

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@mckimcreed.com
Fire Alarm	McKim and Creed	Jesse C. Alonzo	053121	(919) 233-8091	JAlonzo@mckimcreed.com
Plumbing	McKim and Creed	Mitchell A. Brown, PE	019692	(919) 233-8091	MBrown@mckimcreed.com
Mechanical	McKim and Creed	Mitchell A. Brown, PE	019692	(919) 233-8091	MBrown@mckimcreed.com
Sprinkler-Standpipe	McKim and Creed	Mitchell A. Brown, PE	019692	(919) 233-8091	MBrown@mckimcreed.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
TOTAL	160,458	0	160,458

SEE A-002 FOR OCCUPANT LOAD CALCULATIONS

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQ'D	PROVIDED (W/ REDUCTION) *				
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					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 Including supporting beams and joists		2-Hr			No new floor construction		
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	N/A
Occupancy/Fire Barrier Separation		N/A	N/A	N/A	N/A	N/A	N/A
Party/Fire Wall Separation		N/A	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation		N/A	N/A	N/A	N/A	N/A	N/A
Smoke Partition		N/A	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	N/A
Incidental Use Separation		N/A	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 2/E-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 1-2 (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

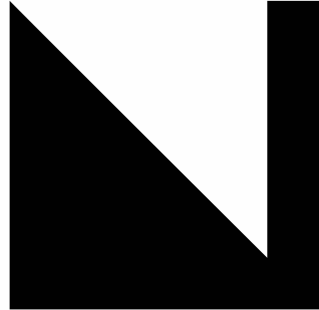
(No special approvals required at this time)

ENERGY SUMMARY

(Not applicable, no chanes to thermal envelope by this interior renovation)

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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)



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SET



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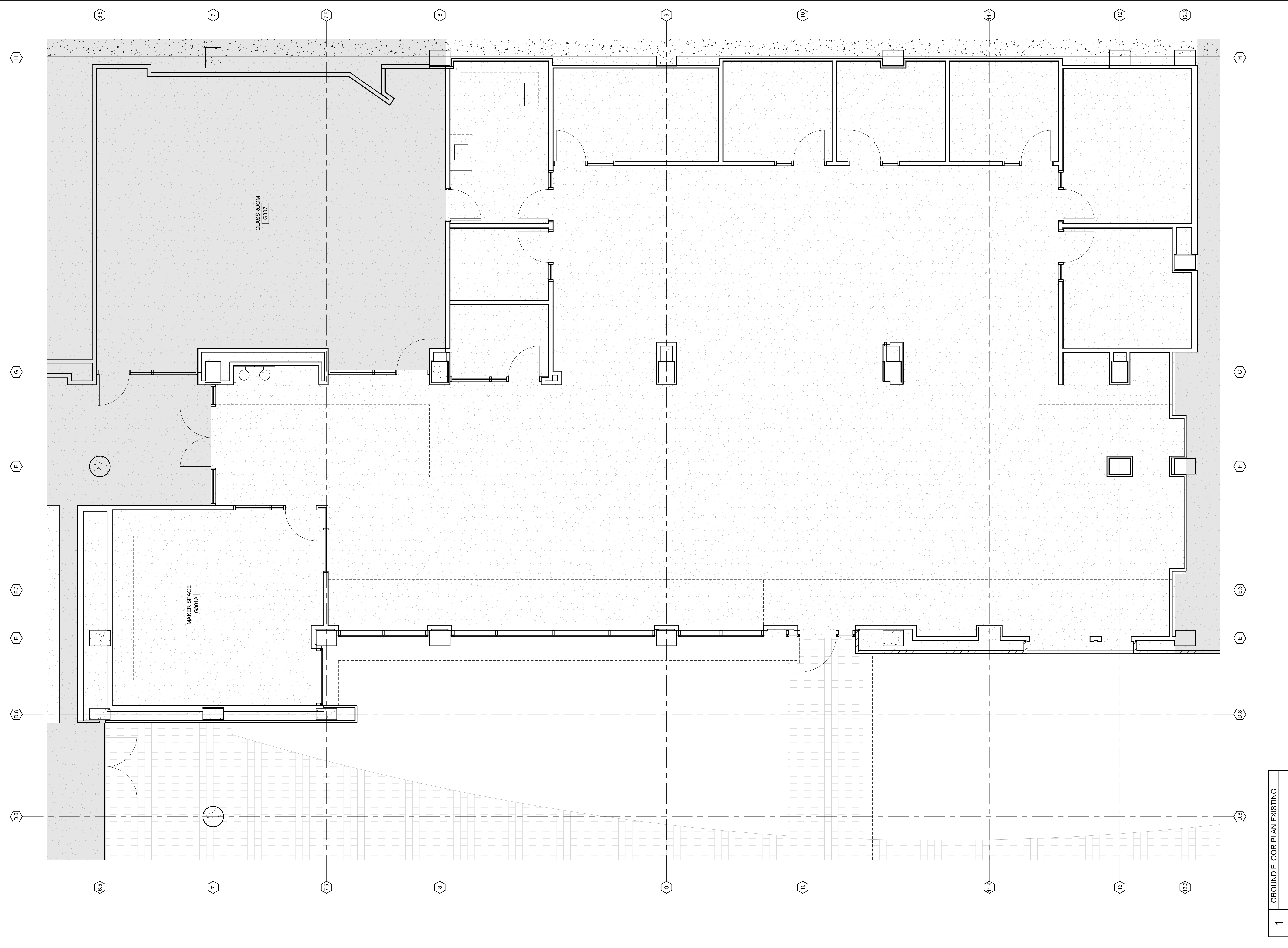
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A001

APPENDIX B

1	EXISTING (2011) LIFE SAFETY PLAN
	1/16" = 1'-0"



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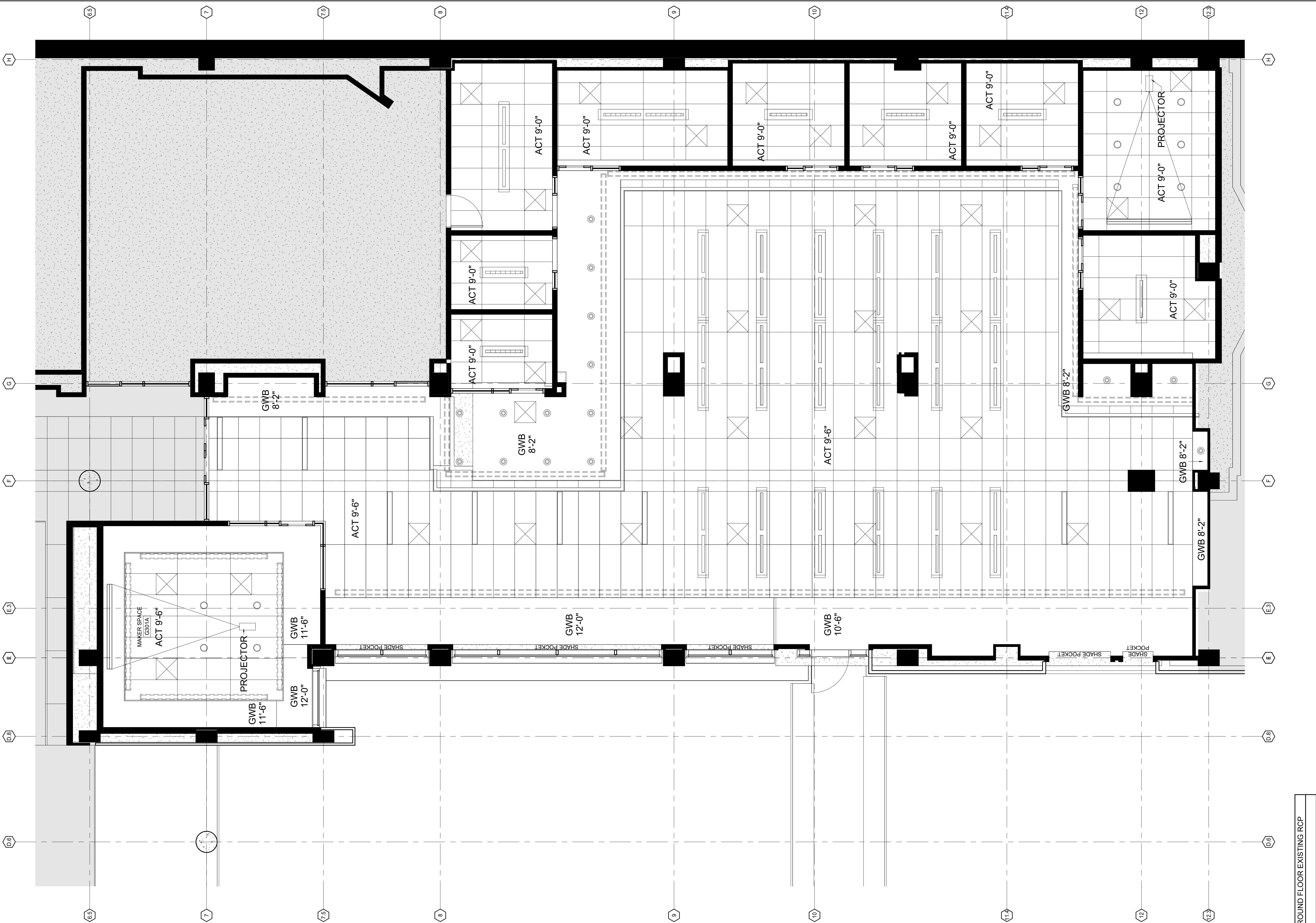
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A100

GROUND FLOOR
EXISTING PLAN

1 GROUND FLOOR PLAN EXISTING



1 GROUND FLOOR EXISTING RCP



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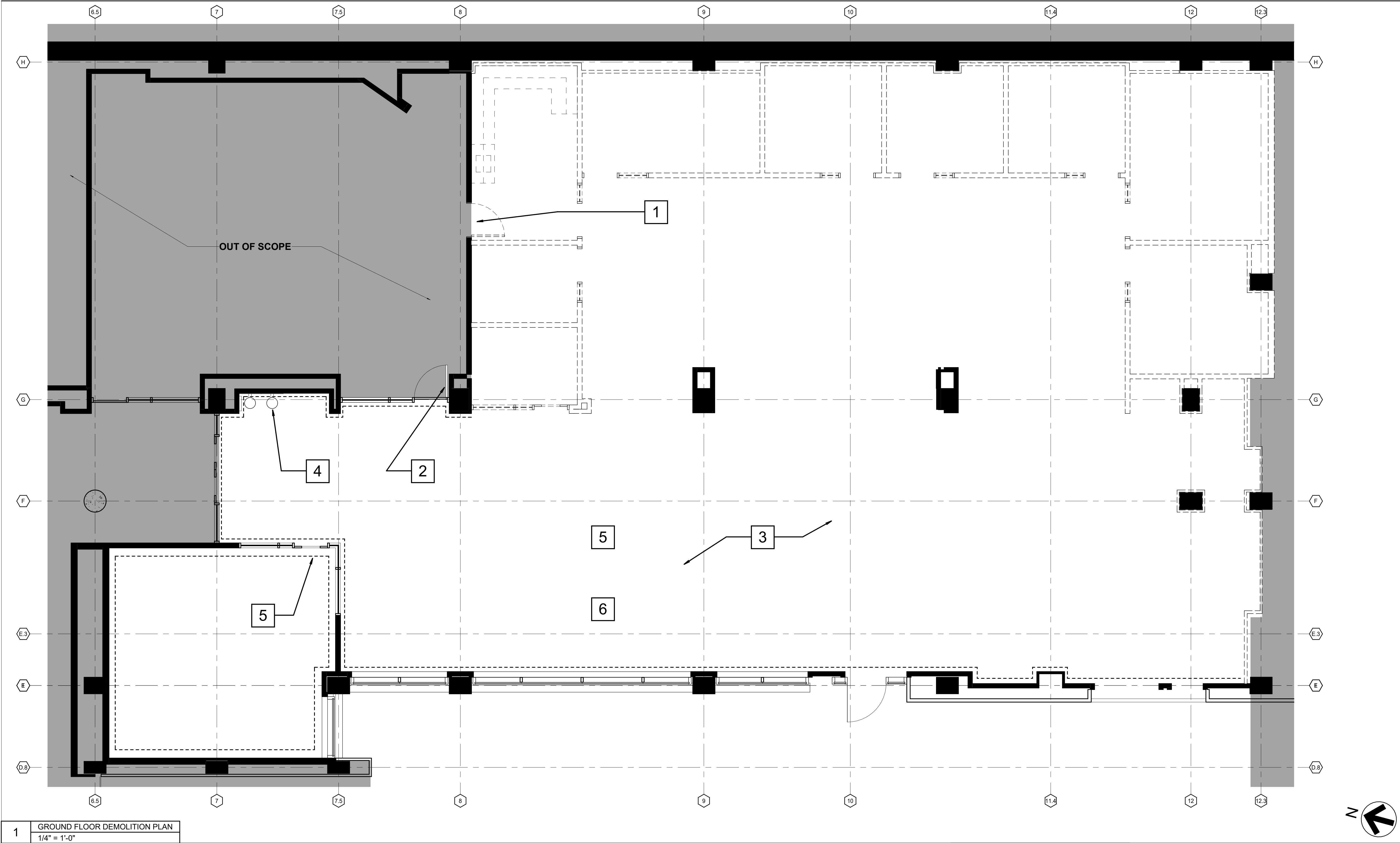
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A100.1

GROUND FLOOR
EXISTING RCP



1 GROUND FLOOR DEMOLITION PLAN
1/4" = 1'-0"

DEMOLITION GENERAL NOTES

- REFER TO MECHANICAL, ELECTRICAL AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL DEMOLITION ITEMS.
- REFER TO MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SHEETS FOR ANY MECHANICAL, ELECTRICAL, OR FIRE PROTECTION DEMOLITION ITEM. DON'T FOLLOW THE ARCHITECTURAL SHEETS FOR DEMOLITION OF THOSE ITEMS. CONTACT THE ARCHITECT ABOUT ANY DISCREPANCIES.
- CONTRACTOR SHALL OBTAIN A COPY OF THE BUILDING MANAGEMENT'S RULES AND REGULATIONS AND COMPLY WITH THEM IN ALL MATTERS RELATED TO THE SCOPE OF WORK. PROVIDE PROTECTION OF INTERIOR FINISHES DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR TO PROTECT EXISTING MECHANICAL UNITS TO REMAIN DURING EXTENT OF CONSTRUCTION, IN ACCORDANCE WITH CONSTRUCTION INDOOR QUALITY MANAGEMENT PLAN. COORDINATE WITH ENGINEERING DRAWINGS.
- REFER TO DEMOLITION REFLECTED CEILING PLAN FOR EXTENTS AND DESCRIPTION OF CEILING DEMOLITION.
- REMOVE DESIGNATED PARTITIONS WHERE INDICATED.
- REMOVE FLOORING THROUGHOUT PROJECT AREA. REMOVE ALL ADHESIVES AND UNDERLAYMENTS, LEAVING SUBFLOOR IN CLEAN CONDITION READY FOR NEW FISHES.
- REMOVE WALL FINISHES, DRY ERASE BOARDS, ETC. FROM EXISTING PARTITIONS. PREPARE FOR ABOVE IN OPEN-CEILING AREAS DURING NEW WORK PHASE.
- WHERE INDICATED ON PLANS, LEAVE EXISTING FURRING WALLS IN PLACE, TO BE EXTENDED TO STRUCTURE ABOVE IN OPEN-CEILING AREAS DURING NEW WORK PHASE.
- GO TO STUDY THE CONDITION TO THE EXISTING STUDS AND DRYWALL, AND COMMUNICATE TO THE ARCHITECT IF SOME OF THE EXISTING WALLS DESIGNATED AS "DEMOLITION" IN THIS PLANS CAN POTENTIALLY BE SAVED/ NOT DEMOLISHED; OR PARTIALLY SAVED
- SEE PLUMBING DRAWINGS FOR ANY DEMOLITION NEEDED OF THE EXSITING SLAB TO INSTALL NEW PIPES

PLAN KEYED NOTES

- DEMOLISH DOOR. OPENING TO BE INFILLED TO MATCH EXISTING WALL STRUCTURE AND FINISHES ON BOTH SIDES.
- CAREFULLY REMOVE DOOR WITHOUT DAMAGING IT. GO TO INVESTIGATE IF POSSIBLE TO RE-USE IT. SEE A-102.
- REMOVE ALL FLOORING MATERIAL IN THE AREA OF SCOPE OF WORK AND PREPARE FOR NEW FLOORING MATERIAL. LEVEL IF NEEDED PER FLOORING MANUF. RECOMMENDATIONS / SEE SPECS
- KEEP WATER FOUNTAINS
- REMOVE EXISTING BASE THROUGHOUT THE SCOPE AREA. PATCH AND REPAIR AS NEEDED AND PREP FOR NEW FLOORING WORK AND NEW BASE
- STUDY MEP AND FP PLANS AND PREPARE EXISTING WALLS FOR NEW MEP AND FP WORK. PATCH AND REPAIR DRYWALL AS REQUIRED. ADD BLOCKING IF REQUIRED.

LEGEND, DEMOLITION PLAN

- WORK LIMIT LINE
- AREA NOT IN CONTRACT/ SCOPE
- EXISTING WALLS
- - - - - WALL TO BE DEMOLISHED



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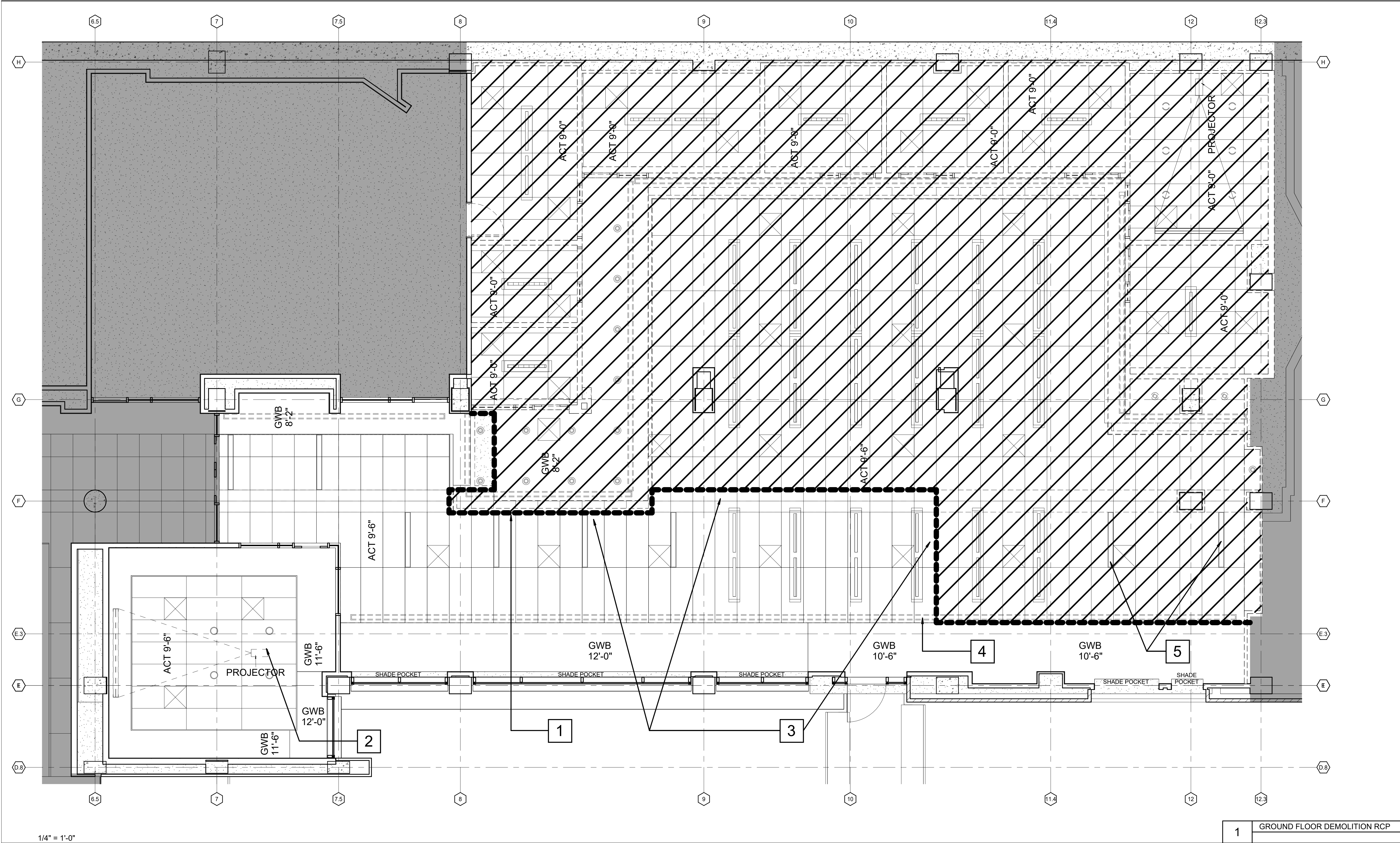
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A101

DEMOLITION PLAN



1/4" = 1'-0"

DEMOLITION CEILING PLAN GENERAL NOTES

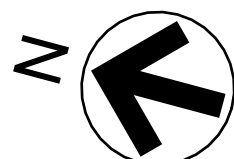
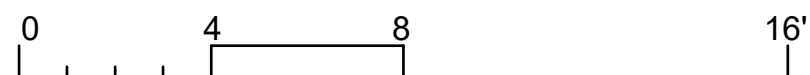
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- REFER TO MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SHEETS FOR ANY MECHANICAL, ELECTRICAL, OR FIRE PROTECTION DEMOLITION ITEM. DON'T FOLLOW THE ARCHITECTURAL SHEETS FOR DEMOLITION OF THOSE ITEMS. CONTACT THE ARCHITECT ABOUT ANY DISCREPANCIES.
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- CONTRACTOR TO PROTECT EXISTING MECHANICAL UNITS TO REMAIN DURING EXTENT OF CONSTRUCTION, IN ACCORDANCE WITH CONSTRUCTION INDOOR QUALITY MANAGEMENT PLAN. COORDINATE WITH ENGINEERING DRAWINGS.
- WITHIN CEILING DEMOLITION AREA:
 - REMOVE LIGHT FIXTURES
 - DEMOLISH CEILING INCLUDING GRID SUPPORT AND ANY CONNECTIONS TO STRUCTURE
 - G.C. TO ASSES IF REUSING SOME OF THE EXISTING ACT FOR THE SMALL AREA IN THE SOCIAL SPACE IS POSSIBLE. SEE KEYED PLAN NOTE NUMBER 1 ON 1/A102.1
 - G.C. TO ASSES IF REUSING SOME OF THE EXISTING LINEAR LIGHT FIXTURES IS POSSIBLE. SEE KEYED PLAN NOTE NUMBER 1 ON 1/A102.1
- REFER TO DEMOLITION SPECIFICATIONS FOR DETAILED GENERAL REQUIREMENTS.

PLAN KEYED NOTES

- DEMOLISH CEILING BULKHEAD AND COVE LIGHTING WHERE INDICATED. RETAIN ADJACENT BULKHEAD IN PLACE. SUPPORT ADJACENT CEILING AREA AS NECESSARY TO PRESERVE EXISTING CEILING TO BE INFILLED PER NEW WORK PLANS.
- OFFICE: REMOVE PROJECTOR AND SCREEN. PREPARE EXISTING CEILING FINISHES TO BE REPAIRED.
- SOME DEMOLITION OF THE EXISTING ACT CEILING MAY NEED TO EXTEND PAST THE WORK LIMIT LINE INTO THE HALLWAY IN ORDER TO PROVIDE THE ROOM NEEDED TO INSTALL THE NEW METAL STUD THAT WILL SEPARATE "G301 SOCIAL" FROM "G301B TEACHING LAB" AND "G301C TEACHING LAB CLASSROOM." THE GENERAL CONTRACTOR WILL EVALUATE THE EXTENT OF THIS POTENTIAL ADDITIONAL DEMOLITION AND COMMUNICATE THEIR ASSESSMENT TO THE ARCHITECT BEFORE FINALIZING THE CONSTRUCTION CONTRACT AND BEFORE STARTING CONSTRUCTION.
- KEEP EXISTING COVE LIGHT IN THE HALLWAY. FIELD VERIFY IF THE LAST SECTION CLOSE TO THE NEW LAB WALL WILL NEED TO BE DEMOLISHED OR NOT
- KEEP EXISTING (2) LIGHT FIXTURES. G.C. TO EVALUATE IF REUSING THIS FIXTURES IS POSSIBLE PER A102.1/ PLAN KEYED NOTE 2

LEGEND, DEMOLITION RCP

- WORK LIMIT LINE
- AREA NOT IN CONTRACT/ SCOPE
- WALL TO BE DEMOLISHED
- CEILING DEMOLITION AREA
- DOOR TO BE DEMOLISHED



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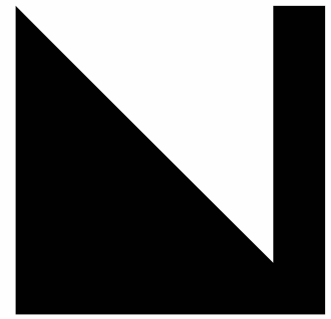
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A101.1

DEMOLITION RCP



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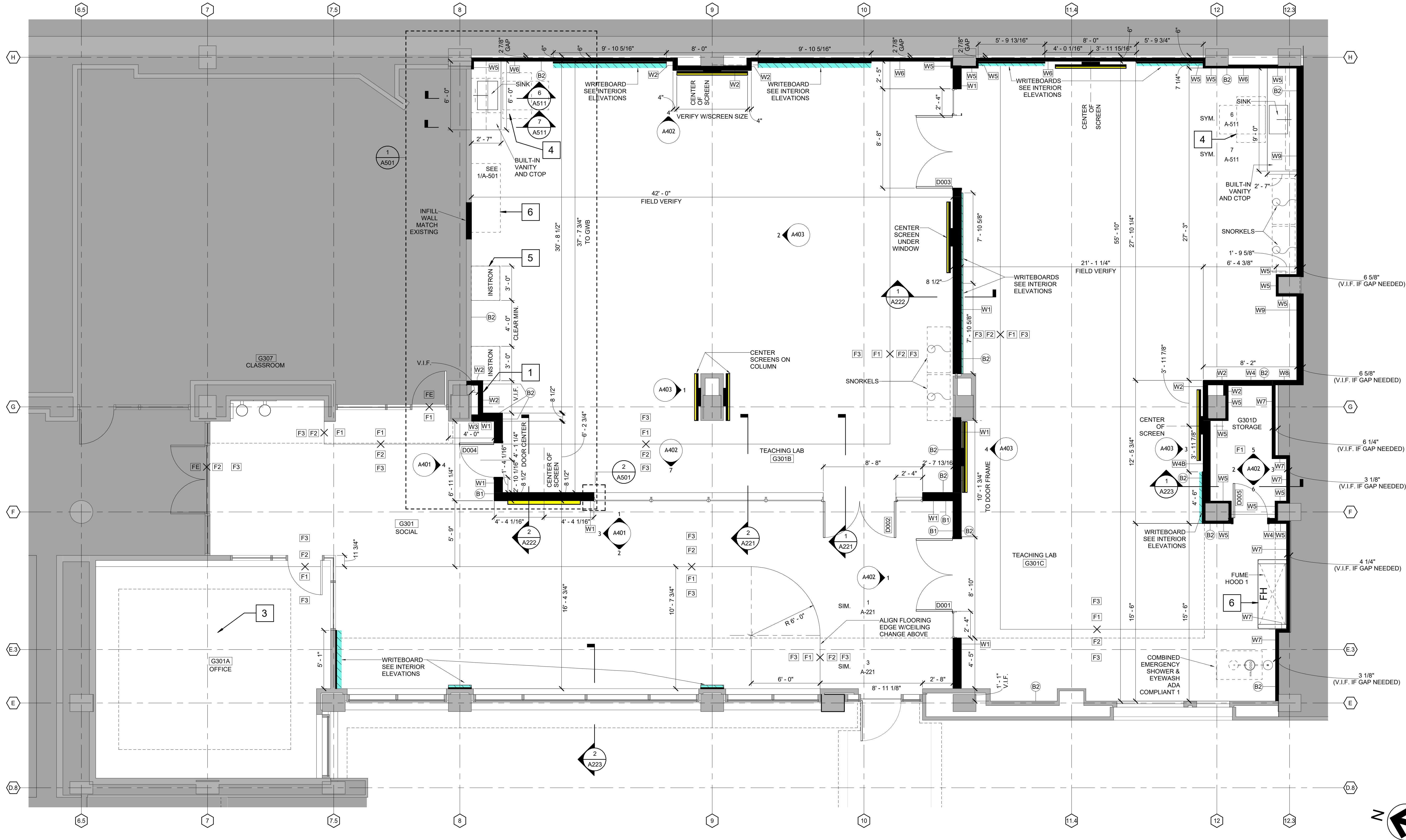
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A102

NEW WORK PLAN



DIMENSIONS TO FINISHED FACE U.N.O.

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

FLOOR PLAN GENERAL NOTES

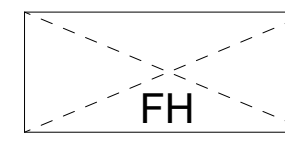
- ALL EXISTING CONDITIONS AND DIMENSIONS TO BE FIELD VERIFIED
- SEE A-601 FOR INTERIOR WALL TYPES
- SEE A-601 FOR WINDOW SCHEDULE
- SEE A-601 FOR DOOR SCHEDULE
- SEE A-601 FOR FLOOR AND WALL FINISH SCHEDULE
- SEE A-601 FOR BASE SCHEDULE
- REFER TO 3/A-501 FOR FINAL FLOORING PATTERN
- ALL EXISTING AND NEW PARTITIONS AND FURRING 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 POWDER AND DATA NEEDS WITH ARCHITECT AND MEP ENGINEER. DISPLAY SCREENS OR OTHER OBJECTS SHOULD NOT ENCR OACH MORE THAN 4 INCHES FOR 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 TRUIVIEW
- SNORKELS AND INSTRONS 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 OF 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

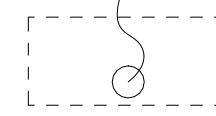
- FURR AS NEEDED TO ACCOMMODATE NEW DRAIN LEADER ADJACENT TO COLUMN. REFER TO PLUMBING SANITARY GROUND PLAN (P111).
- REVERSE SWING
- PAINT EXISTING OFFICE'S WALLS AND BASEBOARDS TO MATCH G301 SOCIAL AND TEACHING LABS.
- ADA COMPLIANT CLEAR FLOOR SPACE PROVIDED PER NCBC CHAPTER 11 AND ICC A117.1. SHOWN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

FLOOR PLAN LEGEND

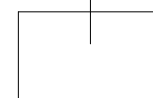
- EXISTING WALLS
- NEW WALLS
- DISPLAY SCREEN W/ OPTIONAL FLEXIBLE ARM, ADA COMPLIANT
- GLASS WRITABLE SURFACE
- INSTRON TESTING MACHINE ON TABLE, 115" TOTAL HEAD CLEARANCE NEEDED



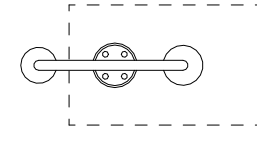
FUME HOOD, 6' WIDTH



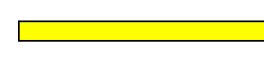
SNORKEL WORK AREA 4' WIDTH



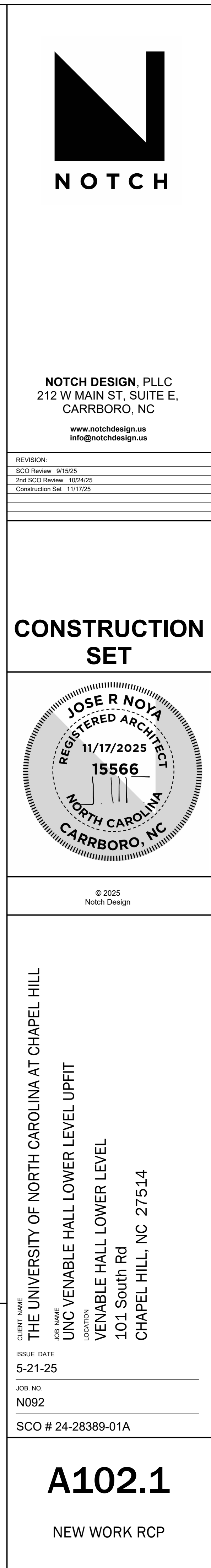
SINK, H/C, DEI H20



COMBINED EYEWASH AND SHOWER ADA COMPLIANT



DIGITAL DISPLAY, FLUSH MOUNTED, ADA COMPLIANT



- * ALL EXISTING CONDITIONS AND DIMENSIONS TO BE FIELD VERIFIED
- * NEW PARTITIONS TO BE FINISHED WITH DRYWALL UP TO THE BOTTOM OF SLAB ABOVE WITHIN LAB 1 AND LAB 2
- * GENERAL CONTRACTOR IS RESPONSIBLE TO HIRE UNISTRUT SUBCONTRACTOR TO DESIGN AND INSTALL UNISTRUT GRID SYSTEMS. CONTACT MATT FRANK UNISTRUT MIDWEST 216-804-1912
- * SEE A-602 FOR MOTORIZED ROLLER SHADES SCHEDULE
- * SEE A-601 FOR SCHEDULES
- * BOTTOM OF SUSPENDED LIGHT FIXTURES IN ROOMS G301B AND G301C TO MATCH THE BOTTOM OF THE CEILING GRID. FIELD VERIFY COORDINATE WITH ARCHITECT
- * LOCATE FIRE DETECTION DEVICES A MINIMUM OF THREE FEET FROM SUPPLY OR RETURN DIFFUSERS. SEE FIRE PROTECTION, FIRE ALARM, ELECTRICAL AND MECHANICAL DRAWINGS
- * SEE FIRE PROTECTION DRAWINGS FOR FIND LOCATIONS OF SPRINKLER HEADS. SMALL ADJUSTMENTS MAY BE MADE TO THE SPACING OF THE SPRINKLER HEADS WITH THE FIRE PROTECTION LAYOUT. GC TO SUBMIT COORDINATED SHOP DRAWINGS FOR AC CEILING AND SPRINKLER HEADS FOR ARCHITECT'S REVIEW

1. INFILL AREA WITH ACT TO MATCH EXISTING ADJACENT PANELS. PROVIDE NEW TILES TO MATCH THE EXISTING OR G.C. TO ASSESS IF REUSING SOME OF THE EXISTING TILES IS POSSIBLE.
2. NEW LIGHT FIXTURES TO MATCH EXISTING IN ADJACENT CEILING AREAS. REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS. RE-USE THE EXISTING LIGHT FIXTURES IF POSSIBLE PER A101.1/ PLAN KEYED NOTE 5.
3. PATCH AND REPAIR AS REQUIRED TO MATCH THE EXISTING CEILING / SEE A101.1
4. MATCH EXISTING CLOUD CEILING EDGE DETAIL. STOP 4.75" SHORT BEFORE THE NEW WALL PER DIMENSION CALLED OUT ON THE PLAN
5. LIGHT GRAY LINE INDICATES TYPICAL ACT JOINT. 2X4 NOMINAL ACT TILES. ATTACH ACT CHANNELS TO STRUCTURAL CEILING GRID. CUT TILES THAT ARE ADJACENT TO LIGHT FIXTURE AS NEEDED TO KEEP THE LINEAR PATTERN CONSISTENT.

