRM AND PROVIDE A WRITTEN REPORT OF THE TESTING PERFORMED.



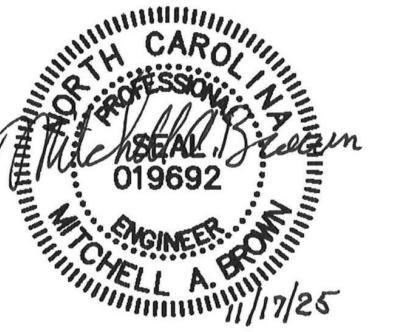
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3 NAME  
NC VENABLE HALL LOWER LEVEL UFIT  
ATION  
VENABLE HALL LOWER LEVEL  
01 South RD  
CHAPEL HILL, NC 27514  
CCO ID: 24-28389-01A

SSCO ID: 24-28389-01A

CLIENT NAME	THE UN
JOB NAME	UNC VE
LOCATION	VENABL
	101 So
	CHAPEL
ISSUE DATE	SCO ID:

ISSUE DATE  
**11-17-25**

---

DWG. NO.

M211

# IV. CONCLUSION

## PIPING - GROUND

# FLOOR PLAN

This architectural floor plan illustrates a building section with various rooms and technical fixtures. The plan includes the following labels:

- Rooms: D.8, E.3, F, G, H.
- Vertical levels: 6.5, 7, 7.5, 8, 9, 10, 11.4, 12, 12.3.
- Technical fixtures and labels:
  - AT-G301-1, AT-G301-2, AT-G301-3, AT-G301-4
  - EV-G301C, EV-G301-1, EV-G301-3, EV-G301-K
  - 1 1/2" HWR, 1 1/2" HWS
  - HT (Heated) symbols
  - Walls and door symbols

# MECHANICAL PIPING BASEMENT PLAN

SCALE: 1/8" =



# PIPING - GROUND FLOOR PLAN



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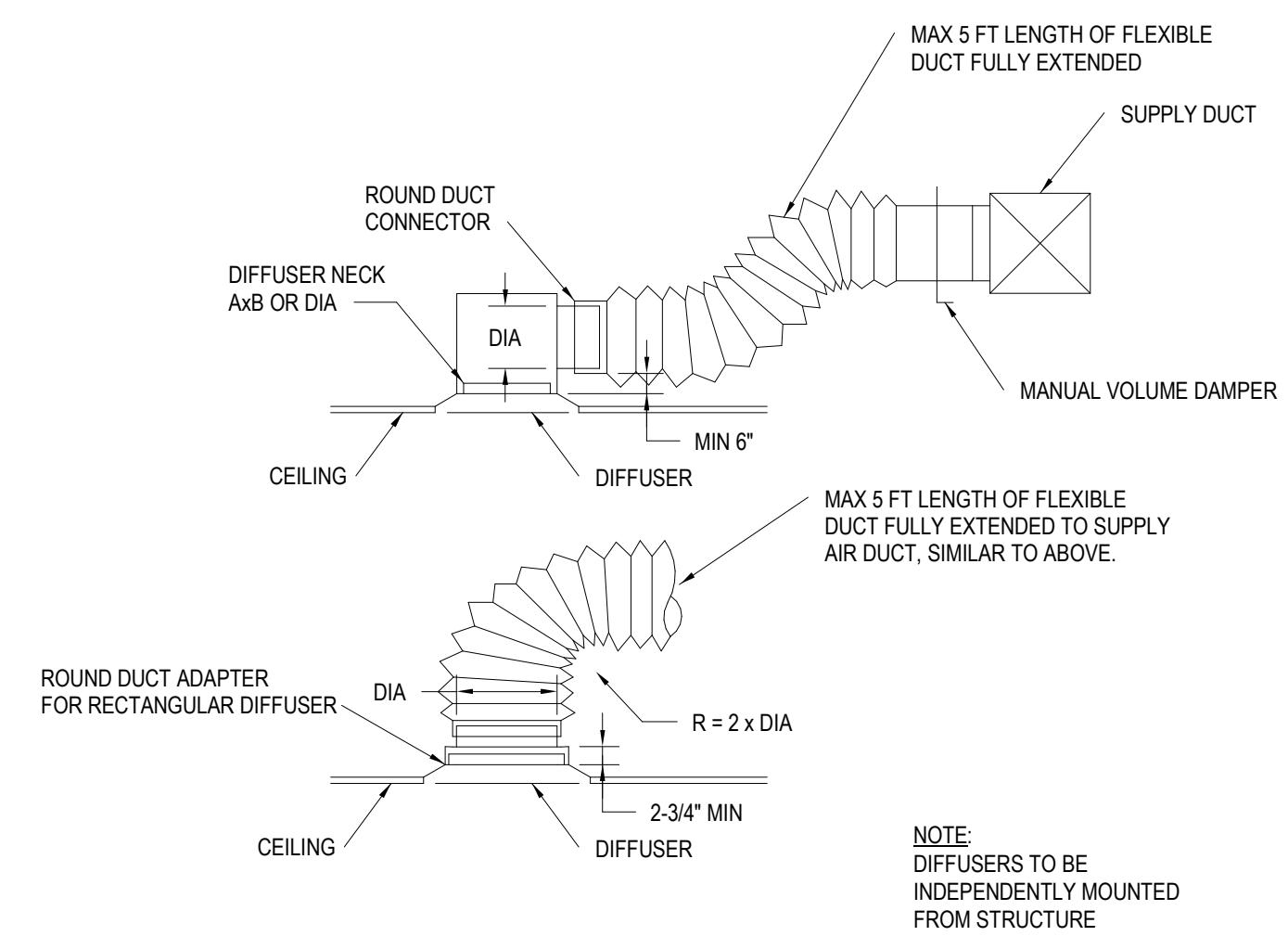


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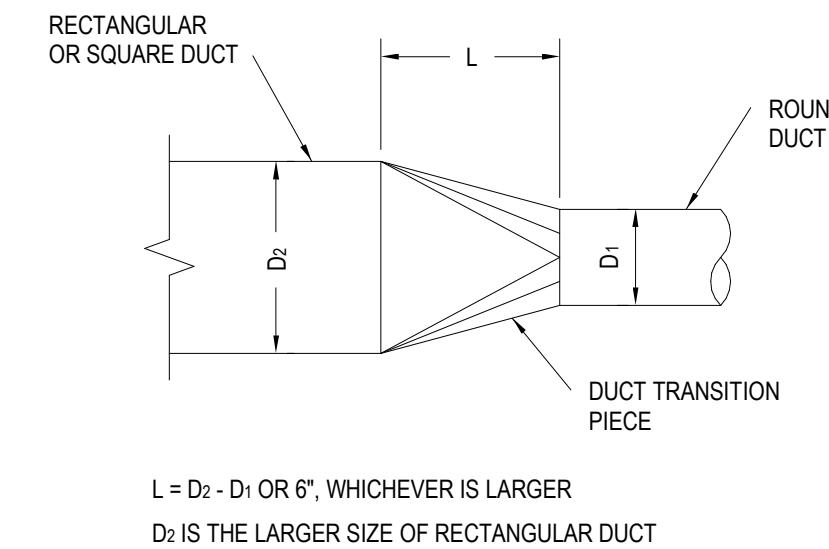
**M301**

MECHANICAL  
DETAILS



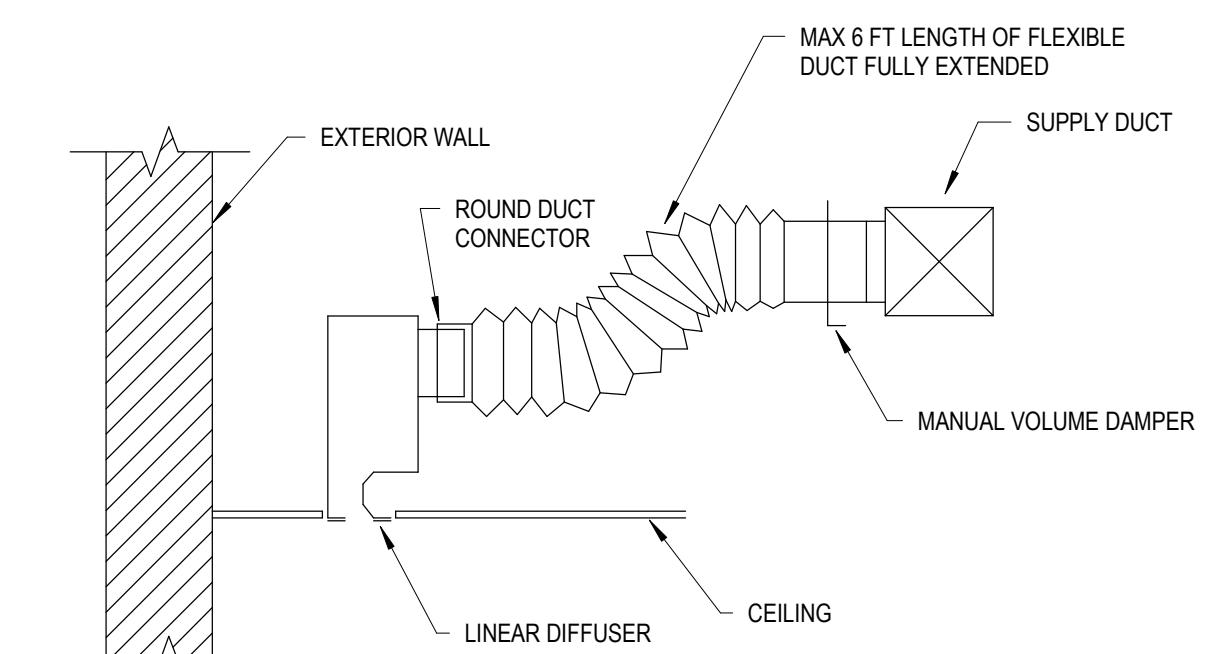
**1 DIFFUSER CONNECTION**

SCALE: 12" = 1'-0"



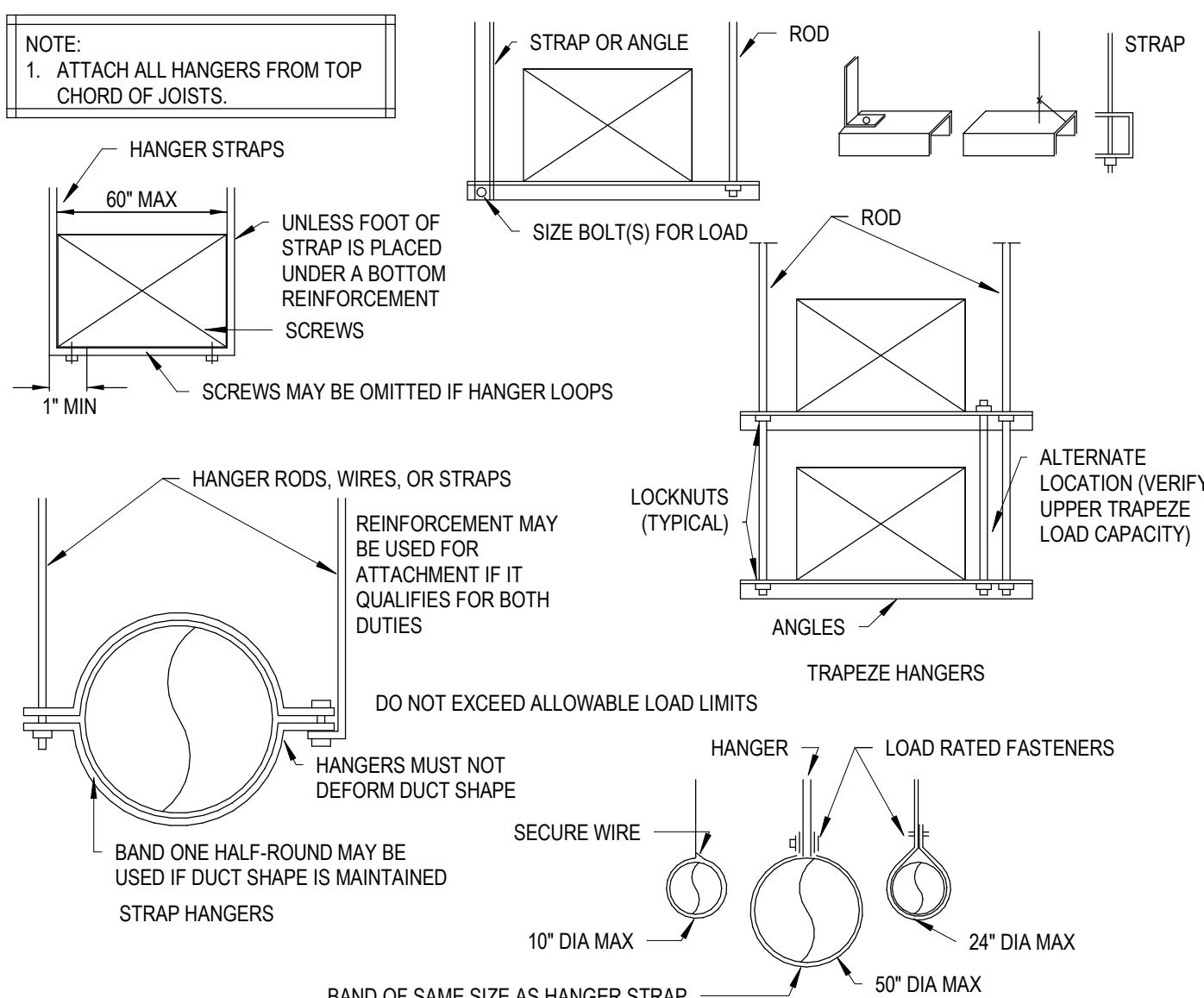
**2 3-210 DUCT TRANSITION**

SCALE: 12" = 1'-0"



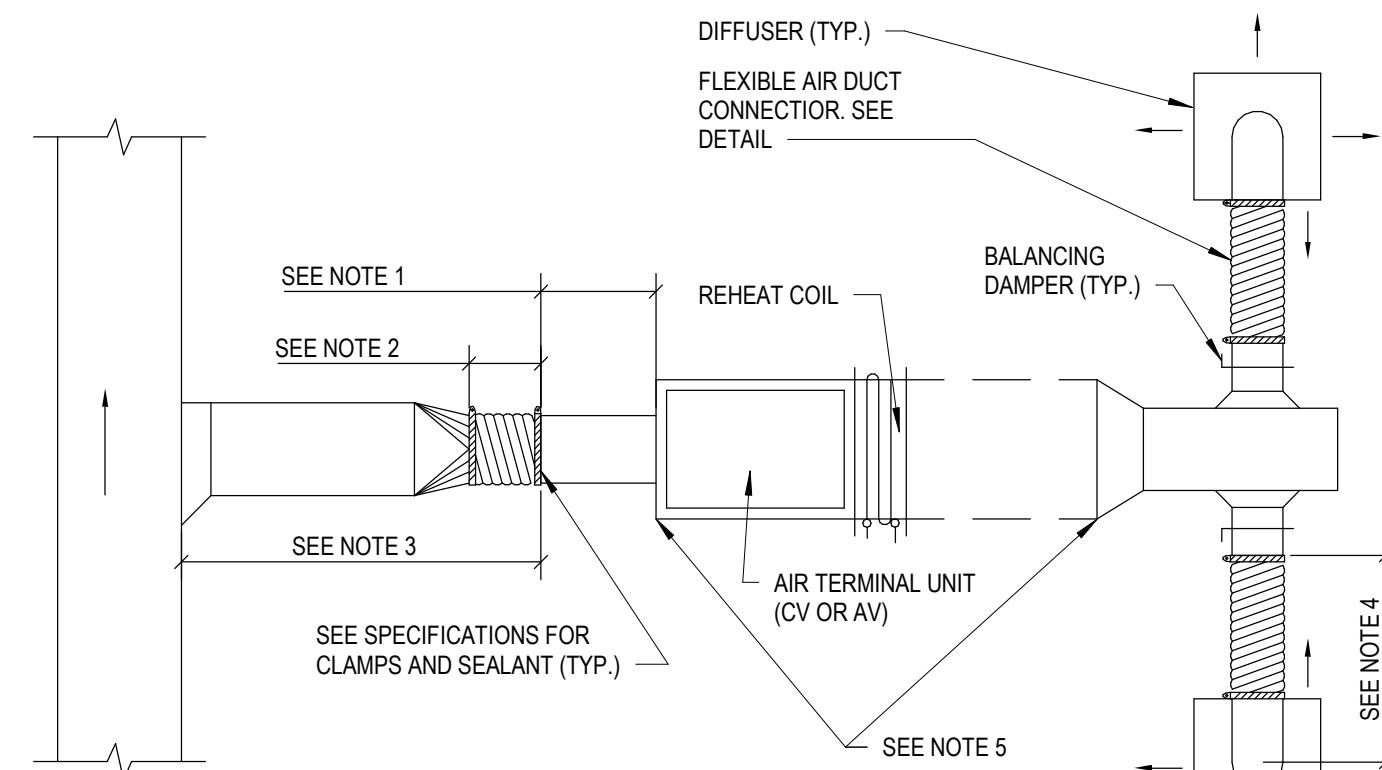
**3 LINEAR DIFFUSER CONNECTION**

SCALE: NTS



**4 DUCT HANGERS**

SCALE: NTS



**5 AIR TERMINAL UNITS - DUCT CONNECTIONS**

SCALE: NTS

NOTES:

- RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET.
- FLEXIBLE AIR DUCT CONNECTOR IS NOT MANDATORY FOR INLET TO THIS BOX, BUT ALLOWED TO ACCOMMODATE MINOR OFFSETS. MAXIMUM LENGTH 3'-0".
- A BRANCH DUCT SERVING AN INDIVIDUAL BOX MAY BE THE SAME SIZE AS THE BOX INLET, PROVIDED THE EQUIVALENT LENGTH OF THE BRANCH DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET. FOR LONGER LENGTHS, INCREASE THE DUCT SIZE AND PROVIDE A DUCT TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE DROP AT OR BELOW 0.27100.
- FLEXIBLE AIR DUCT CONNECTORS, WHEN USED FROM TERMINAL UNIT SUPPLY AIR DUCT TO DIFFUSER, SHALL NOT EXCEED 5'-0". USE RIGID ELBOWS FOR CHANGE OF DIRECTION GREATER THAN 45°.
- COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. PROVIDE INSULATION/W/VAPOR BARRIER FOR CONNECTING DUCT SECTIONS.
- USE OF THE FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED SYSTEMS SERVING A SURGICAL SUITE.
- PROVIDE CEILING ACCESS TO EACH TERMINAL BOX IN NON-ACCESSIBLE CEILINGS. CONTROLS TO BE LOCATED FOR ADEQUATE SERVICE ACCESS.