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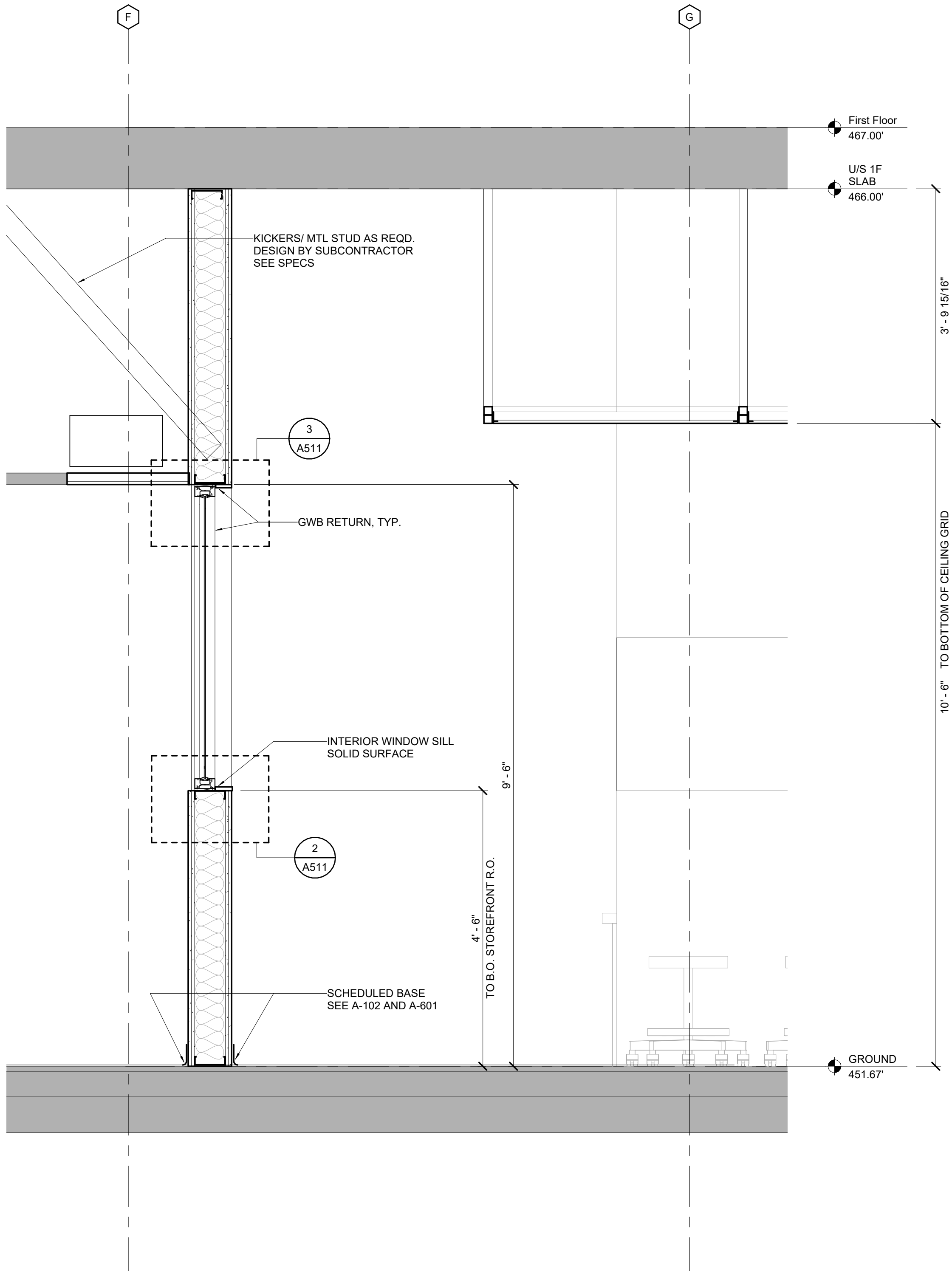
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A102.1

NEW WORK RCP

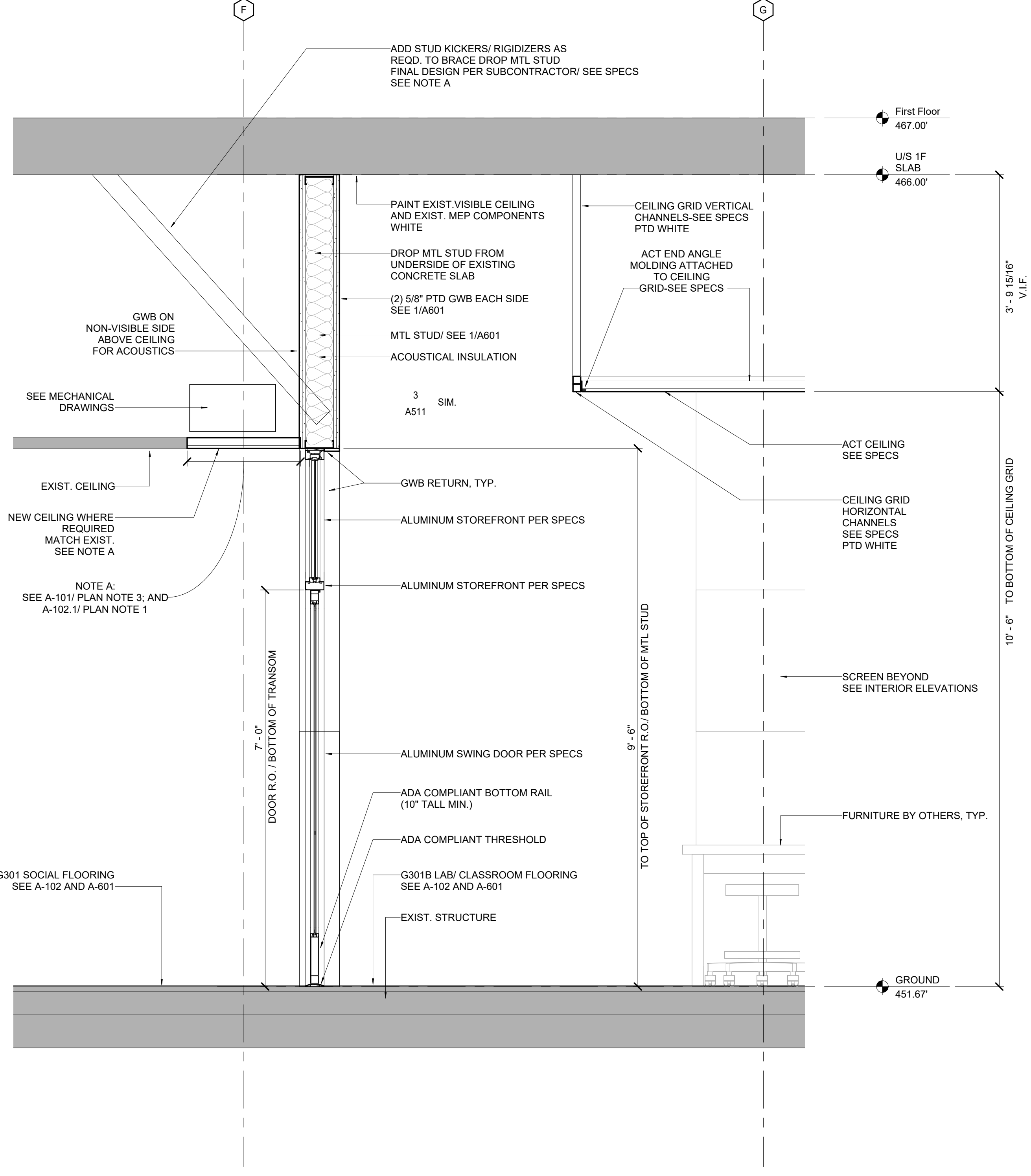


REFER TO 1/A221 FOR TYPICAL
NOTES AND DIMENSIONS

0 2 4 FT

2

SECTION 02
3/4" = 1' - 0"



0 2 4 FT

1

SECTION 01
3/4" = 1' - 0"



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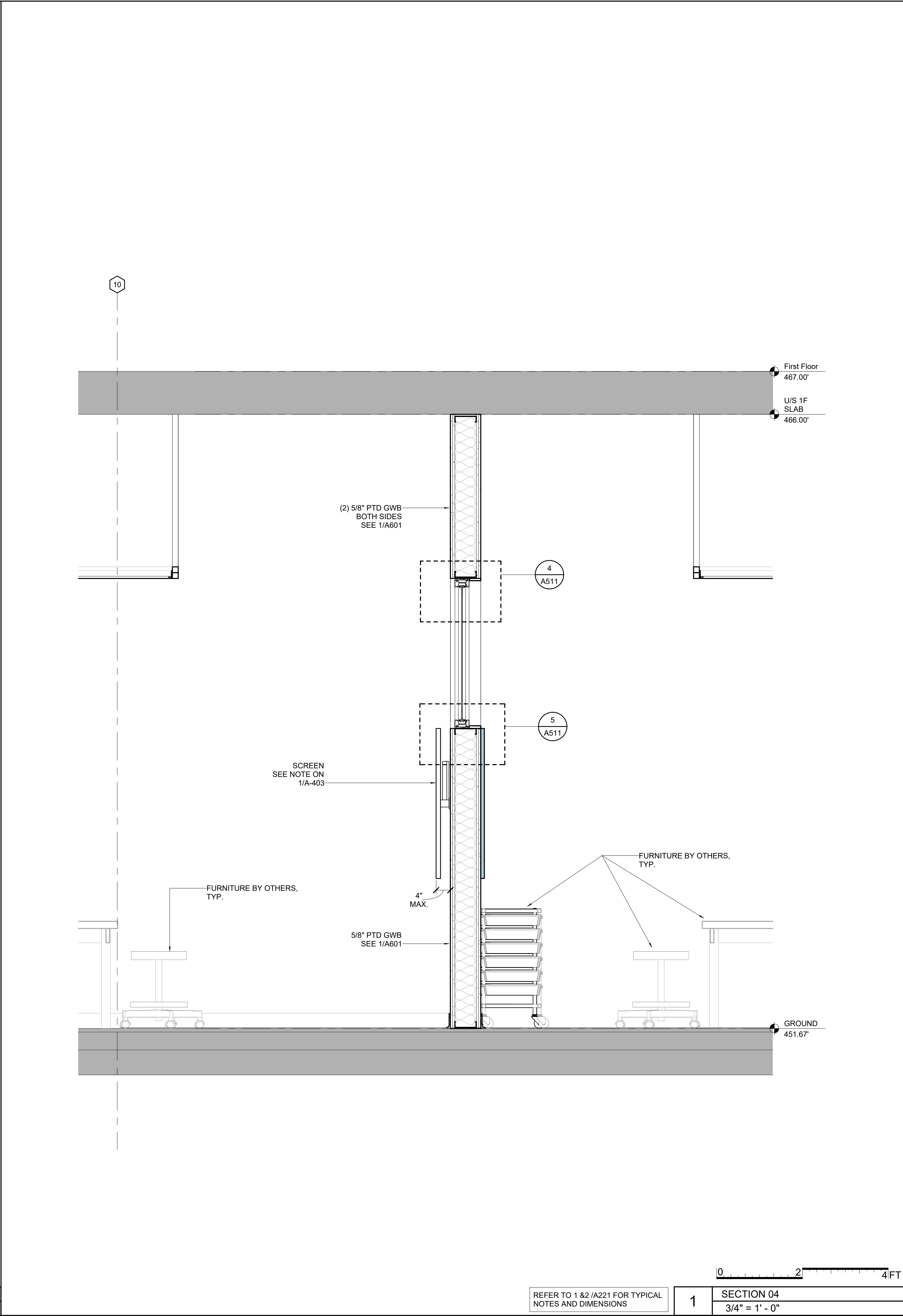
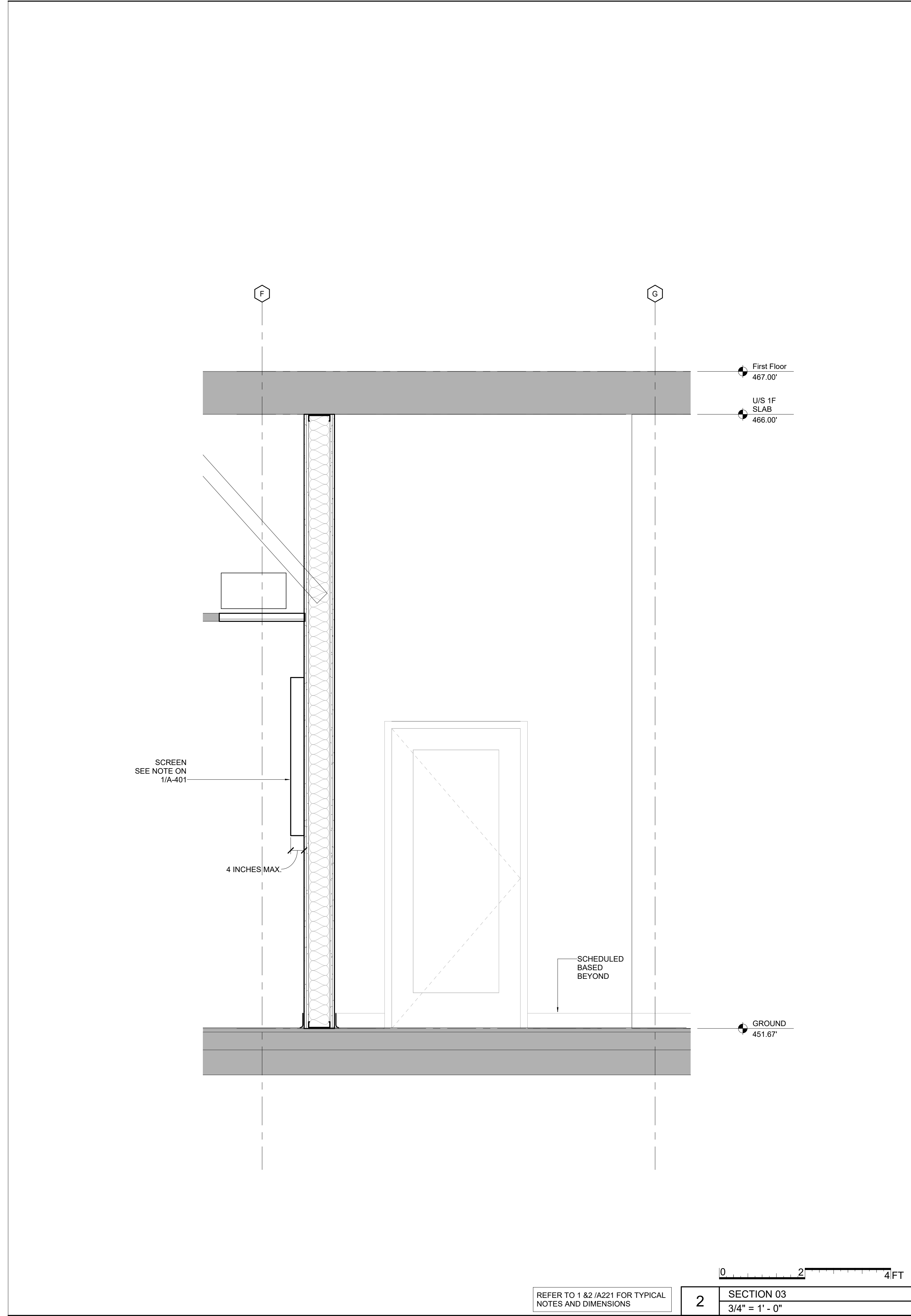
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WALL SECTIONS 1





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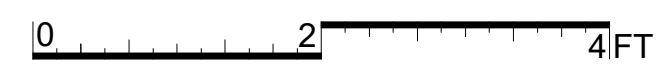
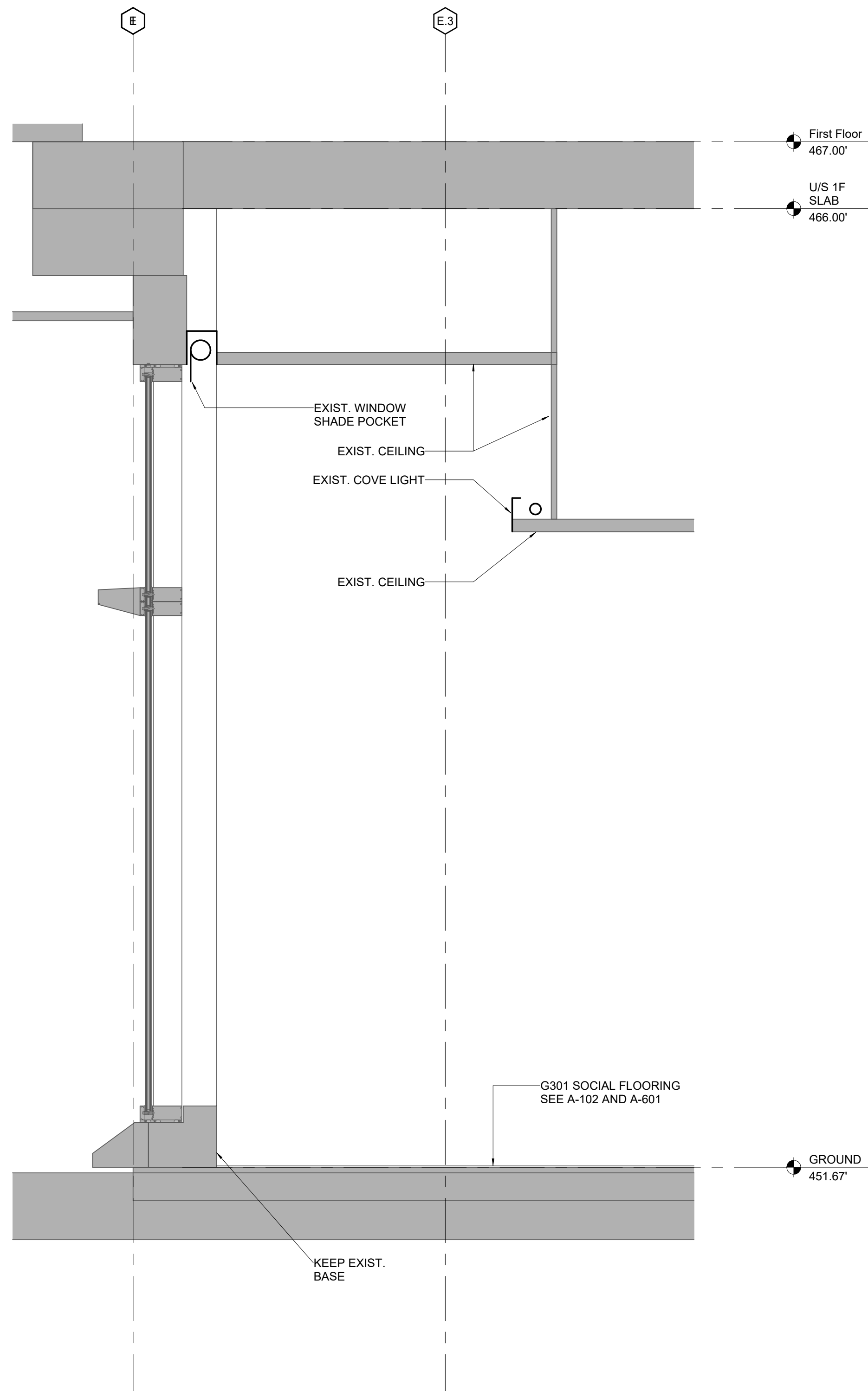
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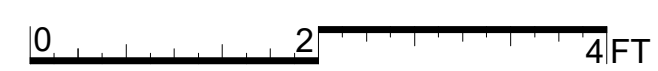
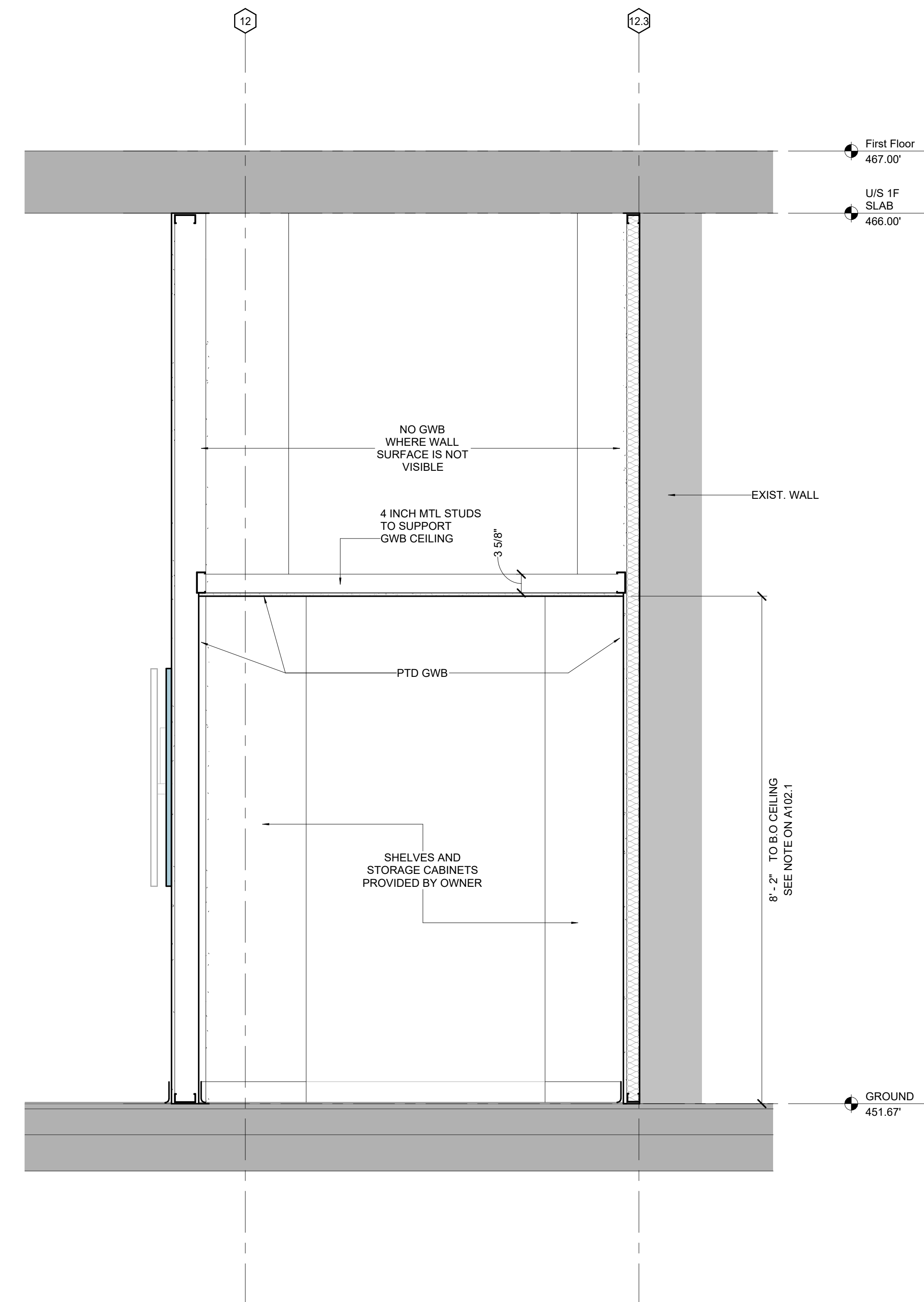
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A222

WALL SECTIONS 2



2	REFER TO 1/A221 FOR TYPICAL NOTES AND DIMENSIONS
	SECTION 06 3/4" = 1' - 0"



1	REFER TO 1/A221 FOR TYPICAL NOTES AND DIMENSIONS
	SECTION 05 3/4" = 1' - 0"



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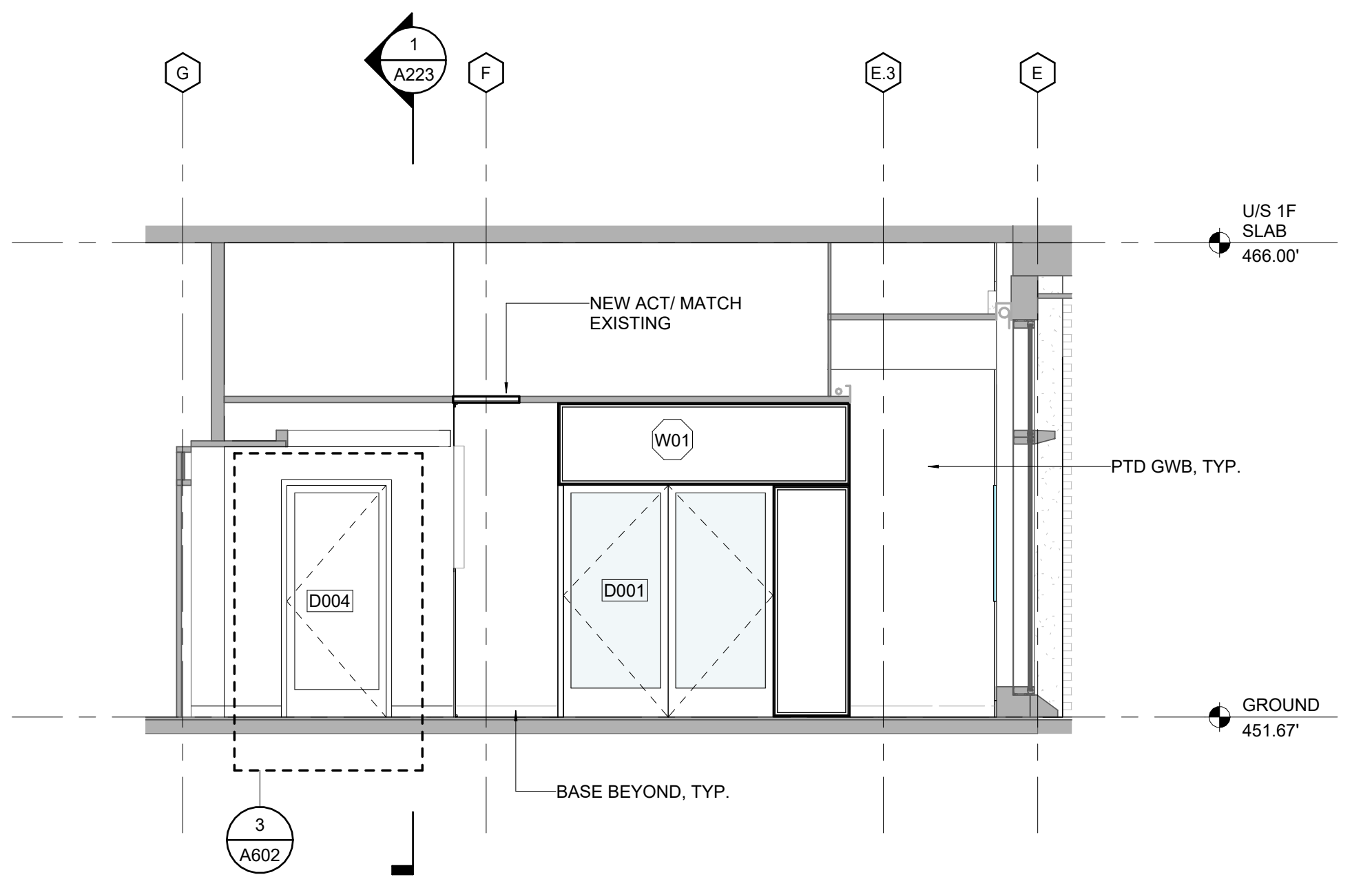
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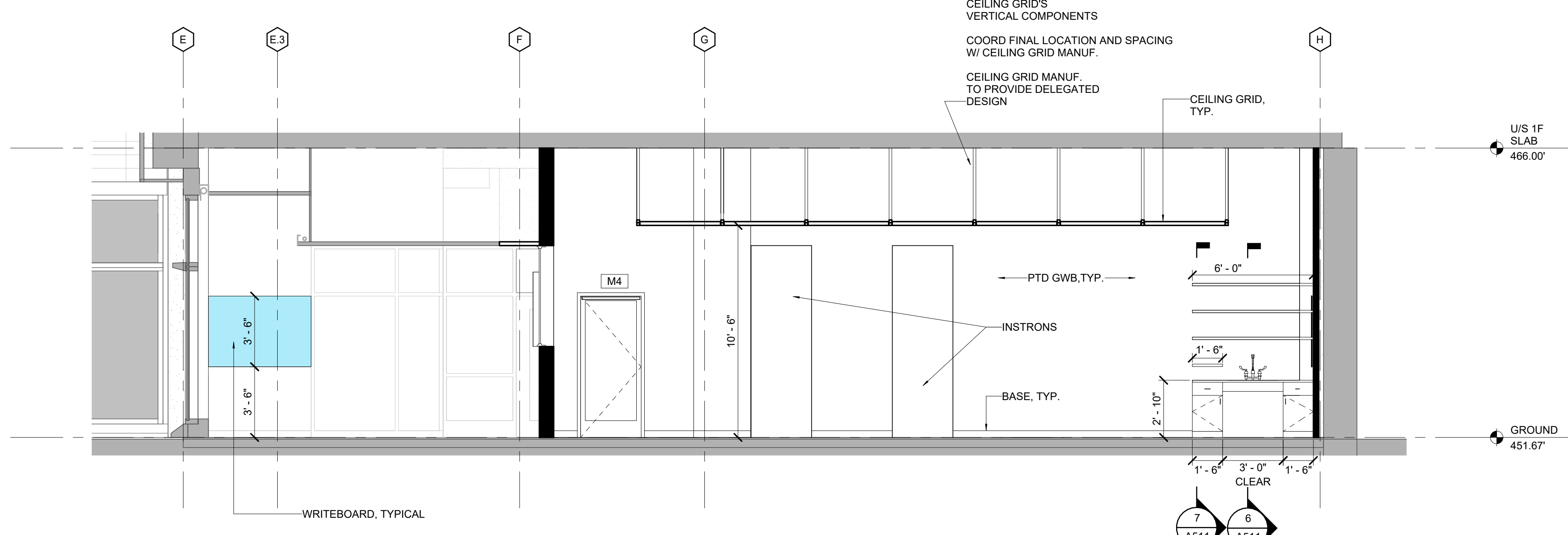
A223

WALL SECTIONS 3



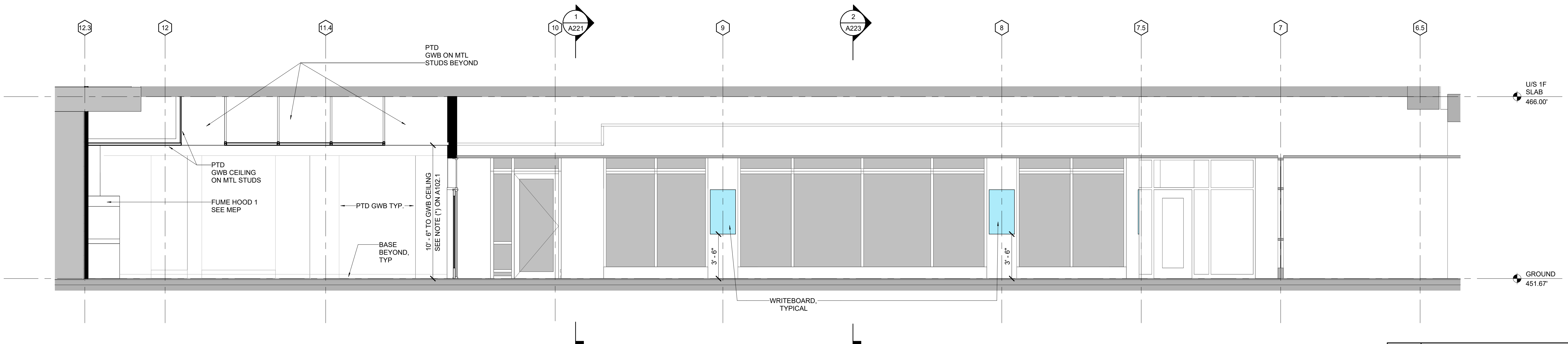
SEE 1/A401 FOR TYPICAL NOTES

4 SOCIAL SOUTH ELEVATION
1/4" = 1'-0" 0 4 8 FT



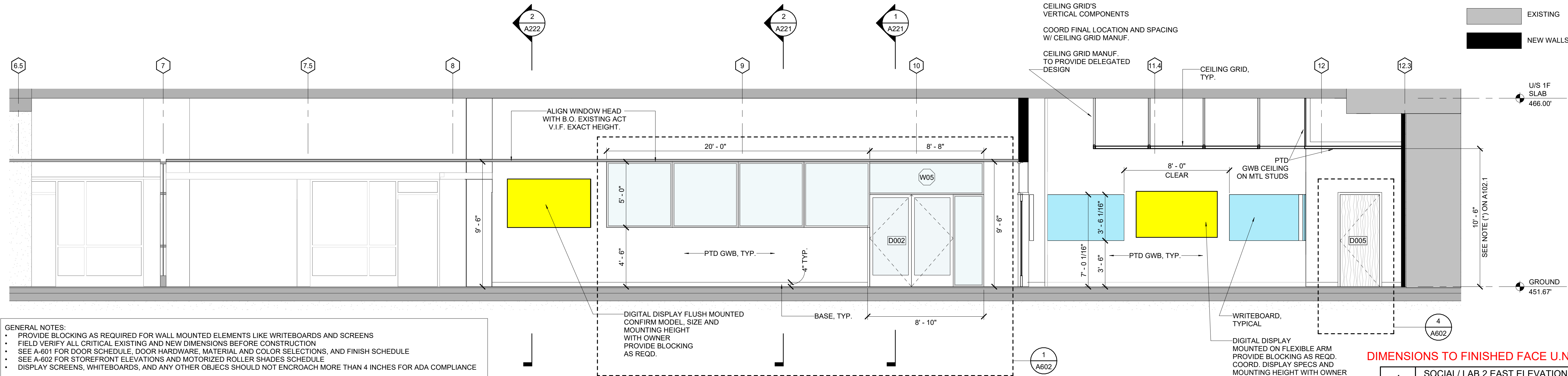
SEE 1/A401 FOR TYPICAL NOTES

3 SOCIAL/ LAB 1 NORTH ELEVATION
1/4" = 1'-0" 0 4 8 FT



SEE 1/A401 FOR TYPICAL NOTES

2 SOCIAL/ LAB 2 WEST ELEVATION
1/4" = 1'-0" 0 4 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 ENCR OACH 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 4 8 FT



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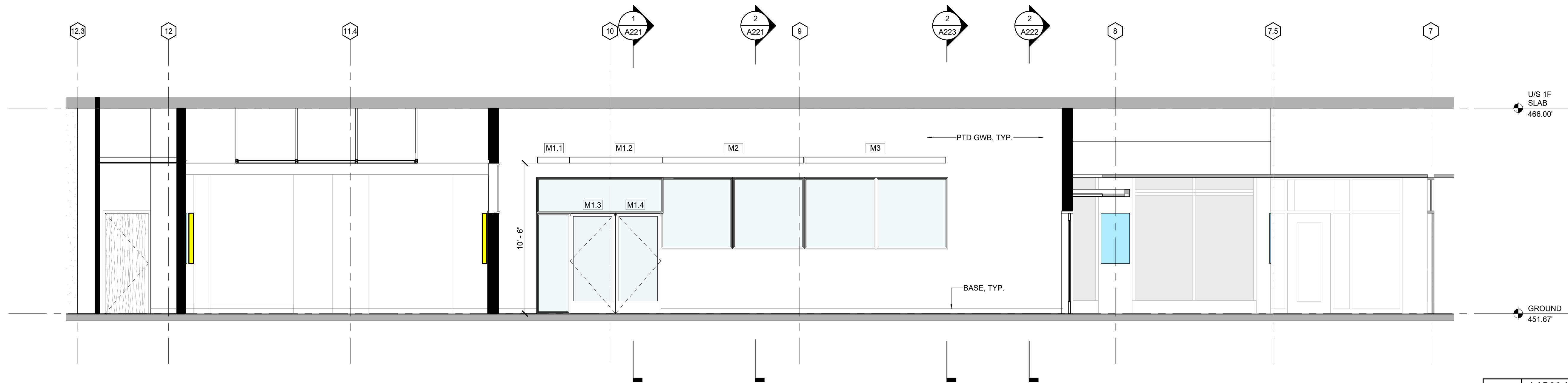
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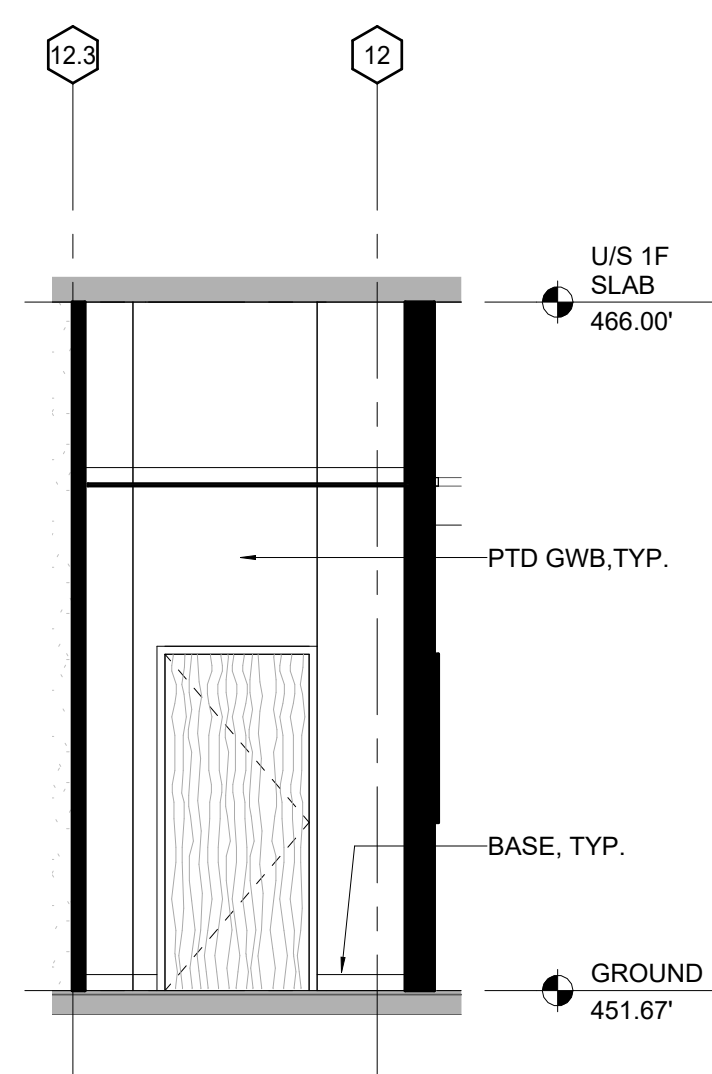
A401

INTERIOR
ELEVATIONS 1



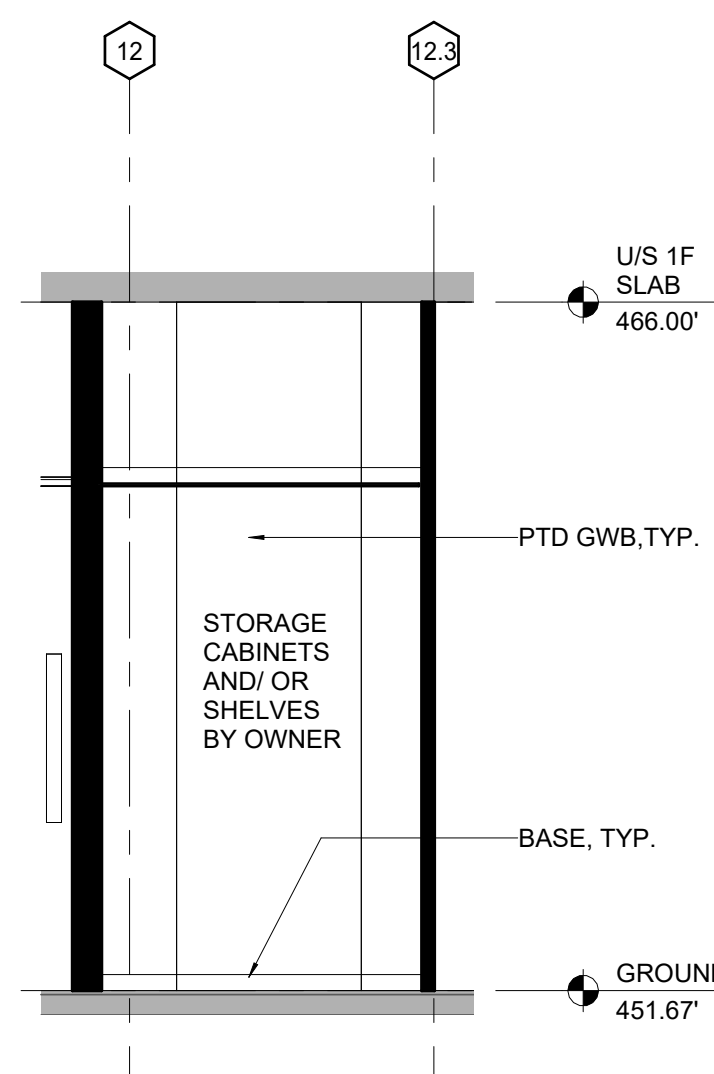
SEE 1&2/A401 AND 1&6/A402 FOR TYPICAL NOTES

7 LAB2/LAB1/SOCIAL WEST ELEV.
1/4" = 1'-0" 0 4 8 FT



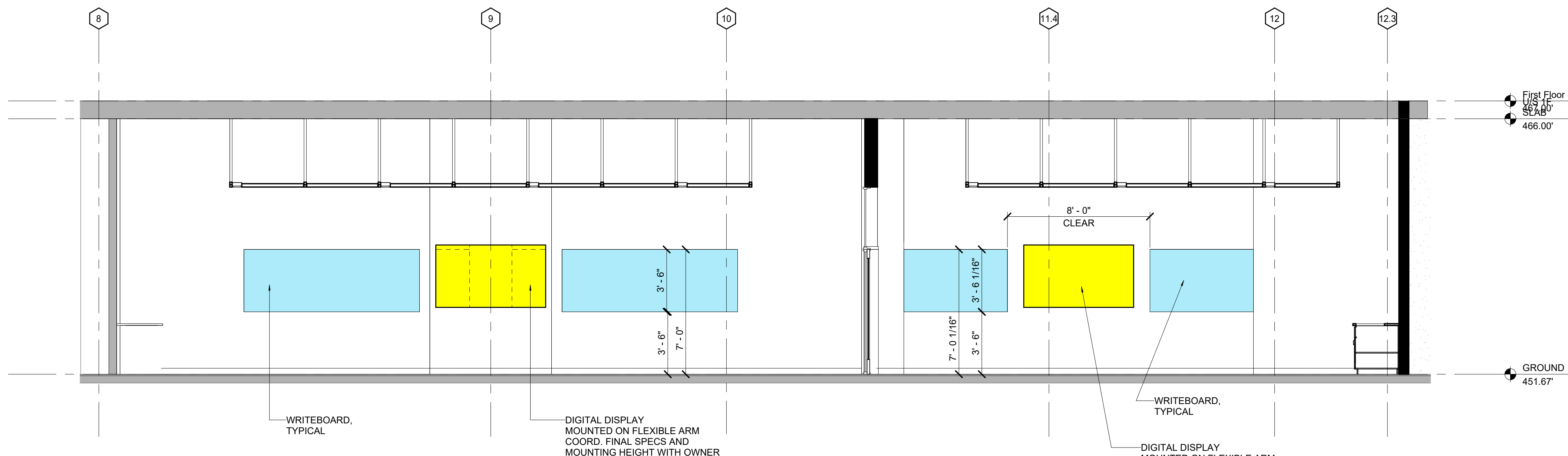
SEE 1/A401 & 2/A-402 FOR TYPICAL NOTES

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



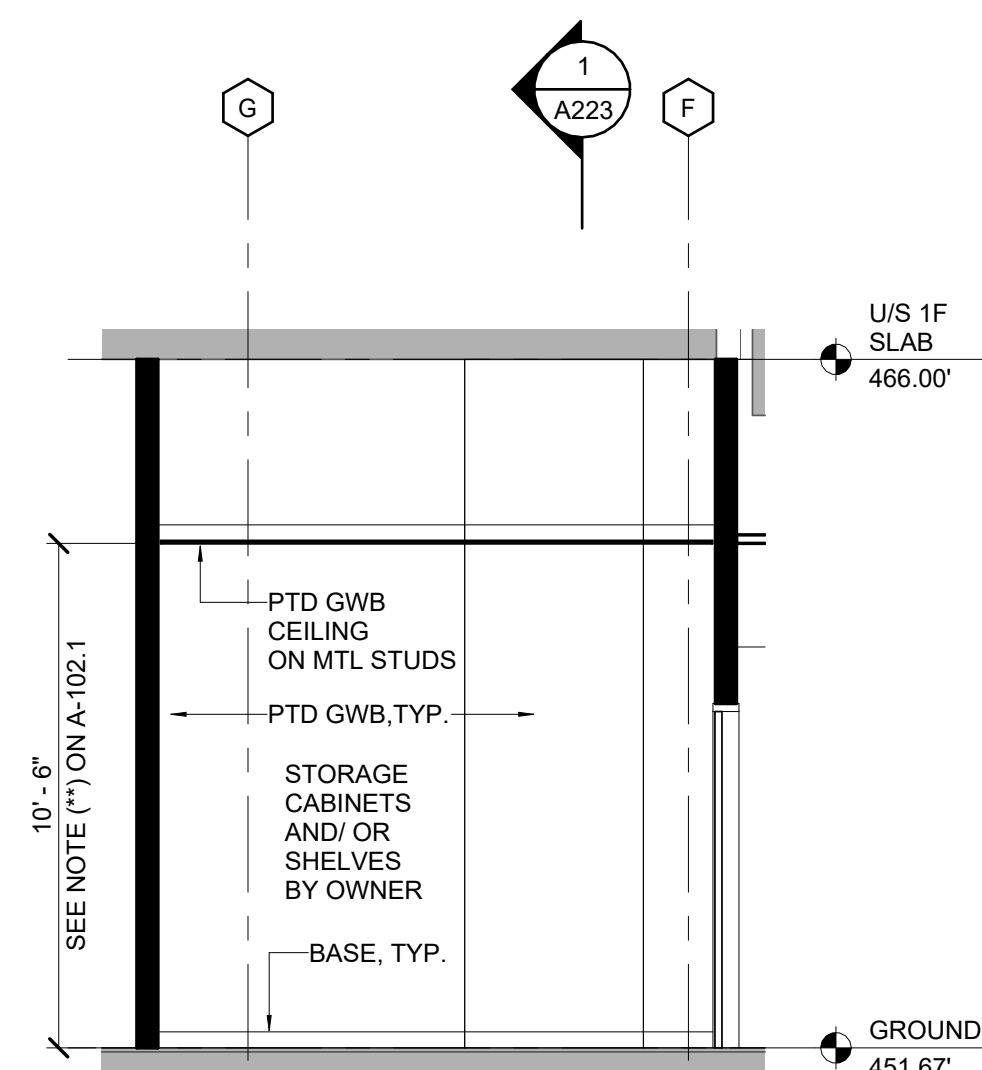
SEE 1/A401 & 2/A-402 FOR TYPICAL NOTES

5 STORAGE EAST
1/4" = 1'-0" 0 4 8 FT



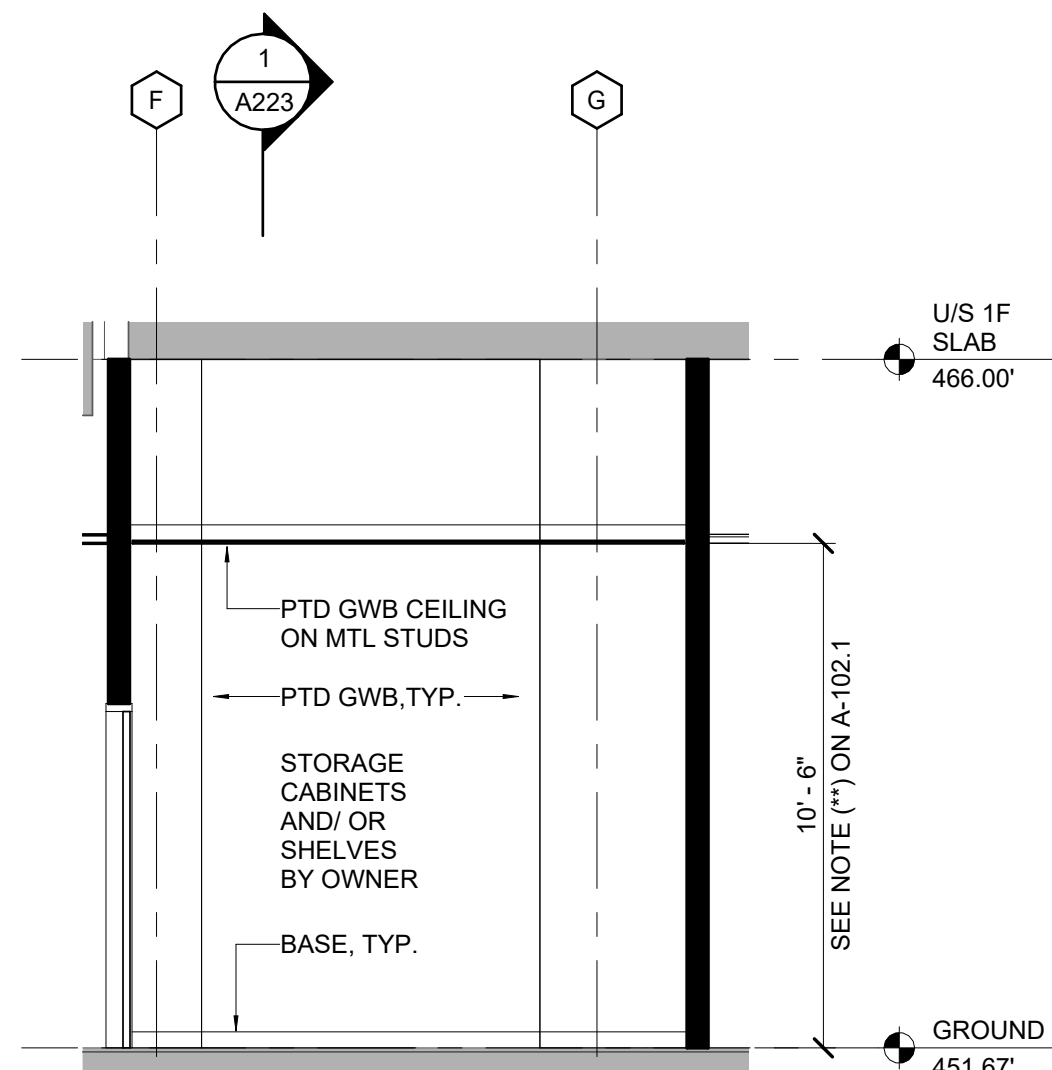
SEE 1/A401 FOR TYPICAL NOTES

4 LAB1/LAB2 EAST ELEVATION
1/4" = 1'-0" 0 4 8 FT



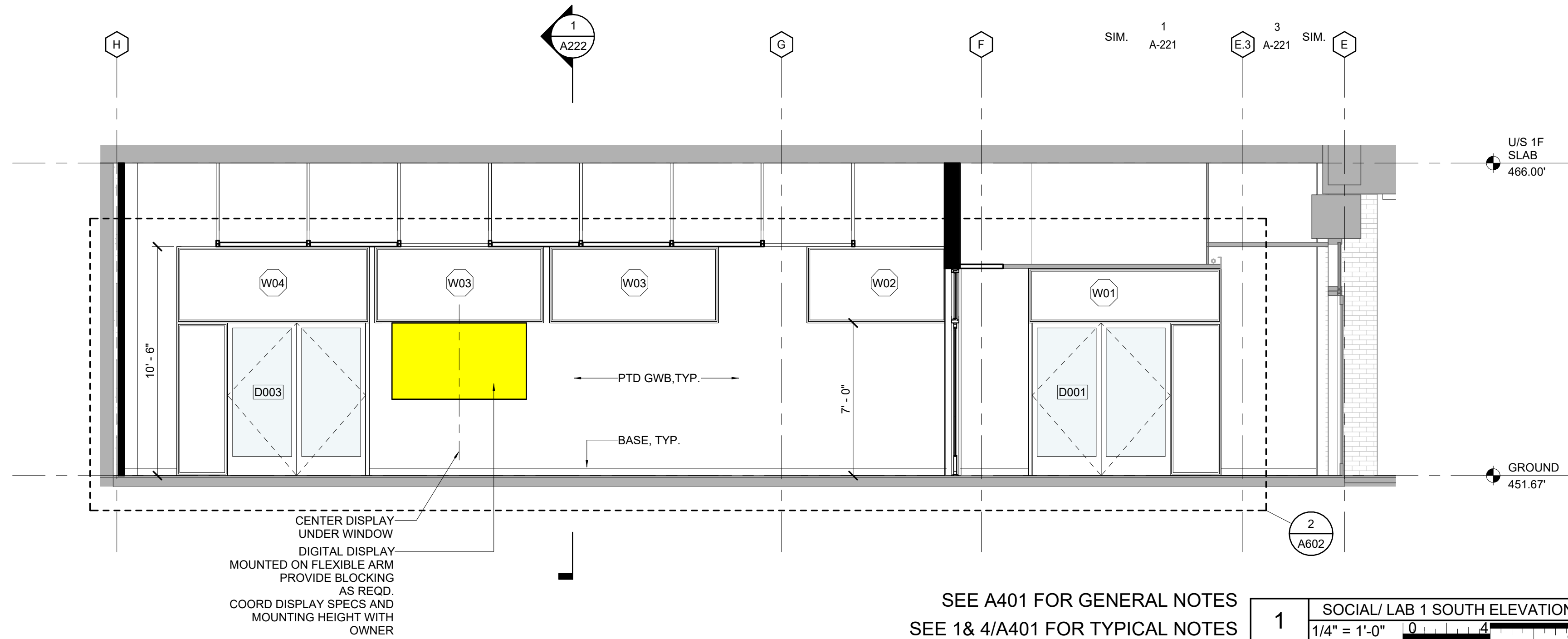
SEE 1/A401 FOR TYPICAL NOTES

3 STORAGE SOUTH
1/4" = 1'-0" 0 4 8 FT



SEE 1/A401 FOR TYPICAL NOTES

2 STORAGE NORTH
1/4" = 1'-0" 0 4 8 FT



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

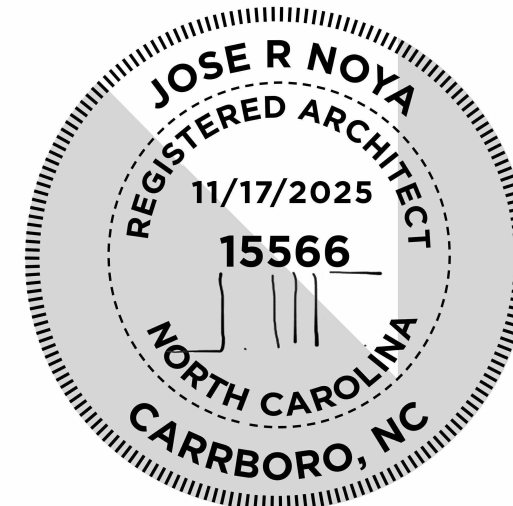
1 SOCIAL/ LAB 1 SOUTH ELEVATION
1/4" = 1'-0" 0 4 8 FT



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A402

INTERIOR
ELEVATIONS 2



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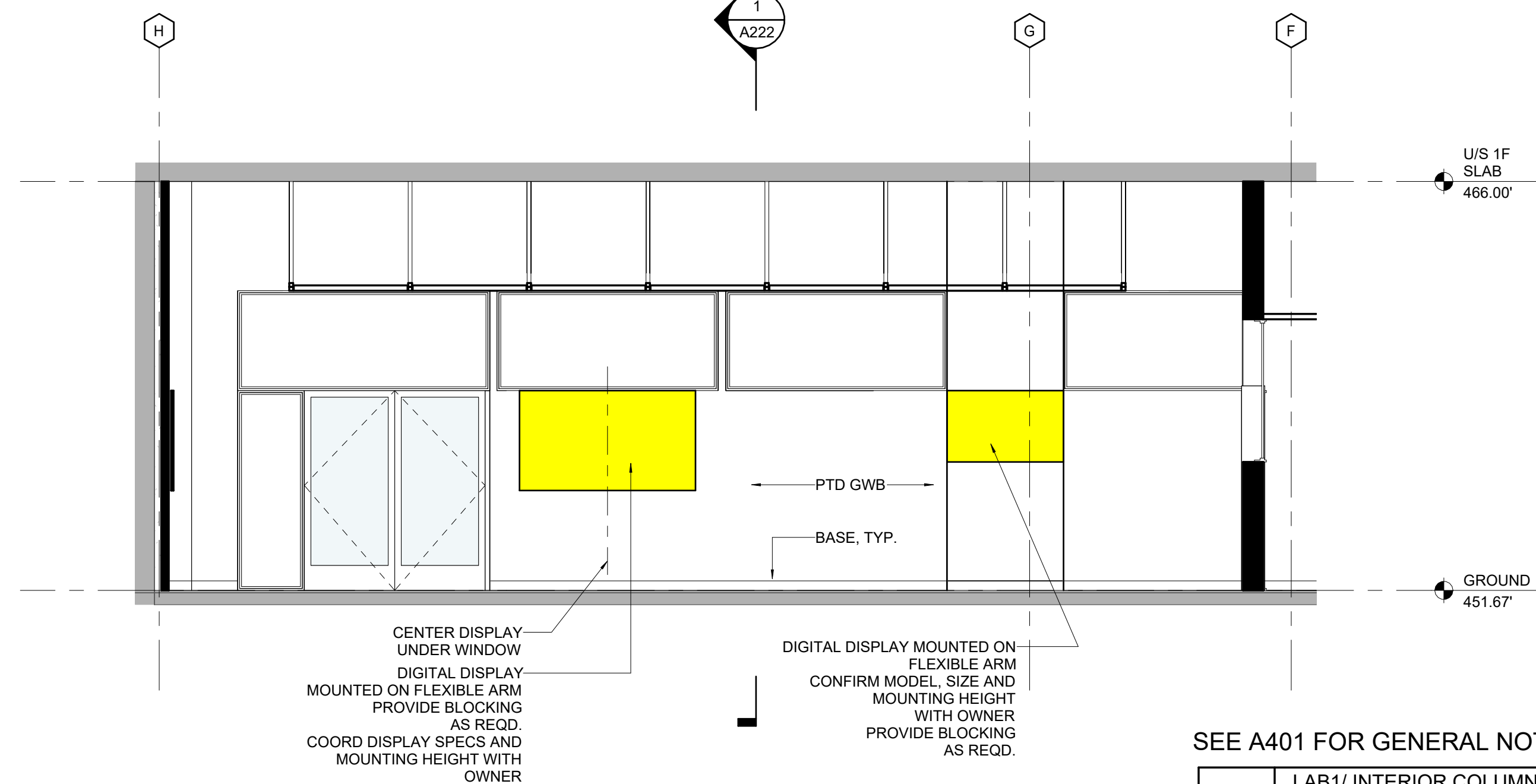
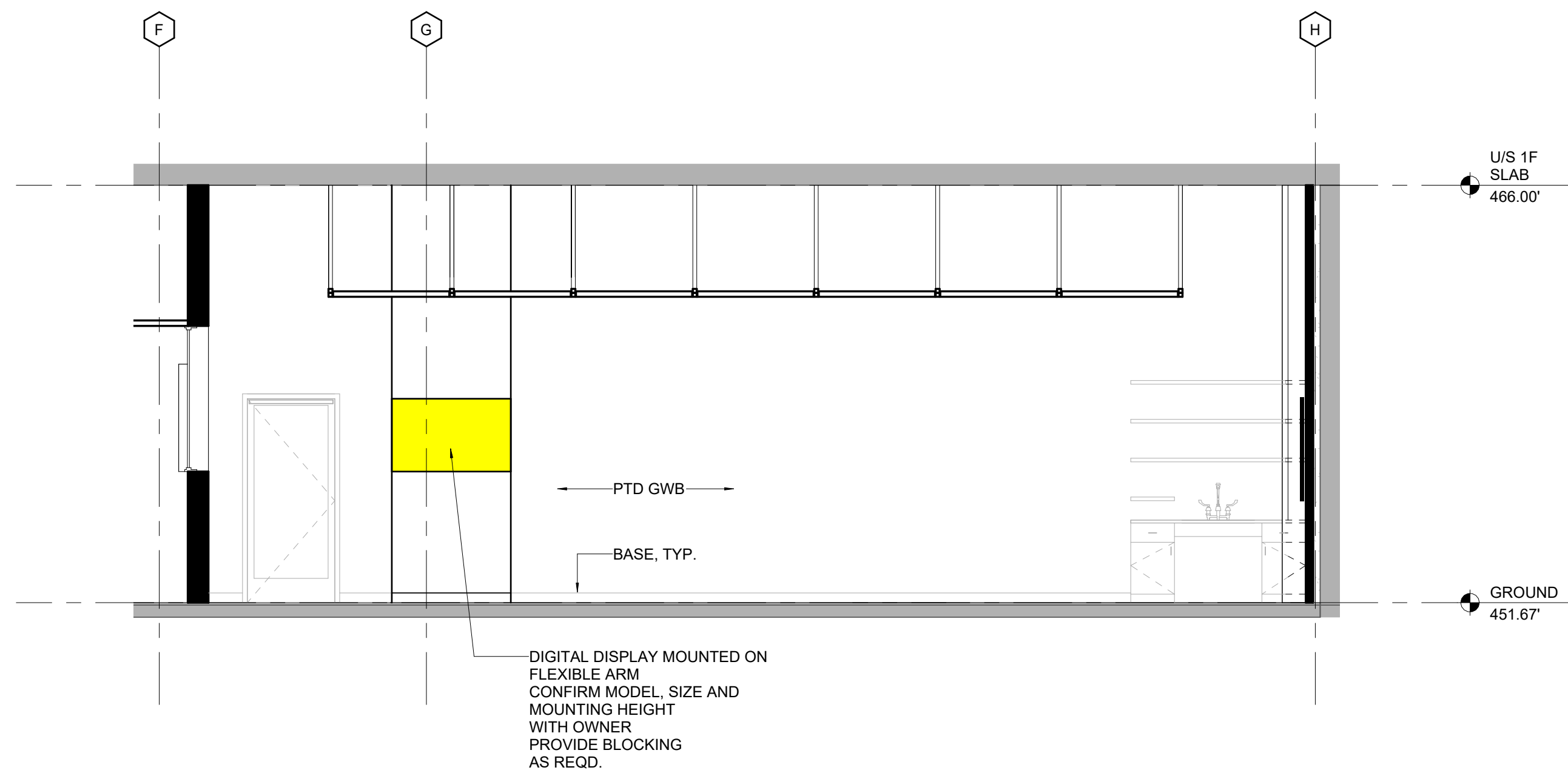
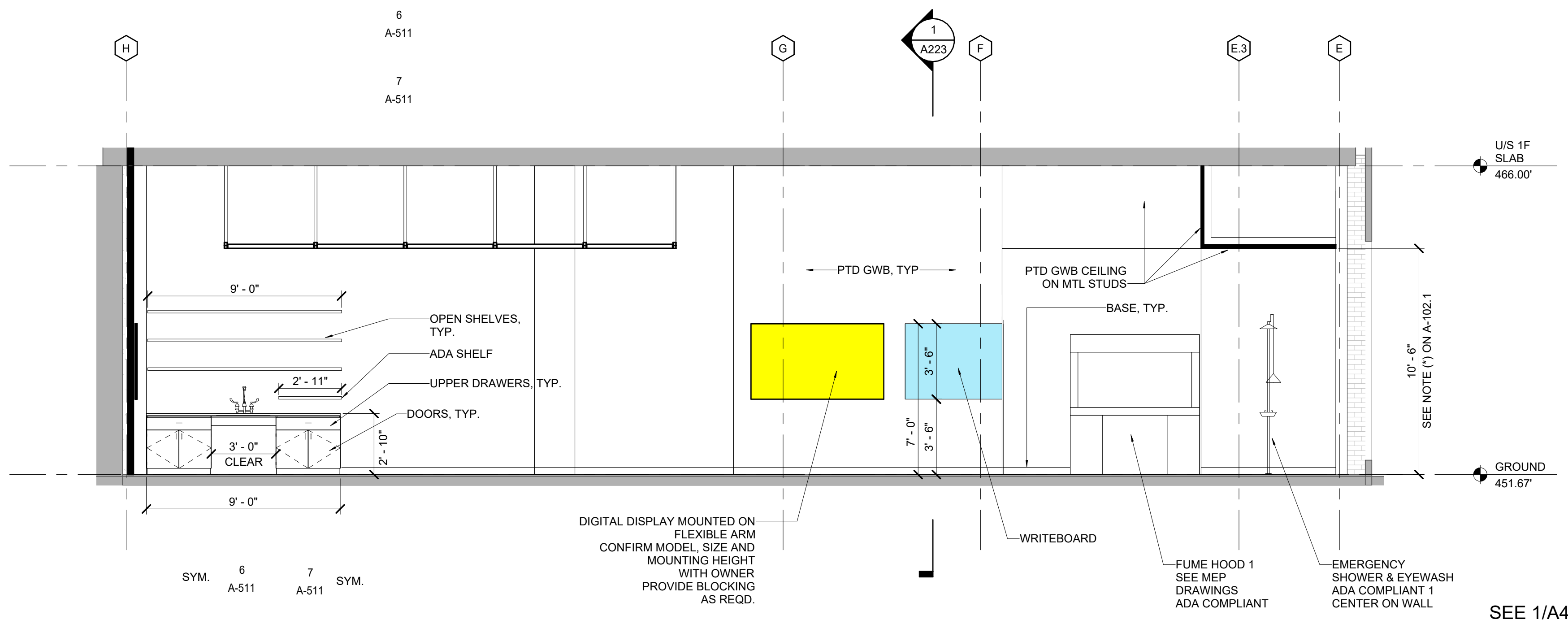
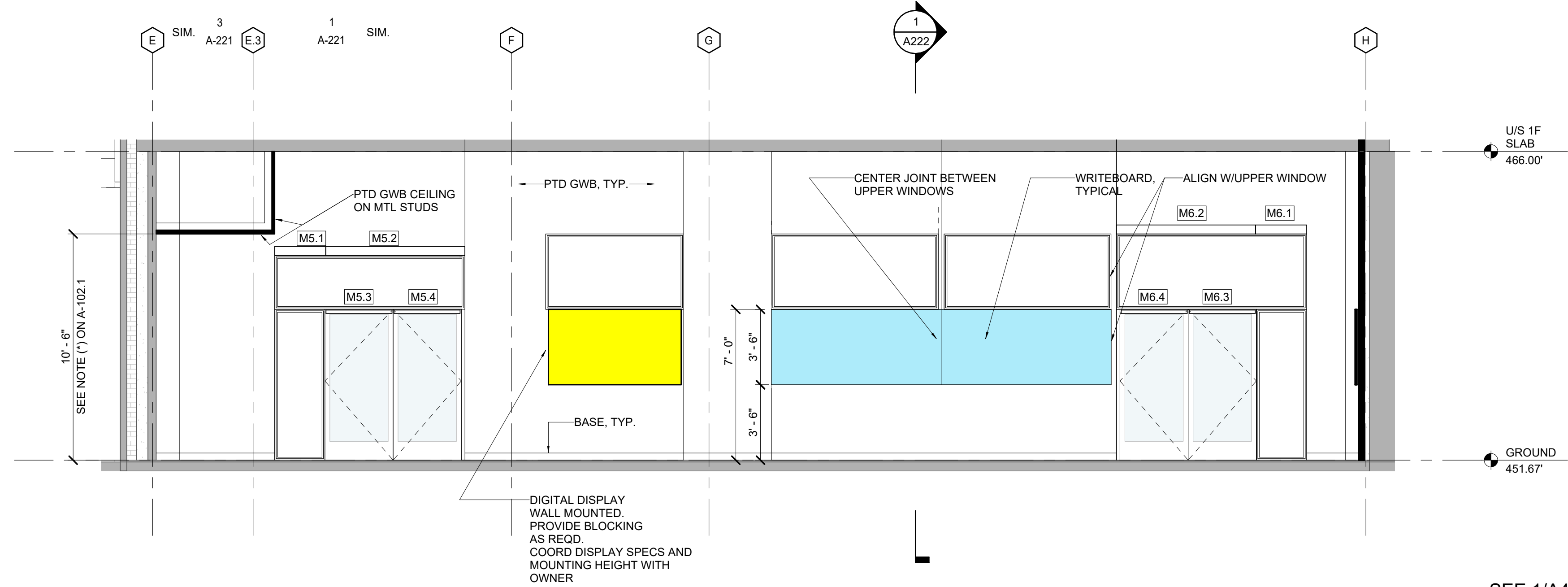
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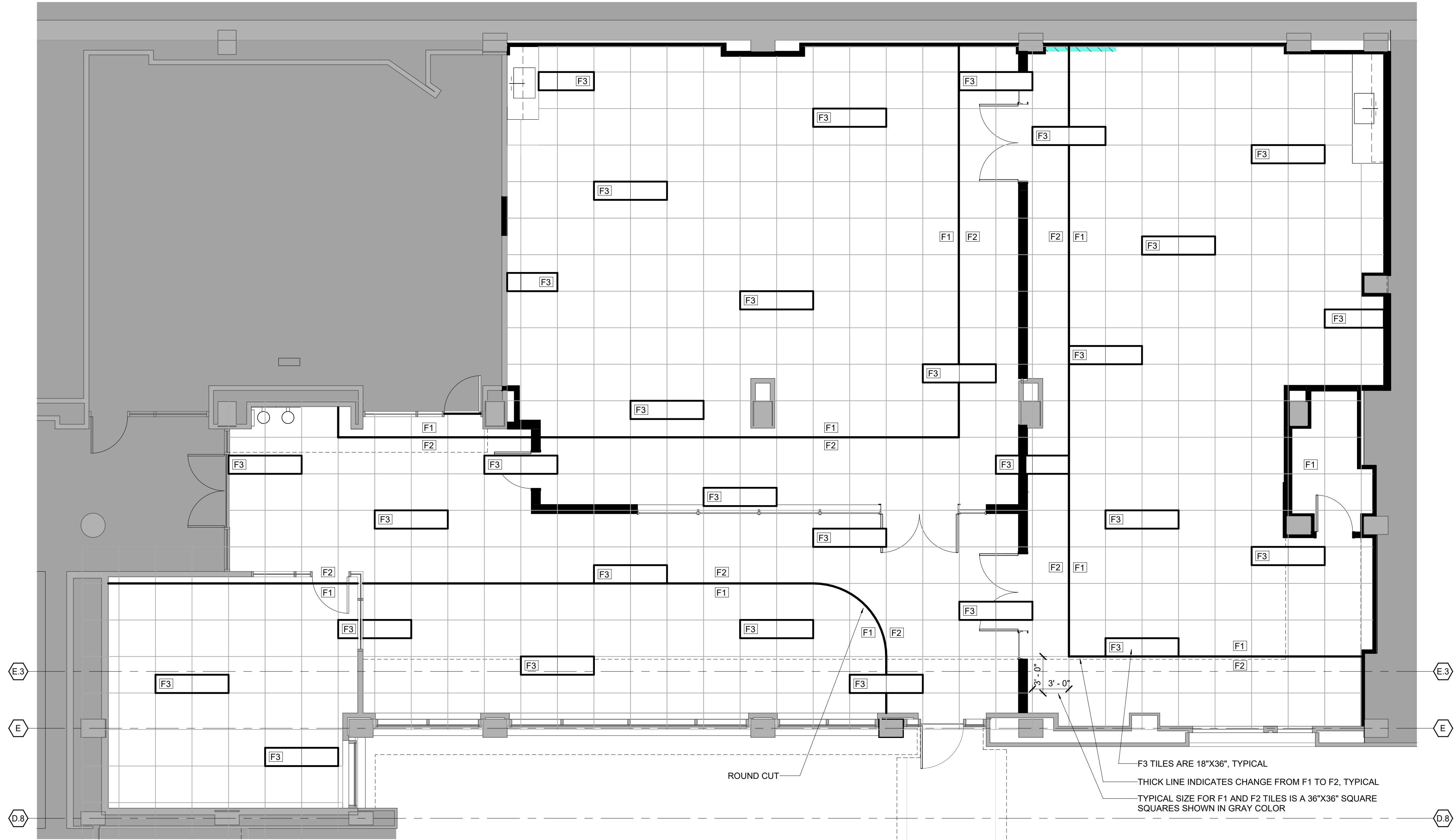
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A403