SCO ID: 24-28389-01A



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**M401**

MECHANICAL  
SCHEDULES

### AIR TERMINAL DEVICES SCHEDULE

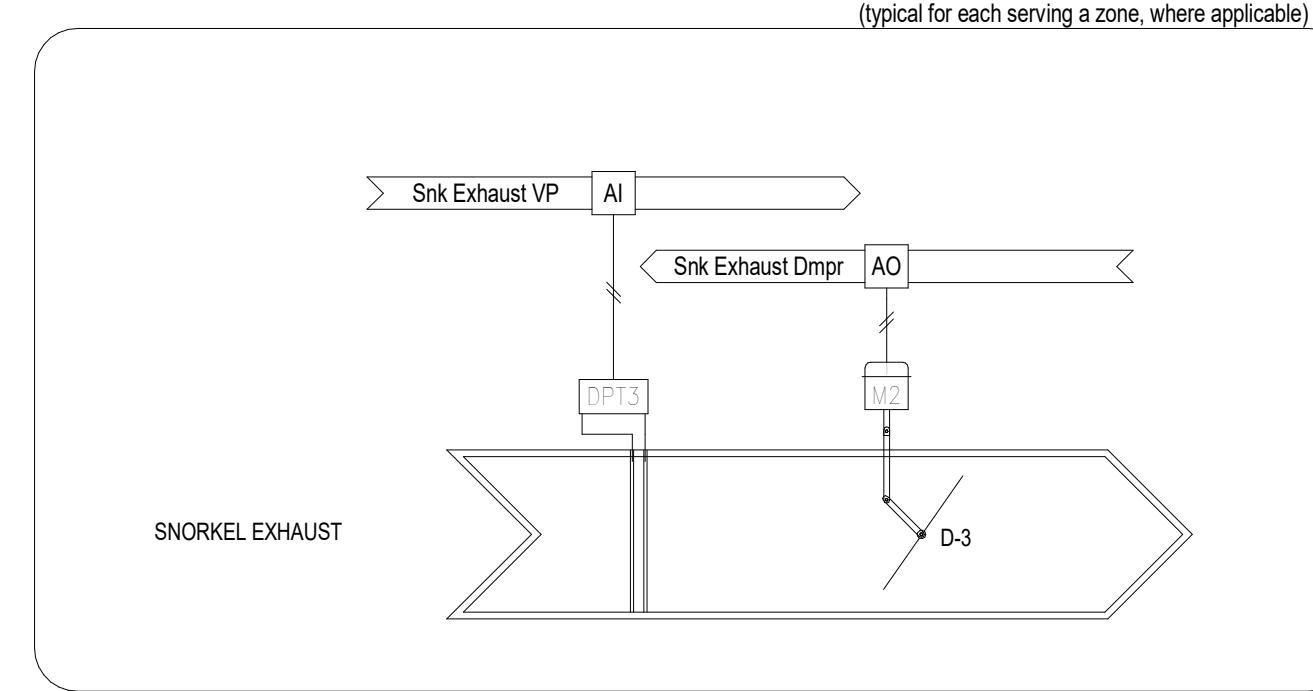
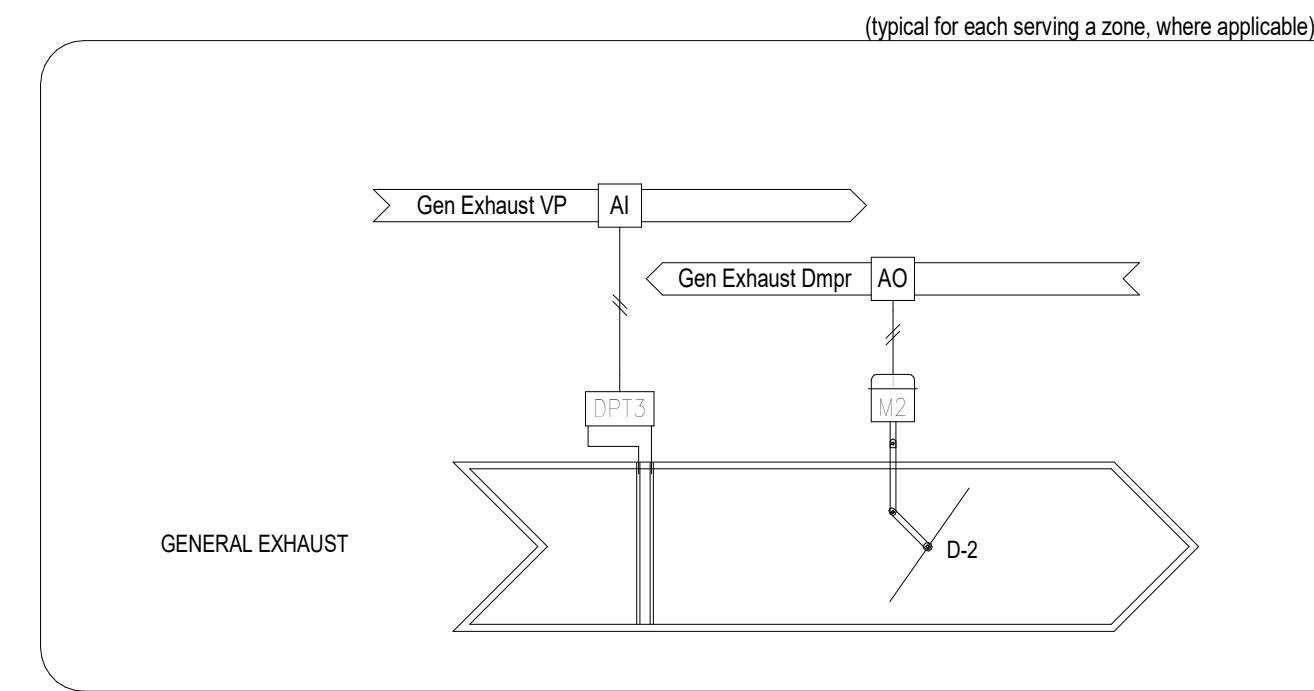
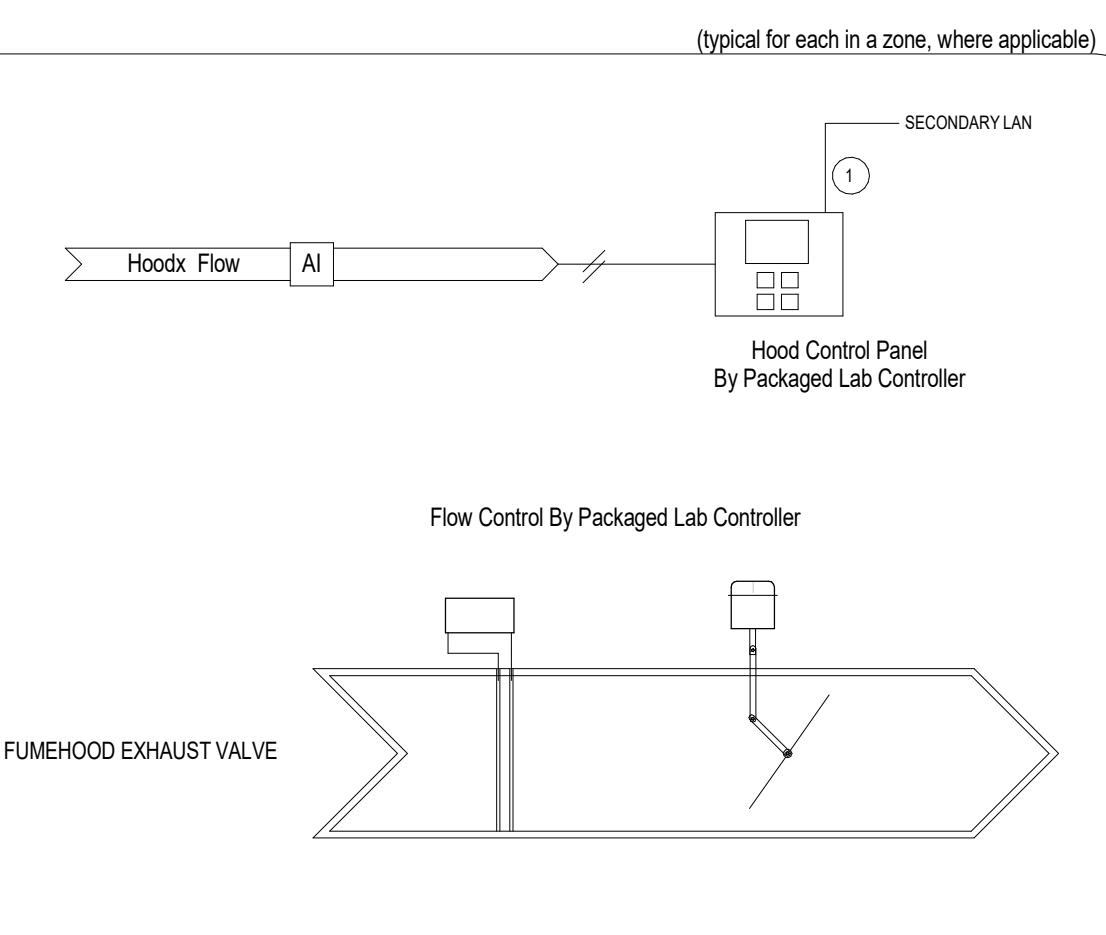
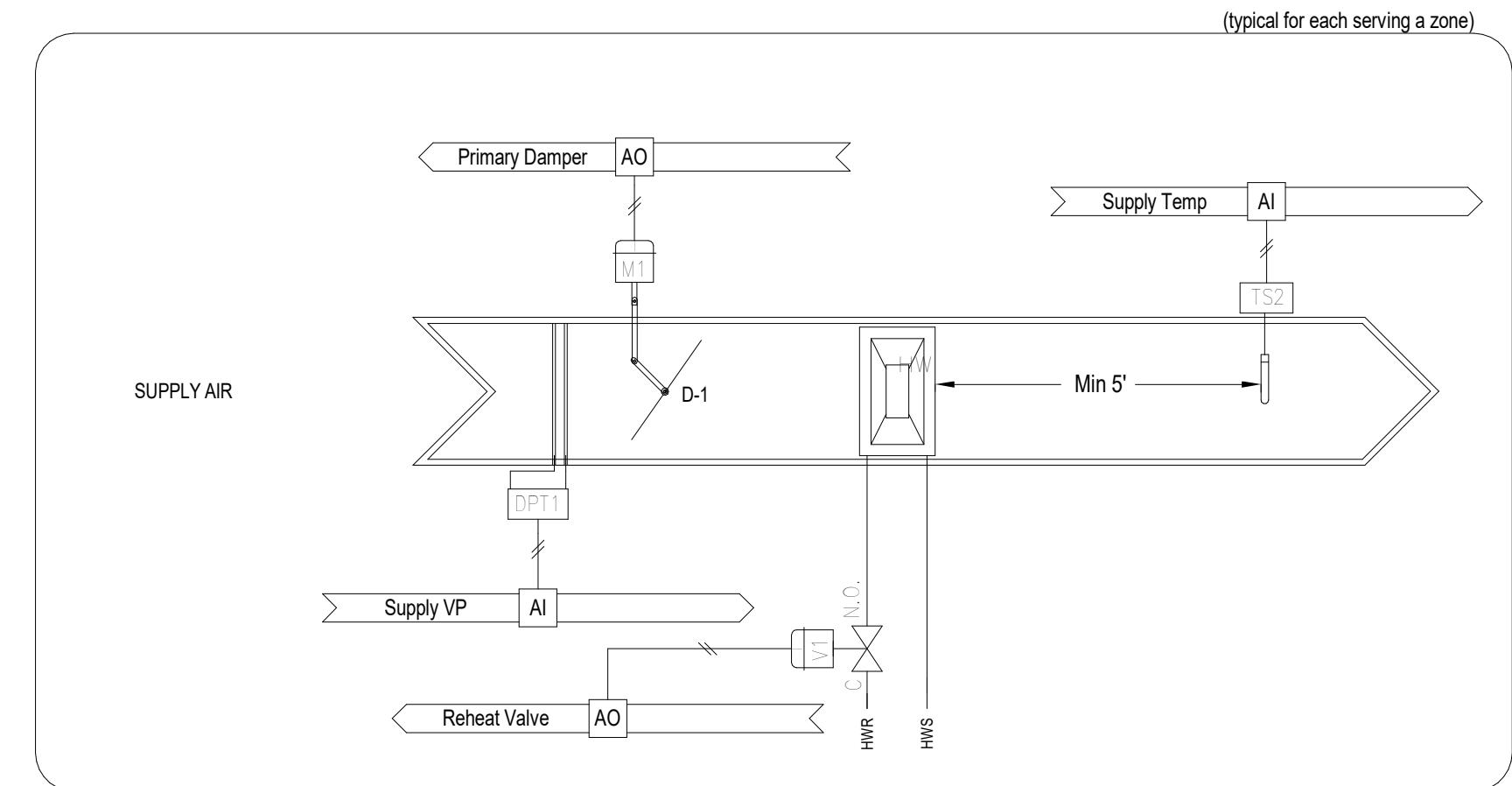
TAG	SYSTEM TYPE	STATUS	MAX AIRFLOW (CFM)	MIN AIRFLOW (CFM)	INLET SIZE (IN. Ø)	APD (IN WC)	REHEAT CFM	HEAT CAPACITY (MBH)	EAT (°F)	LAT (°F)	GPM	EWT (°F)	LWT (°F)	WPD (FT)	MANUF	MODEL	NOTES
EV-G301-1	EXHAUST	EXISTING	750	750	14	EX.	-	-	-	-	-	-	-	-	EXISTING	EXISTING	
EV-G301-2	EXHAUST	NEW	1740	700	14	0.17	-	-	-	-	-	-	-	-	ACCUTROL	AVT6414-03	2
EV-G301-3	EXHAUST	NEW	1000	120	10	0.27	-	-	-	-	-	-	-	-	ACCUTROL	AVC6210-03	2
EV-G301-4	EXHAUST	NEW	1790	750	14	0.18	-	-	-	-	-	-	-	-	ACCUTROL	AVT6414-03	2
EV-G301-5	EXHAUST	NEW	1000	120	10	0.27	-	-	-	-	-	-	-	-	ACCUTROL	AVC6210-03	1, 2
EV-G301C	EXHAUST	RELOCATED	150	0	6	EX.	-	-	-	-	-	-	-	-	EXISTING	EXISTING	
EV-G301K	EXHAUST	RELOCATED	150	0	6	EX.	-	-	-	-	-	-	-	-	EXISTING	EXISTING	
AT-G301-1	SUPPLY	EXISTING	1050	1050	14	EX.	1050	42	55	85	4.3	160	140	0.2	EXISTING	EXISTING	
AT-G301-2	SUPPLY	EXISTING	1750	1750	14	EX.	1750	64.7	55	85	6.6	160	140	0.2	EXISTING	EXISTING	
AT-G301-3	SUPPLY	NEW	1800	1800	14	0.38	1800	72.4	55	85	4.02	160	140	4.51	PRICE	SDV	3

NOTES:  
1. ADD ALTERNATE 01: PROVIDE NEW EXHAUST AIR VALVE FOR FUME HOOD.  
2. PROVIDE NEW VENTURI TYPE AIR TERMINAL UNIT.  
3. PROVIDE NEW BLADE TYPE AIR TERMINAL UNIT.

AIR DISTRIBUTION SCHEDULE						
TAG	SYSTEM	BASIS OF DESIGN		DESCRIPTION	MAX. N.C.	NOTES
		MANUF	MODEL			
EAG-1	EXHAUST	PRICE	PDDR	PERFORATED RETURN GRILLE, 24x24" FACE WITH SQUARE INLET PROFILE WITH SQUARE TO ROUND INLET CONNECTION WHERE REQUIRED. SEE PLANS FOR NECK SIZES/DIMENSIONS.	25	
EAG-2	EXHAUST	PRICE	80	EGG CRATE RETURN GRILLE, 0" CORE, 1/2 IN X 1/2 IN. DEPTH	25	
SAD-1	SUPPLY	EXISTING	EXISTING	EXISTING 24x24" DIFFUSER. SEE PLANS FOR AIRFLOW.	25	
SAD-2	SUPPLY	PRICE	SDS	PRICE SDS100 WITH SDS PLenum, 1 IN. SLOT WIDTH WITH 3 SLOTS.	25	

**M401**

MECHANICAL  
SCHEDULES



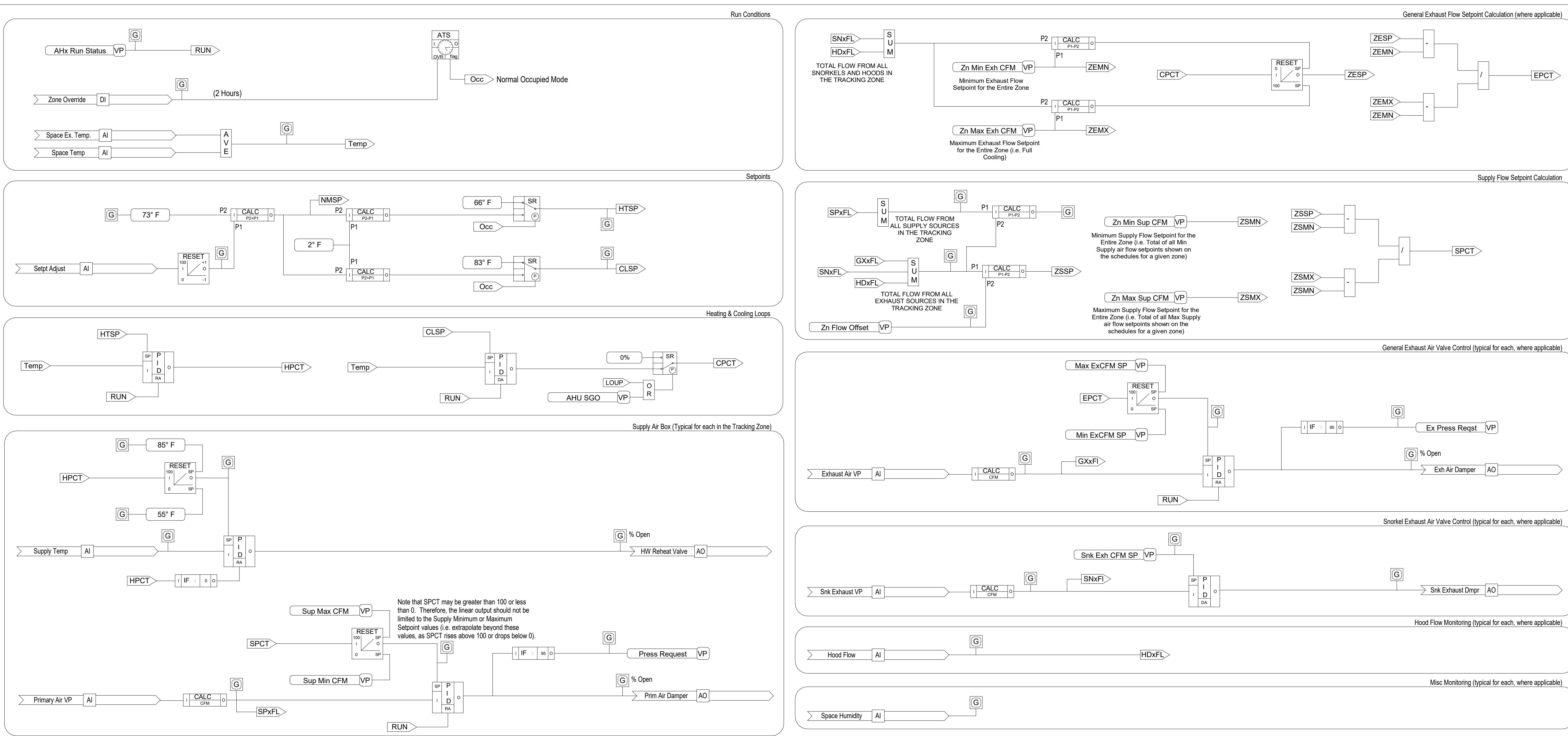
## NOTES

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1. Provide digital interface to the control system for diagnostic point information. Required points to be mapped include: Hood cfm, Master Alarm, Volume/Velocity Reset & Sash Position. Hood Flow point to be hardwired to the BAS for flow calculation of General Exhaust and Supply Air Valves
2. NOT USED
3. Provide a single controller for each Flow Tracking Zone. Broadcasting flow setpoints between separate controllers at each Supply or Exhaust valve is not acceptable.
4. Provide a single graphic for each flow tracking zone that depicts all equipment and devices in the zone. Show all values and setpoints as indicated in the logic diagram below. Provide links to the fume hood controllers from the tracking zone graphic, as applicable.
5. Drawing applies to entire open lab. i.e. Each open lab is considered a single flow tracking zone.
6. Average all zone sensors in a flow tracking zone. Use average zone temperature as controlling input for space temperature control. Provide software logic that will allow the system operator to exclude any individual zone temperature sensors from the averaging calculations through the head end. This should be accomplished without the need to modify or download a new program
7. Provide only 1 zone sensor in each open lab/ flow tracking zone with setpoint adjust and override. All other sensors shall have space temperature only. Locations of the zone sensors with setpoint adjust and override shall be labeled and shown on the floor plans.

REVISION:	
SCO REVIEW	9/15/25
2nd SCO REVIEW	10/24/25
Construction Set	11/17/25

# CONSTRUCTION SET



ENT NAME  
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
3 NAME  
NC VENABLE HALL LOWER LEVEL UFIT  
CATION  
VENABLE HALL LOWER LEVEL  
01 South RD  
CHAPEL HILL, NC 27514

CHAPEL HILL, NC 27514

# M501

## MECHANICAL CONTROL DIAGRAMS



**NOTCH**  
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Raleigh, NC 27612  
(919) 233-8091  
(919) 233-8031 Fax

NC License# F-1222

REVISION  
SCO REVIEW 9/15/25  
2nd SCO REVIEW 10/24/25  
Construction Set 11/17/25

## CONSTRUCTION SET



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Notch Design

CLIENT NAME: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
JOB NAME: UNC VENABLE HALL LOWER LEVEL UPLIFT  
LOCATION: 101 South RD  
CHAPEL HILL, NC 27514

SCO ID: 24-28389-01A

**E001**

ELECTRICAL  
LEGEND SHEET

GENERAL	
#	DEMOLITION KEYED NOTE.
#	NEW WORK KEYED NOTE.
◆	REMOVE WIRING, CABLING, ETC. TO THIS POINT.
●	CONNECT WIRING, CABLING, ETC. TO THIS POINT.
X	FEEDER TAG - SEE FEEDER SCHEDULE
PR	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO REMAIN.
PRN	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND REPLACED WITH NEW.
PRR	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., SHOWN AT NEW LOCATION
PRX	PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND OUTLET BOX EXTENSION INSTALLED FOR SURFACE CONDUIT OR SMR AND WIRE EXTENSION TO NEW OUTLET SHOWN. REINSTALL PRESENT LIGHTING FIXTURE, SWITCH, DEVICE, ETC.
RPC	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., AND CAP OUTLET
RPP	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., PATCH THE PLASTER IF IN PLASTER: CAP IF IN METAL OR WOOD.
RPR	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., TO BE REMOVED AND RELOCATED.
RPX	REMOVE PRESENT FIXTURE, SWITCH, DEVICE, ETC., WIRE AND ALL RELATED EXPOSED RACEWAY INSOFAK AS IS POSSIBLE. ALL DAMAGED SURFACES TO BE REPAIRED.

LIGHTING FIXTURES	
	SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE. SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
	SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO EMERGENCY/LIFE SAFETY BRANCH CIRCUIT OR PROVIDE EMERGENCY DRIVER. SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
	SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE CONNECTED TO CRITICAL BRANCH CIRCUIT OR PROVIDE EMERGENCY DRIVER. SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS.
#	SURFACE MOUNTED TRACK LIGHTING SYSTEM. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT TRACK AND FIXTURE REQUIREMENTS.
#	MONO-POINT HEAD LIGHT FIXTURE. LETTER INDICATES TYPE. SEE LIGHTING FIXTURE KEY FOR TAG INFORMATION. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT TRACK AND FIXTURE REQUIREMENTS.
	CEILING MOUNTED EXIT SIGN. SHADED AREA INDICATES FACE WITH DIRECTIONAL ARROWS AS SHOWN. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.
	WALL MOUNTED EXIT SIGN. SHADED AREA INDICATES FACE WITH DIRECTIONAL ARROWS AS SHOWN. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.
	POLE MOUNTED ROUND SITE LIGHTING FIXTURE. NUMBER OF HEADS AS SHOWN ON PLANS
	POLE MOUNTED SQUARE SITE LIGHTING FIXTURE. NUMBER OF HEADS AS SHOWN ON PLANS
	STRIP FIXTURE
	DOWNLIGHT FIXTURE
	WALL WASHER FIXTURE
	BOLLARD
	PENDANT LIGHT
	EMERGENCY BATTERY PACK UNIT WITH NUMBER OF LAMPS AS INDICATED WITH SELF DIAGNOSTICS. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO INDICATED BRANCH CIRCUIT.
	EMERGENCY REMOTE LIGHTING FIXTURE WITH SINGLE LAMP. LETTER (WHERE SHOWN) INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO REMOTE BATTERY PACK, SEE PLANS.
	EMERGENCY REMOTE LIGHTING FIXTURE WITH DOUBLE LAMPS. LETTER (WHERE SHOWN) INDICATES TYPE. SEE LIGHTING FIXTURE SCHEDULE FOR EXACT REQUIREMENTS. CONNECT UNSWITCHED TO REMOTE BATTERY PACK, SEE PLANS.
LIGHTING FIXTURE KEY	
X	INDICATES FIXTURE TYPE SEE SCHEDULE FOR DESCRIPTION
Y	INDICATES SWITCH CONTROL (a.b.c..)
YY-#	INDICATES CIRCUIT NUMBER
INDICATES PANEL NAME	INDICATES CIRCUIT NUMBER

LIGHTING CONTROLS		
WALL	CEILING	
		DUAL TECHNOLOGY OCCUPANCY SENSOR IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) CEILING-MOUNTED OUTLET BOX. X- DENOTES CONTROL ZONE
		DUAL TECHNOLOGY VACANCY SENSOR IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) CEILING-MOUNTED OUTLET BOX. X- DENOTES CONTROL ZONE
		DAYLIGHT SENSOR
		CLOSED LOOP LIGHTING PHOTOCELL. MOUNT PER MANUFACTURER'S REQUIREMENTS. X- DENOTES CONTROL ZONE
		OPEN LOOP LIGHTING PHOTOCELL. MOUNT PER MANUFACTURER'S REQUIREMENTS. X- DENOTES CONTROL ZONE
SBD		SWITCH BYPASS DEVICE.
LC		LIGHTING CONTROL STATION - REFER TO KEY NOTES OR TYPE DETAIL FOR MORE INFORMATION # INDICATES TYPE NUMBER (1,2,3...)
LC#		LIGHTING OR SWITCHED RECEPTACLE ZONE MODULE.
ZM		NORMAL POWER LIGHTING POWER PACK. SEE E200 FOR BASIS OF DESIGN.
PP		EMERGENCY POWER LIGHTING POWER PACK. SEE E200 FOR BASIS OF DESIGN
EM		SINGLE-POLE SWITCH IN FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. X- DENOTES TYPE (MAY BE MULTIPLE):

a.b.c	SWITCH / CONTROL ZONE/GROUP	LVD	LOW VOLTAGE DIMMER
3	THREE WAY	MC	MOMENTARY CONTACT
4	FOUR WAY	M	MOTOR STARTER
D	DIMMER	P	PILOT LIGHT
OS	DUAL TECH OCCUPANCY SENSOR	T	TIMER SWITCH WITH VISUAL AND AUDIBLE OFF WARNING
OS2	DUAL TECH, DUAL CIRCUIT OCCUPANCY SENSOR	VS	VACANCY SWITCH
E	EMERGENCY (RED COLOR)	VSD	VACANCY SWITCH DIMMER
F	FAN	W	WET LOCATION
K	KEY OPERATED	WP	WEATHER PROOF COVER
LV	LOW VOLTAGE	X	EXPLOSION PROOF

DATA / COMMUNICATION - PATHWAYS & BOXES		
WALL	FLOOR	CEILING
		DATA OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES). MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL STRING.
		VOICE OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES). MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL STRING.
		VOICE/DATA OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES). MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL STRING.
		WIRELESS ACCESS POINT - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET CEILING MOUNTED FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX.
		TELEVISION CABLE OUTLET - 4" SQUARE BOX WITH SINGLE GANG DEVICE BRACKET FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MINIMUM 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL STRING.
WALL	CEILING	
		COMMUNICATION SYSTEM SPEAKER. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
AU		AUDIO INPUT
MIC		MICROPHONE
BASKET TRAY - (width) x (height) AS INDICATED.		

ACCESS CONTROL - PATHWAY & BOXES	
ACE	FLUSH MOUNTED ACCESS CONTROL CARD READER MOUNTED 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
CRI	FLUSH MOUNTED ACCESS CONTROL CARD READER MOUNTED 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
KP	FLUSH MOUNTED ACCESS CONTROL KEY PAD MOUNTED 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
DR	DOOR RELEASE BUTTON. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
HS	INFRARED HAND SENSOR FOR HANDS FREE DOOR OPERATION. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
REX	REQUEST TO EXIT
EDS	ELECTRIC DOOR STRIKE
ES	MAG LOCK DEVICE - PROVIDE 120V TO THIS LOCATION.
ML	DOOR CONTACTS. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
DC	PROVIDE POWER RACEWAYS. EMPTY 1" CONDUIT WITH PULL STRING AND BACK BOXES FOR TELECOM, SECURITY AND AV DEVICES AND EQUIPMENT AS REQUIRED.