INTERIOR
ELEVATIONS 3



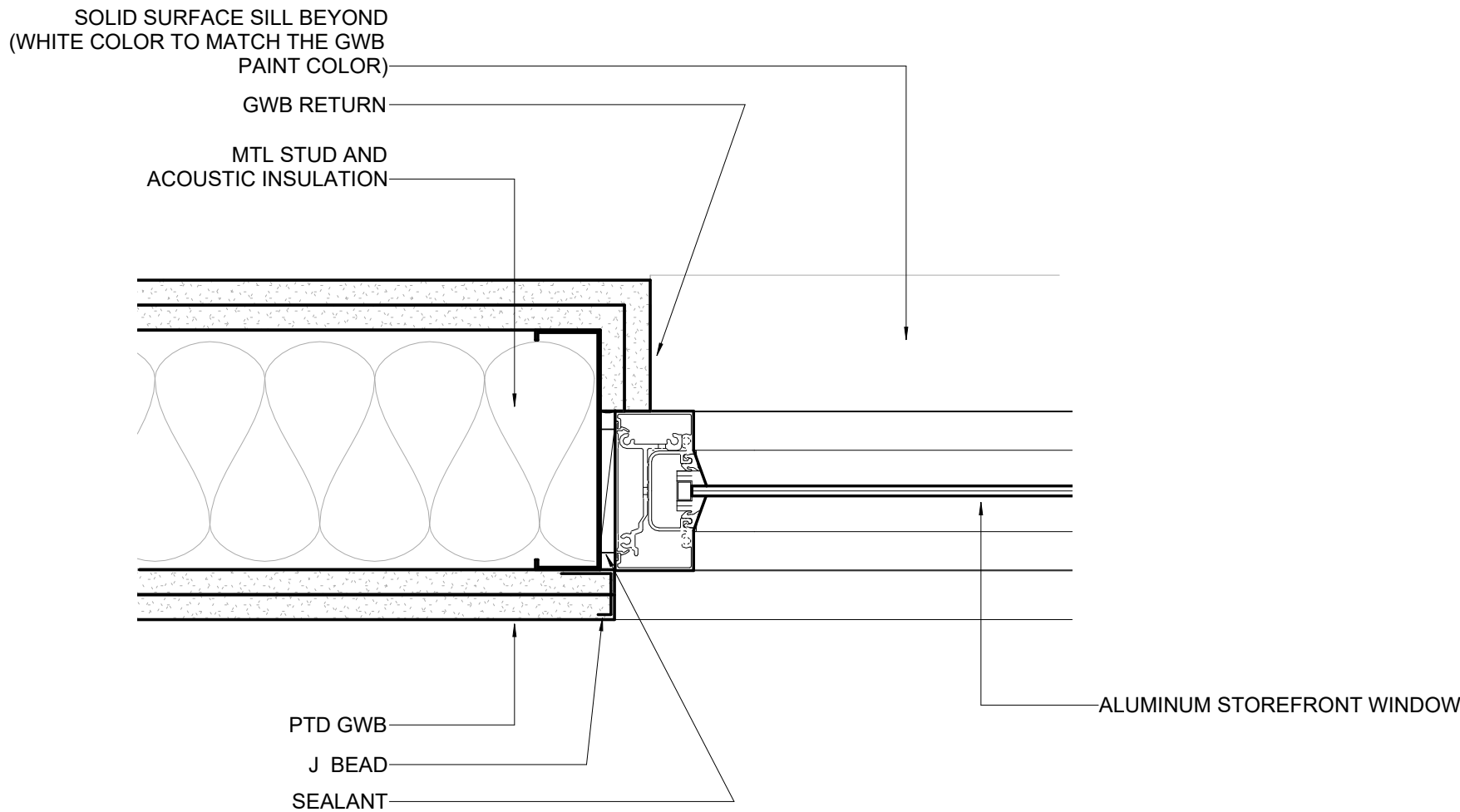


ALL JOINTS ARE WELDED AND SEAMLESS. SEE FLOORING SPECS

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

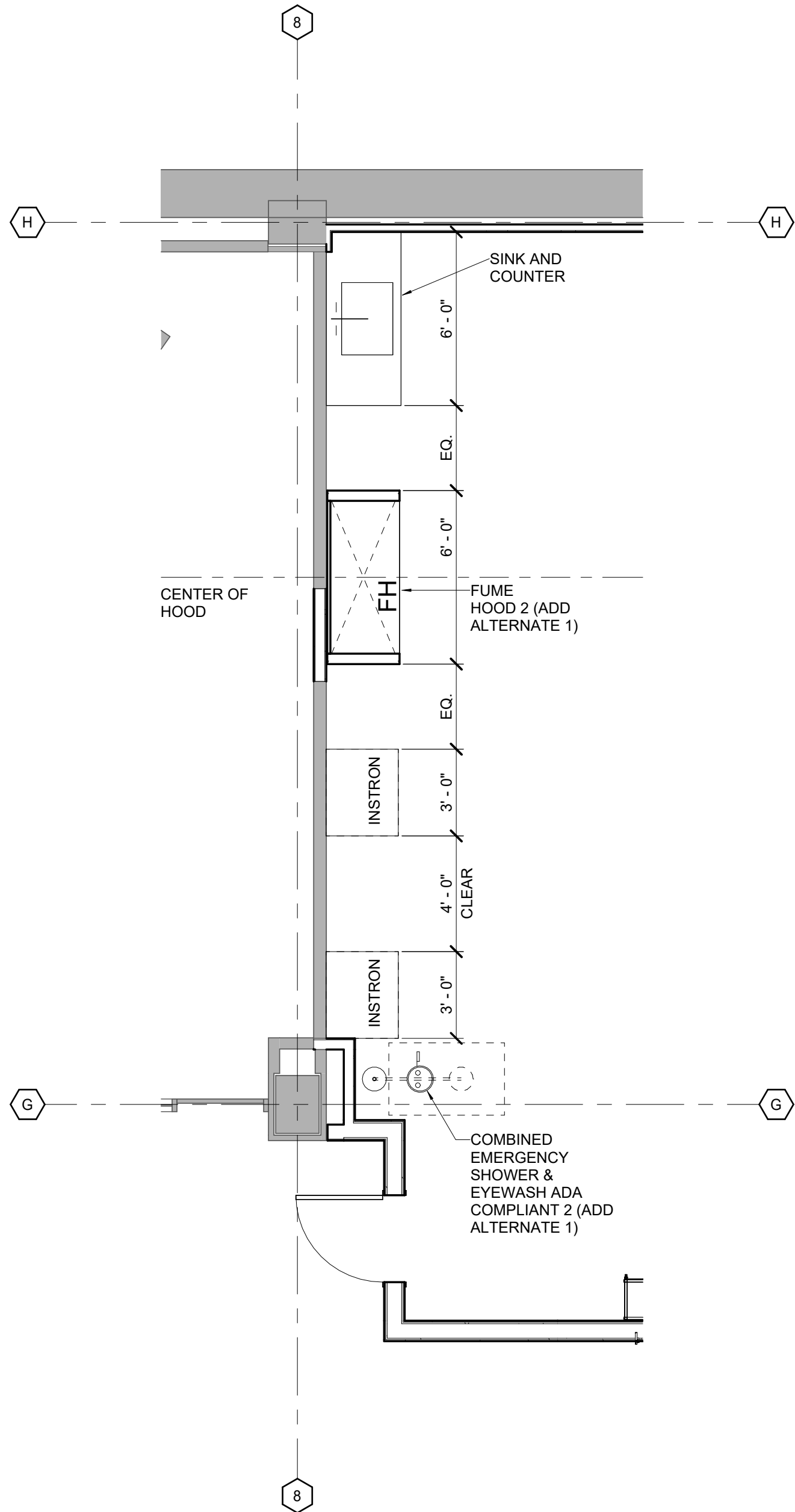
SEE A-601 AND A-102

3	FLOOR PATTERN
	3/16" = 1'-0"



0 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"



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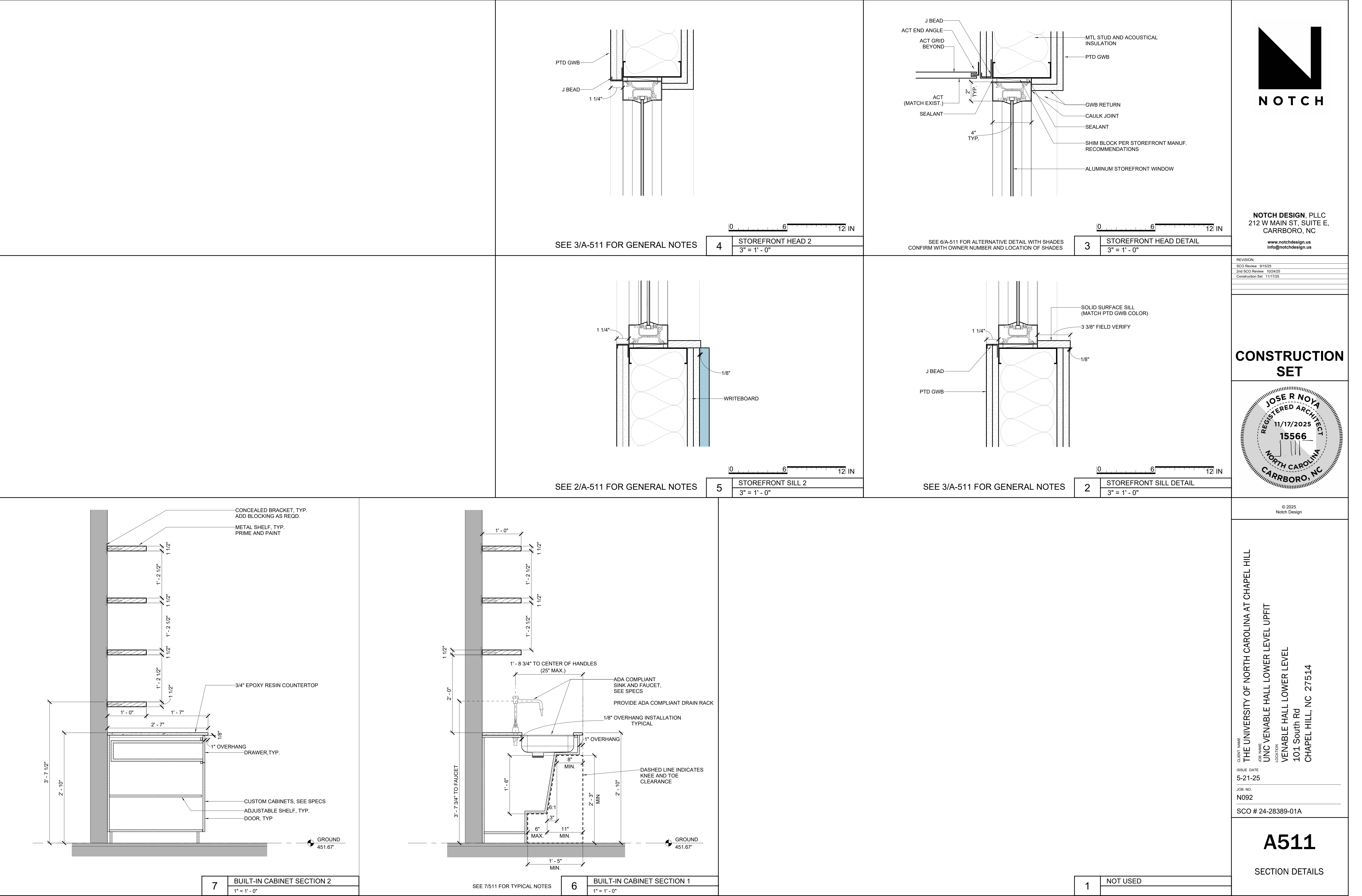
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A501

PLAN DETAILS



FINISH SCHEDULE

SPACE	FLOOR	BASE	WALLS MATERIAL/COMPONENT	FINISH	CEILING MATERIAL/COMPONENT	FINISH	REMARKS
G301 SOCIAL	F1, F2, F3 SEE 1/A102 & 3/A501	EXISTING AND B1	GWB	PT01	ACT AREA (WHERE PATCHING IS REQD.) GWB CEILING AREA	MATCH EXISTING ACT AS REQD. PT01	1
G301A OFFICE	F1, F3 SEE 1/A102 & 3/A501	EXISTING	GWB	PT01	ACT AREA (WHERE PATCHING IS REQD.) GWB CEILING AREA	MATCH EXISTING ACT AS REQD. PT01	
G301B TEACHING LAB	F1, F2, F3 SEE 1/A102 & 3/A501	B2	GWB	PT01	OPEN CEILING AND MEP/FP COMPONENTS STRUCTURAL GRID NEW ACT	PT02 (WHERE VISIBLE) PT02 REFER TO A-102.1 AND SPECS	2
G301C TEACHING LAB	F1, F2, F3 SEE 1/A102 & 3/A501	B2	GWB	PT01	OPEN CEILING AND MEP/FP COMPONENTS STRUCTURAL GRID NEW ACT GWB CEILING AREA	PT02 (WHERE VISIBLE) PT02 REFER TO A-102.1 AND SPECS PT01	2
G301D STORAGE	F1 SEE 1/A102 & 3/A501	B2	GWB	PT01	GWB CEILING AREA	PT01	

REMARKS

- WALL GRAPHICS TO BE INSTALLED BY OTHERS
- 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	5/A-602	SC WD DOOR, FLUSH SLAB, VERTICAL GRAIN, MATCH EXISTING DOORS	1,2,3,4,6

DOOR REMARKS:

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

DOOR HARDWARE

SEE PROJECT MANUAL SPEC SECTION 08 71 00 – DOOR HARDWARE

D001 - HARDWARE SET #3

D002 - HARDWARE SET #3

D003 - HARDWARE SET #3

D004 - HARDWARE SET #2

D005 - HARDWARE SET #1



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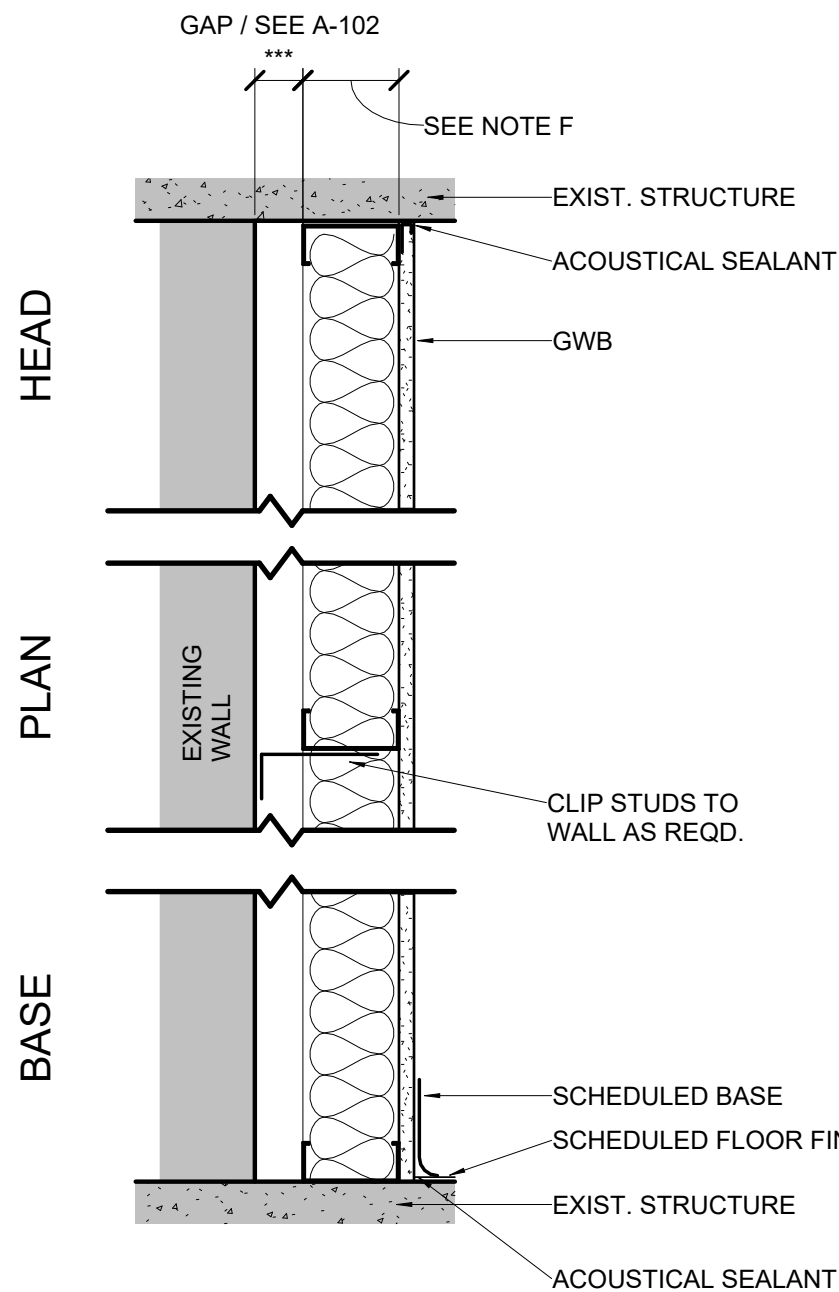
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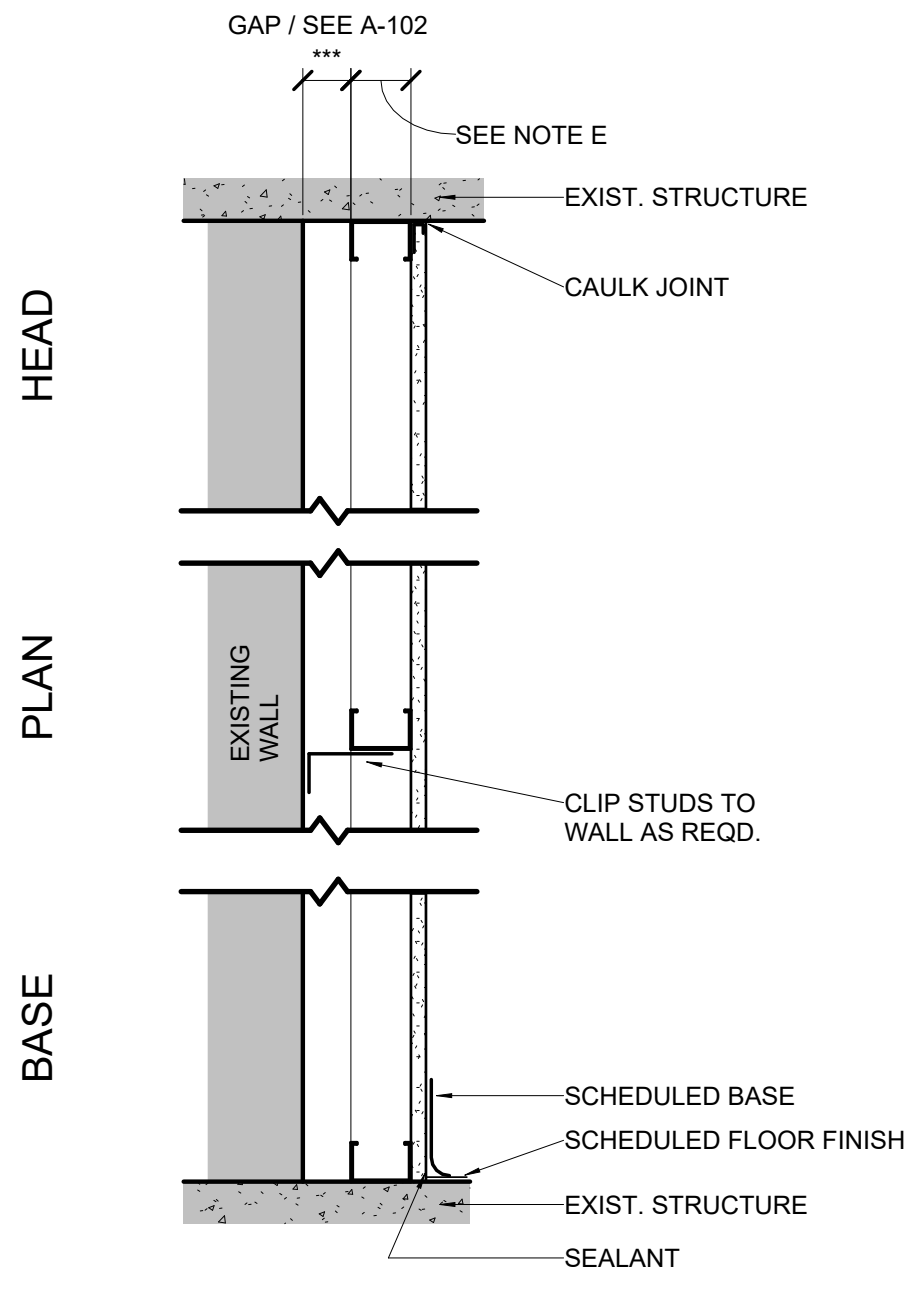


SEE W1 FOR TYPICAL NOTES
*** FOR SOME PARTITIONS, GAP= 0 INCHES
SEE A-102 FOR GAP DIMENSION

W7 NOTE F: 2 1/2" MTL STUD FURRING 16" O.C. / PER SPECS; WITH ACOUSTIC INSULATION

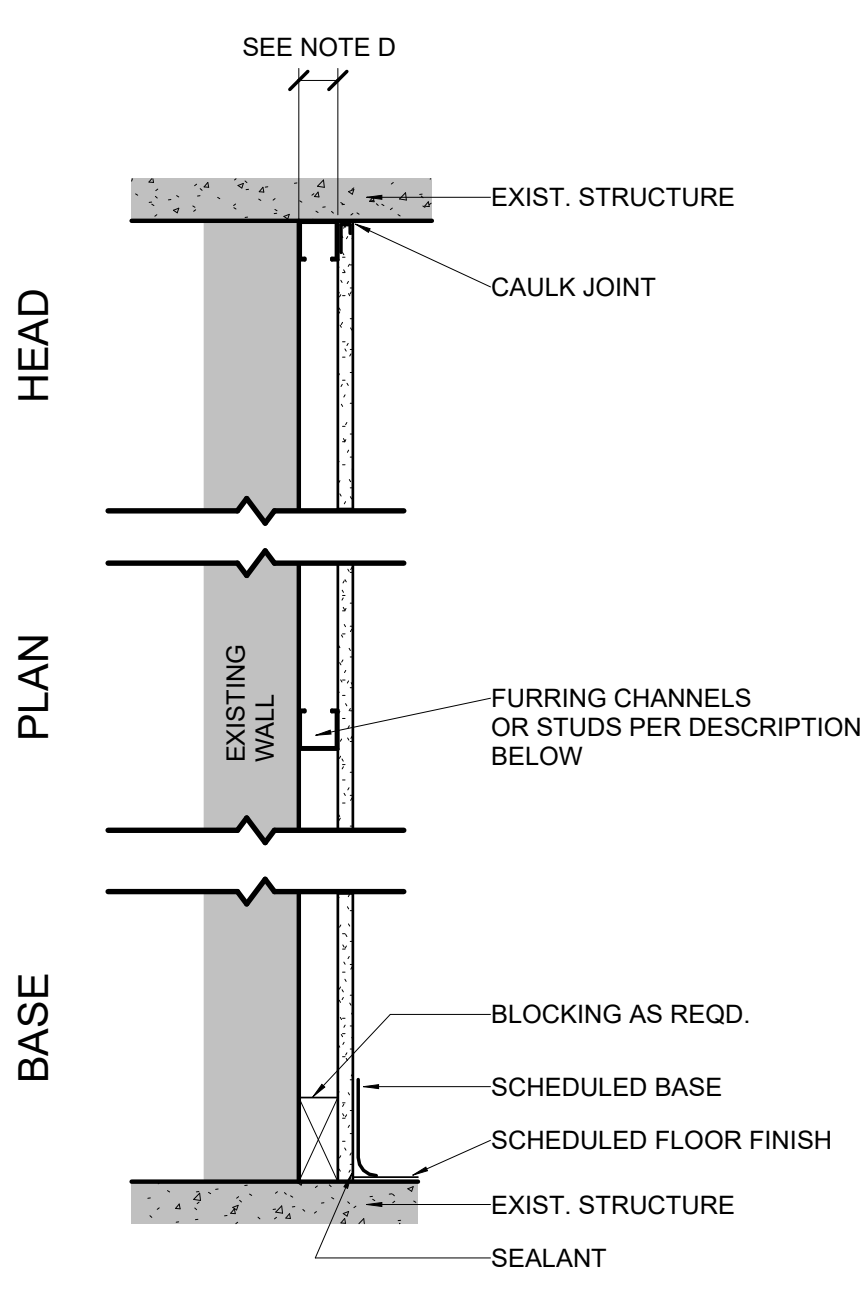
W8 NOTE F: 4" MTL STUD, 16" O.C. / PER SPECS; WITH ACOUSTIC INSULATION