POWER EQUIPMENT		
		480/277 VOLT PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. DESIGNATION AS INDICATED. REFER TO PANELBOARD SCHEDULES FOR EXACT REQUIREMENTS.
		208Y/120 OR 120/240 VOLT PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. DESIGNATION AS INDICATED. REFER TO PANELBOARD SCHEDULES FOR EXACT REQUIREMENTS.
		EXISTING PANELBOARD, FLUSH AND SURFACE MOUNTED RESPECTIVELY. DESIGNATION AS INDICATED. REFER TO PANELBOARD SCHEDULES FOR EXACT REQUIREMENTS.
		ELECTRICAL POWER POLE, MOUNTING AND CONFIGURATION AS SPECIFIED.
		MOTOR CONNECTION. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL CONNECTION.
		ENCLOSED CIRCUIT BREAKER. FRAME SIZE AND TRIP RATING AS INDICATED ON PLANS.
		MANUAL MOTOR STARTER. STARTER TYPE AND SIZE AS INDICATED ON PLANS.
		NON-FUSED DISCONNECT. FRAME SIZE AS INDICATED ON PLANS.
		FUSED DISCONNECT. FRAME SIZE AND TRIP RATING AS INDICATED ON PLANS. PROVIDE FUSES PER NAMEPLATE OF EQUIPMENT SERVED UNLESS OTHERWISE INDICATED.
		COMBINATION MOTOR STARTER & DISCONNECT. FRAME SIZE, TRIP RATING, AND STARTER SIZE AS INDICATED ON PLANS.
		SPECIAL EQUIPMENT CONNECTION. SEE KEYED NOTE OR EQUIPMENT CONNECTION SCHEDULE FOR EXACT REQUIREMENTS.

DISCONNECT SWITCH TAG KEY	
SIZE	NO. OF POLES
WMT	NEMA TYPE
INFNR	FUSE SIZE OR NF

VARIABLE FREQUENCY DRIVE - ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL CONNECTION.

AUTOMATIC TRANSFER SWITCH - SEE RISER DIAGRAM

TRANSFORMER - SEE RISER DIAGRAM

POWER DEVICES		
WALL	FLOOR	CEILING
		125 VOLT, 3 WIRE DUPLEX RECEPTACLE FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX.
		125 VOLT, 3 WIRE DUPLEX RECEPTACLE FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX.
		EMERGENCY DUPLEX RECEPTACLE
		EMERGENCY GFI DUPLEX RECEPTACLE
		QUAD RECEPTACLE
	</td	

## LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	LAMP DATA		DRIVER DATA		MOUNTING	INPUT WATTS	DESCRIPTION
			NO.	TYPE	NO.	TYPE			
A	LITHONIA EATON HUBBELL OR ENGINEER APPROVED EQUAL	LSIX-4FT-6000LM-80CRI-40K-BFR-SWL-MINI-ZT-MVOLT-MW	NA	LED 4000K	NA	DIMMING	RECESSED	51 WATTS	6"X4" LOW-PROFILE LINEAR RECESSED LED, MATTE WHITE FINISH, BEZEL FRAME, 80CRI+
AE	LITHONIA EATON HUBBELL OR ENGINEER APPROVED EQUAL	LSIX-4FT-6000LM-80CRI-40K-BFR-SWL-MINI-ZT-MVOLT-MW-E10WLCP	NA	LED 4000K	NA	DIMMING	RECESSED	51 WATTS	6"X4" LOW-PROFILE LINEAR RECESSED LED, MATTE WHITE FINISH, BEZEL FRAME, 80CRI+ EM SELF DIAGNOSTIC BATTERY PACK-10W
B	LITHONIA EATON HUBBELL OR ENGINEER APPROVED EQUAL	GRD-LSL-8FT-MSL4-80CRI-40K-ID1300LMF-20/80-MIN1-MVOLT-SCT-F1-24A-C110	NA	LED 4000K	NA	DIMMING	SUSPENDED	62 WATTS	4' DIRECT AND INDIRECT LINEAR PENDANT, PAINTED ALUMINUM (LOW GLOSS)
C	LITHONIA EATON HUBBELL OR ENGINEER APPROVED EQUAL	ZL1D-L48-3000LM-FST-MVOLT-40K-80CRI-HC36M12	NA	LED	NA		SUSPENDED	30 WATTS	4' INDUSTRIAL STRIP WITH CURVED REFLECTOR AND NARROW DISTRIBUTION, CONSTANT OUTPUT, PROVIDE WITH MOUNTING KIT AS NECESSARY
EX	LITHONIA EATON HUBBELL OR ENGINEER APPROVED EQUAL	LRP-1-RC-X-120/277	NA	LED	NA		SURFACE	2 WATTS	LED EDGE-LIT EXIT SIGN, BRUSHED ALUMINUM HOUSING, SINGLE FACE, RED ON CLEAR, NICKEL-CADMIUM BATTERY, SELF DIAGNOSTICS.

INTERIOR LIGHTING POWER (NEW)			
ROOM #	ROOM NAME	AVG. (FC)	IES RECOMMENDED AGV. (FC)
G301B	TEACHING LAB	71.6	50-75
G301C	TEACHING LAB	60.2	50-75
11M	STORAGE	10	10-20

INTERIOR LIGHTING POWER (NEW)			
LUMINAIRE TYPE	WATTS(W)	QTY	TOTAL WATTS(W)
A	51	31	1581
B1	31	1	31
B2	62	5	310
D	15	8	120
			2042 (TOTAL)

INTERIOR LIGHTING POWER ALLOWANCE PER NCECC 405.4.2			
SPACE NAME	AREA(SQFT)	WATTS/SQFT	TOTAL WATTS ALLOWED(W)
TEACHING LAB G301B	1554.72	1.43	2223.2
TEACHING LAB G301C	1556.9	1.43	2226.4
STORAGE 11M	63.02	0.63	39.7
	4489.3		x 0.9 4040.4 (W)
			(*) (ALLOWED)

Note (\*): 0.9 IS PER NCECC 405.2 REDUCE LIGHTING POWER DENSITY BASED ON AREA BEING RENOVATED

## 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN  
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

### ELECTRICAL SUMMARY

#### ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code:  Prescriptive  Performance  
ASHRAE 90.1:  Prescriptive  Performance

#### Lighting schedule (each fixture type)

lamp type required in fixture SEE LUMINAIRE SCHEDULE  
number of lamps in fixture SEE LUMINAIRE SCHEDULE  
ballast type used in the fixture SEE LUMINAIRE SCHEDULE  
number of ballasts in fixture SEE LUMINAIRE SCHEDULE  
total wattage per fixture SEE LUMINAIRE SCHEDULE  
total interior wattage specified vs. allowed (whole building or space by space) 2042W VS. 4040W  
total exterior wattage specified vs. allowed N/A

#### Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)

C406.2 More Efficient Mechanical Equipment  
 C406.3 Reduced Lighting Power Density  
 C406.4 Enhanced Digital Lighting Controls  
 C406.5 On-Site Renewable Energy  
 C406.6 Dedicated Outdoor Air System  
 C406.7 Reduced Energy Use in Service Water Heating

### GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN ACCORD WITH ALL APPLICABLE ORDINANCES, CODES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION. ALL ELECTRICAL WORK SHALL BE INSPECTED AND APPROVED BY THE LOCAL ELECTRICAL INSPECTION AGENCY MONDAY THRU FRIDAY DURING NORMAL BUSINESS HOURS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY FEES AND PERMITS, INCLUDING THE CERTIFICATE OF ELECTRICAL INSPECTION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY. ARCHITECT AND/OR ENGINEER SHALL ASSUME NO RESPONSIBILITY FOR WORKMANS, OR PEDESTRIAN'S SAFETY. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO INSTRUCT PROCEDURES OR COMPONENTS FOR PROJECT SAFETY.
- WHERE A CONFLICT ARISES BETWEEN PLANS, SPECIFICATIONS, DETAILS, SCHEDULES, APPLICABLE CODES OR REGULATIONS, THE MOST STRINGENT SHALL APPLY.
- NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO CONFLICT WITH ANY NATIONAL, STATE, MUNICIPAL, OR LOCAL LAWS OR REGULATIONS GOVERNING THE WORK INDICATED OR SPECIFIED. THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER SHALL SATISFY ALL SUCH REQUIREMENTS.
- THE CONTRACT DOCUMENTS ARE COMPRISED OF DRAWINGS AND SPECIFICATIONS. EACH ELECTRICAL BIDDER SHALL VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. PROPOSAL BIDS SHALL BE BASED ON THE COMPLETE EXAMINATION OF THE DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS. NO CONSIDERATION WILL BE GIVEN ANY CONTRACTOR WHO FAILS TO DO SO.
- THE WORK UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING OF ALL NECESSARY MATERIALS, TOOLS, LABOR FOR A COMPLETE AND WORKING INSTALLATION AS DEFINED BY THE PLANS AND SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL WARRANT THE WORK INDICATED AND SPECIFIED FOR A PERIOD OF ONE YEAR. THE WORK SHALL FUNCTION AS INTENDED, BE COMPLETE IN ALL DETAILS, AND SHALL INCLUDE ALL INDICATED, SPECIFIED, OR REQUIRED ACCESSORIES FOR A FUNCTIONING SYSTEM.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHT AND POWER AS REQUIRED BY THE GENERAL CONDITIONS OF THE SPECIFICATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. ALL DEVICES PROVIDED BY OTHERS THAT REQUIRE LINE VOLTAGE ELECTRICAL POWER SHALL BE CONNECTED BY THE ELECTRICAL CONTRACTOR. POWER, PHONE, DATA, TV, AND SIMILAR DEVICE OUTLET LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL INTERIOR LAYOUTS, THE GENERAL CONTRACTOR, AND THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNERS PROJECT MANAGER PRIOR TO AND FOR SCHEDULING ANY INTERRUPTION OF ANY BUILDING UTILITY.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITIES AND ARRANGE FOR THE FOLLOWING SERVICES: ELECTRICAL, POWER, CABLE TV, AND TELEPHONE SERVICE. THE ELECTRICAL CONTRACTOR SHALL MEET WITH THE REPRESENTATIVES OF THE ELECTRICAL UTILITY & TELECOMM UTILITY TO CONFIRM DETAILS ON THE SERVICE AND METERING. THE ELECTRICAL CONTRACTOR SHALL PAY ALL NECESSARY COSTS, FEES, AND PERMITS INVOLVED IN BRINGING SERVICE TO THE BUILDING.
- ALL HOMERUNS WITH MORE THAN SIX (6) TOTAL CONDUCTORS SHALL BE A MINIMUM OF NO. 10 THHN WIRE UNLESS SPECIFICALLY SIZED OTHERWISE.
- ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- CONTRACTOR SHALL REMOVE DEMOLITION DEBRIS COMPLETELY. CONTRACTOR SHALL SCHEDULE WITH THE OWNER THE TIME, LOCATION, ELEVATOR AND HAULING ROUTE.
- CONTRACTOR SHALL CLEAN UP ALL DEBRIS AT THE END OF EACH WORK DAY.

ELECTRICAL ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
A/AMP	AMPERE
ACFI	ARC FAULT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AGF	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASA	AMERICAN STANDARDS ASSOCIATION
ASTM	AMER. SOCIETY OF TESTING MATERIALS
AWG	AMERICAN WIRE GAUGE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
BL	BLANK
BKR	BREAKER
C	CONDUT
CB, C/B	CIRCUIT BREAKER
CKT	CIRCUIT
CCTV	CLOSED CIRCUIT TV
CLG	CEILING
CO	CONVENIENCE OUTLET
CONN	CONNECTION
CU	COPPER
DB	DIRECT BURIAL
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
EA	EACH
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EH	ELECTRIC HEAT
EIA	ELECTRONIC INDUSTRIES ASSOC.
EMT	ELECTRIC METALLIC TUBING
XP	EXPLOSION PROOF
E.EM	EMERGENCY
ELEC	ELECTRIC
EMT	ELECTRIC METALLIC TUBING
EQ/EQPM	EQUIPMENT
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EX	EXISTING
F	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FDR	FEEDER
FIXT	FIXTURE
FL	FLOOR
FLUOR	FLUORESCENT
FSS	FUSED SAFETY SWITCH
FT	FEET
G, GND, GRD	GROUND
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GTB	GROUND TERMINAL BOX
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
HPF	HIGH POWER FACTOR
HR	HOMERUN
HTR	HEATER
HVAC	HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR
HV	HIGH VOLTAGE
Hz	HERTZ
ICEA	INTERNATIONAL CABLE ENGR. ASSOC.
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IES	ILLUMINATING ENGINEERING SOCIETY
IN	INCH
IR	INFRARED
JBL/BOX	JUNCTION BOX
K	THOUSAND
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LA	LIGHTING ARRESTER
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LTS	LIGHTS
LTG	LIGHTING
LV	LOW VOLTAGE
M.C.	Mechanical Contractor
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MLO	MAL LUGS ONLY
MISC	MISCELLANEOUS
MTD	MOUNDED
MTG HGT	MOUNTING HEIGHT
MTR	MOTOR
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NF	ON-FUSED SAFETY SWITCH
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
P	POLE
PBOX	PULL BOX
PC	PHOTOCELL
P.C.	PLUMBING CONTRACTOR
PH / Ø	PHASE
PNL	PANEL
POS	POSITION
PRI	PRIMARY
PWR	POWER
REC / RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RMC	RIGID GALVANIZED METAL CONDUIT
RT	RAIN TIGHT
SCHED	SCHEDULE
SEC	SECONDARY
SIG	SIGNAL
SM	SURFACE MOUNTED
SMR	SURFACE MOUNTED RACEWAY
SPARE	SPARE
SS	SAFETY SWITCH
SW	SWITCHBOARD
SWBD	TELEPHONE
TEL / TELE	TWIST LOCK
TP	TAMPER PROOF
TX / XFMR	TRANSFORMER
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITERS' LABORATORIES, INC
UNO	UNLESS NOTED OTHERWISE
VOLTAGE	VOLTAGE
VT	VAPOR TIGHT
W	WIRE; WATT
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
WT	WATER TIGHT

**DEMOLITION GENERAL NOTES**

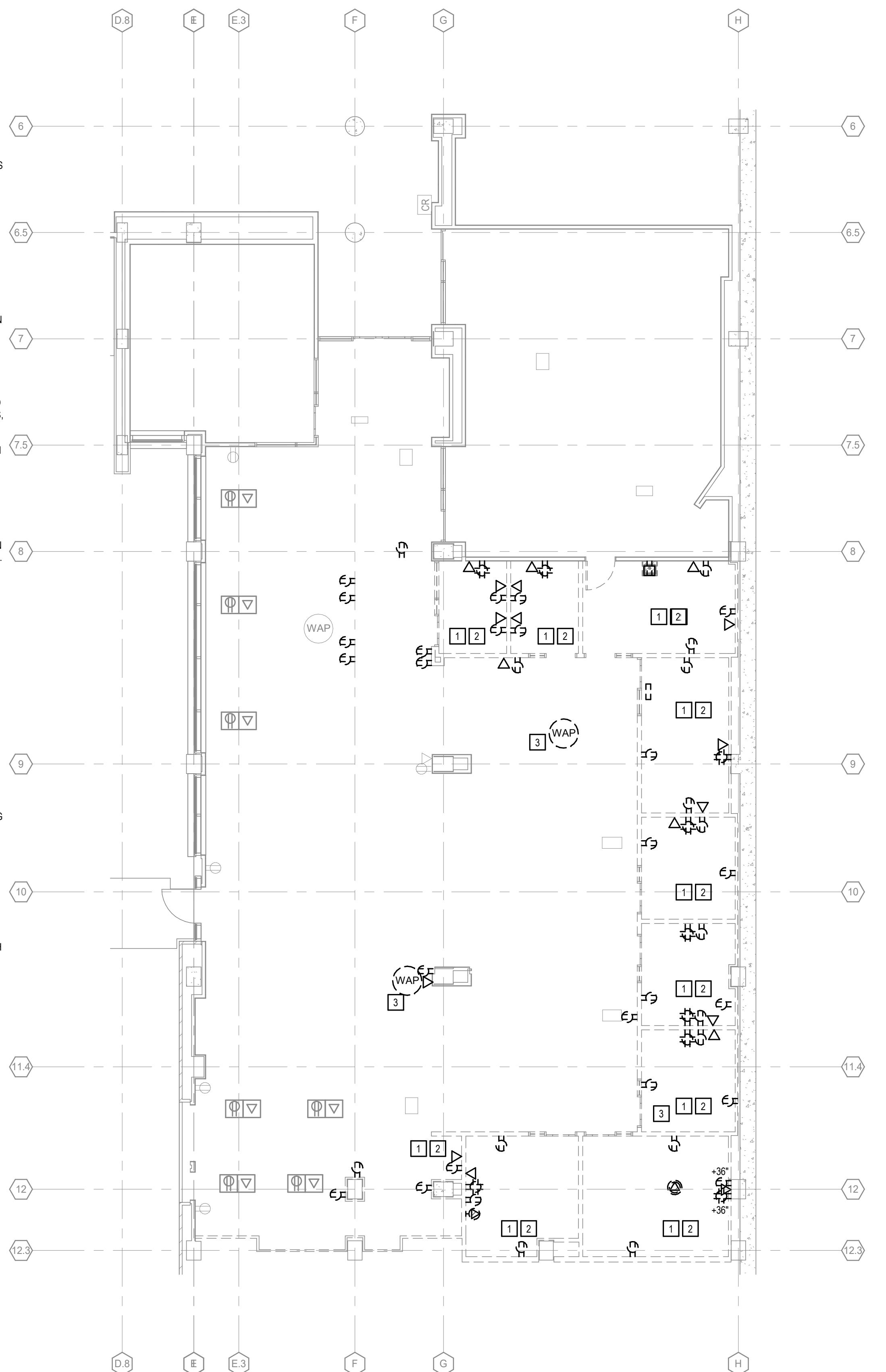
- EXISTING CIRCUIT NUMBERING IN FIELD IS INCONSISTENT BETWEEN DEVICE LABELING, SCHEDULE IN PANEL DOOR, AND RECORD DRAWINGS THEREFORE THE LABELING ON THE FLOOR PLANS SHALL BE CONFIRMED BY EC. CONTRACTOR SHALL TRACE CIRCUITS UTILIZING CIRCUIT TRACERS FOR ALL CIRCUITS IN THE AREA OF WORK. CONTRACTOR SHALL DOCUMENT EXISTING CIRCUITING IN PREPARATION FOR DEMOLITION WORK AND TO FACILITATE NEW WORK INCLUDING UPDATED LABELING AS REQUIRED PER THE SPECIFICATIONS.
- ALL PENETRATIONS OF EXISTING FLOORS AND FIRE RATED WALL OR SMOKE PARTITIONS SHALL BE PATCHED & REPAIRED AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATING OR SMOKE INFILTRATION INTEGRITY OF THE WALL. ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, DUCTWORK, ETC. SHALL BE FIRE SEALED TIGHT TO THE WALL OR FLOOR PENETRATIONS TO MAINTAIN THE REQUIRED CODE COMPLIANT FIRE RATING.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL EXISTING CONDITIONS, LOCATIONS, AND CIRCUITING OF ALL EXISTING ELECTRICAL EQUIPMENT LOCATED IN THE AREAS OF CONSTRUCTION INCLUDING EQUIPMENT LOCATED IN ADJACENT AREAS SERVED BY THE CIRCUITING LOCATED IN THESE SPACES.
- DEMOLITION WORK SHALL BE COMPLETED IN FULL. ALL CONDUIT AND WIRING SHALL BE DEMOLISHED BACK TO SOURCE UNLESS OTHERWISE NOTED. PANELS SCHEDULES SHALL BE UPDATED WHERE APPLICABLE. NO RACEWAY SHALL BE ABANDONED IN PLACE UNLESS SPECIFICALLY NOTED ON DRAWINGS.
- IN AREAS OF REMOVAL OF WALL AND CEILING MOUNTED DEVICES, CONTRACTOR SHALL REPAIR, PATCH AND CLEAN WALLS, WALL BASES, AND CEILING AS REQUIRED TO MATCH EXISTING FINISHES.
- CONTRACTOR SHALL MAINTAIN ALL CIRCUITS RUNNING THROUGH THE AREA OF DEMOLITION AND THE AREA OF NEW CONSTRUCTION.

**DEMOLITION KEY NOTES**

- DEMOLISH EXISTING RECEPTACLES (HATCHED) AND ASSOCIATED HIRING, RACEWAY, BOXES, AND SUPPORTS COMPLETELY BACK TO SOURCE OR TO FIRST JUNCTION BOX SERVING EXISTING CIRCUITING TO REMAIN EXISTING CIRCUIT SOURCE AND NUMBER SHALL BE CONFIRMED AND NOTED ON AS-BUILT DRAWINGS PRIOR TO ANY DEMO WORK.
- DEMOLISH EXISTING DATA OUTLETS (HATCHED) AND ASSOCIATED CABLING, RACEWAY, BOXES, AND SUPPORTS COMPLETELY BACK TO SOURCE.
- EXISTING CEILING MOUNTED WIRELESS ACCESS POINT SHALL BE DISCONNECTED AND SALVAGED TO BE INSTALLED IN NEW LOCATION. COORDINATE WITH OWNER.
- DEMOLISH EXISTING CONNECTION TO MECHANICAL EQUIPMENT AND ASSOCIATED WIRING, RACEWAY, BOXES, AND SUPPORTS COMPLETELY BACK TO SOURCE.

**1 GROUND FLOOR DEMO PLAN - POWER AND SPECIAL SYSTEMS**

SCALE: 1/8" = 1'-0"

**DEMOLITION GENERAL NOTES**

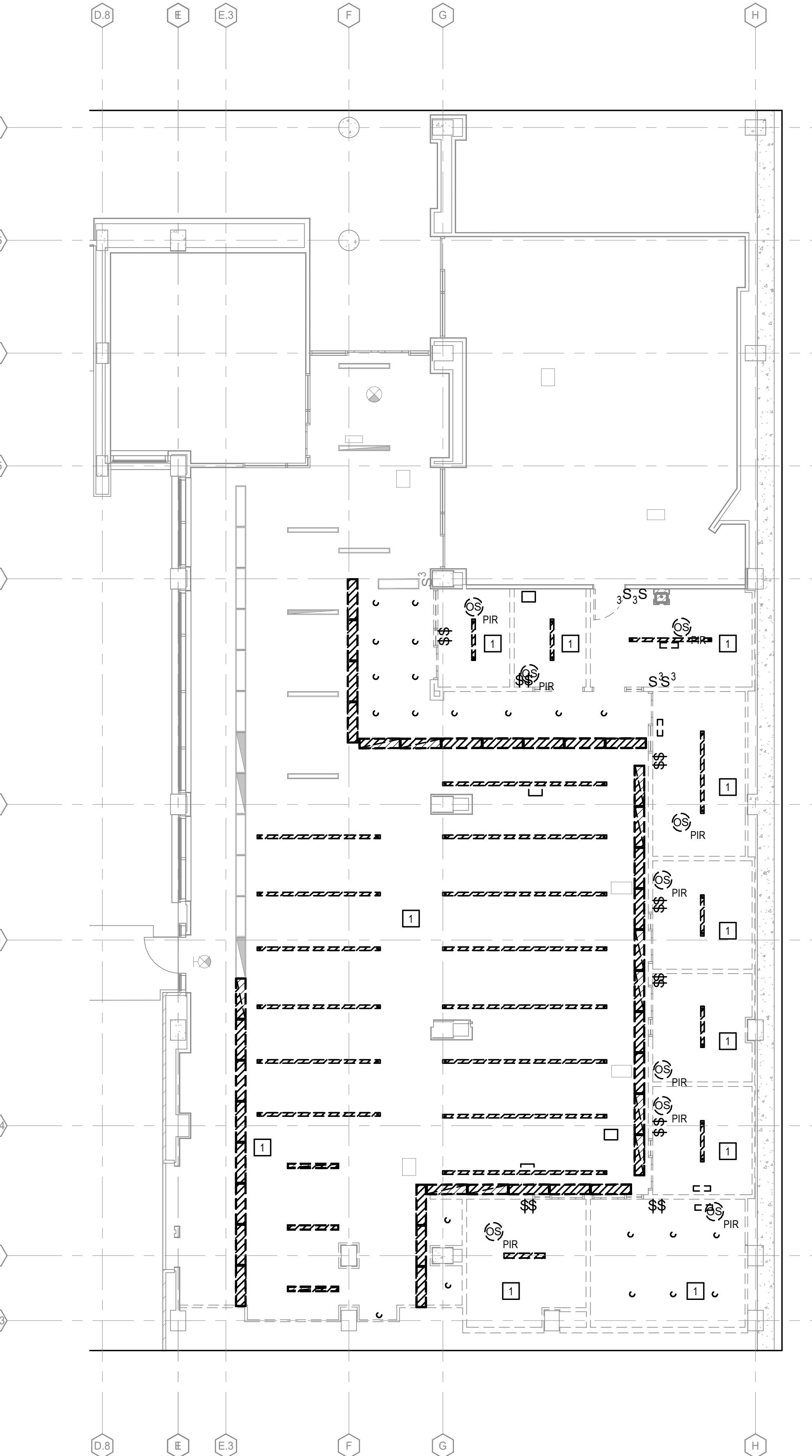
- EXISTING CIRCUIT NUMBERING IN FIELD IS INCONSISTENT BETWEEN DEVICE LABELING, SCHEDULE IN PANEL DOOR, AND RECORD DRAWINGS THEREFORE THE LABELING ON THE FLOOR PLANS SHALL BE CONFIRMED BY EC. CONTRACTOR SHALL TRACE CIRCUITS UTILIZING CIRCUIT TRACERS FOR ALL CIRCUITS IN THE AREA OF WORK. CONTRACTOR SHALL DOCUMENT EXISTING CIRCUITING IN PREPARATION FOR DEMOLITION WORK AND TO FACILITATE NEW WORK INCLUDING UPDATED LABELING AS REQUIRED PER THE SPECIFICATIONS.
- ALL PENETRATIONS OF EXISTING FLOORS AND FIRE RATED WALL OR SMOKE PARTITIONS SHALL BE PATCHED & REPAIRED AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATING OR SMOKE INFILTRATION INTEGRITY OF THE WALL. ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, DUCTWORK, ETC. SHALL BE FIRE SEALED TIGHT TO THE WALL OR FLOOR PENETRATIONS TO MAINTAIN THE REQUIRED CODE COMPLIANT FIRE RATING.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL EXISTING CONDITIONS, LOCATIONS, AND CIRCUITING OF ALL EXISTING ELECTRICAL EQUIPMENT LOCATED IN THE AREAS OF CONSTRUCTION INCLUDING EQUIPMENT LOCATED IN ADJACENT AREAS SERVED BY THE CIRCUITING LOCATED IN THESE SPACES.
- DEMOLITION WORK SHALL BE COMPLETED IN FULL. ALL CONDUIT AND WIRING SHALL BE DEMOLISHED BACK TO SOURCE UNLESS OTHERWISE NOTED. PANELS SCHEDULES SHALL BE UPDATED WHERE APPLICABLE. NO RACEWAY SHALL BE ABANDONED IN PLACE UNLESS SPECIFICALLY NOTED ON DRAWINGS.
- IN AREAS OF REMOVAL OF WALL AND CEILING MOUNTED DEVICES, CONTRACTOR SHALL REPAIR, PATCH AND CLEAN WALLS, WALL BASES, AND CEILING AS REQUIRED TO MATCH EXISTING FINISHES.
- CONTRACTOR SHALL MAINTAIN ALL CIRCUITS RUNNING THROUGH THE AREA OF DEMOLITION AND THE AREA OF NEW CONSTRUCTION.

**DEMOLITION KEY NOTES**

- DEMOLISH EXISTING LUMINARIES SHOWN (WITH SUPPORTS) AND ASSOCIATED CONTROLS IN HATCH. CONTRACTOR SHALL REMOVE CONDUIT AND WIRING BACK TO THE LAST JUNCTION BOX SERVING EXISTING LUMINARIES TO REMOVE LINESIDE CIRCUITING WHICH SHALL REMAIN AND BE MADE READY FOR RE-CONNECT. THE DISPOSAL OF FLUORESCENT LAMPS, BALLASTS, AND OTHER MERCURY CONTAINING DEVICES MUST COMPLY WITH NC GENERAL STATUTES G.S. 130A-310.60 WHICH APPLY TO ALL STATE AND LOCAL AGENCIES MANAGING DISCARDED MERCURY CONTAINING DEVICES, INCLUSIVE OF THOSE GENERATED THROUGH CONSTRUCTION/RENOVATION.

**2 GROUND FLOOR DEMO PLAN - LIGHTING**

SCALE: 1/8" = 1'-0"



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REVISION  
SCO REVIEW 9/15/25  
2nd SCO REVIEW 10/24/25  
Construction Set 11/17/25

**CONSTRUCTION SET**

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CLIENT NAME: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
JOB NAME: UNC VENABLE HALL LOWER LEVEL UPLIFT

LOCATION: 101 South RD  
CHAPEL HILL, NC 27514

SCO ID: 24-28389-01A

**E100**ELECTRICAL  
DEMOLITION  
PLANS

1/8" = 1'-0" 8' 4' 0' 8' 16'

ISSUE DATE: 11-17-25  
JOB NO: 10021-0001  
DWG. NO:



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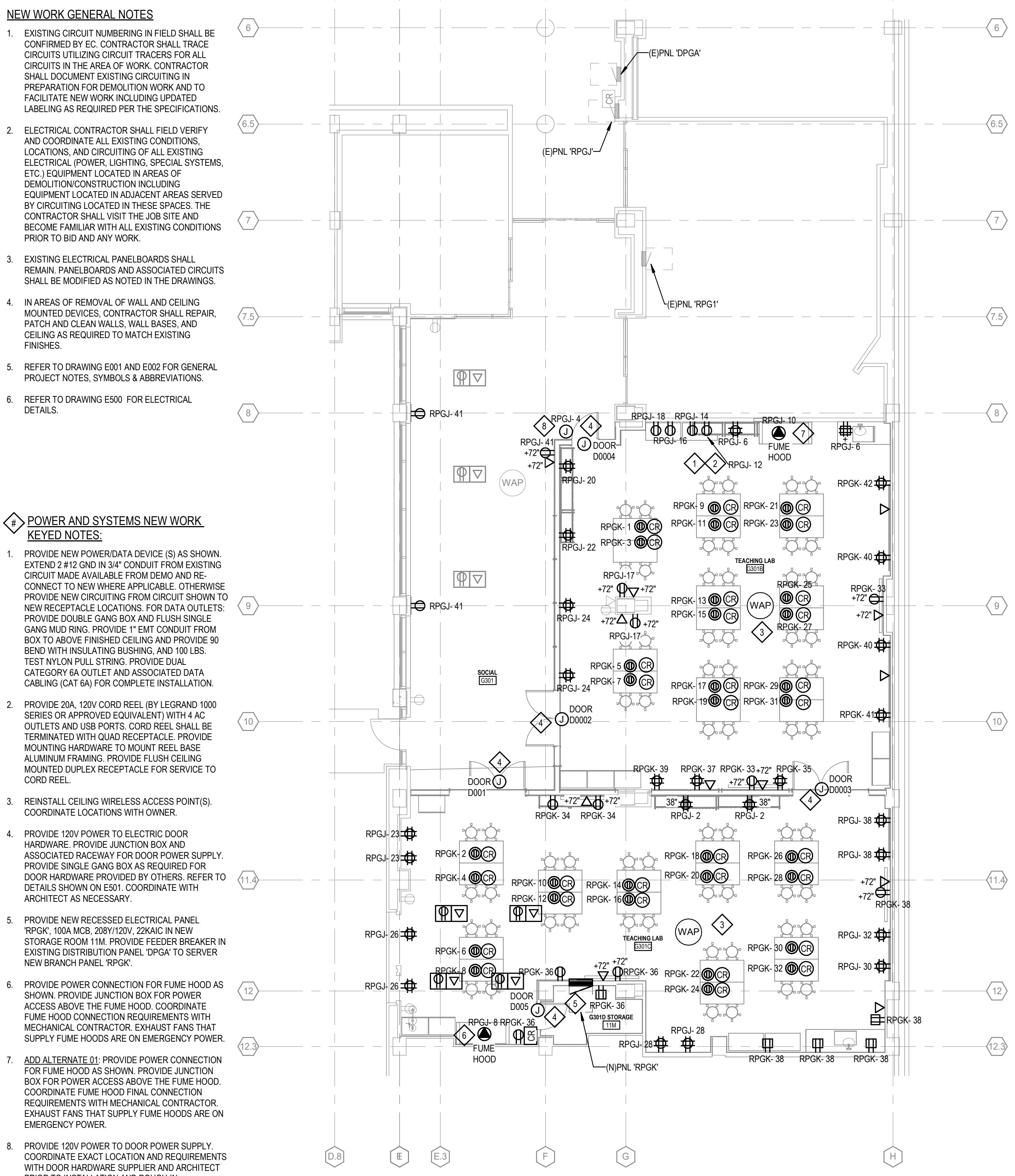
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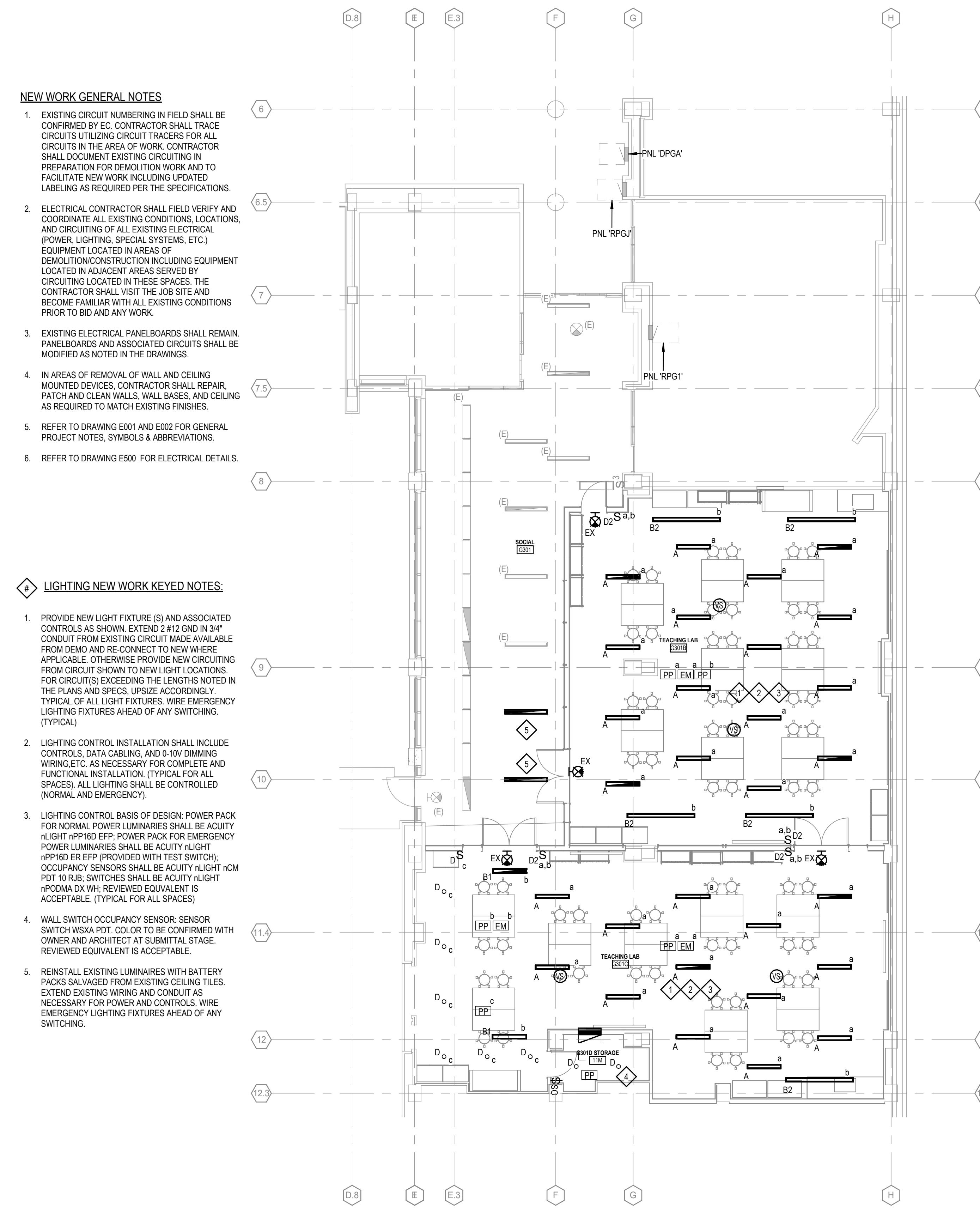
**E200**

ELECTRICAL NEW  
WORK PLANS



1 ELECTRICAL NEW WORK PLAN - POWER & SYSTEMS

SCALE: 1/8" = 1'-0"

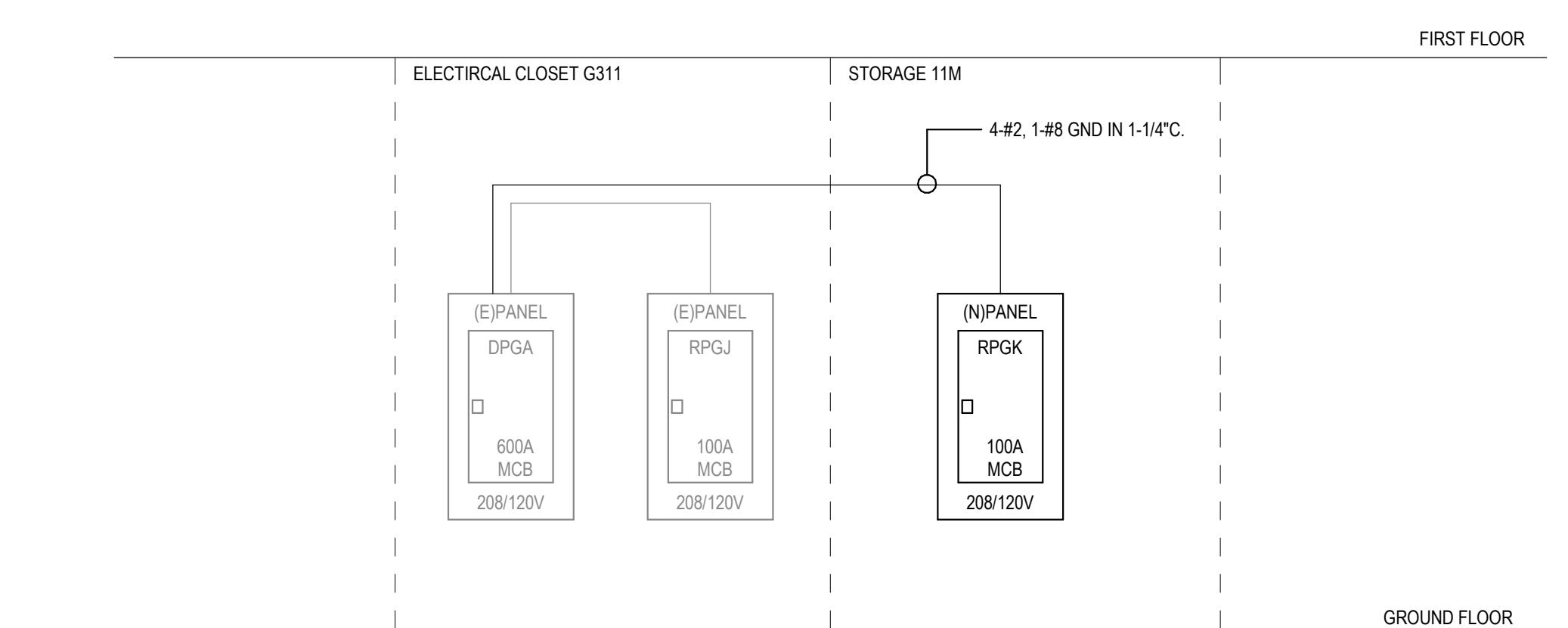


2 ELECTRICAL NEW WORK PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

1/8" = 1'-0" 8' 4' 0' 8' 16'

1/8" = 1'-0" 8' 4' 0' 8' 16'



**1 ELECTRICAL PARTIAL RISER DIAGRAM**

SCALE: NTS

EXISTING PANELBOARD RPGJ											
SERVED FROM: DPGA			AMPERE RATING: 100 A			VOLTAGE (L-L): 208			PHASE: 3		
ENCLOSURE RATING: NEMA 1			MAIN BREAKER: 100 A			VOLTAGE (L-N): 120			WIRE: 4		
LOCATION: ELEC CLOSET OUTSIDE CLASSROOM G311											
CIR. NO.	LOAD DESCRIPTION	LTG	H/C	MOT	KIT	REC	MISC	PHASE	G	CND	BRKR
		LTG	H/C	MOT	KIT	REC	MISC	PHASE	G	CND	BRKR
		LTG	H/C	MOT	KIT	REC	MISC	PHASE	G	CND	BRKR
1	RECG							EXISTING	20/1	A	20/1
3	REC RM. G301							EXISTING	20/1	B	20/1
5	REC RM. G301							EXISTING	20/1	C	20/1
7	REC RM. G301							EXISTING	20/1	B	20/1
9	FLOOR BOX RM. G301							EXISTING	20/1	B	20/1
11	FLOOR BOX RM. G301							EXISTING	20/1	C	20/1
13	FLOOR BOX RM. G301							EXISTING	20/1	A	20/1
15	REC RM. G301							EXISTING	20/1	B	20/1
17	REC RM. G301							EXISTING	20/1	B	20/1
19	REC RM. G301							EXISTING	20/1	A	20/1
21	REC RM. G301							EXISTING	20/1	B	20/1
23	REC RM. G301							EXISTING	20/1	C	20/1
25	SMR W WALL RM. G301A							EXISTING	20/1	A	20/1
27	SMR W WALL RM. G301A							EXISTING	20/1	B	20/1
29	SMR W WALL RM. G301A							EXISTING	20/1	C	20/1
31	SMR E WALL RM. G301A							EXISTING	20/1	B	20/1
33	SMR E WALL RM. G301A							EXISTING	20/1	B	20/1
35	SMR E WALL RM. G301A							EXISTING	20/1	C	20/1
37	REC RM. G301A							EXISTING	20/1	A	20/1
39	REC RM. G301A							EXISTING	20/1	B	20/1
41	REC RM. G301A							EXISTING	20/1	C	20/1

MODIFIED Panelboard: RPGJ											
VOLTAGE: 208/120 Wye			MAINS TYPE: MCB			SERVED FROM: DPGA			22 :KAIC RATING		
PHASE: 3			MAINS RATING: 100 A			ENCLOSURE NEMA RATING: Type 1			LOCATION: ELEC CLOSET OUTSIDE CLASSROOM G311...		
PHASE: 3 WIRE: 4											
LOAD CLASS	WIRE SIZE PH / N / GND	COND IN	BRKR RTG	CIR NO	A	B	C	OIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN
REC	EXISTING	EX EWC R. G301	20	1	0.36	2		2	20	QUADS N WALL G301C	3/4"
REC	EXISTING	EX REC RM. G301	20	3		0.18	0.25	4	20	POWER SUPPLY FOR DOORS	3/4"
REC	EXISTING	EX REC RM. G301	20	5			0.36	0.72	6	20 QUADS NE WALL G301B	3/4"
REC	EXISTING	EX FLOOR BOX RM. G301	20	7	0.18	1		8	20 FUME HOOD G301C	3/4"	
REC	EXISTING	EX FLOOR BOX RM. G301	20	9		0.36	1	10	20 FUME HOOD G301C (ALT. #2)	3/4"	
REC	EXISTING	EX FLOOR BOX RM. G301	20	11		0.36	0.18	12	20 INSTRON G301B	3/4"	
REC	EXISTING	EX FLOOR BOX RM. G301	20	13	0.36	0.18		14	20 INSTRON G301B	3/4"	
REC	EXISTING	EX REC RM. G301	20	15		0.18	0.18	16	20 INSTRON G301B	3/4"	
REC	1-#12, 1-#12, 1-#12	3/4" TV RECS LAB G301B	20	17			1	18	20 INSTRON G301B	3/4"	
REC	EXISTING	EX FLOOR BOX RM. G301	20	19	0.36	0.36		20	20 QUADS W WALL G301B	3/4"	
REC	EXISTING	EX REC RM. G301	20	21		0.36	0.36	22	20 QUADS W WALL G301B	3/4"	
REC	1-#10, 1-#10, 1-#10	3/4" QUADS W WALL G301C	20	23			2	0.72	24	20 QUADS W WALL G301B	3/4"
REC	EXISTING	EX SMR W WALL RM. G301A	20	25	0.36	2		26	20 QUADS W WALL G301C	3/4"	
REC	EXISTING	EX SMR W WALL RM. G301A	20	27		0.36	2	28	20 QUADS S WALL G301C	3/4"	
REC	EXISTING	EX SMR E WALL RM. G301A	20	29		0.36	0.36	30	20 QUADS E WALL 301B	3/4"	
REC	EXISTING	EX SMP E WALL RM. G301A	20	31	0.36	0.36		32	20 QUADS E WALL 301B	3/4"	
REC	EXISTING	EX SMP E WALL RM. G301A	20	33		0.36	0.36	34	20 REFS STATIONS	EX	
REC	EXISTING	EX SMP E WALL RM. G301A	20	35		0.72	0.36	36	20 MTR. SCREEN RM. G301J	EX	
REC	EXISTING	EX REC RM. G301	20	37	0.72	0.72		38	20 QUADS E WALL 301B	3/4"	
REC	1-#12, 1-#12, 1-#12	3/4" DESK REC. SOCIAL G301	20	39		0.9	0	40	20 SPARE	-	
REC	1-#12, 1-#12, 1-#12	3/4" TV REC. SOCIAL G301	20	41		0.86	0.9	42	20 REC. G401	EX	

Panelboard: RPGK											
VOLTAGE: 208/120 Wye			MAINS TYPE: MCB			SERVED FROM:			:KAIC RATING		
PHASE: 3			MAINS RATING: 100 A			ENCLOSURE NEMA.. Type 1			LOCATION: G301D STOR...		
PHASE: 3 WIRE: 4											
LOAD CLASS	WIRE SIZE PH / N / GND	COND IN	BRKR RTG	CIR NO	A	B	C	OIR NO	BRKR RTG	LOAD DESCRIPTION	COND IN
REC	1-#12, 1-#12, 1-#12	3/4" CEILING REC. G301B	20	1	0.36	0.36		2	20	CEILING REC. G301C	3/4"
REC	1-#12, 1-#12, 1-#12	3/4" CEILING REC. G301B	20	3		0.36	0.36	4	20	CEILING REC. G301C	3/4"
REC	1-#12, 1-#12, 1-#12	3/4"									



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SCO ID: 24-28389-01A

**E500**

ELECTRICAL  
DETAILS

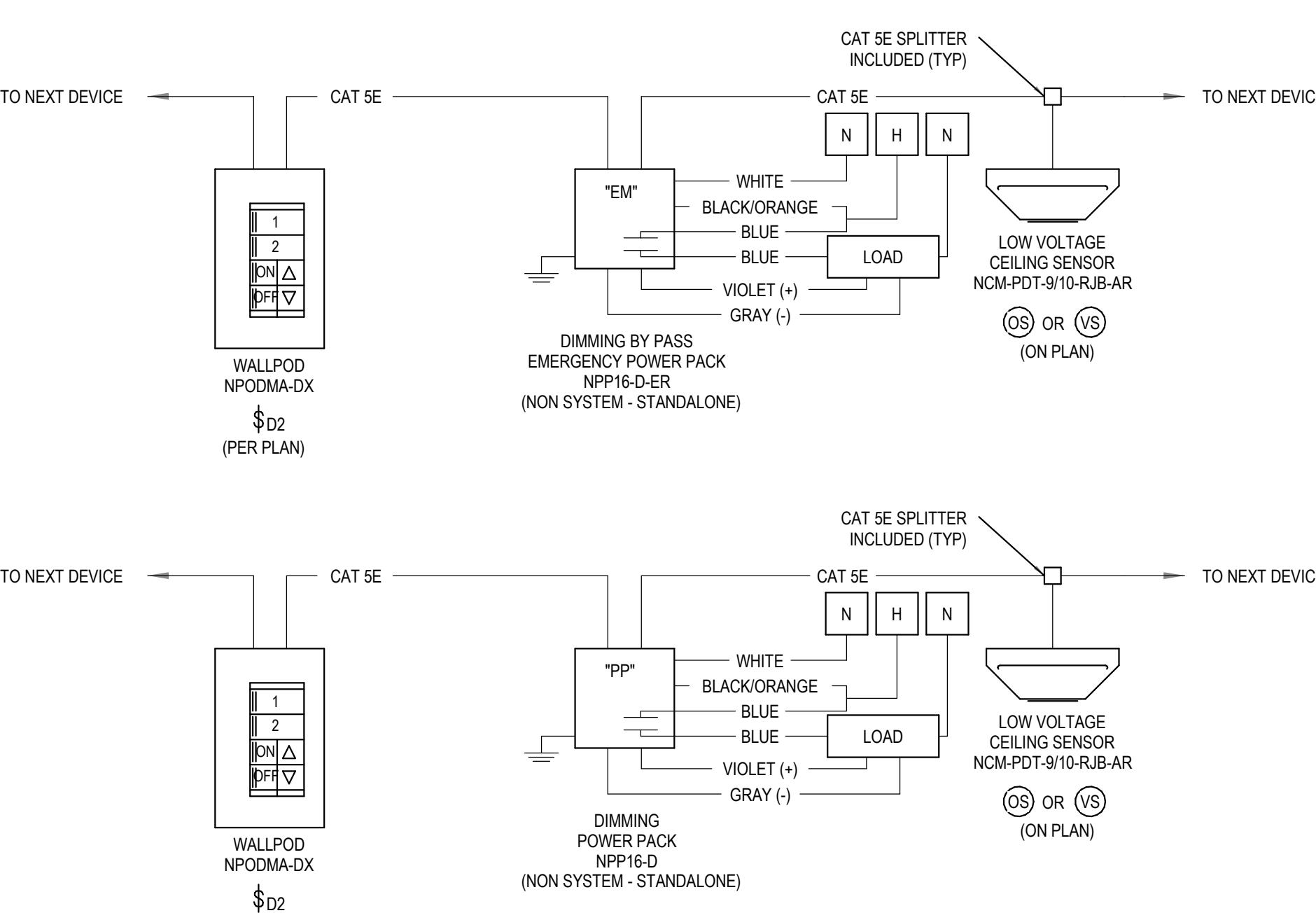
**ELECTRICAL NOTES:**

- EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
- CONDUIT & WIRING BY HVAC, PLUMBING CONTRACTOR OR OTHER TRADES.
- IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER LOCATE ADJACENT TO EQUIPMENT.
- FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
- JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX, LOAD SIDE WIRING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
- PROJECTS UTILIZING AN MCC, THE STARTER, CB OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- IN ALL CASES, THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP AND TEST EQUIPMENT.
- IF THE ROOF TOP EQUIPMENT IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.