W9 NOTE F: 6" MTL STUD, 16" O.C. / PER SPECS; WITH ACOUSTIC INSULATION

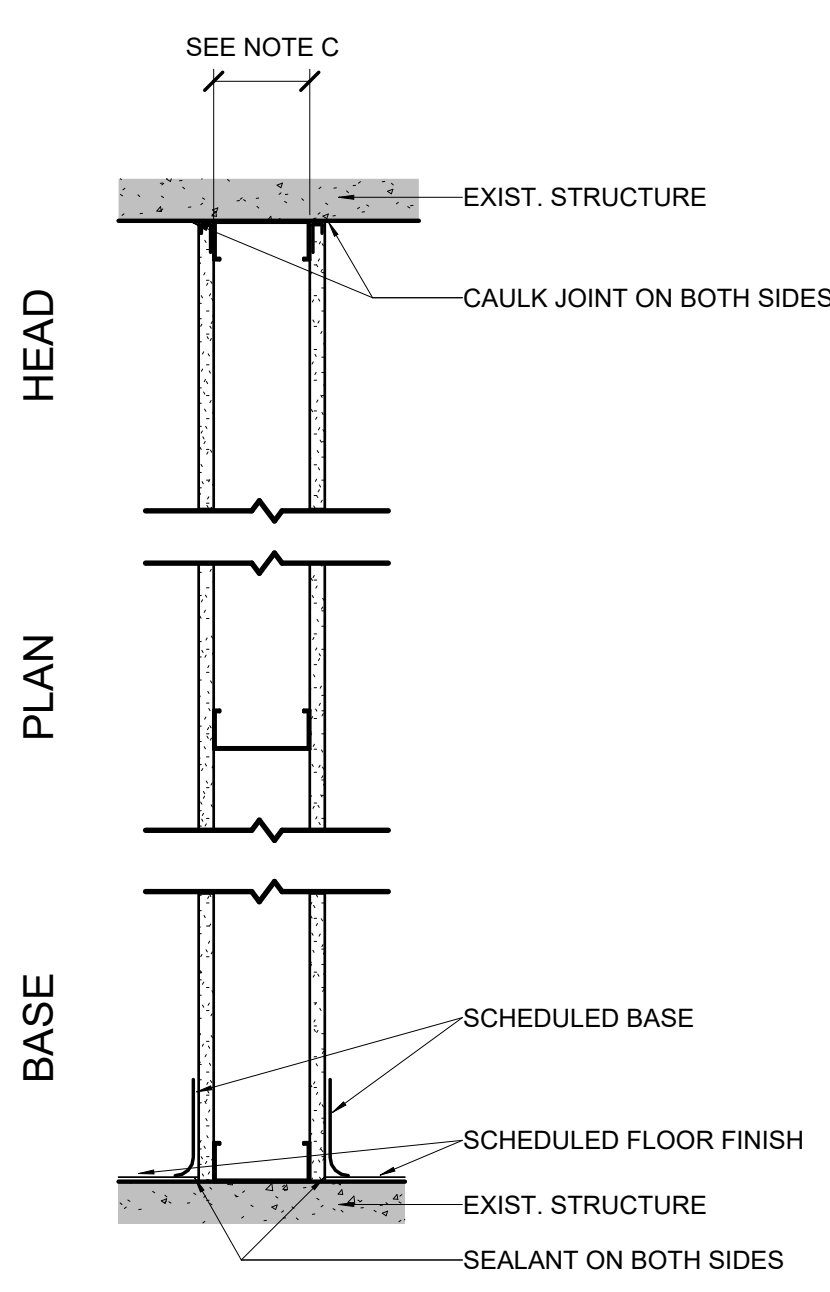


SEE W1 FOR TYPICAL NOTES
*** FOR SOME PARTITIONS, GAP= 0 INCHES
SEE A-102 FOR GAP DIMENSION

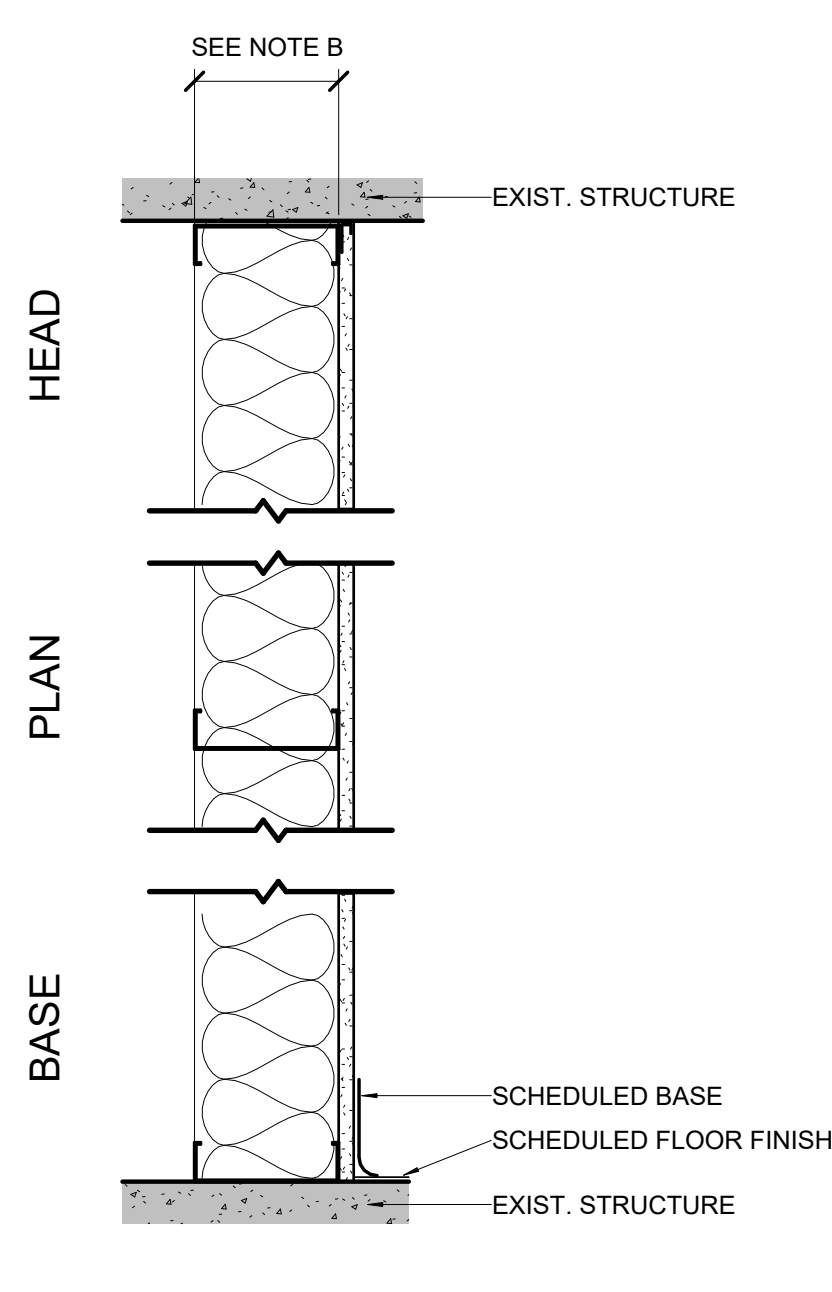
W6 NOTE E: 2 1/2" MTL STUD FURRING 16" O.C. / PER SPECS. NO ACOUSTICAL INSULATION



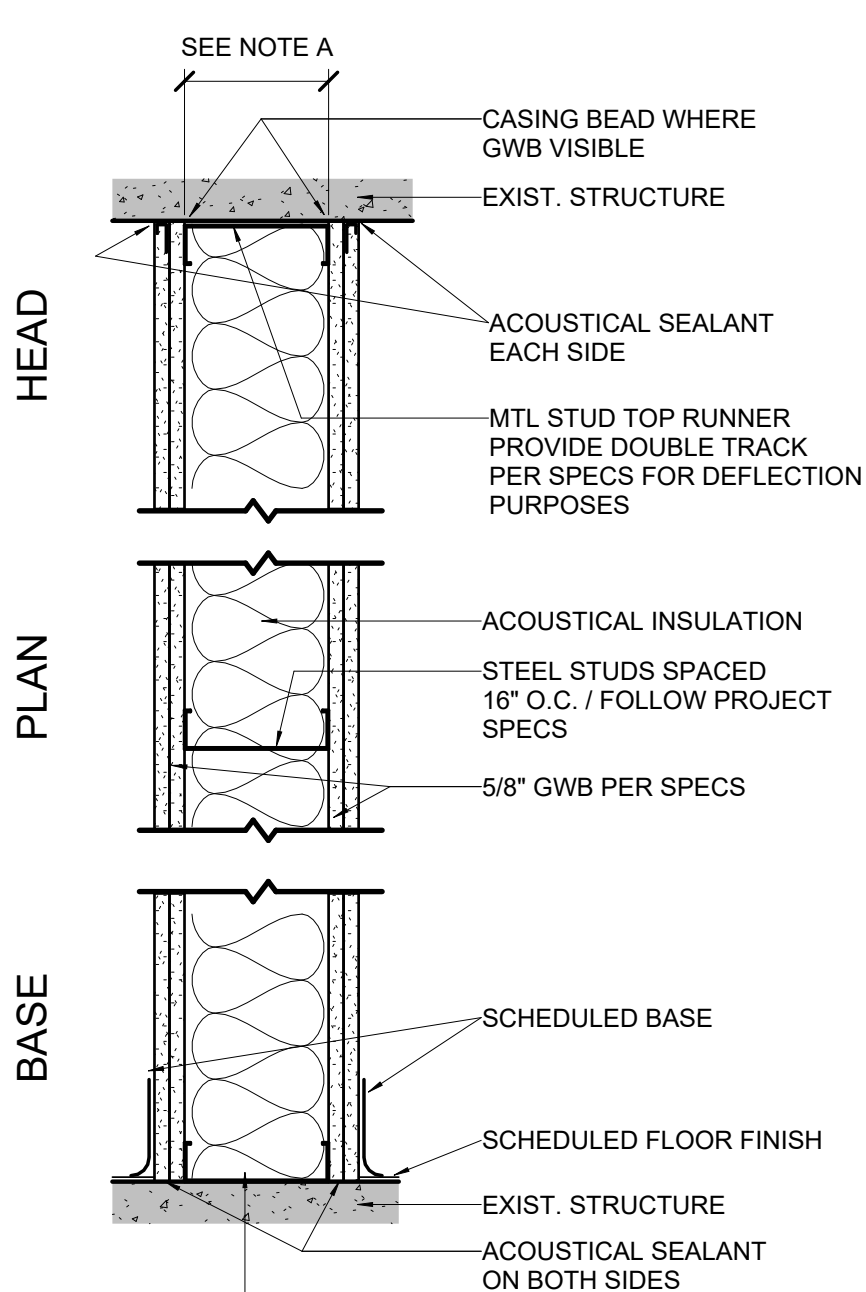
SEE W1 FOR TYPICAL NOTES
W5 NOTE D: 1 5/8" FURRING CHANNELS 16" O.C. / PER SPECS. NO ACOUSTICAL INSULATION



SEE W1 FOR TYPICAL NOTES
W4 NOTE C: 4" STUD, 16" O.C. / PER SPECS; WITH NO ACOUSTICAL INSULATION; GWB ON BOTH SIDES
W4B NOTE C: 6" STUD, 16" O.C. / PER SPECS; WITH NO ACOUSTICAL INSULATION; GWB ON BOTH SIDES



SEE W1 FOR TYPICAL NOTES
W2 NOTE B: 4" MTL STUD, 16" O.C. / PER SPECS; ACOUSTIC INSULATION; GWB ON ONE SIDE ONLY
W3 NOTE B: 6" MTL STUD, 16" O.C. / PER SPECS; WITH ACOUSTIC INSULATION; GWB ON ONE SIDE ONLY



W1 NOTE A: 6" MTL STUD, 16" O.C. / PER SPECS; WITH ACOUSTIC INSULATION. GWB ON BOTH SIDES

- STC 50-55 (MAX. FOR PRIVACY SPACES PER UNC STANDARDS)
- 25 GAUGE

2 INTERIOR WALL SCHEDULE

1 1/2" = 1' - 0"

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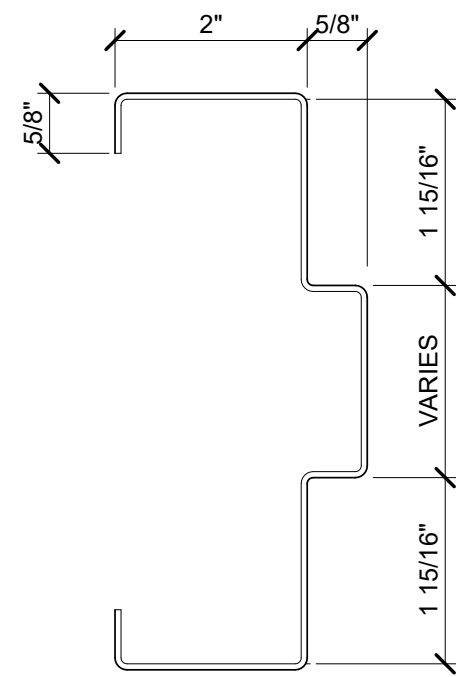
A601

SCHEDULES

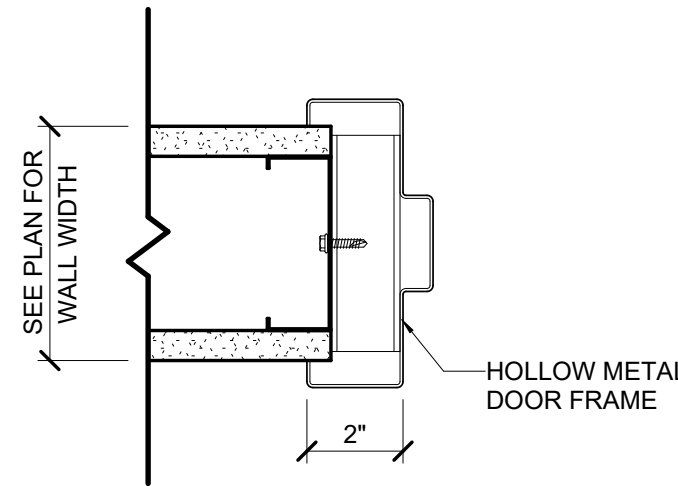
ROLLER SHADES SCHEDULE

TAG	DRAWINGS	DESCRIPTION	FINISH	DRAPERY 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)



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



5 HEAD/JAMB @ GWB PARTITION
3" = 1' - 0"



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REVISION:
SCD Review: 9/16/25
2nd SCD Review: 10/24/25
Construction Set: 11/17/25

CONSTRUCTION SET



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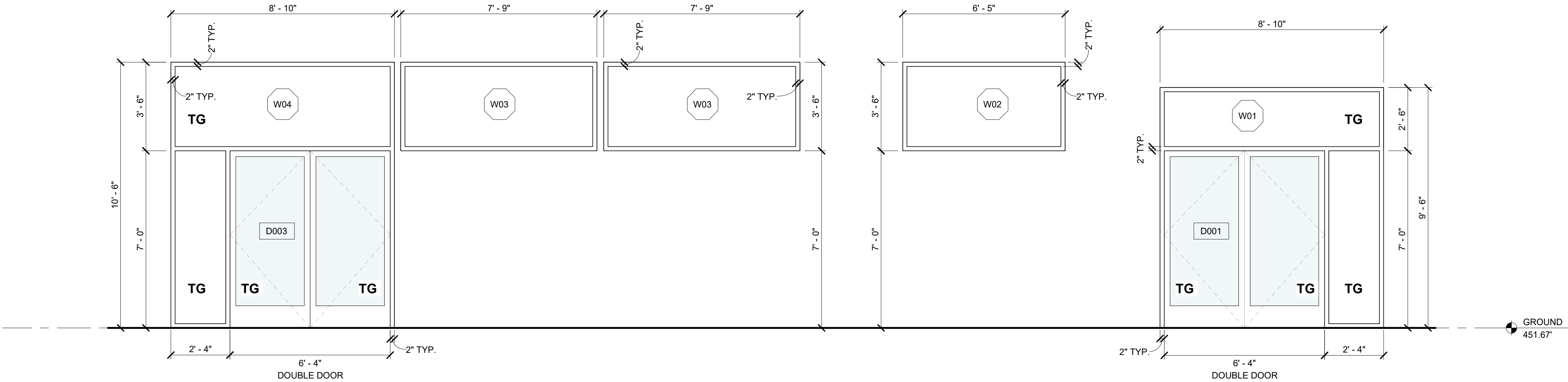
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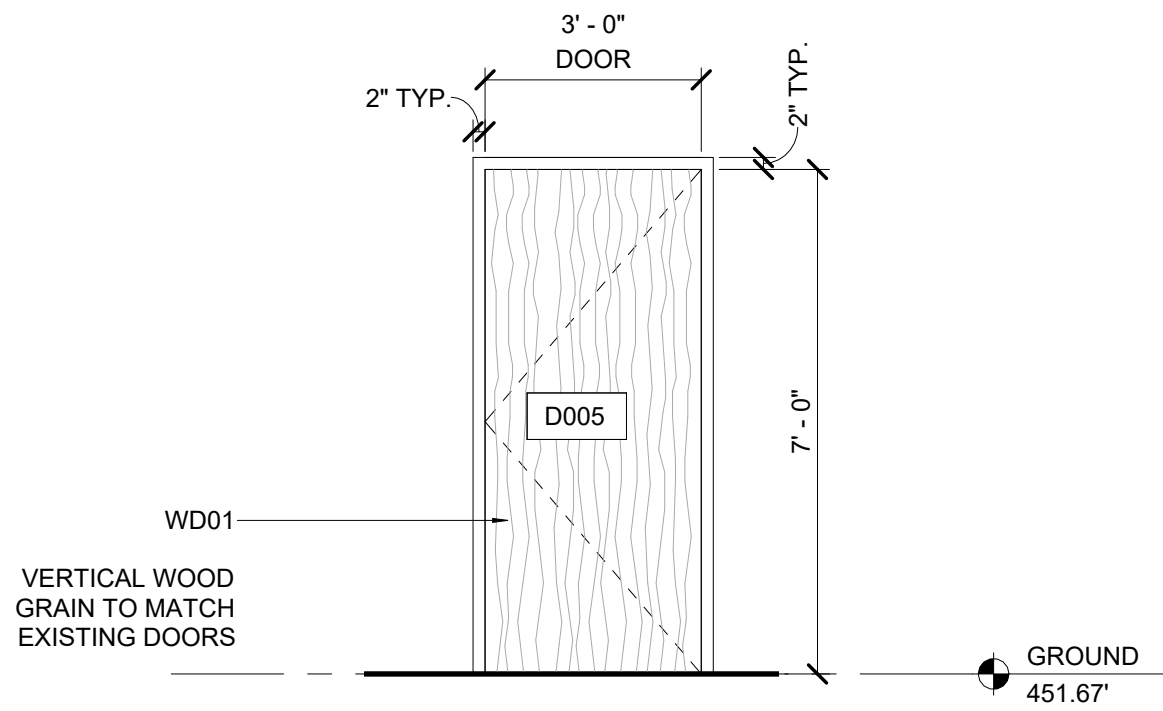
A602

INTERIOR
STOREFRONT AND
DOOR ELEVATIONS



SEE 1/A-602 FOR TYPICAL NOTES

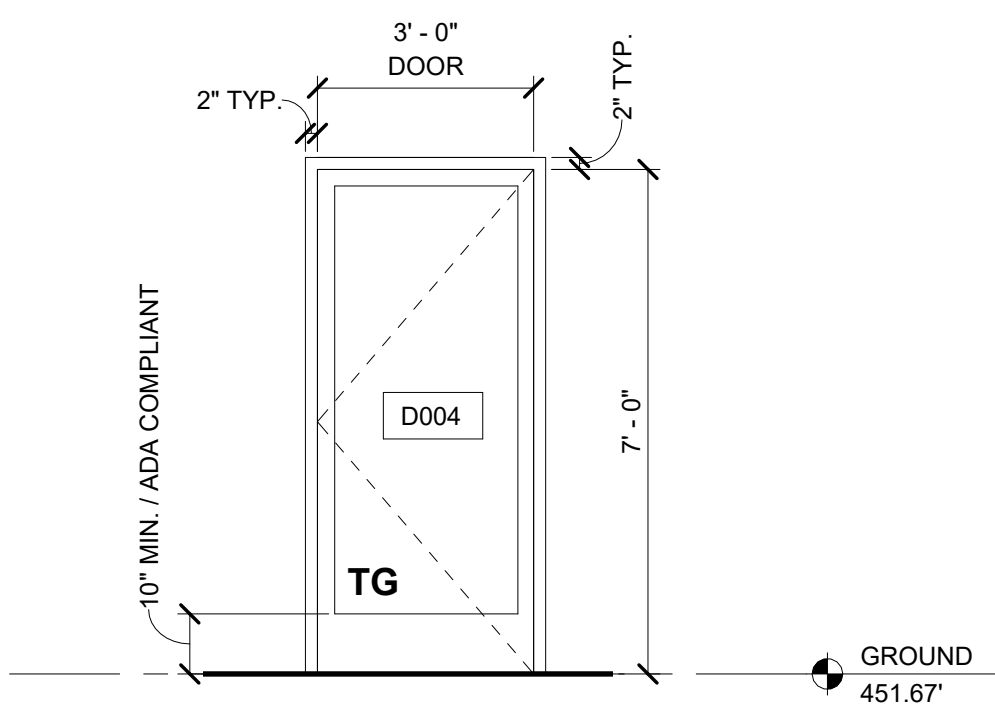
2 W01-W04, D001 & D003 ELEVATIONS
3/8" = 1' - 0"



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

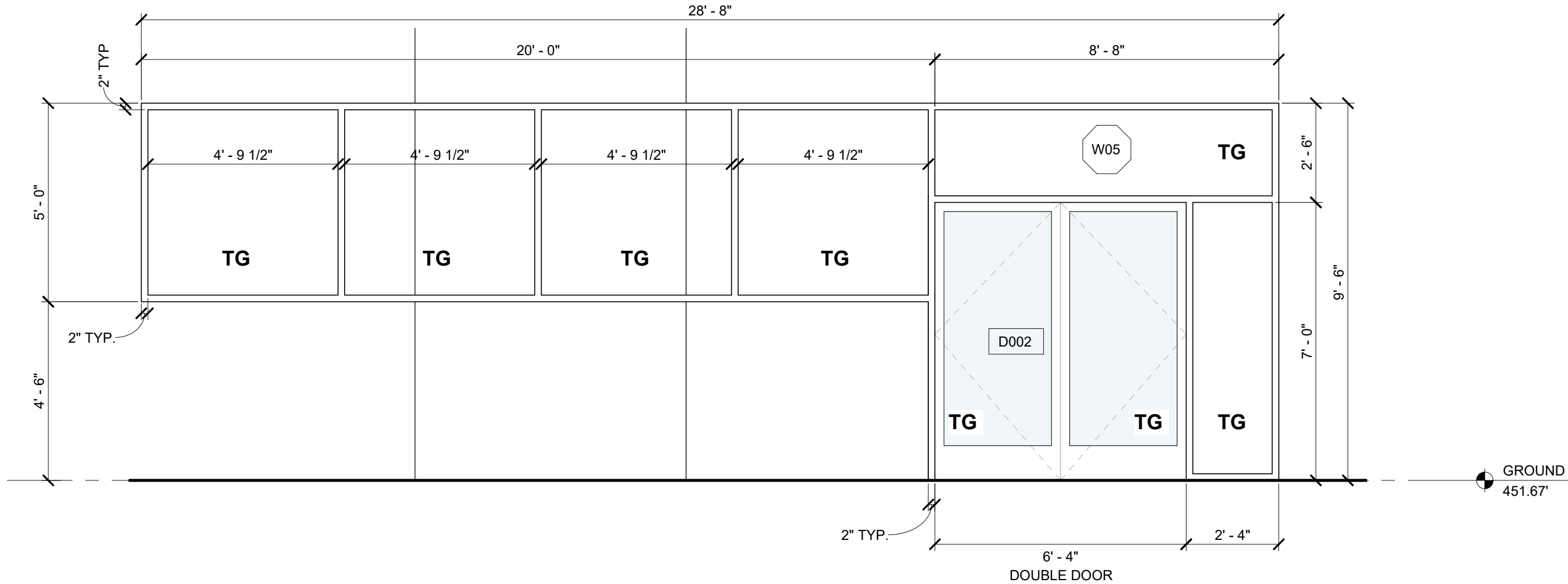
SEE 1/A-602 FOR TYPICAL NOTES

4 D005 ELEVATION
3/8" = 1' - 0"



SEE 1/A-602 FOR TYPICAL NOTES

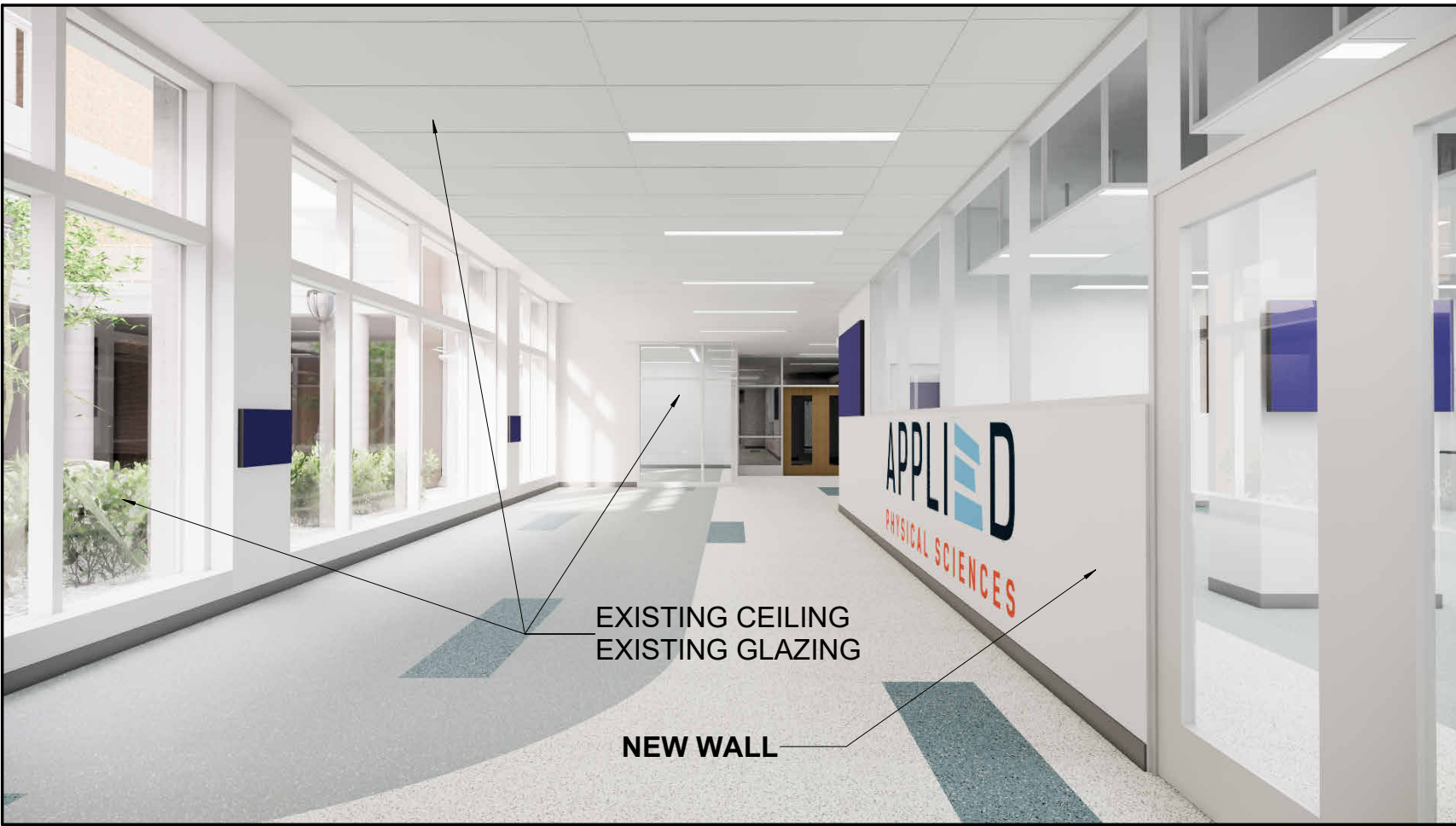
3 D004 ELEVATION
3/8" = 1' - 0"



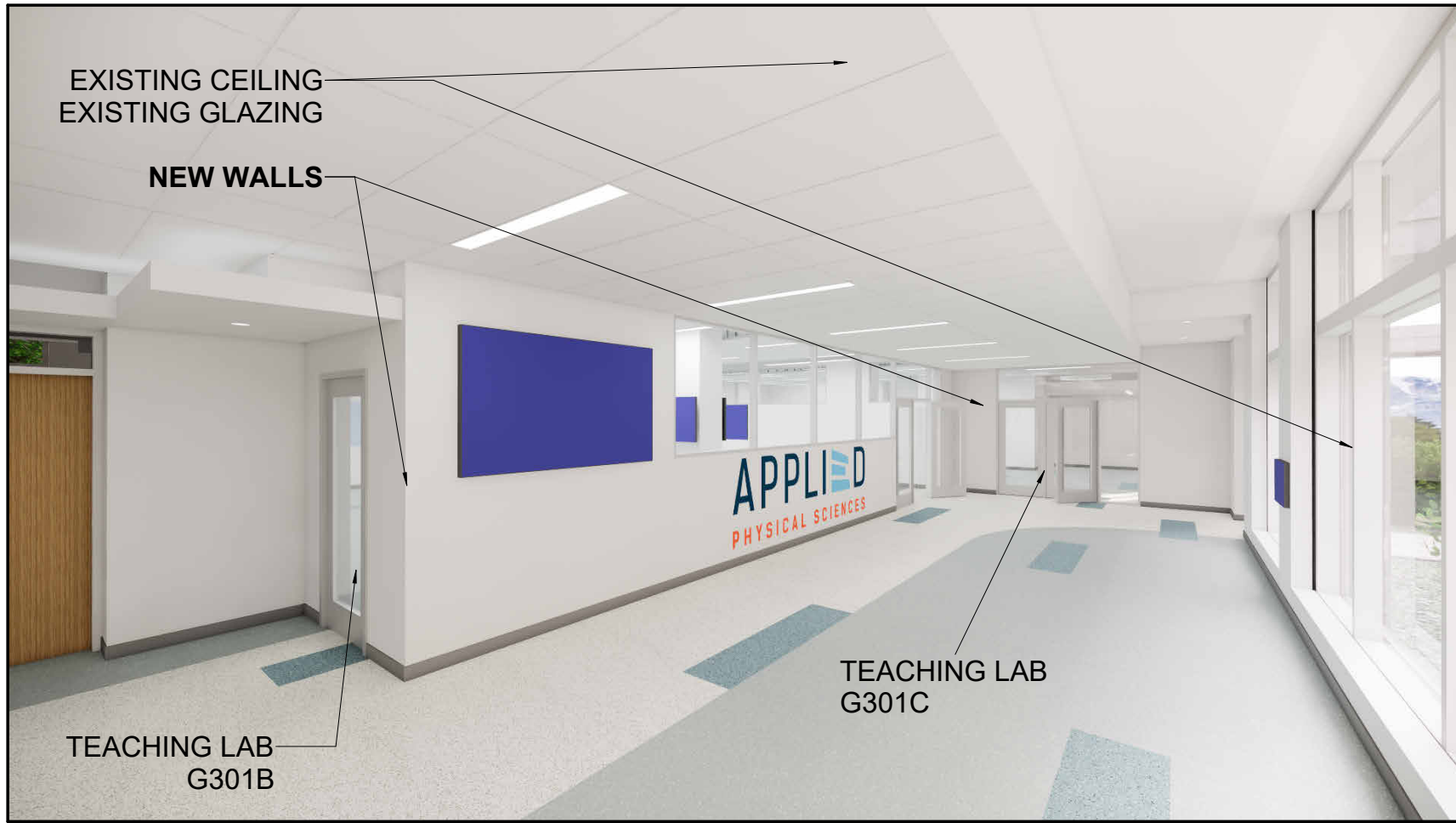
SEE A-601/ DOOR SCHEDULE AND DOOR HARDWARE