## NC SCO ELECTRICAL CONNECTION COORDINATION DIAGRAM

5

SCALE: NTS



**NOTES:**

- ALL SWITCH DESIGNATION LABELS MUST BE CLEARLY ENGRAVED ON EACH BUTTON.
- FINAL SCENE PRESET TO BE DESIGNATED BY OWNER.
- QUANTITY OF DEVICES AS INDICATED ON DRAWINGS.
- BASIS OF DESIGN IS ACUTY NLIGHT (OR APPROVED EQUIVALENT BY LUTRON OR WATTSTOPPER).

## TYPICAL STANDALONE ZONED DIMMING LIGHTING CONTROL WIRING DIAGRAM - NORMAL AND EMERGENCY WIRING

6

SCALE: NTS

11-17-25

JOB NO.

10021-0001

DWG. NO.

10021-0001

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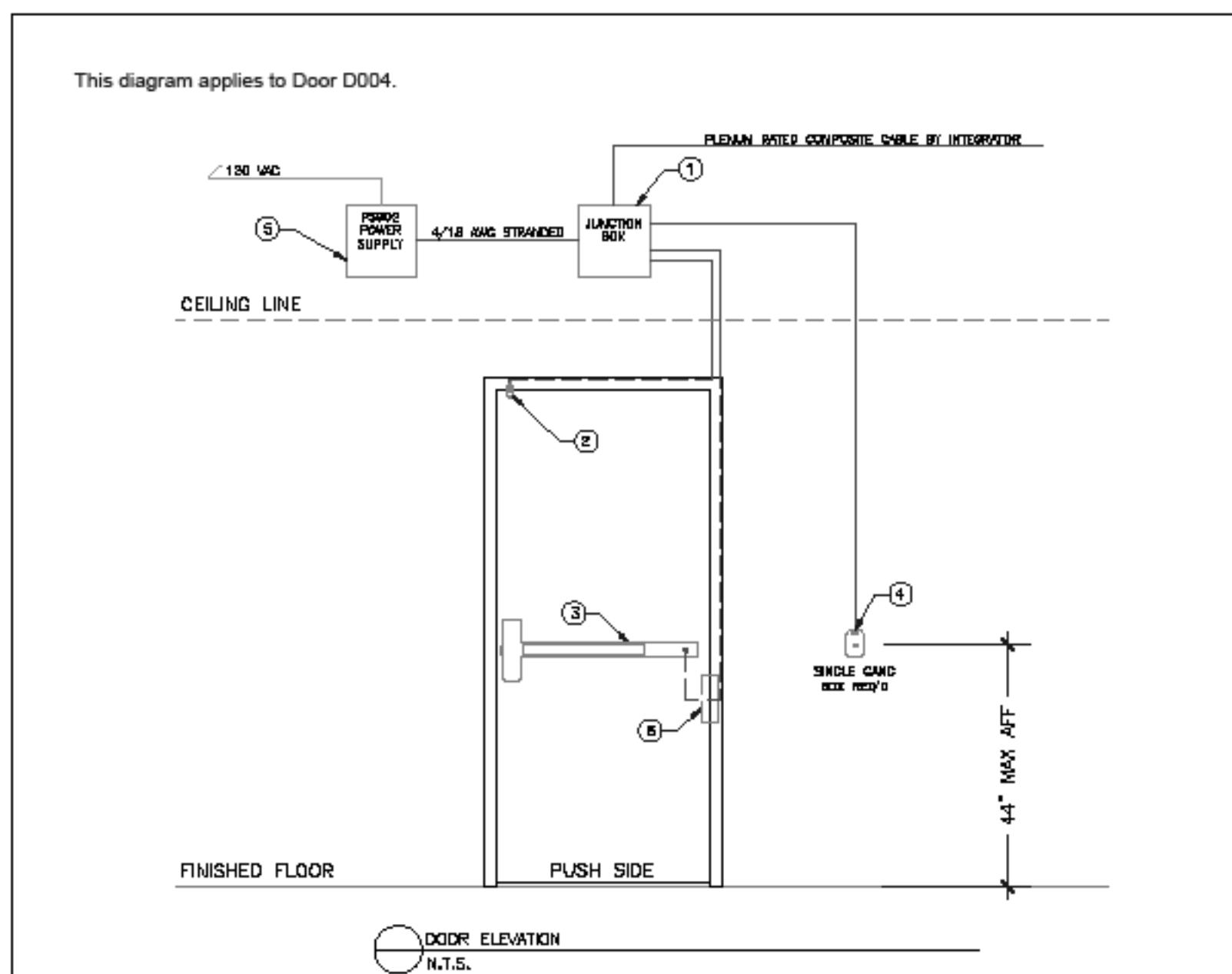


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**E501**  
ELECTRICAL DETAILS



**DOOR HARDWARE**

- ① JUNCTION BOX BY OTHERS
- ② SQUARE STB-05 DOOR POSITION SWITCH
- ③ VON DUFEN RX-401 / FALCON RX-ML EXIT DEVICE (34 VDC)
- ④ SQUARE NT11 OR NT13
- ⑤ VON DUFEN PR02 X 400-285 POWER SUPPLY
- ⑥ VON DUFEN ELECTRIC POWER TRANSFER

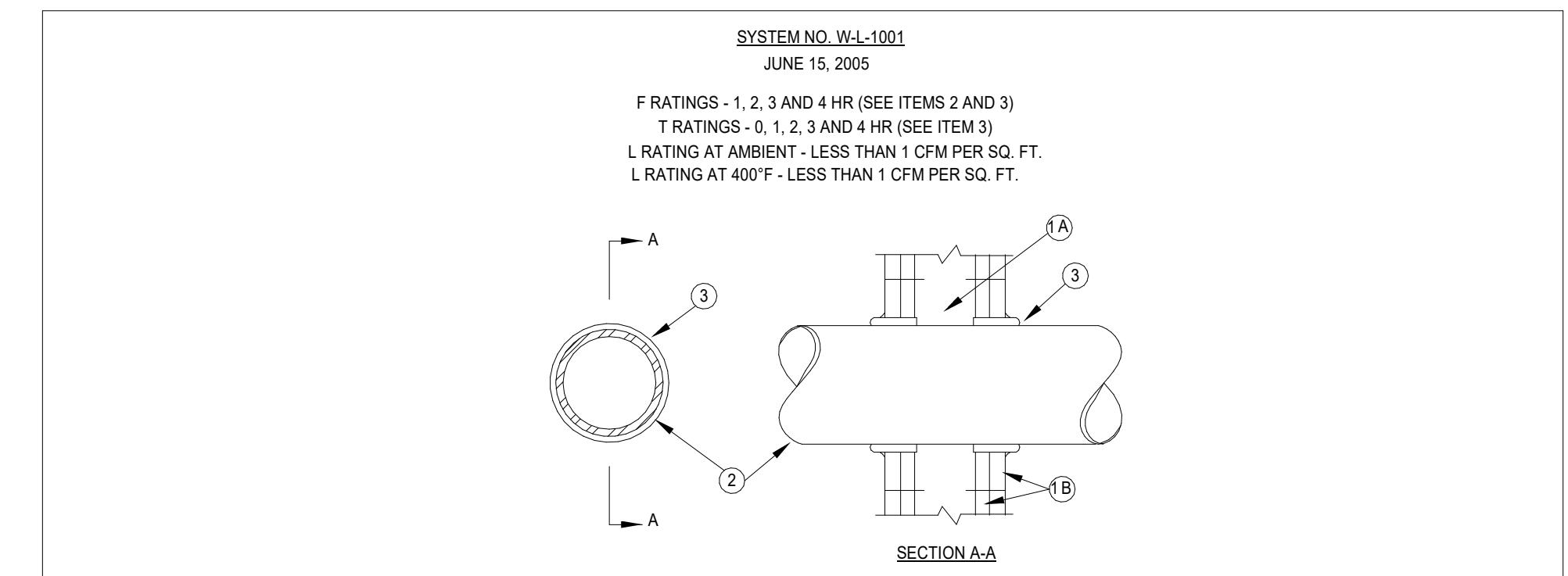
**WIRE REQUIREMENTS**

- 2/0 AWG STRANDED FOR 120 VAC
- 4/18 AWG STRANDED FOR ELECTRIFIED EXIT DEVICE
- 2 WIRES FOR POWER
- 2 WIRES FOR LATCH RETRACTION
- 2 WIRES FOR DOOR POSITION SIGNAL
- 4/18 AWG STRANDED FROM POWER SUPPLY TO J-BOX
- 2 WIRES FOR ACCESS CONTROL INPUT
- 2 WIRES FOR ACCESS CONTROL OUTPUT
- 8/32 AWG SHIELDED TO CARD READER, VERIF
- 8/32 AWG SHIELDED FROM ACCESS PANEL TO J-BOX
- PLUMBED RATED CABLE FROM ACCESS PANEL AND PROXIMITY AS REQUIRED FOR SYSTEM DESIGN
- ANY WIRE RUNS GREATER THAN 200 FEET VERIFY GUIDE WITH MANUFACTURER\*

**GENERAL NOTES:**  
ALL LOW VOLTAGE WIRE TO BE RUN IN MINIMUM 3/4" CONDUIT OR INSIDE DRYWALL UNLESS NOTED OTHERWISE  
ALL LOW VOLTAGE WIRE TO BE STRANDED WIRE  
ALL LOW VOLTAGE WIRES TO BE LABELED CLEARLY AT BOTH END  
ALL INDIVIDUAL HEIGHTS TO BE SHOWN  
COMPARISON OF HEIGHTS WITH ELECTRICAL/ARCHITECTURAL PLANS  
ANY DEVIATION FROM HARDWARE SPECIFIED IN SECTION 0610 WILL REQUIRE ALL REQUIREMENTS SHOWN  
HEREIN TO REQUIRE NEW DRAWINGS BY OTHERS TO MATCH SUBSTITUTED HARDWARE

**OPERATIONAL DESCRIPTION:**  
DOOR NORMALLY CLOSED AND LOCKED.  
DOOR WILL OPEN AND CLOSE FOR KEY AT LOCK.  
REQUEST TO EXIT SWITCH / SQUARE SHUTTER DOOR FORCED OPEN IN ACCESS CONTROL SYSTEM.  
KEY OVER-RIDE WILL RELEASE DOOR FORCED OPEN IN ACCESS CONTROL SYSTEM.  
DOOR CLOSURE FOR ALL TIMES DOOR FORCED OPEN IN ACCESS CONTROL SYSTEM.

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1. WALL ASSEMBLY - THE 1, 2, 3 OR 4 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS (MAX 2 H FIRE RATED ASSEMBLIES) OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. (51 BY 102 MM) LUMBERS SPACED 16 IN. (406 MM) OC WITH NOM 2 BY 4 IN. (51 BY 102 MM) LUMBER END PLATES AND CLEAT NAILERS. STEEL STUDS TO BE MIN 3-1/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.

B. GYPSUM BOARD\* - NOM 1/2 OR 5/8 IN. (13 OR 16 MM) THICK, 4 FT. (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 26 IN. (660 MM).

2. THROUGH-PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNUAL SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE 0 IN. (0 MM) (POINT CONTACT) TO MAX 2 IN. (51 MM) PIPE. CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

A. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.

B. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 12 IN. (305 MM) DIAM (OR SMALLER) OR CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.

C. CONDUIT - NOM 6 IN. (152 MM) DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

D. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.

E. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

F. THROUGH-PENETRATING PRODUCT\* - FLEXIBLE METAL PIPING THE FOLLOWING TYPES OF STEEL FLEXIBLE METAL GAS PIPING MAY BE USED:

1. NOM 3 IN. (85 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOR OR WALL ASSEMBLY.

OMEGA FLEX INC

2. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOR OR WALL ASSEMBLY.

TITTEFLEX CORP A BUNDY CO

3. NOM 1 IN. (25 MM) DIAM (OR SMALLER) STEEL FLEXIBLE METAL GAS PIPING. PLASTIC COVERING ON PIPING MAY OR MAY NOT BE REMOVED ON BOTH SIDES OF FLOR OR WALL ASSEMBLY.

WARD MFG INC

3. FILL, VOID OR CAVITY MATERIAL\* - CAULK OR SEALANT- MIN 5/8, 1-1/4, 1-7/8 AND 2-1/2 IN. (16, 32, 48 AND 64 MM) THICKNESS OF CAULK FOR 1, 2, 3 AND 4 HR RATED ASSEMBLIES.

RESPECTIVELY, APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK APPLIED TO GYPSUM BOARD/PENETRANT INTERFACE AT POINT OF PENETRATION. LENGTH OF CAULK APPLIED TO PENETRANT INTERFACE OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE PIPE OR CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW.

4. FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

A. PACKING MATERIAL - MIN 1 IN. (25 MM) THICKNESS OF FIRMLY PACKED MINERAL WOOL BATT INSULATION USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOR OR SLEEVE OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM B).

B. FILL, VOID OR CAVITY MATERIAL\* - CAULK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH THE TOP SURFACE OF THE FLOR OR SLEEVE OR FLUSH WITH BOTH SURFACES OF WALL. WHEN NOM PIPE COVERING THICKNESS IS 2 IN. (51 MM), MIN THICKNESS OF CAULK FILL MATERIAL IS 2 IN. (51 MM). WHEN NOM PIPE COVERING THICKNESS IS 1-1/2 IN. (38 MM) OR LESS, MIN THICKNESS OF CAULK FILL MATERIAL IS 1 IN. (25 MM). THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE THICKNESS OF THE FLOR OR WALL, THE SIZE OF PIPE, THE THICKNESS OF PIPE COVERING MATERIAL AND THE SIZE OF THE ANNULAR SPACE (BETWEEN THE PIPE COVERING MATERIAL AND THE EDGE OF THE CIRCULAR THROUGH OPENING) AS SHOWN IN THE FOLLOWING TABLE:

3. PIPE COVERING\* - NOM 2 TO 2 IN. (13 TO 51 MM) THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF OR 56 KG/M3) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT.

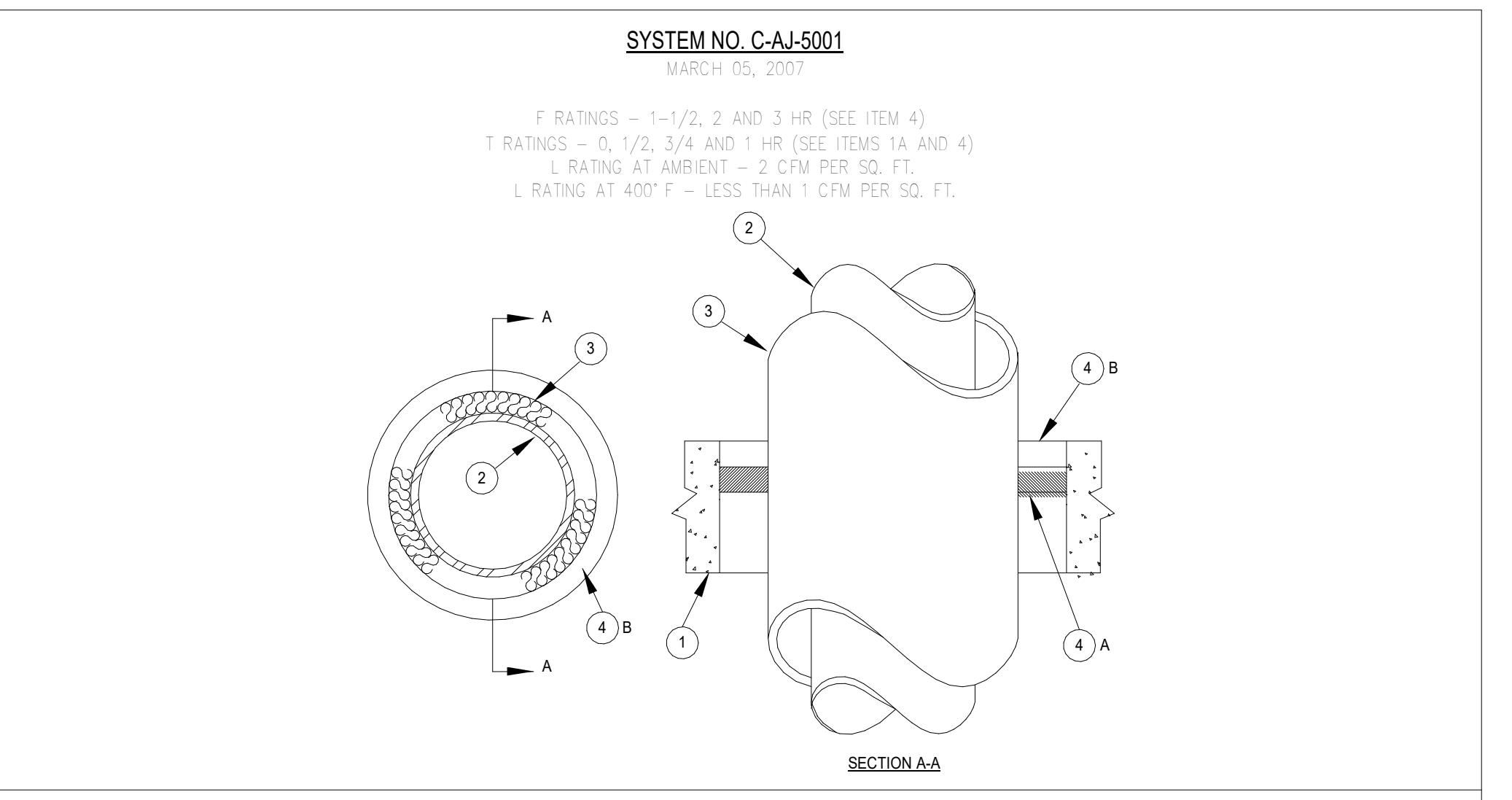
MIN FLOOR OR WALL THKNS. IN. (MM)	MAX PIPE DIAM. IN. (MM)	NOM PIPE COVERING THKNS. IN. (MM)	ANNULAR SPACE IN. (MM)	F RATING HR.	T RATING HR.
2-1/2 (64)	4 (102)	1 or 1-1/2 (25 or 38)	1/2 to 2-1/2 (13 to 60)	2	1
4-1/2 (114)	4 (102)	2 (51)	1/4 to 5/8 (6 to 92)	2	1-1/2
2-1/2 (64)	12 (305)	1 (25)	1/2 to 1-1/2 (13 to 38)	2	1/2
4-1/2 (114)	12 (305)	1 (25)	1/2 to 2-3/8 (13 to 60)	3	1
2-1/2 (64)	12 (305)	1/2 (13)	1/2 to 2-3/8 (13 to 60)	2	0

+ WHEN COPPER PIPE IS USED, T RATING IS 0 H.

3M COMPANY - CP 25WB+ OR FB-3000 WT.

\* BEARING THE UL CLASSIFICATION MARK.

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TYPE WL-1001 IN UL FILE NUMBER BOX, CLICK ON SEARCH  
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1. FLOOR OR WALL ASSEMBLY - MIN 2-1/2 IN. (64 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAX DIAM OF OPENING IS 18 IN. (457 MM).

SEE PIPE AND EQUIPMENT COVERING - MATERIALS\* (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.

2. FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

A. STEEL SLEEVE - (OPTIONAL, NOT SHOWN) - NOM 10 IN. (254 MM) (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY. SLEEVE MAY EXTEND A MAX OF 2 IN. (51 MM) ABOVE TOP OF FLOOR OR BEYOND EITHER SURFACE OF WALL. AS AN ALTERNATE, NOM 10 IN. (254 MM) DIAM (OR SMALLER) SLEEVE FABRICATED FROM NOM 0.019 IN. (0.48 MM) THICK GALV STEEL CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY FLUSH WITH FLOOR OR WALL SURFACES. T RATING IS 0 H WHEN SLEEVE IS USED.

B. FILL, VOID OR CAVITY MATERIAL\* - CAULK OR SEALANT - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH THE TOP SURFACE OF THE FLOOR OR SLEEVE OR FLUSH WITH BOTH SURFACES OF WALL. WHEN NOM PIPE COVERING THICKNESS IS 2 IN. (51 MM), MIN THICKNESS OF CAULK FILL MATERIAL IS 2 IN. (51 MM). WHEN NOM PIPE COVERING THICKNESS IS 1-1/2 IN. (38 MM) OR LESS, MIN THICKNESS OF CAULK FILL MATERIAL IS 1 IN. (25 MM). THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE THICKNESS OF THE FLOOR OR WALL, THE SIZE OF PIPE, THE THICKNESS OF PIPE COVERING MATERIAL AND THE SIZE OF THE ANNULAR SPACE (BETWEEN THE PIPE COVERING MATERIAL AND THE EDGE OF THE CIRCULAR THROUGH OPENING) AS SHOWN IN THE FOLLOWING TABLE:

MIN FLOOR OR WALL THKNS. IN. (MM)	MAX PIPE DIAM. IN. (MM)	NOM PIPE COVERING THKNS. IN. (MM)	ANNULAR SPACE IN. (MM)	F RATING HR.	T RATING HR.
2-1/2 (64)	4 (102)	1 or 1-1/2 (25 or 38)	1/2 to 2-1/2 (13 to 60)	2	1
4-1/2 (114)	4 (102)	2 (51)	1/4 to 5/8 (6 to 92)	2	1-1/2
2-1/2 (64)	12 (305)	1 (25)	1/2 to 1-1/2 (13 to 38)	2	1/2
4-1/2 (114)	12 (305)	1 (25)	1/2 to 2-3/8 (13 to 60)	3	1
2-1/2 (64)	12 (305)	1/2 (13)	1/2 to 2-3/8 (13 to 60)	2	0

3M COMPANY - CP 25WB+ OR FB-3000 WT.

\* BEARING THE UL CLASSIFICATION MARK.

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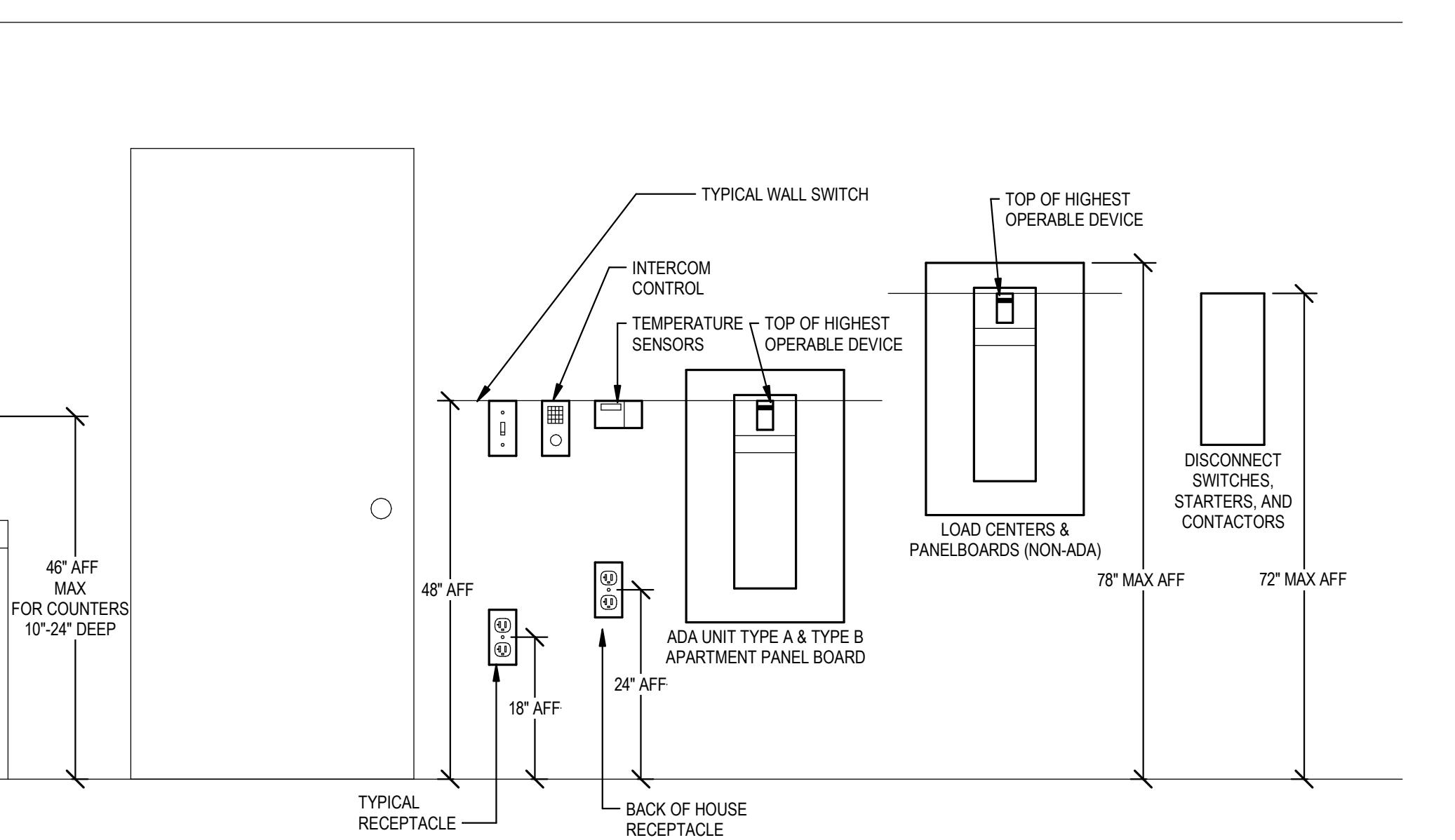


Diagram showing the door assembly with various components labeled 1 through 6. A power supply is connected to a junction box, which then connects to the door frame and a card reader. A push side is indicated. A door elevation N.T.S. is shown.

Diagram showing the door assembly with various components labeled 1 through 6. A power supply is connected to a junction box, which then connects to the door frame and a card reader. A push side is indicated. A door elevation N.T.S. is shown.

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Diagram showing the door assembly with various components labeled 1 through 6. A power supply is connected to a junction box,



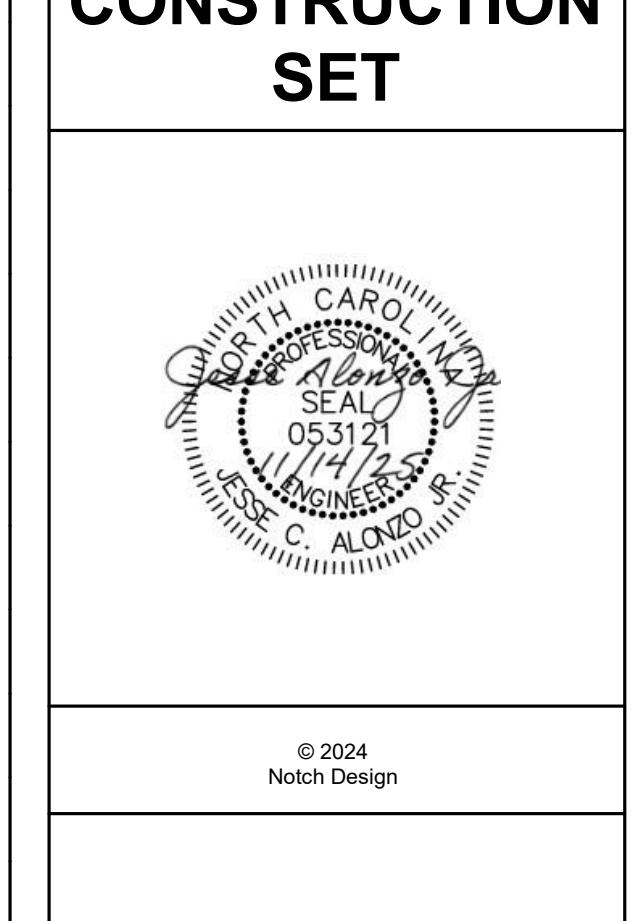
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(919) 233-8031 Fax

NC License# F-1222

FIRE ALARM	
WALL	CEILING
	HORN AND STROBE FIRE ALARM SYSTEM. X = cd
	SPEAKER AND STROBE FIRE ALARM SYSTEM. X = cd
	HORN ONLY, FIRE ALARM SYSTEM.
	SPEAKER FIRE ALARM SYSTEM
	FIRE ALARM STROBE ONLY DEVICE. X=cd
	MANUAL FIRE ALARM PULL STATION
	DUCT DETECTOR, FURNISHED BY E.C. INSTALLED BY M.C. REQUIRED FOR ALL HVAC SYSTEM OVER 2000 CFM, COORDINATE FINAL COUNTS AND LOCATIONS WITH M.C.
	FLUSH MOUNTED CEILING FIRE ALARM SYSTEM DUCT DETECTOR REMOTE TEST STATION AND ALARM INDICATING LAMP.
	FIRE ALARM SYSTEM RELAY. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
	LOCAL 120v SMOKE DETECTOR.
	SYSTEM SMOKE DETECTOR.
	SMOKE DETECTOR NOMENCLATURE
	P PHOTOELECTRIC
I IONIZATION	
	R RELAY BASE
	SYSTEM SMOKE DETECTOR WITH SOUNDER BASE
	SYSTEM SMOKE DETECTOR WITH STROBE BASE
	SYSTEM SMOKE DETECTOR FOR ELEVATOR RECALL.
	LOCAL 120v HEAT DETECTOR.
	SYSTEM HEAT DETECTOR.
	SYSTEM HEAT DETECTOR, RATE OF RISE
	SYSTEM HEAT DETECTOR, FIXED TEMP, # = ACTIVATING TEMP
	CARBON MONOXIDE DETECTOR
	CARBON DIOXIDE DETECTOR
	SYSTEM FIRE WATER FLOW MONITORING SWITCH.
	SYSTEM FIRE WATER TAMPER MONITORING SWITCH.
	MAGNETIC DOOR HOLD OPEN. PROVIDE 120v AND FIRE ALARM INTERFACE. HOLD OPEN WILL DE-ENERGIZE ALLOWING DOOR TO CLOSE WHEN FIRE ALARM IS ACTIVATED
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM POWER SUPPLY
	FIRE ALARM TERMINAL CABINET
	FIRE ALARM ADDRESSABLE CONTROL MODULE
	FIRE ALARM ZONE INTERFACE MODULE WITH RELAY
	PRESSURE SWITCH FOR DRY TYPE SPRINKLER SYSTEM. FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
	GAS DETECTION SYSTEM
	FIRE SMOKE DAMPER (BY M.C.). PROVIDE DUCT DETECTOR, 120V POWER, CONTROL MODULE, & INTERFACE MODULE TO FIRE ALARM SYSTEM. COORDINATE FINAL COUNTS AND LOCATIONS WITH M.C.
	WALL MOUNTED HEAT OR SMOKE DETECTORS



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THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL	
CLIENT NAME	UNC VENABLE HALL LOWER LEVEL
JOB NAME	VENABLE HALL LOWER LEVEL
LOCATION	101 South RD CHAPEL HILL, NC 27514
ISSUE DATE	11-17-25
JOB NO.	10021-0001
DWG. NO.	SCO ID: 24-28389-01A

FA001  
ELECTRICAL FIRE  
ALARM LEGEND  
SHEET

#### FIRE ALARM GENERAL NOTES

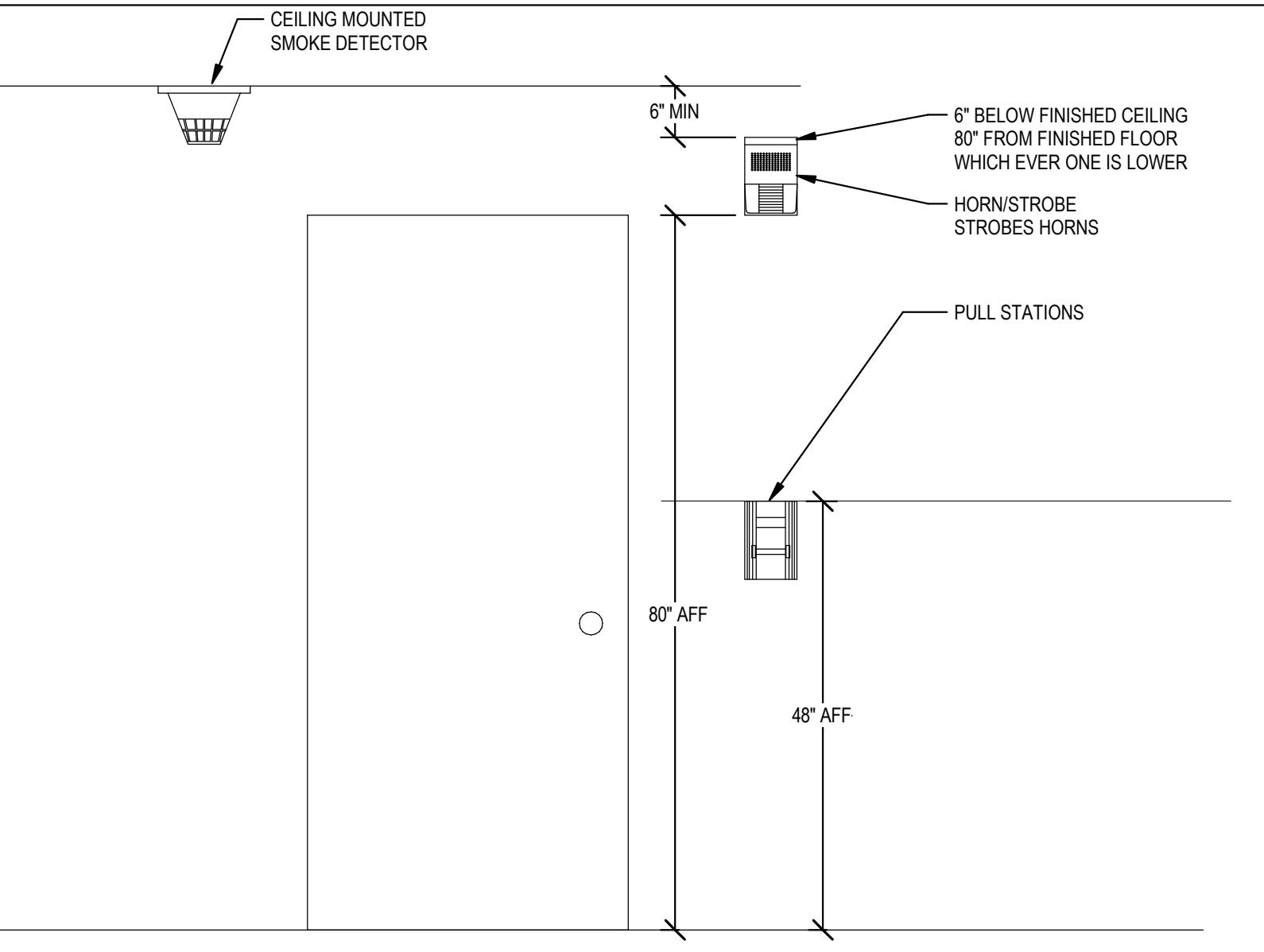
1. THE WIRING REQUIREMENTS CHANGE FROM MANUFACTURER TO MANUFACTURER. VERIFY WIRING WITH THE FIRE ALARM MANUFACTURER AND INSTALL AS DIRECTED AND APPROVED.
2. THE FIRE ALARM SYSTEM PRODUCT DATA INFORMATION, BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, INSTALLATION DRAWINGS AND DETAILS WILL BE PROVIDED AS A DEFERRED SUBMISSION TO THE FIRE ALARM PERMIT REVIEWER FROM THE CONTRACTOR AFTER THE FIRE ALARM SYSTEM VENDOR HAS SUBMITTED THE INFORMATION TO BE REVIEWED AND APPROVED BY THE ENGINEER.
3. SOUND PRESSURE COVERAGE THROUGHOUT THE BUILDING WILL BE DETERMINED AFTER THE FIRE ALARM SYSTEM HAS BEEN INSTALLED. ADDITIONAL DEVICES WILL BE ADDED IF THE COVERAGE IS DEEMED TO BE INADEQUATE BY THE INSPECTOR DURING THE FIRE ALARM SYSTEM TEST.
4. 25 PERCENT SPARE CAPACITY SHALL BE PROVIDED ON ALL NOTIFICATION APPLIANCE CIRCUITS FOR ANY ADDITIONAL DEVICES THAT MAY BE ADDED IN THE FUTURE. ALL EMPLOYEE WORK AREAS SHALL HAVE AUDIBLE AND VISUAL ALARMES.
5. ALL AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 DECIBELS ABOVE THE MAXIMUM SOUND LEVEL FOR A DURATION OF NOT LESS THAN 60 SECONDS, WHICHEVER IS GREATER. PER 907.5.2.1.

System Outputs	
System Inputs	
Manual Pull Station Ground Floor	X
Manual Pull Station First Floor	X
Manual Pull Station Second Floor	X
Manual Pull Station Third Floor	X
Manual Pull Station Fourth Floor	X
Manual Pull Station Penthouse	X
Smoke Detector Ground Floor	X
Smoke Detector First Floor	X
Smoke Detector Second Floor	X
Smoke Detector Third Floor	X
Smoke Detector Fourth Floor	X
Smoke Detector Penthouse	X
Smoke Detector Bldg. Lobby G	
Smoke Detector Bldg. Lobby 1	
Smoke Detector Bldg. Lobby 2	
Smoke Detector Bldg. Lobby 3	
Smoke Detector Bldg. Lobby 4	
Smoke Detector Bldg. Lobby P	
Heat Detector Ground Floor	X
Heat Detector First Floor	X
Heat Detector Second Floor	X
Heat Detector Third Floor	X
Heat Detector Fourth Floor	X
Heat Detector Penthouse	X
Duct Mounted Smoke Detectors At Fire/Smoke Dampers	X
AHU-1 Duct Mounted Smoke Detector	X
AHU-2 Duct Mounted Smoke Detector	X
AHU-3A Duct Mounted Smoke Detector	X
AHU-3B Duct Mounted Smoke Detector	X
AHU-4 Duct Mounted Smoke Detector	X
Sprinkler Main Waterflow	X
Sprinkler Ground Floor Zone Waterflow	X
Sprinkler First Floor Zone Waterflow	X
Sprinkler Second Floor Zone Waterflow	X
Sprinkler Third Floor Zone Waterflow	X
Sprinkler Fourth Floor Zone Waterflow	X
Sprinkler Penthouse Zone Waterflow	X
Sprinkler Tamper Switch	
Fire Alarm AC Power Failure	
Fire Alarm Low Battery	
Open Circuit	
Ground Fault	
Notification Appliance Circuit Short	
General Alarm (Keman)	

#### FIRE ALARM MATRIX

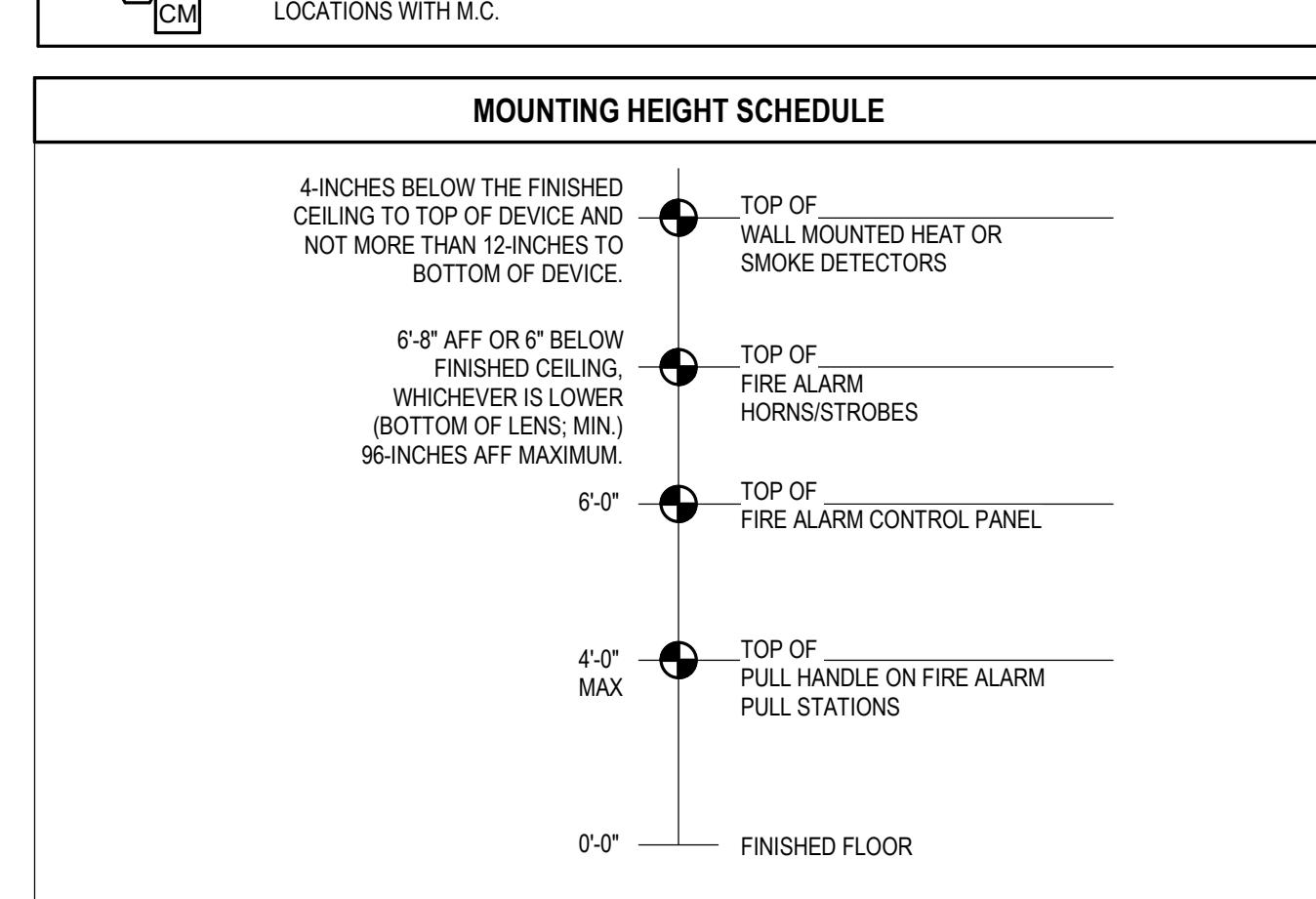
3

SCALE: NTS



1 DEVICE MOUNTING HEIGHT DETAIL

SCALE: NTS



FA001  
ELECTRICAL FIRE  
ALARM LEGEND  
SHEET



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REVISION  
SCO REVIEW 9/15/25  
2nd SCO REVIEW 10/24/25  
Construction Set 11/17/25

## CONSTRUCTION SET



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CLIENT NAME: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
JOB NAME: UNC VENABLE HALL LOWER LEVEL UPLIFT

LOCATION: 101 South RD  
CHAPEL HILL, NC 27514

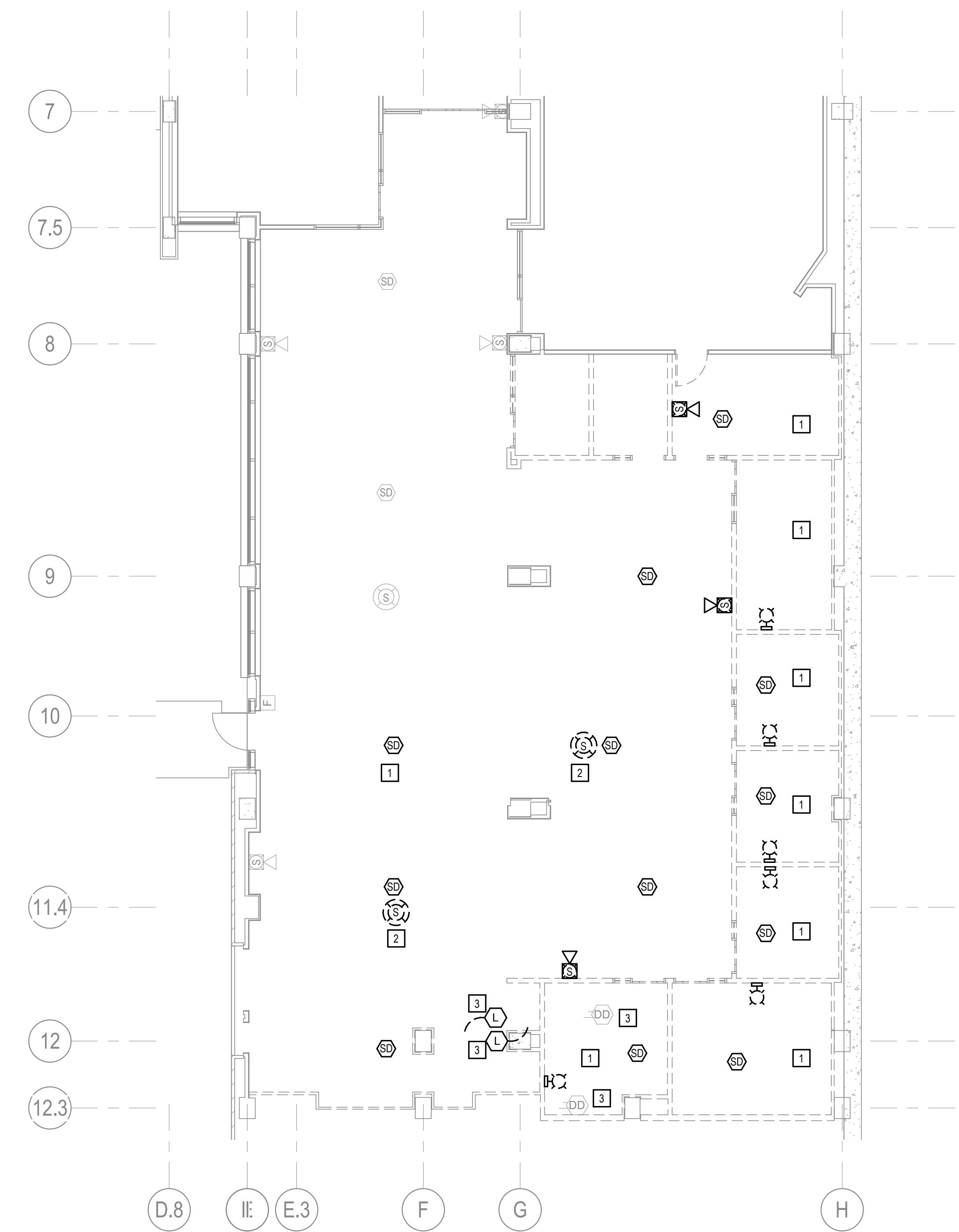
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### DEMOLITION GENERAL NOTES

- ALL PENETRATIONS OF EXISTING FLOORS AND FIRE RATED WALL OR SMOKE PARTITIONS SHALL BE PATCHED & REPAIRED AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATING OR SMOKE INfiltration INTEGRITY OF THE WALL, ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, DUCTWORK, ETC. SHALL BE FIRE SEALED TIGHT TO THE WALL OR FLOOR PENETRATIONS TO MAINTAIN THE REQUIRED CODE COMPLIANT FIRE RATING.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL EXISTING CONDITIONS, LOCATIONS, AND CIRCUITING OF ALL EXISTING ELECTRICAL EQUIPMENT LOCATED IN THE AREA OF CONSTRUCTION INCLUDING EQUIPMENT LOCATED IN ADJACENT AREAS SERVED BY THE CIRCUITING LOCATED IN THESE SPACES.
- DEMOLITION WORK SHALL BE COMPLETED IN FULL. ALL CONDUIT AND WIRING SHALL BE DEMOLISHED BACK TO SOURCE UNLESS OTHERWISE NOTED. PANELS SCHEDULES SHALL BE UPDATED WHERE APPLICABLE. NO RACEWAY SHALL BE ABANDONED IN PLACE UNLESS SPECIFICALLY NOTED ON DRAWINGS.
- IN AREAS OF REMOVAL OF WALL AND CEILING MOUNTED DEVICES, CONTRACTOR SHALL REPAIR, PATCH AND CLEAN WALLS, WALL BASES, AND CEILING AS REQUIRED TO MATCH EXISTING FINISHES.
- CONTRACTOR SHALL MAINTAIN ALL CIRCUITS RUNNING THROUGH THE AREA OF DEMOLITION AND THE AREA OF NEW CONSTRUCTION.