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

TG = TEMPERED GLASS



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



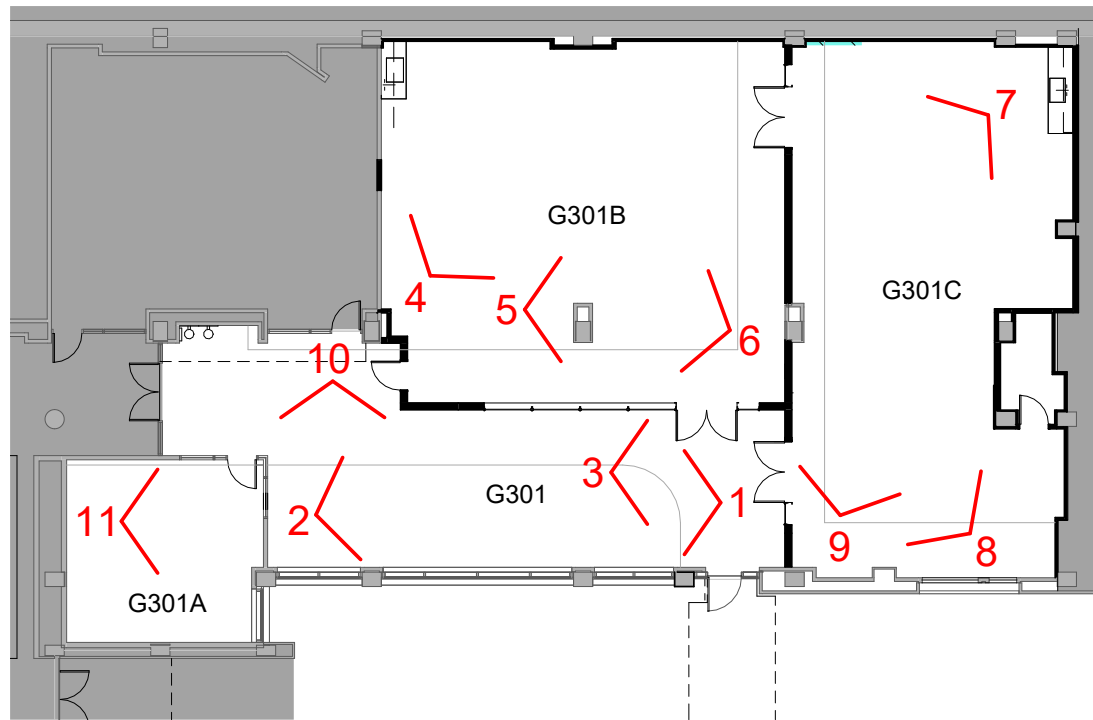
9. TEACHING LAB G301C LOOKING EAST



10. TEACHING LAB G301B, LOOKING EAST TOWARD TEACHING STATION



11. OFFICE G301A, LOOKING SOUTH



3D VIEWS
KEY PLAN



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A700

3D VIEWS

2018 APPENDIX B	
NC MECHANICAL SUMMARY	
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
CLIMATE ZONE	4A
THERMAL 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	
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	
<ul style="list-style-type: none">2018 NORTH CAROLINA MECHANICAL CODE	<ul style="list-style-type: none">ASHRAE STANDARDS:<ul style="list-style-type: none">15-2022, "SAFETY STANDARD FOR REFRIGERATION SYSTEMS"62-2022, "VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY"90.1-2022, "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	ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT	HX	HEAT EXCHANGER
ADJ	ADJUSTABLE OR ADJUSTMENT	IND	INDUCTION UNIT
AI	ANALOG IN	IWC	INCHES WATER COLUMN
AO	ANALOG OUT	JB	JUNCTION BOX
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
AFG	ABOVE FINISHED GRADE	LPC	LOW PRESSURE CONDENSATE
AHU	AIR HANDLING UNIT	LPS	LOW PRESSURE STEAM
APD	AIRSIDE PRESSURE DROP	LWT	LEAVING WATER TEMPERATURE
BFF	BELOW FINISHED FLOOR	MAV	MANUAL AIR VENT
BLDG	BUILDING	MC	MECHANICAL CONTRACTOR
BMP	BOILER MANAGEMENT PANEL	MPC	MEDIUM PRESSURE CONDENSATE
CFM	CUBIC FEET PER MINUTE	MPS	MEDIUM PRESSURE STEAM
CMD	COMMAND	MTD	MONTH TO DATE
COND	CONDENSATE DRAINAGE	N/A	NOT AVAILABLE / NOT APPLICABLE
CV	CONSTANT VOLUME	NC	NORMALLY CLOSED
CVMU	COLD WATER MAKEUP UNIT	NIC	NOT IN CONTRACT
CHWR	CHILLED WATER RETURN	NO	NORMALLY OPEN
CHWS	CHILLED WATER SUPPLY	NTS	NOT TO SCALE
CWS	CONDENSER WATER SUPPLY	OCC	OCCUPANT OR OCCUPANCY
CWR	CONDENSER WATER RETURN	OA	OUTSIDE AIR
DI	DIGITAL IN	PC	PLUMBING CONTRACTOR
DO	DIGITAL OUT	PSI	POUNDS PER SQUARE INCH
DN	DOWN	RA	RETURN AIR
EA	EXHAUST AIR	RAG-X	RETURN AIR GRILLE - TYPE
EAG-X	EXHAUST AIR GRILLE - TYPE	RTU	ROOF TOP UNIT
EAT	ENTERING AIR TEMPERATURE	SA	SUPPLY AIR
EC	ELECTRICAL CONTRACTOR	SAD-X	SUPPLY AIR DIFFUSER - TYPE
ESP	EXTERNAL STATIC PRESSURE	SC	SAFETY CIRCUIT
ETR	EXISTING TO REMAIN	S/S	START/STOP
EWI	ENTERING WATER TEMPERATURE	STM COND	STEAM CONDENSATE RETURN
EX	EXISTING	TAB	TEST AND BALANCE
FACP	FIRE ALARM CONTROL PANEL	TEMP	TEMPERATURE
FCU	FAN COIL UNIT	TSP	TOTAL STATIC PRESSURE
FPM	FEET PER MINUTE	UH	UNIT HEATER
GC	GENERAL CONTRACTOR	VEL	VELOCITY
GPM	GALLONS PER MINUTE	VAV	VARIABLE AIR VOLUME
HWS	HEATING HOT WATER SUPPLY	VP	VIRTUAL POINT
HWR	HEATING HOT WATER RETURN	WPD	WATERSIDE PRESSURE DROP
HP	HORSEPOWER	XFMR	TRANSFORMER
HPC	HIGH PRESSURE CONDENSATE		
HPS	HIGH PRESSURE STEAM		

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
	SPACE RELATIVE HUMIDITY TRANSMITTER
	SPACE TEMPERATURE TRANSMITTER
	TIME SWITCH
	DUCT TEMPERATURE TRANSMITTER
	VARIABLE FREQUENCY DRIVE
	VELOCITY PRESSURE TRANSMITTER
	WATER DETECTION SWITCH

EQUIPMENT LEGEND	
	VAV BOX
	FAN POWERED VAV BOX
	HYDRONIC COIL
	PRESSURE GAUGE
	THERMOMETER

DRAWING SYMBOLS	
	EQUIPMENT TAG
	DEMOLITION KEYED NOTE
	NEW WORK KEYED NOTE
	DETAIL NUMBER
	DRAWING NUMBER
	SECTION LETTER
	DRAWING NUMBER

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)
	MOTORIZED AIR DAMPER (ELECTRIC)
	VERTICAL FIRE DAMPER (WITH ACCESS DOOR AND SLEEVE)
	HORIZONTAL FIRE DAMPER (WITH ACCESS DOOR AND SLEEVE)
	COMBINATION FIRE SMOKE DAMPER (PNEUMATIC)
	COMBINATION FIRE SMOKE DAMPER (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
	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
	GLOBE 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

GENERAL NOTES

- THE DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES. THE SCALE, WHEN INDICATED IS INTENDED FOR GENERAL REFERENCE ONLY.
- THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE PROJECT PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS WITH THE ENGINEER.
- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL CODES. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. ANY EQUIPMENT OR MATERIAL DEVIATIONS FROM THAT SPECIFIED OR DETAILED ON THIS DRAWING SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER. ALL PROPOSED EQUIPMENT DEVIATIONS SUBMITTED SHALL BE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED.
- DESIGN IS BASED ON THE MANUFACTURER AND MODEL SCHEDULED OR THE FIRST MANUFACTURER LISTED IN THE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL BEAR ANY AND ALL COSTS FOR ALTERING ANY OTHER CONTRACT OR SUB-CONTRACT RESULTING FROM THE USE OF ANY MANUFACTURER OR MODEL OTHER THAN THE DESIGN BASIS INCLUDING LISTED EQUALS.
- PRIOR TO CONSTRUCTION, FABRICATING DUCTWORK, ORDERING EQUIPMENT, ETC., THE CONTRACTOR SHALL FIELD VERIFY SPACE LIMITATIONS AT THE JOB SITE AND COORDINATE WITH OTHER TRADES.
- ALL MATERIALS, EQUIPMENT AND PRODUCTS INCORPORATED IN THE WORK UNDER THE CONTRACT SHALL BE NEW, OF A SUITABLE GRADE FOR THE PURPOSES INTENDED, AND TO THE EXTENT POSSIBLE, STANDARD PRODUCTS OF THE VARIOUS MANUFACTURERS EXCEPT WHERE SPECIAL CONSTRUCTION OR PERFORMANCE FEATURES ARE CALLED FOR. THEY SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY THEIR ACTIONS. SUCH DAMAGE SHALL BE RETURNED TO ORIGINAL NORMAL WORKING CONDITION, SUBJECT TO ACCEPTANCE OF THE OWNER AND ENGINEER, WITHOUT EXTRA COST TO THE OWNER.
- THE MECHANICAL CONTRACTOR SHALL KEEP THEIR WORK SITE AND ALL ACCESS POINTS OF THE BUILDING FREE OF RUBBISH AND WASTE MATERIAL. ALL ROOF OPENINGS IN THE BUILDING REQUIRED FOR THE MECHANICAL CONTRACT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. ALL FRAMING AROUND OPENINGS SHALL BE BY THE GENERAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE SIZE OF OPENINGS AND LOCATION OF OPENINGS WITH THE GENERAL CONTRACTOR. ALL ROOF CURBS AND ROOF SUPPORT RAILS FOR MECHANICAL EQUIPMENT INSTALLED ON THE ROOF SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
- ALL OPENINGS IN WALLS AS REQUIRED BY THE MECHANICAL SYSTEM IN THE BUILDING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH THE GENERAL CONTRACTOR AT THE JOB SITE IN A TIMELY MANNER.
- REFER TO ARCHITECTURAL DRAWINGS, AS AVAILABLE, FOR LOCATIONS OF ALL RATED WALL AND FLOOR ASSEMBLIES. PROVIDE FIRE DAMPERS AND/OR U.L. LISTED ASSEMBLIES AND/OR SEALANTS PER DRAWINGS, SPECIFICATIONS, AND APPLICABLE CODES AT ALL PENETRATIONS.
- THE MECHANICAL CONTRACTOR SHALL FURNISH ACCESS DOORS FOR ALL GYPSUM BOARD CEILINGS AT VOLUME DAMPERS, EQUIPMENT, MOTOR OPERATED DAMPERS, FIRE DAMPERS, BALANCING DEVICES OR OTHER ITEMS REQUIRING BALANCING OR SERVICE. ACCESS DOORS SHALL BE INSTALLED BY THE GENERAL CONTRACTOR. SEE PLANS AND GENERAL CONSTRUCTION SPECIFICATIONS FOR ACCESS DOOR REQUIREMENTS.
- MECHANICAL CONTRACTOR SHALL PROVIDE 6" HIGH HOUSEKEEPING PADS UNDER MAJOR MECHANICAL EQUIPMENT (I.E. CHILLERS) AND 4" HIGH HOUSEKEEPING PADS UNDER ALL OTHER FLOOR MOUNTED EQUIPMENT UNLESS NOTED OTHERWISE. PADS SHALL EXTEND BEYOND EQUIPMENT BY THE SAME DIMENSION AS THE HEIGHT OF THE PAD, UNLESS NOTED OTHERWISE.
- ALL PIPING AND DUCTWORK (EXCEPT IN MECHANICAL ROOMS, BOILER ROOM, ETC.) SHALL BE CONCEALED UNLESS OTHERWISE SHOWN OR NOTED.
- DO NOT INSTALL PIPING OR DUCTWORK OVER ANY ELECTRICAL SWITCHGEAR; SEE MECHANICAL DETAIL SHEETS(S).
- MC SHALL BLANK OFF UNUSED PORTIONS OF LOUVERS WITH DOUBLE WALL INSULATED PANELS.
- REFER TO SPECIFICATIONS FOR EQUIPMENT STARTUP PROCEDURES AND REQUIREMENTS.
- DUCTWORK:
 - DUCT SIZES SHOWN ON PLANS ARE FREE AREA DIMENSIONS. CONTRACTOR SHALL INCREASE SIZES AS NECESSARY TO ACCOMMODATE LINING, IF SPECIFIED.
 - BEFORE FABRICATING OR INSTALLING DUCTWORK, COORDINATE DUCT LOCATIONS WITH THE ELECTRICAL CONTRACTOR'S PANELS, CONDUIT AND RECESSED LIGHT FIXTURES, PLUMBING PIPING, AND ALL STRUCTURAL MEMBERS. THESE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT SHOP DRAWINGS. ALL OFFSETS AND TRANSITIONS REQUIRED FOR THIS PROJECT MAY NOT BE SHOWN ON THESE DRAWINGS; HOWEVER, THEY SHALL BE PROVIDED WITHOUT CHANGE TO THE BID CONTRACTS.
 - BEFORE FABRICATING OR INSTALLING DUCTWORK, COORDINATE FINAL LOCATION OF CEILING GRILLES, REGISTERS AND DIFFUSERS WITH REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS.
- ALL SURFACES SEEN THROUGH GRILLES AND DIFFUSERS SHALL BE PAINTED MATTE BLACK.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO KEEP ACCESS TO THE VOLUME DAMPERS WITHIN THE LAY-IN CEILING OR EXPOSED AREAS.
- PROVIDE FLEXIBLE CONNECTIONS TO ALL AIR MOVING EQUIPMENT.
- INSTALL DIFFUSERS WITH 3-WAY OR 2-WAY THROW AS REQUIRED TO AVOID BLOWING DIRECTLY ON THERMOSTATS.
- MC SHALL CONFIRM ALL CEILING TYPES, HARD OR LAY-IN, INCLUDING NARROW TEE AND REGULAR, PRIOR TO SUBMITTAL OF SHOP DRAWINGS TO ENGINEER. ANY AIR DEVICES REQUIRING REPLACEMENT DUE TO LACK OF MC'S CONFIRMATION SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

- ALL FIRE DAMPERS AND U.L. FIRE STOPS SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH MANUFACTURER'S U.L. LISTING AND INSTALLATION INSTRUCTIONS. REGARDLESS OF DUCT SIZE, FIRE DAMPERS SHALL BE MINIMUM 12"x12" OR 12"Ø IN SIZE. TRANSITION BEYOND ACCESS DOOR AS REQUIRED TO MATCH ACTUAL DUCT SIZE. PIPING
- FLEXIBLE PIPE CONNECTIONS SHALL BE PROVIDED AT ALL HYDRONIC PIPING CONNECTIONS AT ROTATING EQUIPMENT, INCLUDING AIR HANDLING UNITS, BASE-MOUNTED PUMPS, CHILLERS, ETC.
- ANY INSULATION DAMAGED DURING THE PROJECT SHALL BE REPAIRED AND ALL VAPOR BARRIERS RESTORED.
- BUILDING AUTOMATION SYSTEM (CONTROLS)
- SOME VIRTUAL POINTS ARE SHOWN ON THE CONTROL POINTS LISTS. THESE POINTS ARE INTENDED TO SHOW MAJOR VIRTUAL POINTS BUT IS NOT AN ALL-ENCOMPASSING LIST. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINAL POINT COUNTS AND SHALL ENSURE THAT THE CONTROLLERS PROVIDED ARE CAPABLE OF HANDLING ANY ADDITIONAL VIRTUAL POINTS THAT MAY BE NEEDED TO PROVIDE A FULLY FUNCTIONAL SYSTEM.
- MOTOR CONNECTIONS AT MOTOR TERMINALS SHALL NOT BE MADE UNTIL ROTATION, HORSEPOWER, PHASE RATINGS, AND RATINGS OF ANY REQUIRED THERMAL HEATERS HAVE BEEN VERIFIED AND APPROVED AS CORRECT FOR THE INSTALLATION BY THE MC.
- INSTALL THERMOSTATS AT THE SAME HEIGHT AS THE LIGHT SWITCH WHERE INSTALLED ADJACENT AND NO HIGHER THAN PERMITTED BY ADA GUIDELINES. PROVIDE INSULATED PLATES BEHIND THERMOSTATS INSTALLED ON EXTERIOR WALLS. COORDINATE LOCATION OF WALL MOUNTED THERMOSTATS, TEMPERATURE SENSORS, WALL SWITCHES, ETC. WITH OTHER CONTRACTORS TO AVOID CONFLICTS WITH DRAWING BOARDS, ELECTRICAL DEVICES, TACK BOARDS, ETC. ALL WIRING TO WALL MOUNTED DEVICES SHALL BE CONCEALED IN WALL UNLESS NOTED OTHERWISE.
- ALL SHUTDOWNS SHALL BE COORDINATED AND APPROVED THROUGH THE OWNERS' REPRESENTATIVE AND WILL REQUIRE ADVANCE NOTICE OF ONE WEEK MINIMUM. THIS TIMELENGTH MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS AND SHALL BE AT THE OWNERS' DISCRETION.
- ALL ROOF MOUNTED UNITS SHALL BE CAREFULLY COORDINATED WITH THE STRUCTURE, MC AND GC SHALL COORDINATE ROOF STEEL PLACEMENT AND ROOF OPENINGS WHICH SHALL MATCH UP WITH THE ACTUAL UNIT OPENING LOCATION, SIZE, WEIGHTS AND DIMENSIONS. NO WORK SHALL OCCUR UNTIL CONTRACTOR HAS APPROVED SHOP DRAWINGS.
- DEMOLITION
- THESE DRAWINGS DEFINE THE BASIC AREA OF DEMOLITION AND ARE AS ACCURATE AS WAS POSSIBLE FROM SITE INVESTIGATIONS MADE DURING THE DESIGN PROCESS. NOT ALL EXISTING MATERIALS AND EQUIPMENT ARE SHOWN. ANY MECHANICAL MATERIALS AND EQUIPMENT THAT ARE NOT BEING USED AFTER THE RENOVATION SHALL BE REMOVED WHETHER SHOWN OR NOT. NO MATERIALS OR EQUIPMENT SHALL BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED.
- ALL EQUIPMENT TO BE REUSED IS TO BE CLEANED. ANY EQUIPMENT FOUND TO BE NON-FUNCTIONING SHALL BE DOCUMENTED AND BROUGHT TO THE ATTENTION OF THE OWNER PRIOR TO COMMENCEMENT OF DEMOLITION. IF PROPER NOTIFICATION IS NOT PROVIDED THEN REPAIR OR REPLACEMENT OF THE EQUIPMENT SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK. ALL MATERIALS REQUIRED FOR TESTING (E.G. - SMOKE GENERATORS) SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT. IF A PROJECT FAILS AN INSPECTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH THE RE-INSPECTION.
- ANY EQUIPMENT OR MATERIAL DEVIATIONS FROM THAT SPECIFIED OR DETAILED ON THIS DRAWING SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT/ENGINEER. ALL PROPOSED EQUIPMENT DEVIATIONS SUBMITTED SHALL BE SIMILAR BOTH IN QUALITY AND CAPACITY TO THAT EQUIPMENT SPECIFIED.
- ALL MECHANICAL EQUIPMENT SHALL BE LISTED AND LABELED BY APPROVED THIRD PARTY LISTING AGENT.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL THEIR OWN SUPPORT EQUIPMENT. SUPPORT ALL EQUIPMENT FROM STRUCTURAL MEMBERS, UNLESS NOTED OTHERWISE. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
- DUCTWORK AND PIPING LAYOUTS AND LOCATIONS ARE SCHEMATIC. DO NOT SCALE. THESE DRAWINGS. EXACT ROUTING OF DUCTWORK AND PIPING MUST BE DETERMINED IN THE FIELD. ALL DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BY ACTUAL MEASUREMENT AND OBSERVATION BEFORE ORDERING OR FABRICATING ANY DUCTWORK, PIPING OR EQUIPMENT. ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS OR DIMENSIONS SHALL BE REPORTED TO THE ENGINEER BEFORE THE PERFORMANCE OF ANY WORK. FAILURE TO VERIFY AND REPORT SHALL CONSTITUTE THE CONTRACTOR'S ACCEPTANCE OF THE EXISTING CONDITIONS AS FIT FOR THE PROPER EXECUTION OF THEIR WORK.
- DUCTWORK AND PIPING SHALL BE KEPT AS CLOSE AND HIGH AS POSSIBLE TO THE BUILDING WALLS. CEILING AND FLOOR ANCHOR STRUCTURE IN ORDER THAT THE MAXIMUM AMOUNT OF SPACE IS AVAILABLE. ADDITIONAL OFFSETS, FITTINGS, ETC. NOT SHOWN BUT REQUIRED TO MAINTAIN MAXIMUM CLEARANCE SHALL BE PROVIDED AT NO ADDITIONAL COST.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE RESPONSIBILITY FOR ALL PATCHING AND CLEANING ASSOCIATED WITH THIS PROJECT WITH THE GENERAL CONTRACTOR.
- EXISTING FLOOR DRAINS SHOULD BE COVERED DURING DEMOLITION AND NEW WORK CONSTRUCTION.

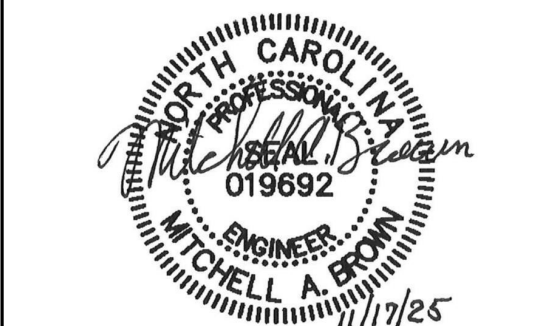
MECHANICAL SHEET INDEX	
M001	MECHANICAL DATA SHEET
MD111	DEMO MECHANICAL - GROUND FLOOR PLAN
M111	DUCTWORK - GROUND FLOOR PLAN
M211	PIPING - GROUND FLOOR PLAN
M301	MECHANICAL DETAILS
M401	MECHANICAL SCHEDULES
M601	MECHANICAL CONTROL DIAGRAMS

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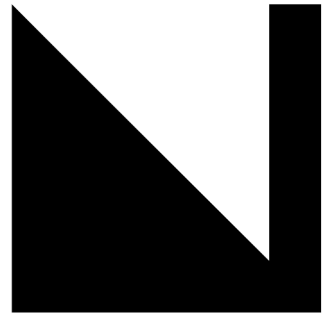
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MECHANICAL
DATA SHEET



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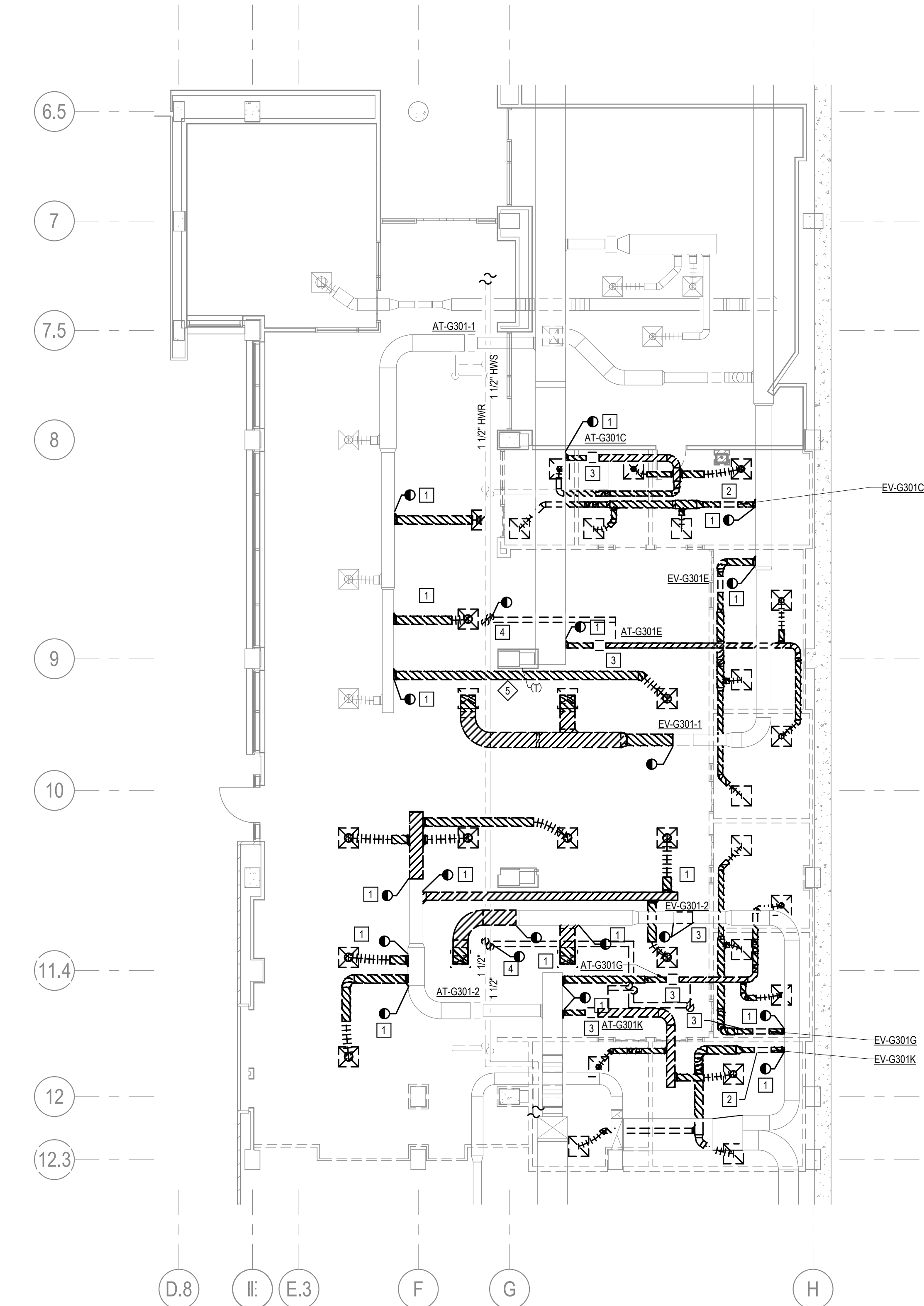
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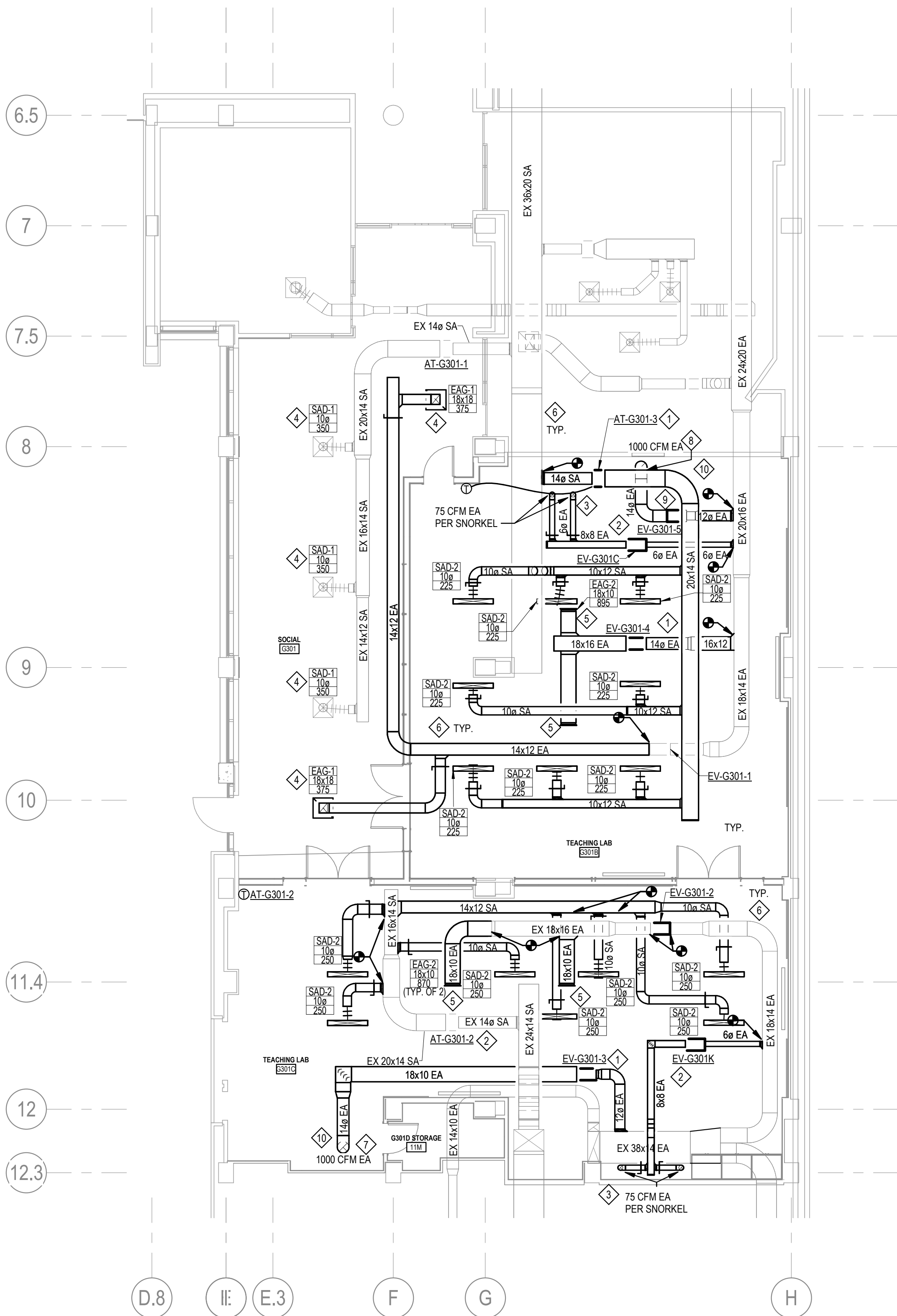
DEMO
MECHANICAL -
GROUND FLOOR
PLAN

KEYED NOTES	
1	EXISTING SUPPLY/ EXHAUST DUCTWORK SHALL BE REMOVED AS SHOWN. COORDINATE EXTENTS OF DEMOLITION WITH NEW WORK PLANS.
2	EXISTING SUPPLY/EXHAUST TERMINAL UNIT TO BE RELOCATED. COORDINATE WITH NEW WORK PLANS.
3	EXISTING SUPPLY/EXHAUST TERMINAL UNIT/AIR VALVE TO BE DEMOLISHED AND RETURNED TO BASE BUILDING STOCK.
4	EXISTING SUPPLY TERMINAL UNIT ASSOCIATED PIPING TO BE DEMOLISHED BACK TO MAIN AND SEALED.
5	RELOCATE EXISTING THERMOSTAT. SEE MECHANICAL NEW WORK PLANS FOR LOCATION.



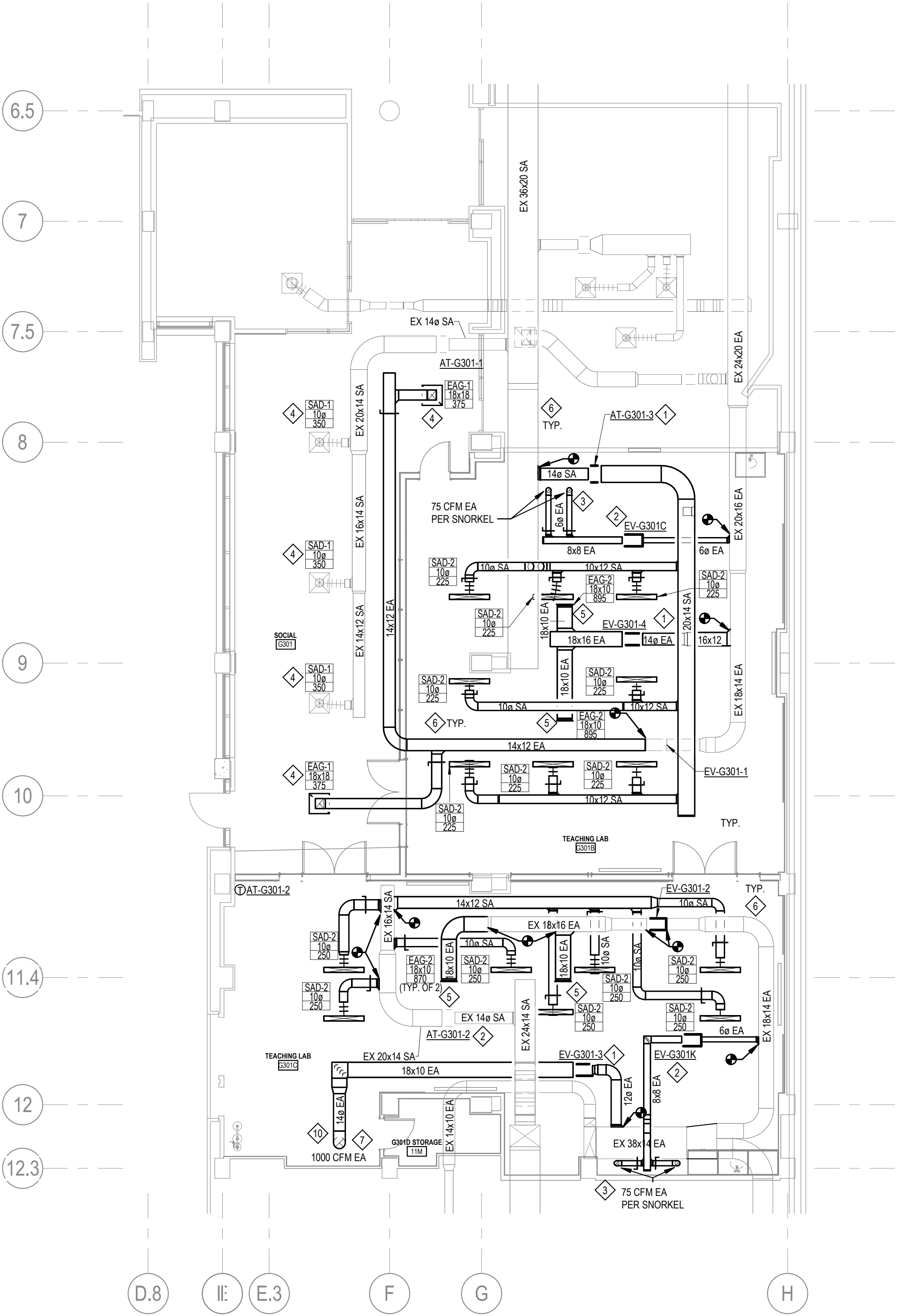
1 MECHANICAL GROUND DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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

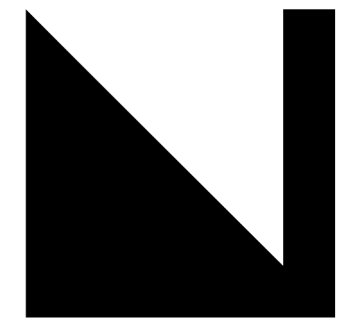
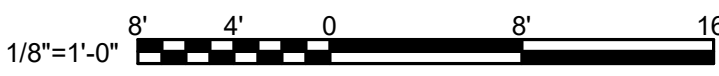


2 MECHANICAL DUCTWORK GROUND PLAN ALTERNATE 01
SCALE: 1/8" = 1'-0"

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"ø 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"ø EXHAUST DUCTWORK DOWN TO NEW EXHAUST HOOD PROVIDED BY OTHERS.
8	ADD ALTERNATE 01: PROVIDE 14"ø 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.



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



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DUCTWORK -
GROUND FLOOR
PLAN



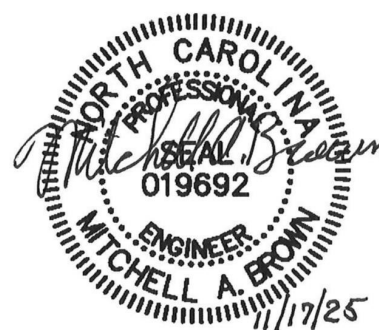
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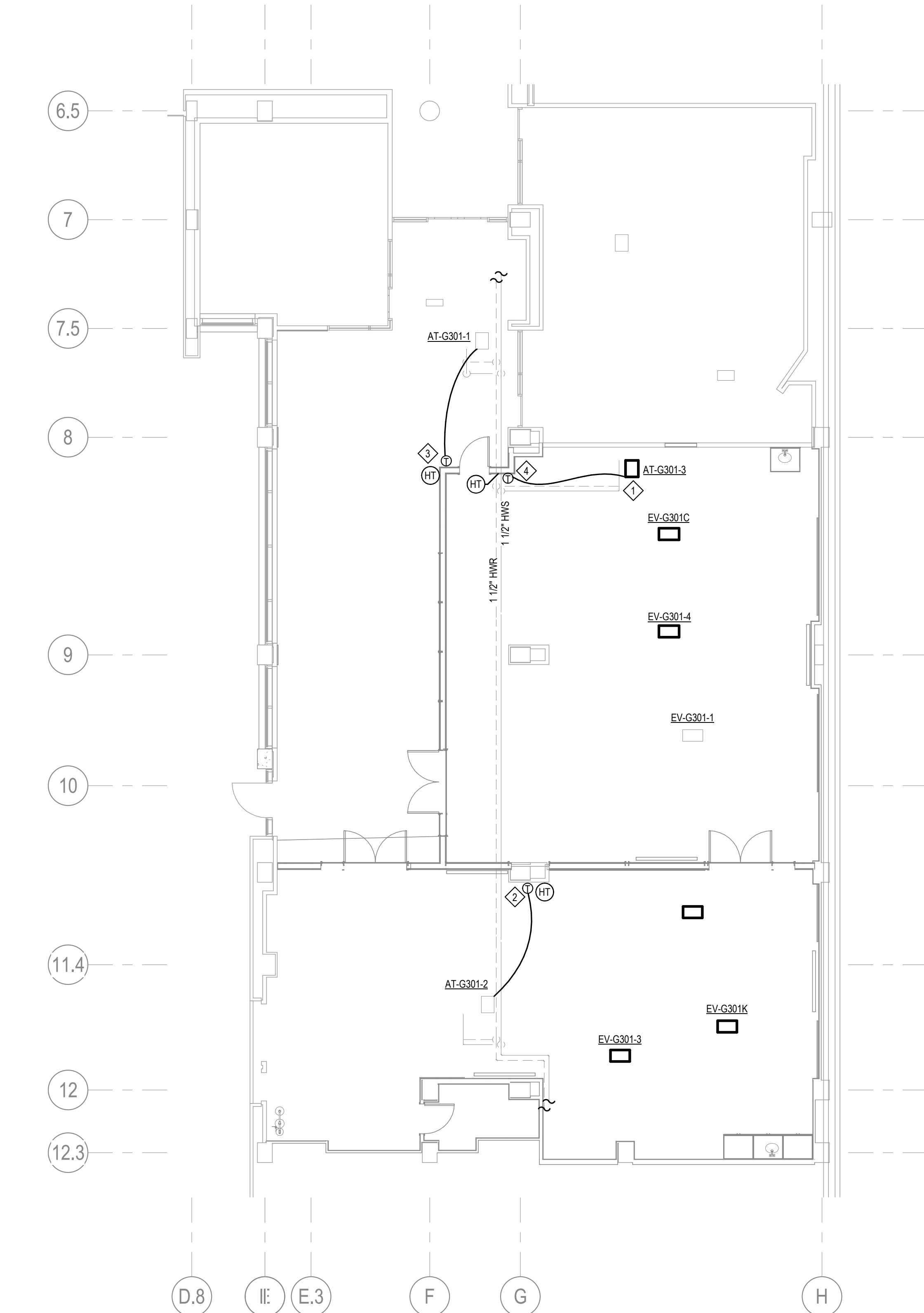
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M211

PIPING - GROUND
FLOOR PLAN

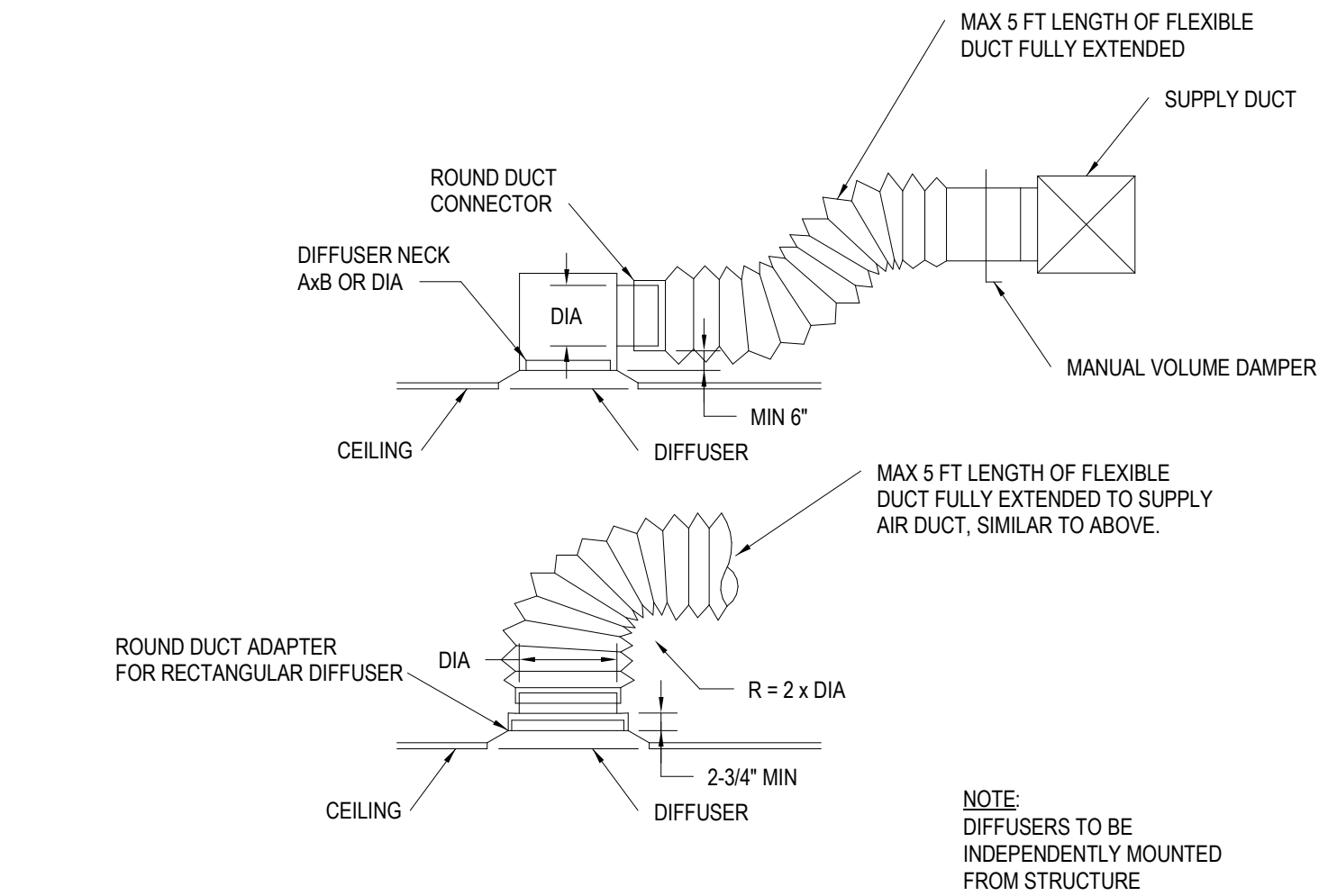
KEYED NOTES	
1	CONNECT HW PIPING TO NEW TERMINAL UNIT FROM EXISTING TAP OFF THE HWS/HWR MAINS.
2	LOCATION OF EXISTING THERMOSTAT AND NEW SPACE HUMIDITY SENSOR.
3	LOCATION OF RELOCATED THERMOSTAT AND NEW SPACE HUMIDITY SENSOR.
4	LOCATION OF NEW THERMOSTAT AND NEW SPACE HUMIDITY SENSOR.



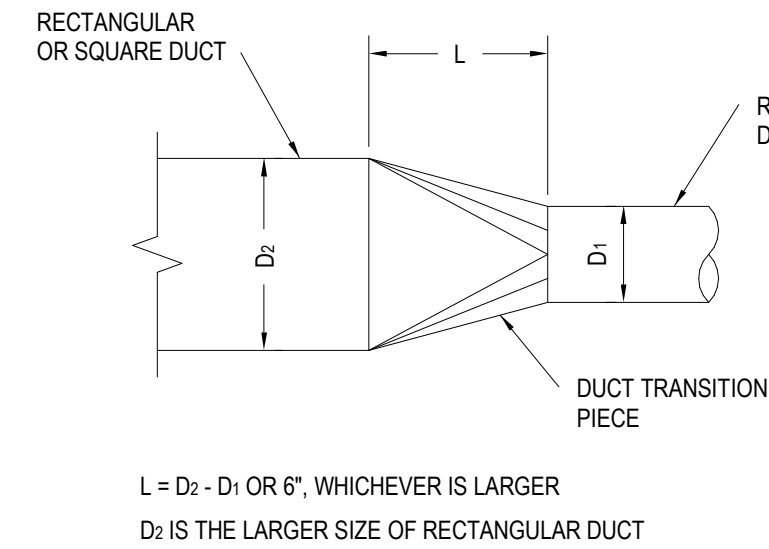
1 MECHANICAL PIPING BASEMENT PLAN

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

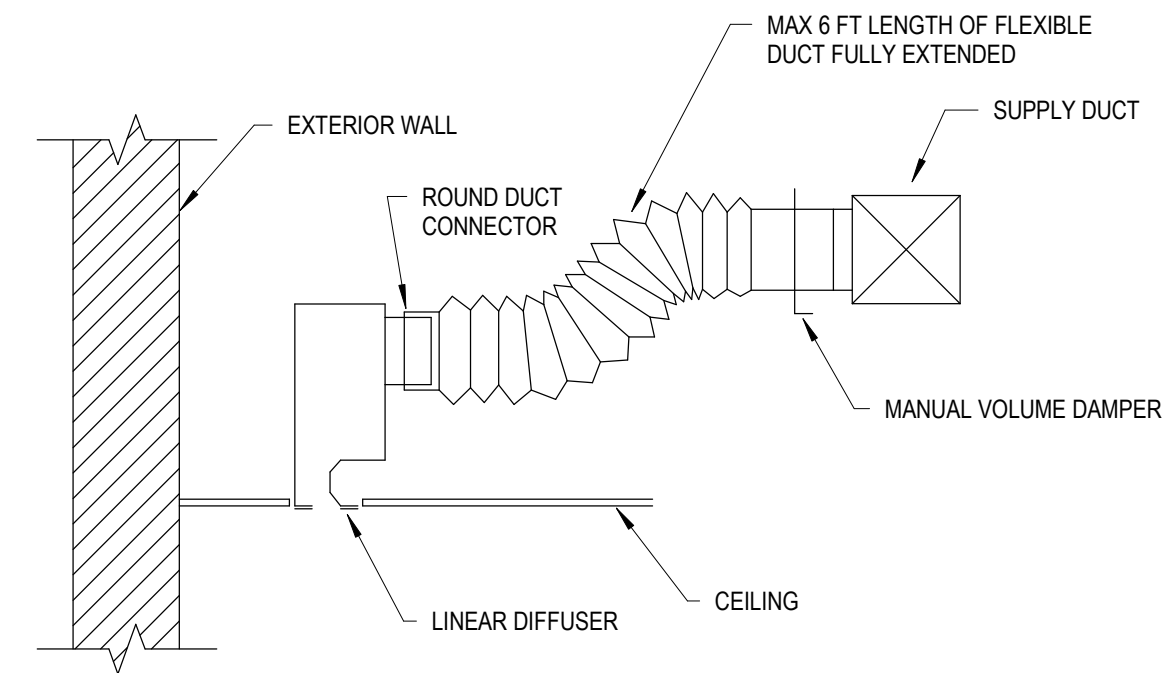
1/8"=1'-0" 8' 4' 0 8' 16'



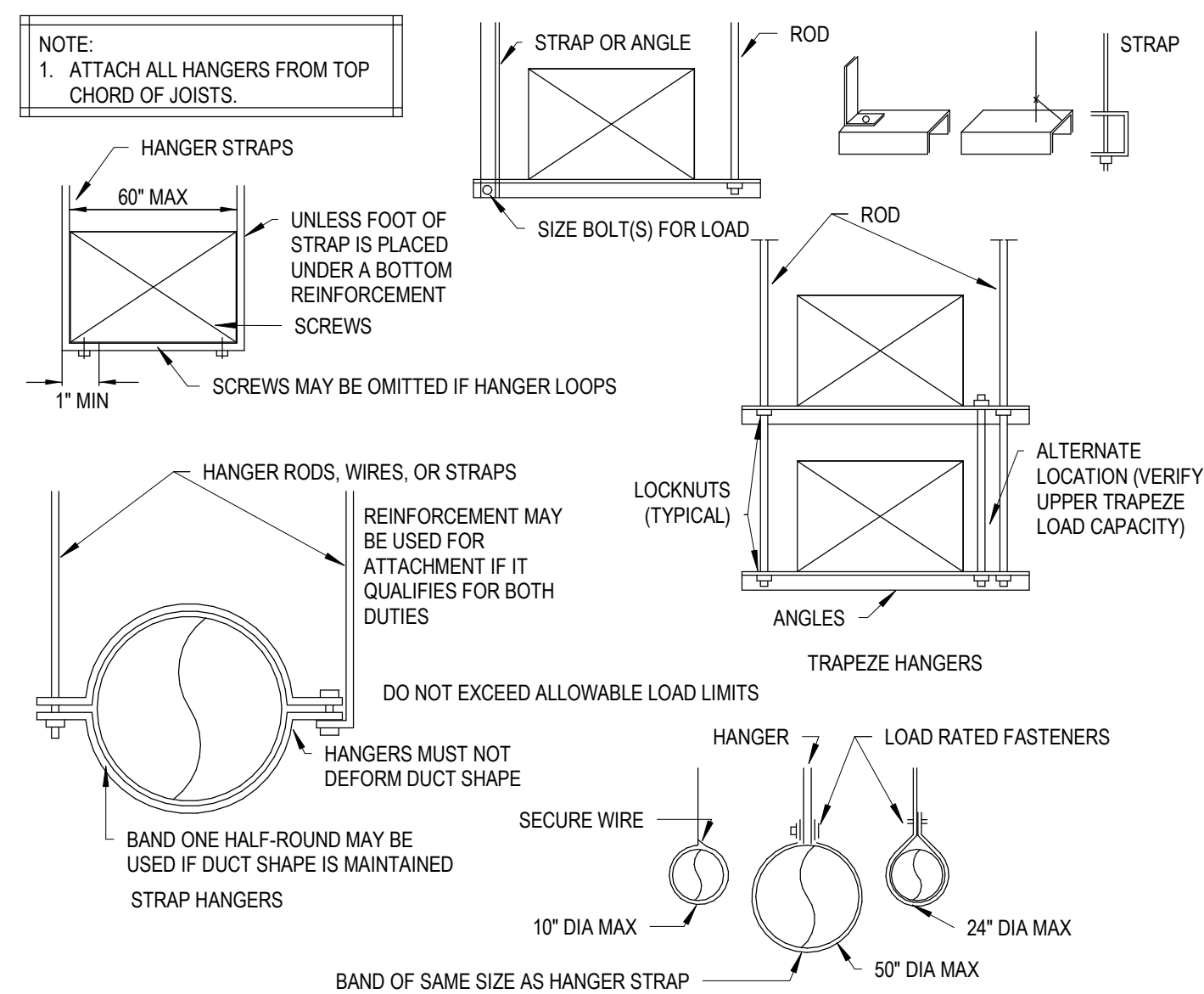
1 DIFFUSER CONNECTION
SCALE: 12" = 1'-0"



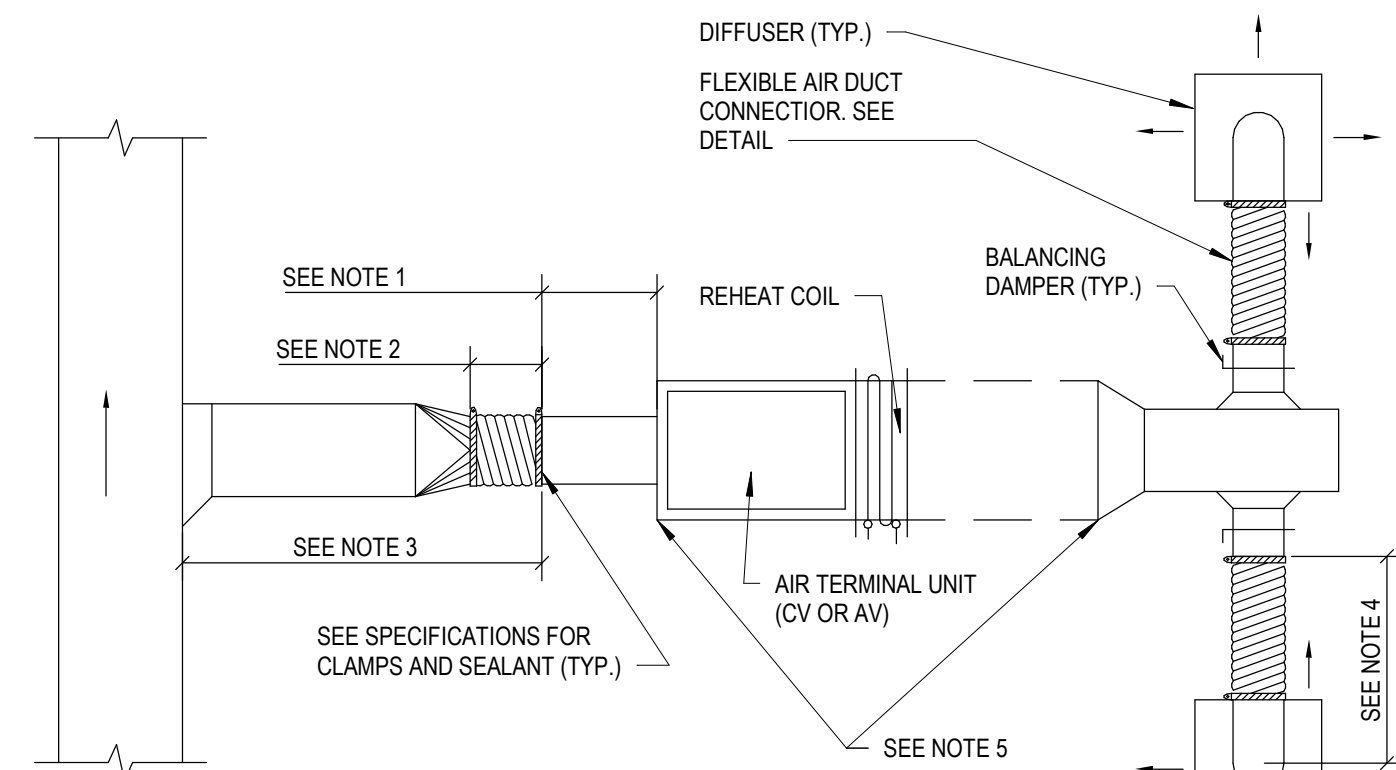
2 3-210 DUCT TRANSITION
SCALE: 12" = 1'-0"



3 LINEAR DIFFUSER CONNECTION
SCALE: NTS



4 DUCT HANGERS
SCALE: NTS



5 AIR TERMINAL UNITS - DUCT CONNECTIONS
SCALE: NTS

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M301

MECHANICAL
DETAILS

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

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. PROVIDE WITH SQUARE TO ROUND INLET CONNECTION WHERE REQUIRED. SEE PLANS FOR NECK SIZE/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 SDB PLENUM. 1 IN. SLOT WIDTH WITH 3 SLOTS.	25	



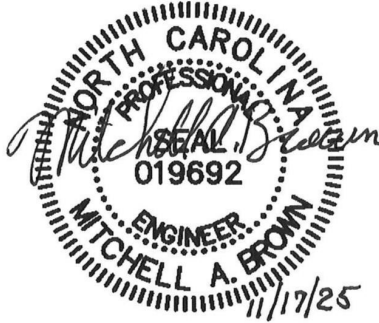
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MECHANICAL
SCHEDULES

GENERAL	
	DEMOLITION KEYED NOTE.
	NEW WORK KEYED NOTE.
	REMOVE WIRING, CABLING, ETC. TO THIS POINT.
	CONNECT WIRING, CABLING, ETC. TO THIS POINT.
	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 INSOFAR 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.
<div>LIGHTING FIXTURE KEY</div> <div></div>	

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

DATA / COMMUNICATION - PATHWAYS & BOXES		
WALL	FLOOR	CEILING

ACCESS CONTROL - PATHWAY & BOXES	
	FLUSH MOUNTED ACCESS CONTROL CARD READER MOUNTED 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
	FLUSH MOUNTED ACCESS CONTROL CARD READER MOUNTED 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
	FLUSH MOUNTED ACCESS CONTROL KEY PAD MOUNTED 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
	DOOR RELEASE BUTTON. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
	INFRARED HAND SENSOR FOR HANDS FREE DOOR OPERATION. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
	REQUEST TO EXIT
	ELECTRIC DOOR STRIKE
	MAG LOCK DEVICE - PROVIDE 120V TO THIS LOCATION.
	DOOR CONTACTS. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
	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.
<div>DISCONNECT SWITCH TAG KEY</div> <div></div>	
	VARIABLE FREQUENCY DRIVE - ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL CONNECTION.
	AUTOMATIC TRANSFER SWITCH - SEE RISER DIAGRAM
	TRANSFORMER - SEE RISER DIAGRAM

WIRING, RACEWAY, & GROUNDING	
	CONDUIT WITH BUSHING AND CAP
	CONDUIT TURNED UP
	CONDUIT TURNED DOWN
	CONDUIT CONTINUED
	SURFACE METAL RACEWAY, MOUNTING AND CONFIGURATION AS SPECIFIED.
	CONCEALED CONDUIT AND WIRING
	UNDER FLOOR OR UNDER GROUND CONDUIT AND WIRING
	GROUND CABLE
	GROUNDING TRIOIDE
	GROUNDING ROD
	WIRING HOMERUN - INDICATES CIRCUIT CONDUIT AND WIRE TO PANELBOARD SEE PANEL SCHEDULE

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 GF1 FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX.																
			EMERGENCY DUPLEX RECEPTACLE																
			EMERGENCY GF1 DUPLEX RECEPTACLE																
			QUAD RECEPTACLE																
			EMERGENCY QUAD RECEPTACLE																
			SPECIAL EQUIPMENT RECEPTACLE. SUBSCRIPT INDICATES NEMA CONFIGURATION, IF APPLICABLE.																
			JUNCTION BOX FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. COORDINATE LOCATION WITH MANUFACTURER FOR EQUIPMENT MOUNTED BOXES.																
<div>POWER DEVICE NOMENCLATURE</div> <div><table><tr><td>+</td><td>ABOVE COUNTER</td><td>WP</td><td>WEATHER PROOF</td></tr><tr><td>+#</td><td>CUSTOM MOUNTING HEIGHT</td><td>EW</td><td>ELECTRIC WATER COOLER</td></tr><tr><td>IG</td><td>ISOLATED GROUND</td><td>USB</td><td>DUPLEX WITH USB-A & USB-C PORTS</td></tr><tr><td>TR</td><td>TAMPER RESIDENT</td><td></td><td></td></tr></table></div>				+	ABOVE COUNTER	WP	WEATHER PROOF	+#	CUSTOM MOUNTING HEIGHT	EW	ELECTRIC WATER COOLER	IG	ISOLATED GROUND	USB	DUPLEX WITH USB-A & USB-C PORTS	TR	TAMPER RESIDENT		
+	ABOVE COUNTER	WP	WEATHER PROOF																
+#	CUSTOM MOUNTING HEIGHT	EW	ELECTRIC WATER COOLER																
IG	ISOLATED GROUND	USB	DUPLEX WITH USB-A & USB-C PORTS																
TR	TAMPER RESIDENT																		
<div>POWER DEVICE TAG KEY</div> <div></div>																			
			ELECTRIC PUSH BUTTON - FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS.																
			PUSH BUTTON (3 POSITION) - FLUSH (FINISHED SPACES) OR SURFACE (UNFINISHED SPACES) OUTLET BOX. MOUNT 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS.																
			EMERGENCY STOP MUSHROOM TYPE BUTTON IN SURFACE MOUNTED BOX. MOUNT 46-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED OR REQUIRED BY SITE CONDITIONS.																
			POKE-THRU. PROVIDE ELECTRICAL DEVICE. SAME DEVICE MAYBE SHOWN ON BOTH POWER AND SYSTEMS PLANS.																
			POKE-THRU. PROVIDE COMBINATION ELECTRICAL/DATA DEVICE. SAME DEVICE IS SHOWN ON BOTH POWER AND SYSTEMS PLANS.																
			POKE-THRU. PROVIDE DATA DEVICE. SAME DEVICE MAYBE SHOWN ON BOTH POWER AND SYSTEMS PLANS.																
			CORE DRILL																
			FLOOR BOX - PROVIDE DEVICES AND COUNTS AS SHOWN OR NOTED																
			FURNITURE FEED																
			CORD REEL																
			MOTORIZED DAMPER - PROVIDE 120V POWER AND LOCAL DISCONNECT. COORDINATE EXACT LOCATIONS WITH M.C.																
			EQUIPMENT CONTROL PANEL. FINAL CONNECTION BY E.C.																

ELECTRICAL SHEET INDEX	
E001	ELECTRICAL LEGEND SHEET
E002	ELECTRICAL NOTES AND ABBREVIATION
E100	ELECTRICAL DEMOLITION PLANS
E200	ELECTRICAL NEW WORK PLANS
E300	ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES
E500	ELECTRICAL DETAILS
E501	ELECTRICAL DETAILS
FA001	ELECTRICAL FIRE ALARM LEGEND SHEET
FA100	FIRE ALARM DEMO AND NEW WORK PLANS

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REVISION:	
SCD REVIEW	8/18/25
2nd SCD 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 UPFIT

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.