### DEMOLITION KEY NOTES

- EXISTING HORN STROBE/STROBE, SMOKE DETECTOR SHOWN IN HATCH SHALL BE REMOVED. EXISTING CONDUIT(S) AND CABLEING SHALL BE DEMOLISHED AS REQUIRED.
- EXISTING CEILING MOUNTED SPEAKER STROBE SHALL BE DISCONNECTED AND SALVAGED TO BE INSTALLED IN NEW LOCATION OR RETURNED TO OWNER. COORDINATE WITH OWNER.
- EXISTING DUCT DETECTOR TO REMAIN, ASSOCIATED RAIL DEVICES SHALL BE TEMPORARILY DISCONNECTED AND MADE READY TO BE RELOCATED TO NEW LOCATION. COORDINATE WITH MECHANICAL CONTRACTOR AND OWNER.

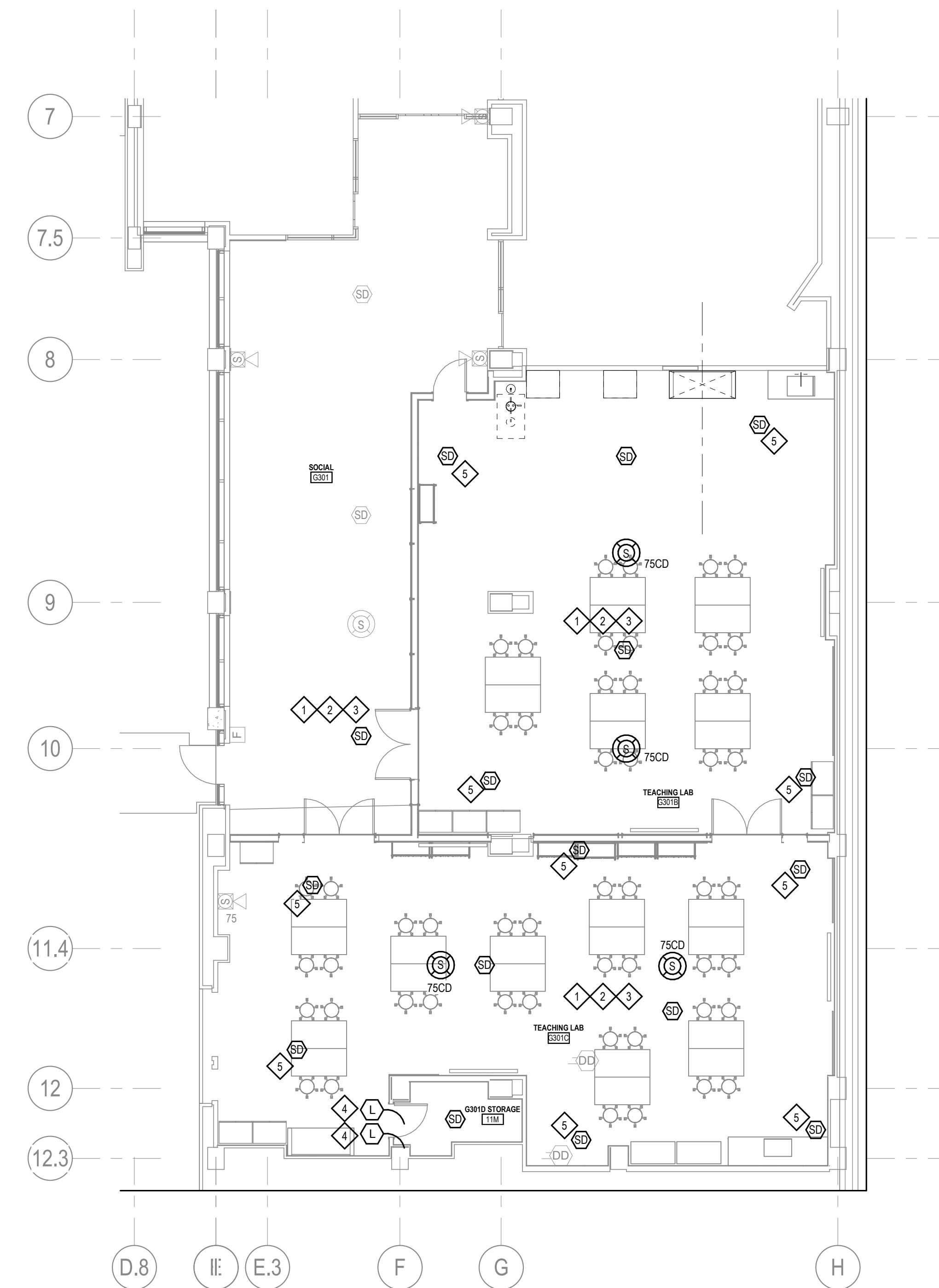


1 GROUND FLOOR DEMO PLAN - FIRE ALARM

SCALE: 1/8" = 1'-0"

### NEW WORK GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL EXISTING CONDITIONS, LOCATIONS, AND CIRCUITING OF ALL EXISTING ELECTRICAL (POWER, LIGHTING, SPECIAL SYSTEMS, ETC.) EQUIPMENT LOCATED IN AREAS OF DEMOLITION/CONSTRUCTION INCLUDING EQUIPMENT LOCATED IN ADJACENT AREAS SERVED BY CIRCUITING LOCATED IN THESE SPACES. THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID AND ANY WORK.
- IN AREAS OF REMOVAL OF WALL AND CEILING MOUNTED DEVICES, CONTRACTOR SHALL REPAIR, PATCH AND CLEAN WALLS, WALL BASES, AND CEILING AS REQUIRED TO MATCH EXISTING FINISHES.
- REFER TO DRAWING FA001 FOR FIRE ALARM GENERAL PROJECT NOTES, SYMBOLS & ABBREVIATIONS.



2 GROUND FLOOR NEW WORK PLAN - FIRE ALARM

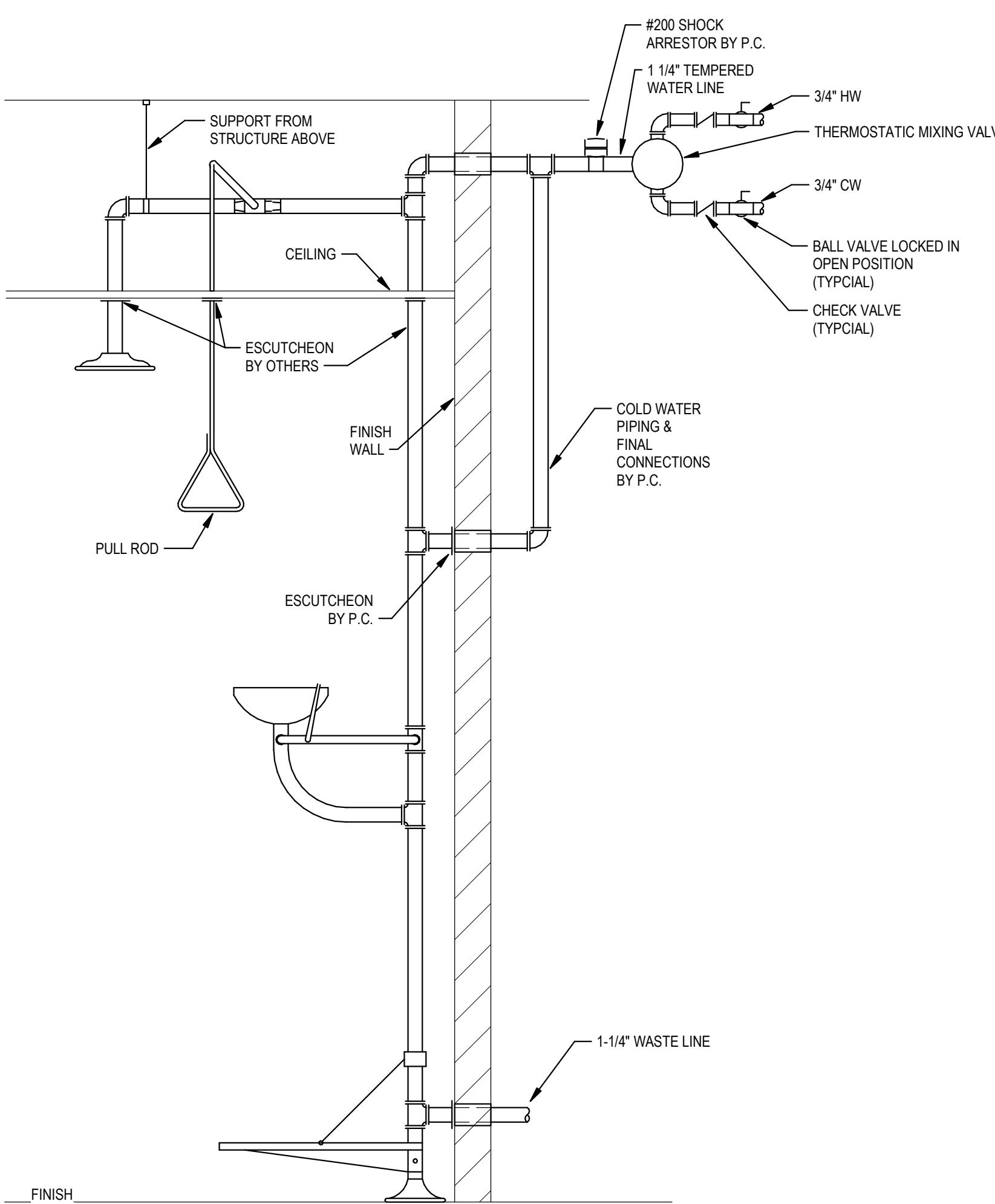
SCALE: 1/8" = 1'-0"

CLIENT NAME: THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL  
JOB NAME: UNC VENABLE HALL LOWER LEVEL UPLIFT  
LOCATION: 101 South RD  
CHAPEL HILL, NC 27514

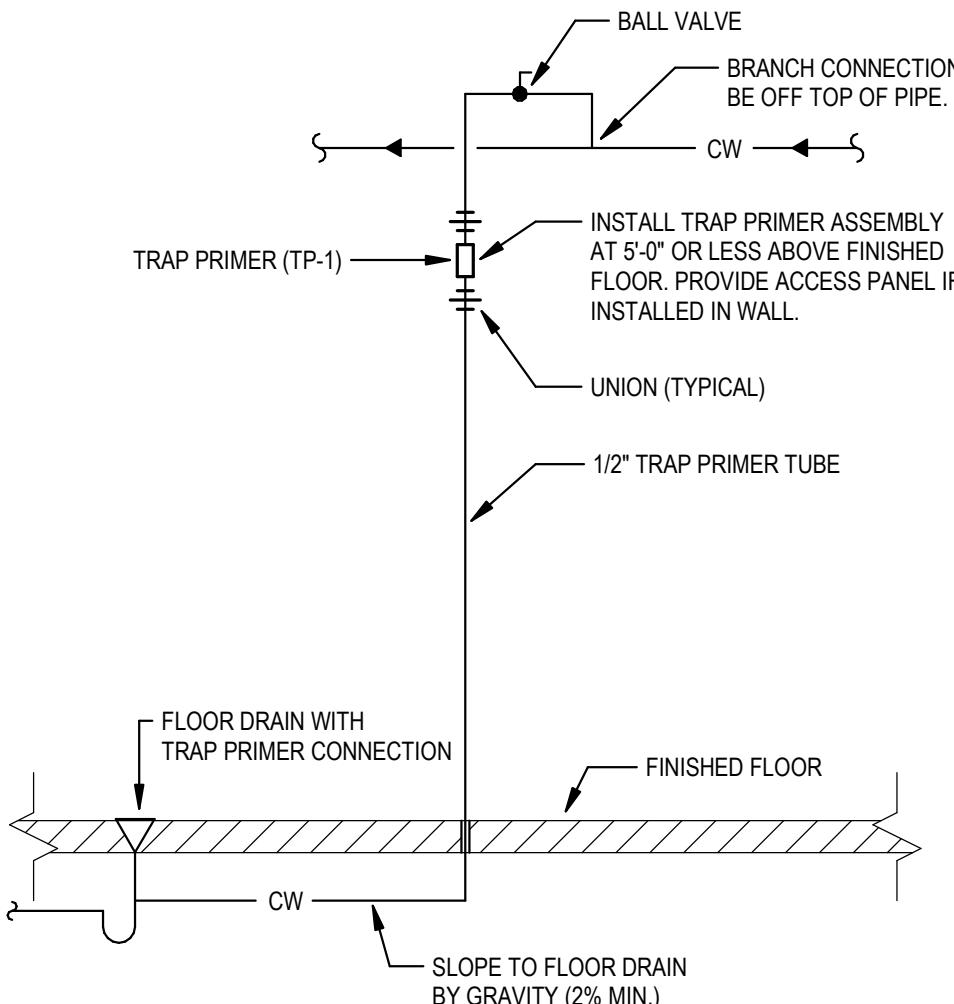
ISSUE DATE: 11-17-25  
JOB NO: 10021-0001  
DWG. NO:

**FA100**

FIRE ALARM DEMO  
AND NEW WORK  
PLANS



**1 EMERGENCY SHOWER/EYEWASH WITH THERMOSTATIC MIXING VALVE**



NOTES:

1. PROVIDE MULTIPLE OUTLET DISTRIBUTION AS REQUIRED.
2. IN FINISHED AREA, ROUTE PIPING WITHIN WALL AND LOCATE TRAP PRIMER IN A RECESSED BOX. BOX SHALL BE FULL SIZE TO SERVICE VALVE AND TRAP PRIMER ASSEMBLY. MINIMUM 12" X 12" FOR ONE ASSEMBLY.
3. ALL INACCESSIBLE PIPING, SUCH AS BURIED IN CONCRETE, SHALL BE SOFT COPPER WITH MECHANICAL CONNECTIONS. ALL OTHER PIPING SHALL BE HARD COPPER.

TAG	MANUFACTURER	MODEL	DESCRIPTION	WASTE	VENT	CW	HW	SPECIFICATION
S-1	ELKAY	ELUHAD281655PD	LAB SINK	1-1/2"	1-1/2"	1/2"	1/2"	30-1/2" x 18-1/2" x 5-3/8", UNDERMOUNT SINGLE COMPARTMENT ADA COMPLIANT SINK. SINK SHALL BE FULLY SOUND-DEADENED, EIGHTEEN (18) GAUGE, TYPE 304 STAINLESS STEEL. PROVIDE SINK COMPLETE WITH CHROME PLATED SEMI-CAST BRASS P-TRAP WITH CLEANOUT, CHROME PLATED BRASS WASTE TO WALL WITH CHROME PLATED BRASS ESCUTCHEON, STAINLESS STEEL PERFORATED GRID STRAINER WITH CHROME PLATED BRASS TAILPIECE. PROVIDE INSULATION KIT FOR OFFSET DRAIN ASSEMBLY. PROVIDE WITH CONSEALDE DECK-MOUNTED DUAL INLET FAUCET, 8" CENTERS WITH 8" RIGID/SWIVEL GOOSENECK SPOUT WITH VACUUM BREAKER, SERRATED NOZZLE WITH FLOW CONTROL AND 4" ADA COMPLIANT WRIST BLADE HANDLES, CHICAGO FAUCETS MODEL LWM2-B43-F OR APPROVED EQUAL. PROVIDE WITH DECK MOUNTED LAB FAUCET FOR PURE WATER, SINGLE CONTROL, RIGID GOOSENECK, SERRATED TIP, 3/8" NPT FEMALE INLET, CHICAGO 830-PVDF OR APPROVED EQUAL.
EWS-1	GUARDIAN	GBF1909	COMBINATION EYEWASH/EMERGENCY SHOWER	1-1/4"	-	1-1/4"	-	GUARDIAN BARRIER-FREE SAFETY STATION WITH WIDEAREA EYE/FACE WASH, PLASTIC SHOWER HEAD. 10" DIAMETER SHOWER HEAD WITH 1" IPS CHROMES PLATED BRASS STAY-OPEN BALL VALVE WITH STAINLESS STEEL ACTUATING ARM AND 47-1/2" STAINLESS STEEL PULL ROD. 11-1/2" STAINLESS STEEL; EYE/FACE WASH BOWL WITH 1/2" IPS CHROME PLATED BRASS STAY-OPEN BALL VALVE WITH FLAG HANDLE. PROVIDE WITH G6040 THERMOSTATIC MIXING VALVE WITH 3/4" HW & CW INLETS TO THE SINGLE 1-1/4" TEMPERED WATER OUTLET.
FD-1	ZURN	ZN415-4NH	4" FLOOR DRAIN WITH TRAP PRIMER CONNECTION	4"	-	-	-	ZURN 4" HEAVY-DUTY CAST IRON FLOOR DRAIN WITH 5" ROUND STRAINER INCLUDED WITH 1/2" TRAP PRIMER CONNECTION. PROVIDE WITH ZURN Z1022 TRAP PRIMER.

PLUMBING SYMBOLS		
PIPE DROP	PIPE UP	HB HOSE BIBB
AV ACID VENT		WH WALL HYDRANT
AW ACID WASTE		NFWH NON-FREEZE WALL HYDRANT
COLD WATER		■ MEDICAL COMPRESSED AIR OUTLET
CA COMPRESSED AIR		▼ MEDICAL VACUUM OUTLET W/SLIDE
DI DEIONIZED WATER		● OXYGEN OUTLET
EXISTING TO BE REMOVED		FH FIRE HYDRANT
FD FOUNDATION DRAIN		MH MANHOLE
G GAS		GV GAS VALVE BOX
GW GREASE LADEN WASTE BELOW GRADE		WV WATER VALVE BOX
GW GREASE LADEN WASTE ABOVE GRADE		AD AREA DRAIN (No. indicates type)
HOT WATER SUPPLY (120°)		FD FLOOR DRAIN (No. indicates type)
HOT WATER RETURN (120°)		FS FLOOR SINK (No. indicates type)
140° HOT WATER SUPPLY (140°)		RD ROOF DRAIN
140° HWR HOT WATER RETURN (140°)		CO CLEAN OUT
IA INSTRUMENT AIR		CO FLOOR CLEANOUT
LA LABORATORY AIR		WHA WATER HAMMER ARRESTOR
LW LABORATORY WASTE		AVTR ACID VENT THRU ROOF
LPG LIQUEFIED PETROLEUM GAS (PROPANE)		CSS CLINIC SERVICE SINK
MCA MEDICAL COMPRESSED AIR		DD DECK DRAIN (No. indicates type)
MVAC MEDICAL VACUUM / SUCTION		DF DRINKING FOUNTAIN (No. indicates type)
N NITROGEN GAS		ES EMERGENCY SHOWER
NO NITROUS OXIDE GAS		ES/EW EMER SHOWER/EYEWASH COMBINATION
ORC OVERFLOW RAIN CONDUCTOR		EEW EMERGENCY EYEWASH
O2 MEDICAL OXYGEN GAS		EWC ELECTRIC WATER COOLER (No. indicates type)
PS PRESSURE SANITARY SEWER		EX EXISTING
PD PUMP DISCHARGE		IMOB ICE MAKER OUTLET BOX (No. indicates type)
RWC RAIN WATER CONDUCTOR		L LAVATORY (No. indicates type)
SAN SANITARY SEWER BELOW GRADE		MR MOP RECEPTOR
SAN SANITARY SEWER ABOVE GRADE		MV MIXING VALVE (No. indicates type)
V SANITARY VENT PIPING		NFRH NON-FREEZE ROOF HYDRANT
ST STORM SEWER ABOVE GRADE		NFWH NON-FREEZE WALL HYDRANT
ST STORM SEWER BELOW GRADE		ORC OVERFLOW RAIN CONDUCTOR
TW TEMPERED WATER		RD ROOF DRAIN (No. indicates type)
VAC VACUUM LINE		S COUNTER SINK (No. indicates type)
WAGD WASTE ANESTHETIC GAS DISPOSAL		SAN SANITARY
AIR VENT	PLUG VALVE	SH SHOWER (No. indicates type)
BALANCING VALVE	P.G. PRESSURE GAUGE	UR URINAL (No. indicates type)
BFP BACKFLOW PREVENTER	PRESSURE REGULATING VALVE	V VENT
BALL VALVE	P-TRAP	V.C. VALVE CABINET
BUTTERFLY VALVE	RELIEF VALVE	VTR VENT THRU ROOF
CAPPED CONNECTION	SOLENOID VALVE	W WASTE
CHECK VALVE	STRAINER	WC WATER CLOSET (No. indicates type)
GAS PRESSURE REGULATOR	THERMOMETER	WMSD WASHING MACHINE SUPPLY & DRAIN
GATE VALVE	UNION	Z.V.B. MEDICAL GAS ZONE VALVE BOX
MIXING VALVE	VALVE IN RISER	CONNECT TO EXISTING PIPING

## PLUMBING SYSTEM NOTES

A. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE. ALL PLUMBING WORK SHALL BE INSPECTED AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL NECESSARY FEES AND PERMITS, INCLUDING THE CERTIFICATE OF PLUMBING INSPECTION.

B. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY. ARCHITECT AND/OR ENGINEER SHALL ASSUME NO RESPONSIBILITY FOR WORKMAN'S, OR PEDESTRIAN'S SAFETY. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO INSTRUCT PROCEDURES OR COMPONENTS FOR PROJECT SAFETY.

C. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO CONFLICT WITH ANY NATIONAL, STATE, MUNICIPAL, OR LOCAL LAWS OR REGULATIONS GOVERNING THE WORK INDICATED OR SPECIFIED. ALL SUCH REQUIREMENTS SHALL BE SATISFIED BY THE PLUMBING CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.

D. WHERE A CONFLICT ARISES BETWEEN PLANS, SPECIFICATIONS, DETAILS, SCHEDULES, APPLICABLE CODES OR REGULATIONS; THE MOST STRINGENT SHALL APPLY.

E. THE CONTRACT DOCUMENTS ARE COMPRISED OF DRAWINGS AND SPECIFICATIONS. EACH PLUMBING BIDDER SHALL VISIT SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING BID PROPOSAL. BIDS SHALL BE BASED ON THE COMPLETE EXAMINATION OF THE DRAWINGS, SPECIFICATIONS AND EXISTING CONDITIONS. NO CONSIDERATION WILL BE GIVEN ANY CONTRACTOR WHO FAILS TO DO SO.

F. THE WORK UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING OF ALL NECESSARY MATERIALS, TOOLS, AND LABOR FOR A COMPLETE, AND WORKING INSTALLATION AS DEFINED BY THE PLANS AND SPECIFICATIONS. THE PLUMBING CONTRACTOR SHALL WARRANT THE WORK INDICATED AND SPECIFIED. THE WORK SHALL FUNCTION AS INTENDED, BE COMPLETE IN ALL DETAILS, AND SHALL INCLUDE ALL INDICATED, SPECIFIED, OR REQUIRED ACCESSORIES FOR A FUNCTIONING SYSTEM.

G. PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.

H. CONTRACTOR SHALL REMOVE DEMOLITION DEBRIS COMPLETELY. CONTRACTOR SHALL SCHEDULE WITH THE CONSTRUCTION MANAGER THE TIME, LOCATION, ELEVATOR AND HAULING ROUTE.

I. THE PLUMBING CONTRACTOR SHALL CLEAN UP ALL DEBRIS AT THE END OF EACH WORK DAY.

J. HORIZONTAL DRAINAGE PIPING SHALL BE INSTALLED IN UNIFORM ALIGNMENT AT UNIFORM SLOPES NOT LESS THAN 1/4 INCH PER FOOT FOR THREE (3) INCH DIAMETER AND LESS, AND NOT LESS THAN 1/8 INCH PER FOOT FOR DIAMETERS OF FOUR (4) INCHES OR MORE.

K. ALL PIPING IS SCHEMATIC; SUPPORTS, UNIONS, VIBRATION ISOLATION, VALVES, INSULATION, ETC. SHALL BE AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

L. ALL PIPING IS TO BE CONCEALED IN WALLS OR ABOVE CEILING UNLESS NOTED OTHERWISE.

M. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO AND FOR SCHEDULING ANY INTERRUPTION OF ANY BUILDING UTILITY.

N. ALL EQUIPMENT PROVIDED OR INSTALLED BY THIS CONTRACTOR SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

O. ALL PIPING SHALL BE RUN AT THE SLOPES INDICATED. WHERE ELEVATIONS ARE NOT INDICATED, COORDINATE THE PIPE ROUTING WITH THE DUCT ROUTING INDICATED ON THE MECHANICAL PLANS, AS WELL AS ALL OTHER TRADES.

P. FINAL LOCATION OF ALL PLUMBING FIXTURES, SINKS, ELECTRIC WATER COOLERS, CLEANOUTS, AND THE LIKE, SHALL BE VERIFIED AND COORDINATED WITH THE ARCHITECTURAL DRAWINGS.

Q. ALL WORK SHOWN ON THE PLUMBING DRAWINGS SHALL BE BY THE PLUMBING CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

R. ALL SANITARY PIPING CONNECTIONS TO FIXTURES SHALL BE SIZED AS SCHEDULED. ALL OTHER SANITARY PIPING SHALL BE 4" UNLESS NOTED OTHERWISE.

S. ALL INVERT ELEVATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION.

T. PROVIDE CLEANOUTS AT LEAST EVERY 100 FT IN SANITARY PIPING IN ADDITION TO THOSE SHOWN ON THE DRAWINGS. PROVIDE A CLEANOUT AT EACH CHANGE IN DIRECTION OF 90 DEGREES IN A SINGLE FITTING.

U. PROVIDE A CLEAN OUT AT EACH CHANGE IN DIRECTION GREATER THAN 45 DEGREES.

V. ALL VENT PIPING CONNECTIONS TO FIXTURES SHALL BE SIZED AS SCHEDULED. ALL OTHER VENT PIPING SHALL BE 2" UNLESS NOTED OTHERWISE.

W. PROVIDE 1/4 TURN STOP VALVES AT ALL FIXTURES.

X. PROVIDE APPROPRIATE BACKFLOW PREVENTION DEVICES WHERE REQUIRED BY CODE.

Y. SEE SPECIFICATION SECTION 011000 FOR TIMING OF ALL WORK AND COORDINATE.



# CONSTRUCTION SET



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CLIENT NAME **THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL**

UNC VENABLE HALL LOWER LEVEL UPFIT  
LOCATION  
VENABLE HALL LOWER LEVEL  
1001 South RD

SCO ID: 24-28389-01A

PLUMBING SHEET INDEX	
P001	PLUMBING DATA SHEET
P111	SANITARY - GROUND FLOOR PLAN
P211	DOMESTIC - GROUND FLOOR PLAN
P311	PLUMBING METAL - GROUND FLOOR PLAN

CLIENT NAME <b>THE UN</b>	JOB NAME <b>UNC VEN</b>	LOCATION <b>ABN</b>	SCO ID <b>101 So CHAPE</b>
ISSUE DATE <b>11-17-25</b>	<hr/>		
JOB. NO. <b>10021-0001</b>	<hr/>		
DWG. NO.			

**P001**

# PLUMBING DATA SHEET



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NC License# F-1222

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SCO REVIEW 9/15/25  
2nd SCO REVIEW 10/24/25  
Construction Set 11/17/25

## CONSTRUCTION SET



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JOB NAME: UNC VENABLE HALL LOWER LEVEL UPGRADE  
LOCATION: 101 South RD  
CHAPEL HILL, NC 27514

SCO ID: 24-28389-01A

ISSUE DATE: 11-17-25

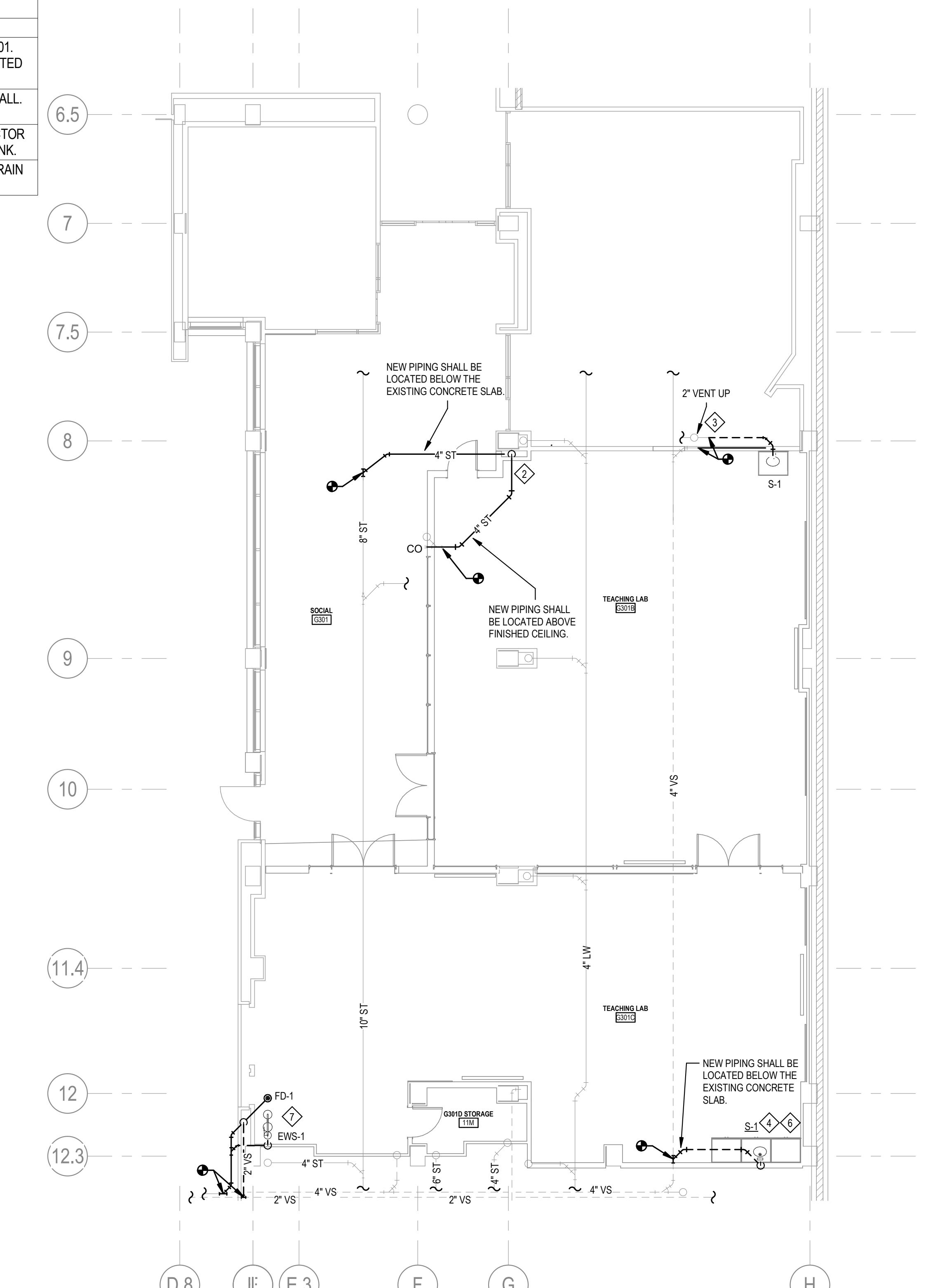
JOB NO.: 10021-0001

DWG. NO.

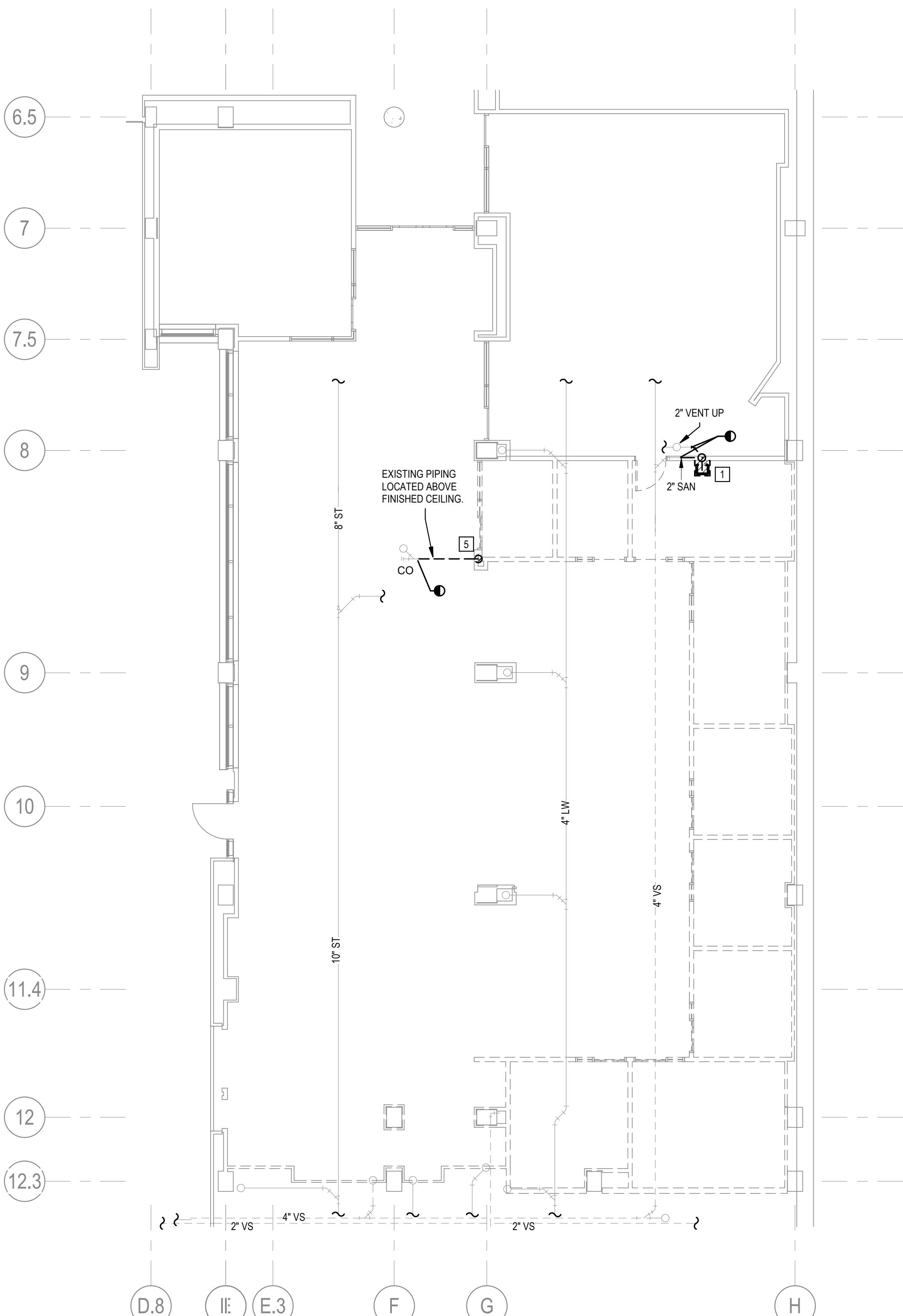
**P111**

SANITARY -  
GROUND FLOOR  
PLAN

1/8"=1'-0" 8' 4' 0 8' 16'



1 SANITARY GROUND PLAN  
SCALE: 1/8" = 1'-0"



2 SANITARY GROUND DEMOLITION PLAN  
SCALE: 1/8" = 1'-0"



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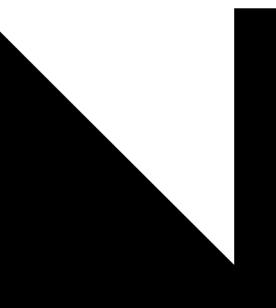
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**P111**

SANITARY -  
GROUND FLOOR  
PLAN



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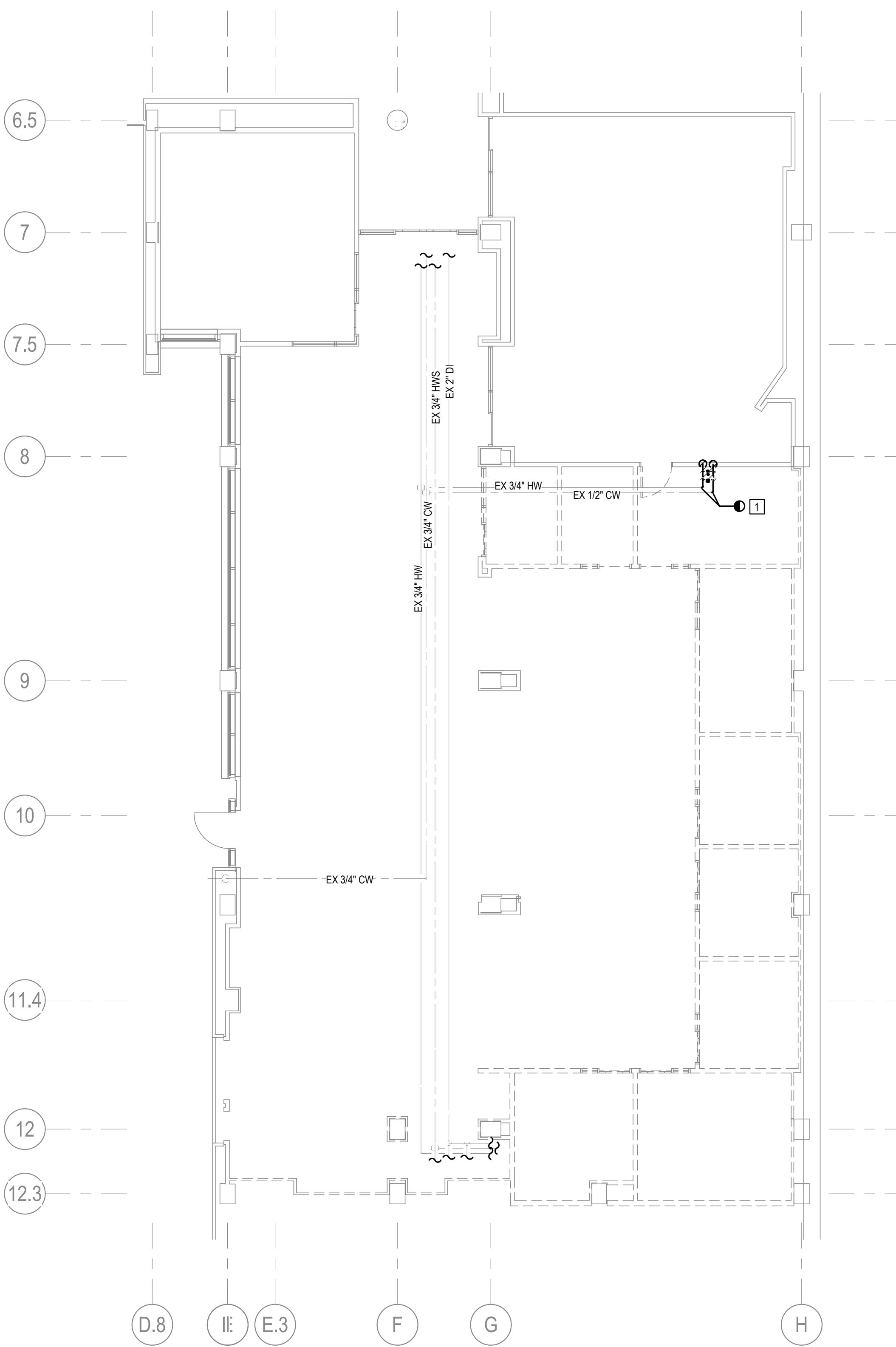


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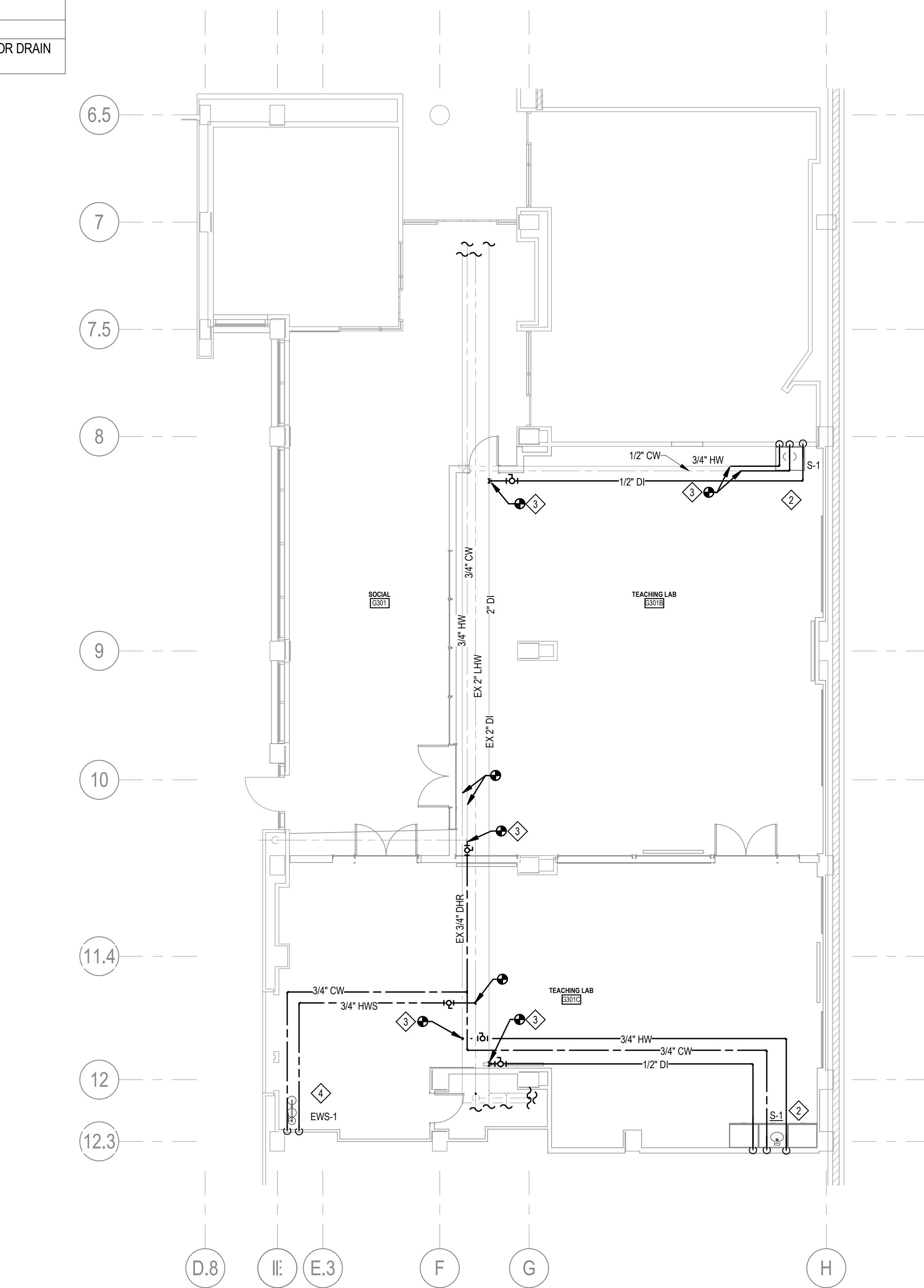
**P211**

DOMESTIC -  
GROUND FLOOR  
PLAN



**2** PRESSURE PIPING GROUND DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



**1** PRESSURE PIPING GROUND PLAN

SCALE: 1/8" = 1'-0"

1/8" = 1'-0" 8' 4' 0 8' 16'







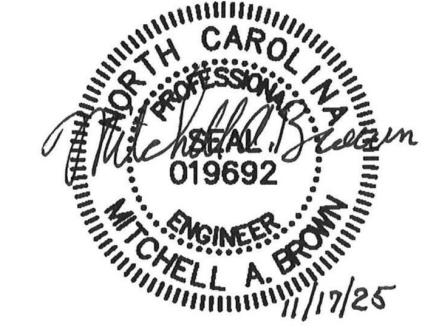
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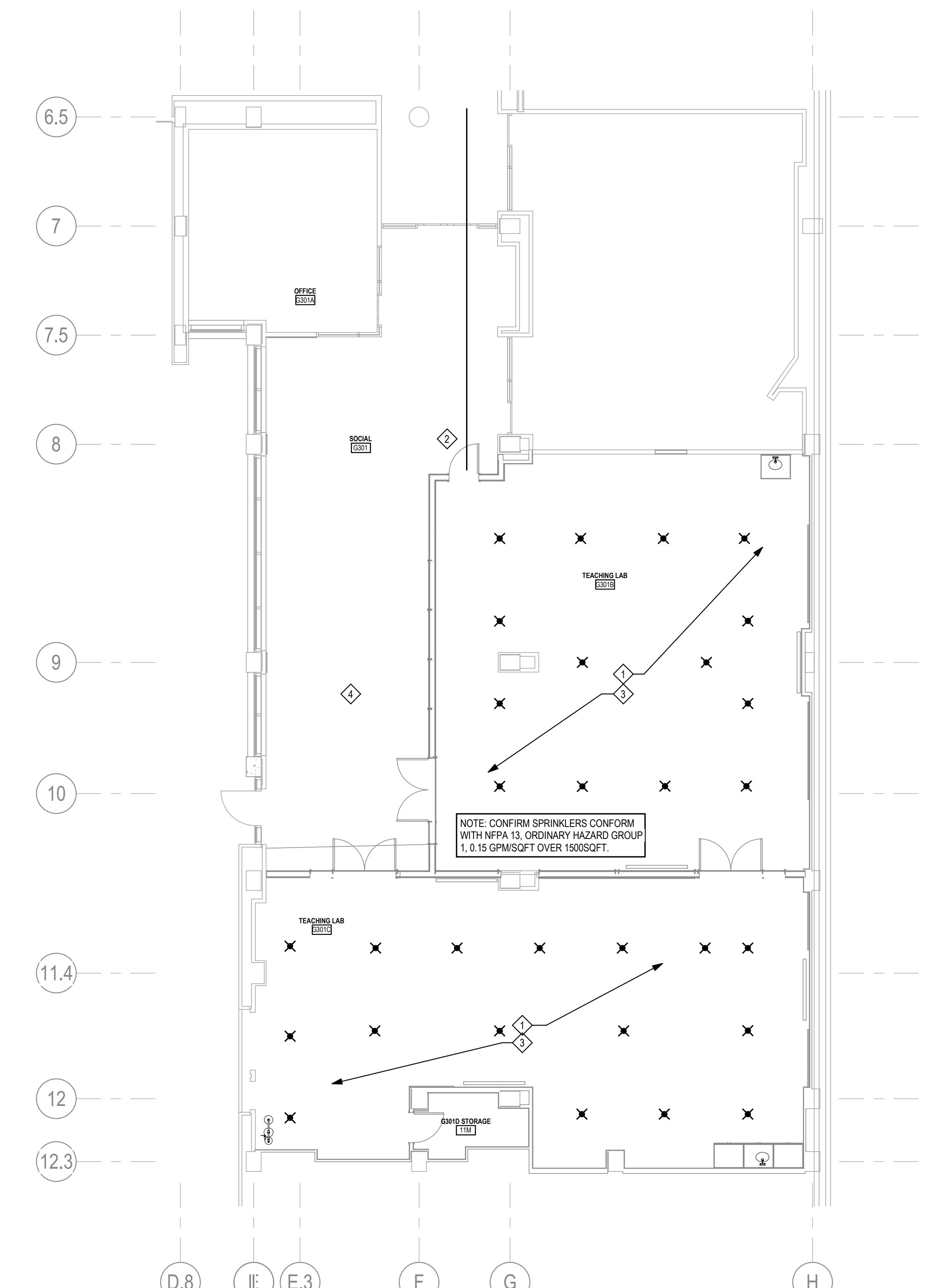
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1/8" = 1'-0"

**FP111**

FIRE PROTECTION  
- GROUND FLOOR  
PLAN



**1 FIRE PROTECTION GROUND PLAN**  
SCALE: 1/8" = 1'-0"

1/8" = 1'-0" 8' 4' 0 8' 16'