E001

ELECTRICAL
LEGEND SHEET

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-MINI1-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 406.3.2 REDUCED 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

ELECTRICAL ABBREVIATIONS					
ABBREVIATION		DESCRIPTION		ABBREVIATION	
A/AMP	AMPERE	G, GND, GRD	GROUND	NFPA	NATIONAL FIRE PROTECTION
AFCI	ARC FAULT INTERRUPTER	GC	GENERAL CONTRACTOR	ASSOCIATION	
AFF	ABOVE FINISHED FLOOR	GEN	GENERATOR	NIC	NOT IN THIS CONTRACT
AFG	ABOVE FINISHED GRADE	GFI	GROUND FAULT INTERRUPTER	NM	NON-METALLIC
AHJ	AUTHORITY HAVING JURISDICTION	GTB	GROUND TERMINAL BOX	NO	NORMALLY OPEN
AL	ALUMINUM	HID	HIGH INTENSITY DISCHARGE	NTS	NOT TO SCALE
ANSI	AMER. NATIONAL STANDARDS INSTITUTE	HP	HORSE POWER	OC	ON CENTER
ASA	AMERICAN STANDARDS ASSOCIATION	HPF	HIGH POWER FACTOR	OEM	ORIGINAL EQUIPMENT MANUFACTURER
ASTM	AMER. SOCIETY OF TESTING MATERIALS	HR	HOMERUN	OSHA	OCCUPATIONAL SAFETY AND HEALTH
AWG	AMERICAN WIRE GAUGE	HTR	HEATER		ADMINISTRATION
AT	AMPERE TRIP	HVAC	HEATING, VENTILATION, AIR	P	POLE
ATS	AUTOMATIC TRANSFER SWITCH		CONDITIONING CONTRACTOR	PBOX	PULL BOX
BL	BLANK	HV	HIGH VOLTAGE	PC	PHOTOCELL
BKR	BREAKER	HZ	HERTZ	P.C.	PLUMBING CONTRACTOR
C	CONDUIT	ICEA	INTERNATIONAL CABLE ENGR. ASSOC.	PH / Ø	PHASE
CB, C/B	CIRCUIT BREAKER	IEEE	INSTITUTE OF ELECTRICAL AND	PNL	PANEL
CKT BKR	-		ELECTRONIC ENGINEERS	POS	POSITION
CKT	CIRCUIT	IES	ILLUMINATING ENGINEERING SOCIETY	PRI	PRIMARY
CCTV	CLOSED CIRCUIT TV	IN	INCH	PWR	POWER
CLG	CEILING	INCAN	INCANDESCENT	REC / RECP	RECEPTACLE
CO	CONVENIENCE OUTLET	IR	INFRA-RED	RGS	RIGID GALVANIZED STEEL
CONN	CONNECTION	JB/JBOX	JUNCTION BOX	RMC	RIGID GALVANIZED METAL CONDUIT
CU	COPPER	K	THOUSAND	RT	RAIN TIGHT
DB	DIRECT BURIAL	KVA	KILOVOLT-AMPERE	SCHED	SCHEDULE
DISC	DISCONNECT	KW	KILOWATT	SEC	SECONDARY
DN	DOWN	KWH	KILOWATT HOUR	SIG	SIGNAL
DWG	DRAWING	LA	LIGHTING ARRESTER	SM	SURFACE MOUNTED
EA	EACH	LCP	LIGHTING CONTROL PANEL	SMR	SURFACE MOUNTED RACEWAY
E.C.	ELECTRICAL CONTRACTOR	LED	LIGHT EMITTING DIODE	SP	SPARE
EF	EXHAUST FAN	LTS	LIGHTS	SS	SAFETY SWITCH
EH	ELECTRIC HEAT	LTG	LIGHTING	SW	SW
EIA	ELECTRONIC INDUSTRIES ASSOC.	LV	LOW VOLTAGE	SWBD	SWITCHBOARD
EMT	ELECTRIC METALLIC TUBING	MC	METAL CLAD	TEL / TELE	TELEPHONE
XP	EXPLOSION PROOF	M.C.	MECHANICAL CONTRACTOR	TL	TWIST LOCK
E, EM	EMERGENCY	MCB	MAIN CIRCUIT BREAKER	TP	TAMPER PROOF
ELEC	ELECTRIC	MCC	MOTOR CONTROL CENTER	TX / XFMR	TRANSFORMER
EMT	ELECTRIC METALLIC TUBING	MDP	MAIN DISTRIBUTION PANEL	TTB	TELEPHONE TERMINAL BOARD
EQ/EQPM	EQUIPMENT	MFR	MANUFACTURER	TV	TELEVISION
EUH	ELECTRIC UNIT HEATER	MH	MANHOLE	TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	MLO	MAIN LUGS ONLY	UH	UNIT HEATER
EX	EXISTING	MISC	MISCELLANEOUS	UL	UNDERWRITERS' LABORATORIES, INC
F	FIXTURE	MTD	MOUNTED	UNO	UNLESS NOTED OTHERWISE
FA	FIRE ALARM	MTG HGT	MOUNTING HEIGHT	V	VOLTAGE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	MTR	MOTOR	VT	VAPOR TIGHT
FACP	FIRE ALARM CONTROL PANEL	N/A	NOT APPLICABLE	W	WIRE, WATT
FCU	FAN COIL UNIT	NC	NORMALLY CLOSED	WI	WITH
FDR	FEEDER	NF	ON-FUSED SAFETY SWITCH	W/O	WITHOUT
FIXT	FIXTURE	NEC	NATIONAL ELECTRIC CODE	WP	WEATHER PROOF
FL	FLOOR	NEMA	NATIONAL ELECTRICAL	WT	WATER TIGHT
FLUOR	FLUORESCENT		MANUFACTURERS ASSOCIATION		
FSS	FUSED SAFETY SWITCH				
FT	FEET				

GENERAL NOTES

1. 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.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SAFETY. ARCHITECT AND/OR ENGINEER SHALL ASSUME NO RESPONSIBILITY FOR WORKMANS, OR PEDESTRIANS SAFETY. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED TO INSTRUCT PROCEDURES OR COMPONENTS FOR PROJECT SAFETY.
3. WHERE A CONFLICT ARISES BETWEEN PLANS, SPECIFICATIONS, DETAILS, SCHEDULES, APPLICABLE CODES OR REGULATIONS, THE MOST STRINGENT SHALL APPLY.
4. 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.
5. 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.
6. 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 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.
7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY LIGHT AND POWER AS REQUIRED BY THE GENERAL CONDITIONS OF THE SPECIFICATION.
8. 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.
9. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER'S PROJECT MANAGER PRIOR TO AND FOR SCHEDULING ANY INTERRUPTION OF ANY BUILDING UTILITY.
10. 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.
11. THE ELECTRICAL CONTRACTOR AT THE SITE SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PERTAINING TO THE INSTALLATION OF THE ELECTRICAL SYSTEMS. WHERE A CONTRACTOR UNCOVERS CONDITIONS NOT INDICATED ON THE PLANS OR IN THE SPECIFICATIONS, THEY SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH ANY WORK. FAILURE TO NOTIFY THE ARCHITECT WILL MAKE THE CONTRACTOR RESPONSIBLE FOR ALL COSTS AND CONSEQUENCES OF SUCH FAILURE.
12. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE DESIGN/LAYOUT INTENT ONLY. THE ELECTRICAL CONTRACTOR SHALL DETERMINE CIRCUITING, ROUTING, WIRING ETC., AS REQUIRED BY THE SITE CONDITIONS, AND ALL APPLICABLE CODES.
13. ALL WIRING SHALL BE CONCEALED IN FINISHED AREAS AS SPECIFIED. USE EMT CONDUIT, MINIMUM 3/4" UNLESS NOTED OR SPECIFIED OTHERWISE. USE OF MC CABLE IS NOT ALLOWED PER UNC ELECTRICAL AND EMERGENCY GENERATOR GUIDELINES.
14. THE FOLLOWING CONDUCTORS SHALL BE RUN IN HEAVY WALL CONDUIT:
14.1 ALL FEEDERS RUN IN SLAB - MAY BY SCHEDULE 80 PVC.
14.2 WHERE REQUIRED BY THE N.E.C.
14.3 EXPOSED WIRING ON A ROOF - SEAL PROPERLY.
14.4 EXTERIOR, ABOVE GRADE WIRING.
15. FOLLOWING FEEDERS SHALL BE IN EMT:
15.1 BRANCH FEEDERS TO PANELS.
16. TRENCHING AND BACKFILL FOR UNDERGROUND CONDUITS SHALL BE BY THE ELECTRICAL CONTRACTOR.
17. UPON THE COMPLETION OF WORK THE E.C. SHALL PROVIDE ALL PANELBOARDS WITH TYPED PANEL SCHEDULES TO CLEARLY DEFINE THE EQUIPMENT SERVED.
18. UPON THE COMPLETION OF WORK THE E.C. SHALL PROVIDE ALL DISTRIBUTION EQUIPMENT WITH TYPED NAMEPLATES TO CLEARLY DEFINE THE EQUIPMENT SERVED AND RECEPTACLE PLATES WITH CIRCUITS SERVING EACH.
19. CHANNELING OF THE FLOORS SHALL BE MINIMIZED.
20. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE COORDINATED PLACEMENT OF LIGHTS, DIFFUSERS, SPRINKLERS, AND RETURN AIR GRILLES.
21. E.C. SHALL COORDINATE ALL RECEPTACLE AND LIGHT FIXTURES LOCATIONS WITH CASEWORK PLATE WHICH WILL BE DIMENSIONED.
22. ALL HOMERUNS WITH MORE THAN SIX (6) TOTAL CONDUCTORS SHALL BE A MINIMUM OF NO. 10 THIN WIRE UNLESS SPECIFICALLY SIZED OTHERWISE.
23. ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
24. CONTRACTOR SHALL REMOVE DEMOLITION DEBRIS COMPLETELY. CONTRACTOR SHALL SCHEDULE WITH THE OWNER THE TIME, LOCATION, ELEVATOR AND HAULING ROUTE.
25. CONTRACTOR SHALL CLEAN UP ALL DEBRIS AT THE END OF EACH WORK DAY.
26. EXACT COUNTS/QUANTITIES FOR CONTRACT PURPOSES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND INCLUDED AS PART OF THE BASE BID.
27. REFER TO ARCHITECTURAL DRAWING FOR ALL WALL HEIGHTS.
28. VERIFY EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR, PRIOR TO ROUGH-IN. E.C. SHALL ALSO INCLUDE COORDINATION WITH DEVICES BY M.C., WIRING REQUIREMENTS, INTERCONNECTIONS, AND TERMINATIONS AND PROVIDE AS REQUIRED.
29. ALL CONDUITS RUN IN EXPOSED AREAS SHALL BE MOUNTED TIGHT TO THE UNDERSIDE OF THE STRUCTURAL STEEL. THIS APPLIES FOR ALL BRANCH CIRCUIT AND FEEDER CONDUITS.
30. ALL HOLES AND OPENINGS CREATED TO EXTEND THE ELECTRICAL SYSTEMS THROUGH FLOORS AND FIRE RATED ASSEMBLIES SHALL BE FIRESTOPPED.
31. DURING THE BIDDING PROCESS, ELECTRICAL CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES (GENERAL, HVAC, AND PLUMBING). ALL ITEMS REQUIRING POWER INDICATED ON THESE DRAWINGS BUT NOT INDICATED ON THE ELECTRICAL DRAWINGS SHALL BE CONSIDERED A PART OF THE ELECTRICAL CONTRACTORS WORK. THIS WORK SHALL BE INSTALLED AS PER NEC AT NO ADDITIONAL COST TO THE OWNER.
32. WHERE CONDUIT SIZES HAVE BEEN OMITTED, THE CONTRACTOR SHALL INSTALL THE CORRECT SIZES REQUIRED BY THE N.E.C. AS DETERMINED BY THE NUMBER OF WIRES TO BE INSTALLED. WHERE THE NUMBER AND OR SIZES OF HAVE BEEN OMITTED, THE CONTRACTOR SHALL INSTALL THE REQUIRED NUMBER AND OR SIZES AS DETERMINED BY THE EQUIPMENT REQUIREMENTS OR FROM ADJACENT SECTIONS AND CIRCUIT NUMBERS.
33. WIRE SIZE FOR BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP CALCULATIONS AS REQUIRED BY NEC. IF CIRCUIT RUN EXCEEDS 100FT. IN WIRE LENGTH, NEXT WIRE SIZE (#10) SHALL BE USED.
34. STARTERS, COMBINATION STARTERS, CONTRACTORS, ETC., FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. ALL POWER WIRING AND CONDUIT TO EQUIPMENT TERMINALS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AT EQUIPMENT TERMINALS. POWER TO MECHANICAL EQUIPMENT SHALL BE TURNED ON ONLY BY THE MECHANICAL CONTRACTOR. MECHANICAL NAME PLATE DATA SHALL NOT BE COVERED BY ELECTRICAL DEVICES.
35. THE ELECTRICAL CONTRACTOR SHALL FURNISH SUBMITTALS IN ACCORDANCE WITH THE SPECIFICATIONS. ALL SUBMITTALS SHALL BE REVIEWED AND STAMPED BY THE ENGINEER PRIOR TO INSTALLATION.
36. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS FOR THE ENTIRE PROJECT AS DEFINED IN THE SPECIFICATIONS.
37. THIS CONTRACTOR SHALL VISIT THE SITE AND FULLY INFORM HIMSELF OF ALL THE EXISTING CONDITIONS, WHICH IN ANY WAY WILL AFFECT THE EXECUTION OF HIS WORK AND THE REQUIREMENTS OF THIS CONTRACT AS SHOWN OR REASONABLY INFERRED ON THE DRAWINGS AND PRODUCT SPECIFICATIONS.



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SCD REVIEW	8/19/25
2nd SCD REVIEW	10/24/25
Construction Set	11/17/25

CONSTRUCTION SET



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SCO ID: 24-28389-01A

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11-17-25

JOB NO.
10021-0001

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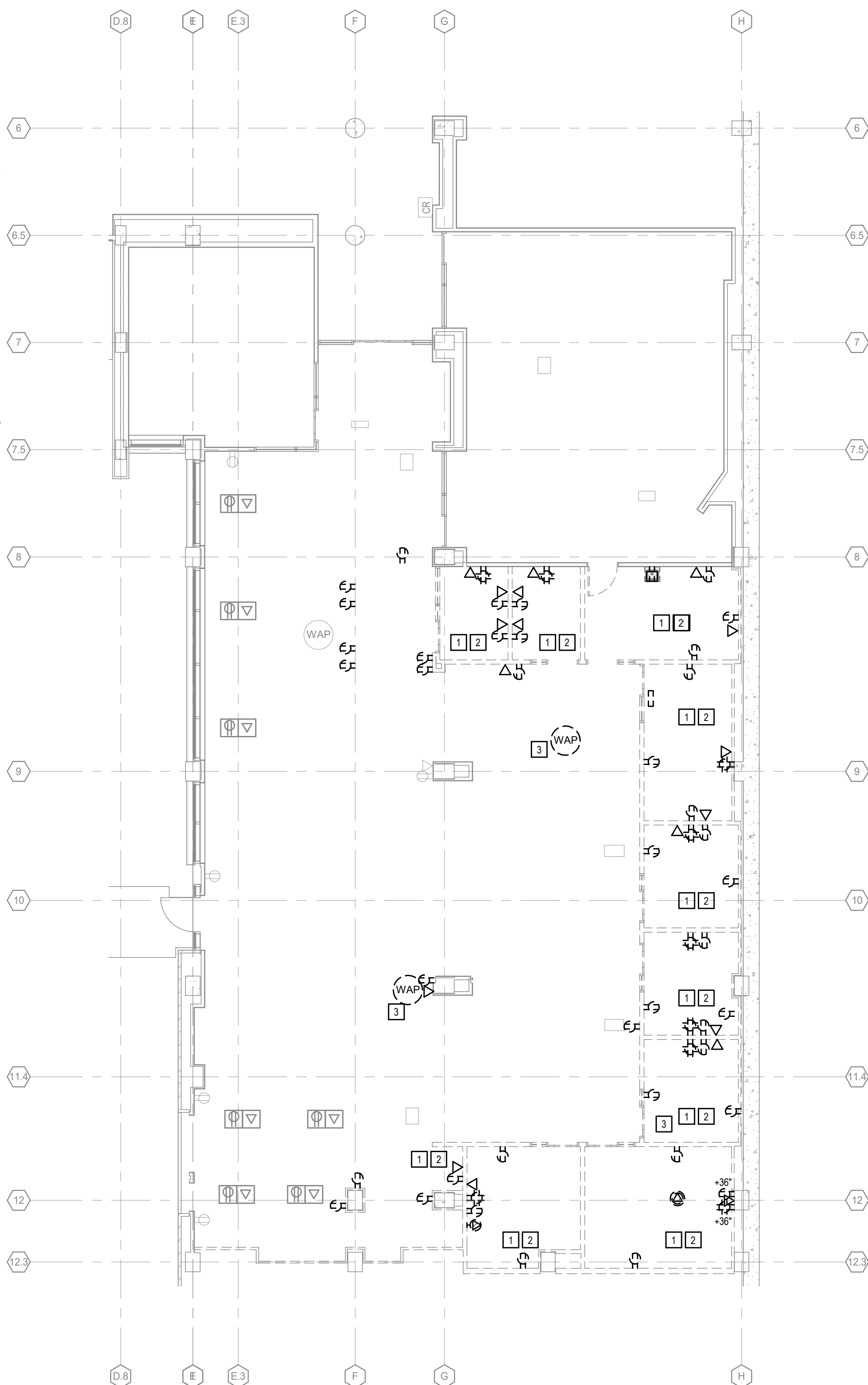
E002

ELECTRICAL
NOTES AND
ABBREVIATION

1. 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.

- # DEMOLITION KEY NOTES

1. DEMOLISH EXISTING RECEPTABLES (HATCHED) AND ASSOCIATED WIRING, 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.
2. DEMOLISH EXISTING DATA OUTLETS (HATCHED) AND ASSOCIATED CABLING, RACEWAY, BOXES, AND SUPPORTS COMPLETELY BACK TO SOURCE.
3. EXISTING CEILING MOUNTED WIRELESS ACCESS POINT SHALL BE DISCONNECTED AND SALVAGED TO BE INSTALLED IN NEW LOCATION. COORDINATE WITH OWNER.
4. DEMOLISH EXISTING CONNECTION TO MECHANICAL EQUIPMENT AND ASSOCIATED WIRING, RACEWAY, BOXES, AND SUPPORTS COMPLETELY BACK TO SOURCE.



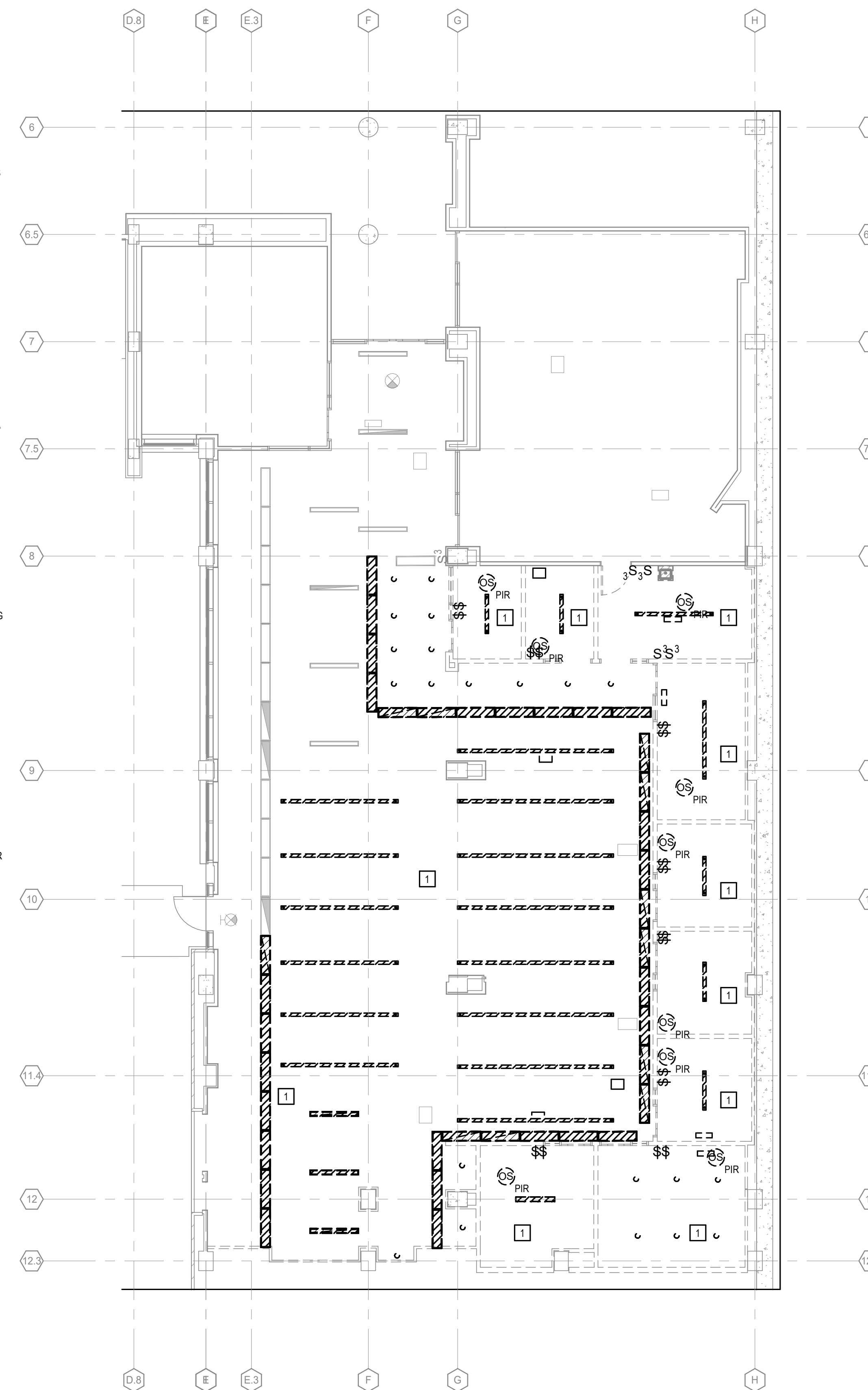
1 GROUND FLOOR DEMO PLAN - POWER AND SPECIAL SYSTEMS
SCALE: 1/8" = 1'-0"

1. 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.

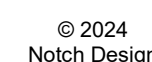
2. ALL PENETRATIONS OF EXISTING FLOORS AND FIRE RATED WALL OR SMOKE PARTITIONS SHALL BE PATCHED & REPAIRED AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATING OR SMOKE INFILTRATION INTEGRITY OF THE WALL. ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, AND DUCTWORK SHALL BE FIRE SEALED TIGHT TO THE WALL OR FLOOR PENETRATIONS TO MAINTAIN THE REQUIRED CODE COMPLIANT FIRE RATING.
3. 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.
4. 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.
5. 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.
6. CONTRACTOR SHALL MAINTAIN ALL CIRCUITS RUNNING THROUGH THE AREA OF DEMOLITION AND THE AREA OF NEW CONSTRUCTION.

DEMOLITION KEY NOTES

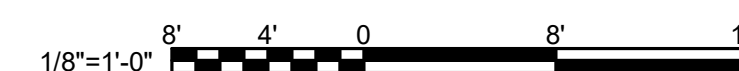
1. DEMOLISH EXISTING LUMINARIES SHOWN (WITH SUPPORTS) AND ASSOCIATED CONTROLS IN HATCH. CONTRACTOR SHALL REMOVE CONDUIT AND WIRING BACK TO THE LAST JUNCTION BOX SERVING EXISTING LUMINAIRES TO REMAIN. LINING OF EXISTING SHALL REMAIN AND BE MADE READY FOR RE-CONNECTION. THE DISPOSAL OF FLUORESCENT LAMPS, 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"



ELECTRICAL
DEMOLITION
PLANS

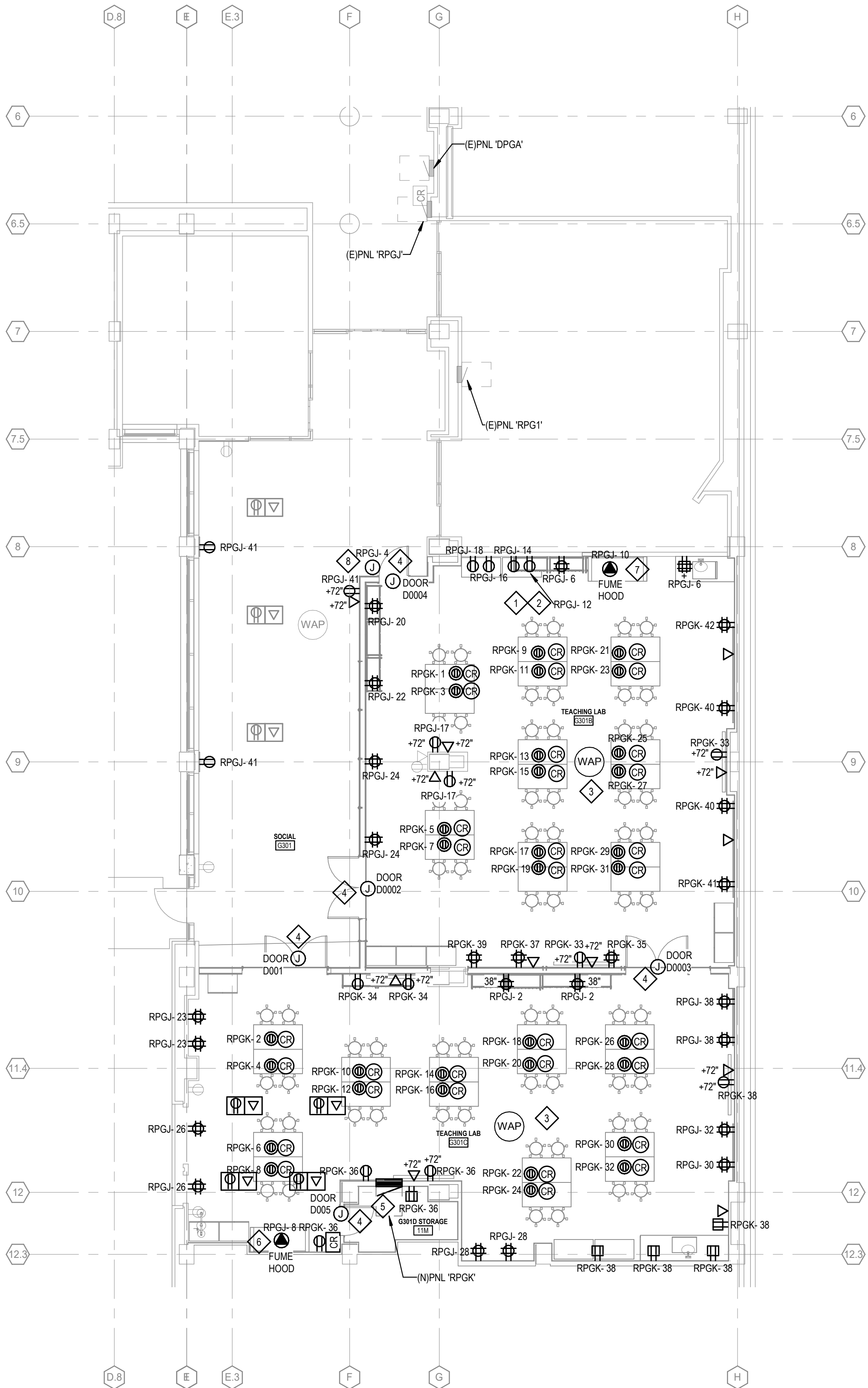


NEW WORK GENERAL NOTES

- EXISTING CIRCUIT NUMBERING IN FIELD 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.
- 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.
- EXISTING ELECTRICAL PANELBOARDS SHALL REMAIN. PANELBOARDS AND ASSOCIATED CIRCUITS SHALL BE MODIFIED AS NOTED IN THE 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.
- REFER TO DRAWING E001 AND E002 FOR GENERAL PROJECT NOTES, SYMBOLS & ABBREVIATIONS.
- REFER TO DRAWING E500 FOR ELECTRICAL DETAILS.

POWER AND SYSTEMS NEW WORK KEYED NOTES:

- PROVIDE NEW POWER/DATA DEVICE (S) AS SHOWN. EXTEND 2 #12 GND IN 3/4" CONDUIT FROM EXISTING CIRCUIT MADE AVAILABLE FROM DEMO AND RE-CONNECT TO NEW WHERE APPLICABLE. OTHERWISE PROVIDE NEW CIRCUITING FROM CIRCUIT SHOWN TO NEW RECEPTACLE LOCATIONS. FOR DATA OUTLETS: PROVIDE DOUBLE GANG BOX AND FLUSH SINGLE GANG MUD RING. PROVIDE 1" EMT CONDUIT FROM BOX TO ABOVE FINISHED CEILING AND PROVIDE 90 BEND WITH INSULATING BUSHING, AND 100 LBS. TEST NYLON PULL STRING. PROVIDE DUAL CATEGORY 6A OUTLET AND ASSOCIATED DATA CABLING (CAT 6A) FOR COMPLETE INSTALLATION.
- PROVIDE 20A 120V CORD REEL (BY LEGRAND 1000 SERIES OR APPROVED EQUIVALENT) WITH 4 AC OUTLETS AND USB PORTS. CORD REEL SHALL BE TERMINATED WITH QUAD RECEPTACLE. PROVIDE MOUNTING HARDWARE TO MOUNT REEL BASE ALUMINUM FRAMING. PROVIDE FLUSH CEILING MOUNTED DUPLEX RECEPTACLE FOR SERVICE TO CORD REEL.
- REINSTALL CEILING WIRELESS ACCESS POINT(S). COORDINATE LOCATIONS WITH OWNER.
- PROVIDE 120V POWER TO ELECTRIC DOOR HARDWARE. PROVIDE JUNCTION BOX AND ASSOCIATED RACEWAY FOR DOOR POWER SUPPLY. PROVIDE SINGLE GANG BOX AS REQUIRED FOR DOOR HARDWARE PROVIDED BY OTHERS. REFER TO DETAILS SHOWN ON E501. COORDINATE WITH ARCHITECT AS NECESSARY.
- PROVIDE NEW RECESSED ELECTRICAL PANEL 'RPGK'; 100A MCB, 208Y/120V, 22KAIC IN NEW STORAGE ROOM 11M. PROVIDE FEEDER BREAKER IN EXISTING DISTRIBUTION PANEL 'DPGA' TO SERVER NEW BRANCH PANEL 'RPGK'.
- PROVIDE POWER CONNECTION FOR FUME HOOD AS SHOWN. PROVIDE JUNCTION BOX FOR POWER ACCESS ABOVE THE FUME HOOD. COORDINATE FUME HOOD CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. EXHAUST FANS THAT SUPPLY FUME HOODS ARE ON EMERGENCY POWER.
- ADD ALTERNATE 01: PROVIDE POWER CONNECTION FOR FUME HOOD AS SHOWN. PROVIDE JUNCTION BOX FOR POWER ACCESS ABOVE THE FUME HOOD. COORDINATE FUME HOOD FINAL CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR. EXHAUST FANS THAT SUPPLY FUME HOODS ARE ON EMERGENCY POWER.
- PROVIDE 120V POWER TO DOOR POWER SUPPLY. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DOOR HARDWARE SUPPLIER AND ARCHITECT PRIOR TO INSTALLATION AND ROUGH-IN.



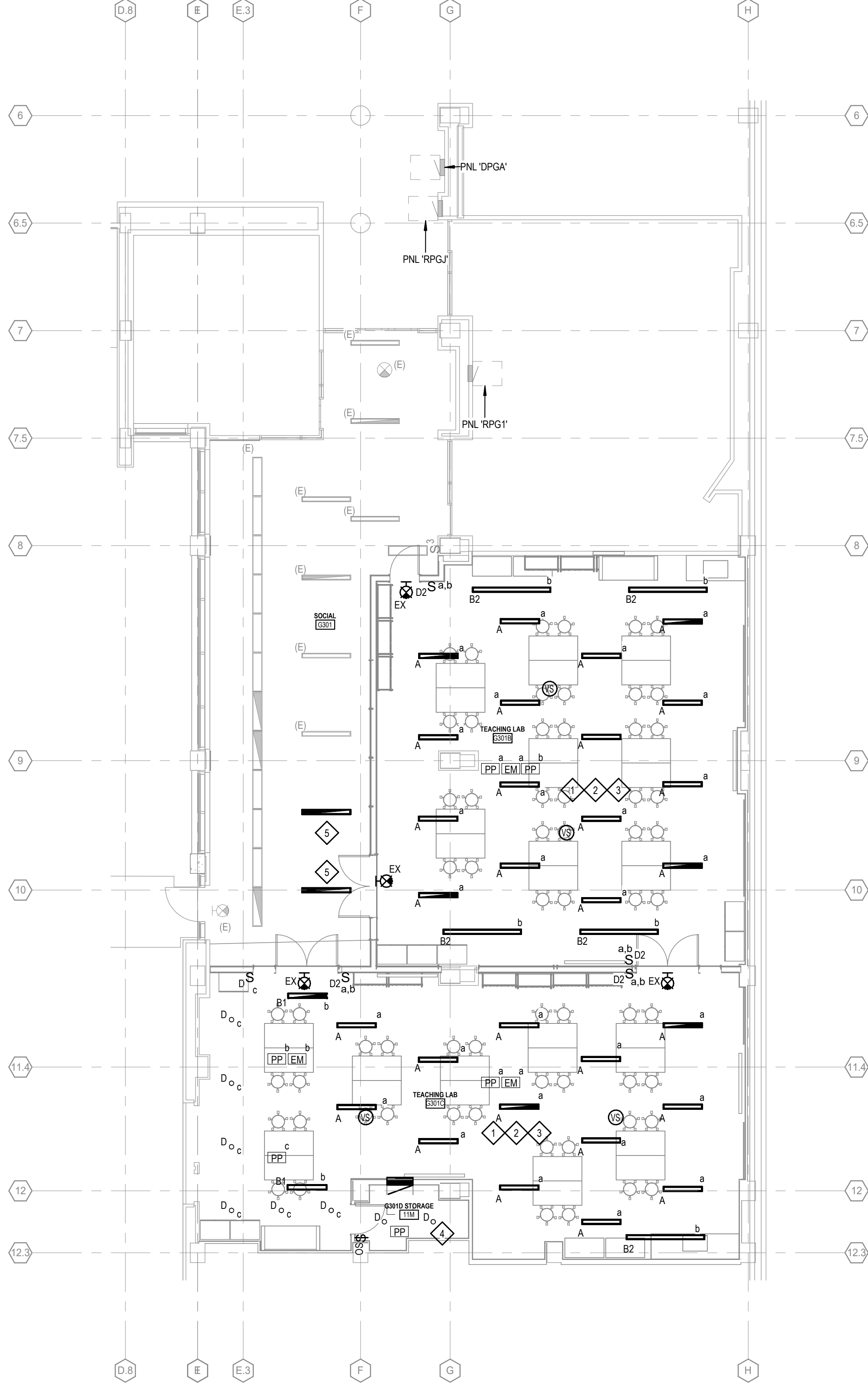
1 ELECTRICAL NEW WORK PLAN - POWER & SYSTEMS
SCALE: 1/8" = 1'-0"

NEW WORK GENERAL NOTES

- EXISTING CIRCUIT NUMBERING IN FIELD 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.
- 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.
- EXISTING ELECTRICAL PANELBOARDS SHALL REMAIN. PANELBOARDS AND ASSOCIATED CIRCUITS SHALL BE MODIFIED AS NOTED IN THE 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.
- REFER TO DRAWING E001 AND E002 FOR GENERAL PROJECT NOTES, SYMBOLS & ABBREVIATIONS.
- REFER TO DRAWING E500 FOR ELECTRICAL DETAILS.

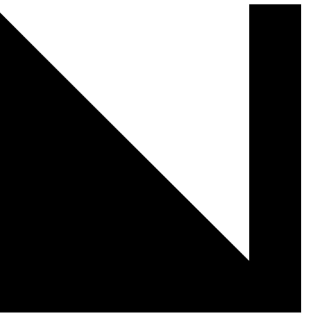
LIGHTING NEW WORK KEYED NOTES:

- PROVIDE NEW LIGHT FIXTURE (S) AND ASSOCIATED CONTROLS AS SHOWN. EXTEND 2 #12 GND IN 3/4" CONDUIT FROM EXISTING CIRCUIT MADE AVAILABLE FROM DEMO AND RE-CONNECT TO NEW WHERE APPLICABLE. OTHERWISE PROVIDE NEW CIRCUITING FROM CIRCUIT SHOWN TO NEW LIGHT LOCATIONS. FOR CIRCUIT(S) EXCEEDING THE LENGTHS NOTED IN THE PLANS AND SPECS, UPSIZE ACCORDINGLY. TYPICAL OF ALL LIGHT FIXTURES. WIRE EMERGENCY LIGHTING FIXTURES AHEAD OF ANY SWITCHING. (TYPICAL)
- LIGHTING CONTROL INSTALLATION SHALL INCLUDE CONTROLS, DATA CABLING, AND 0-10V DIMMING WIRING ETC. AS NECESSARY FOR COMPLETE AND FUNCTIONAL INSTALLATION. (TYPICAL FOR ALL SPACES). ALL LIGHTING SHALL BE CONTROLLED (NORMAL AND EMERGENCY).
- LIGHTING CONTROL BASIS OF DESIGN: POWER PACK FOR NORMAL POWER LUMINAIRES SHALL BE ACUTY nLIGHT nPP16D EFP. POWER PACK FOR EMERGENCY POWER LUMINAIRES SHALL BE ACUTY nLIGHT nPP16D ER EFP (PROVIDED WITH TEST SWITCH); OCCUPANCY SENSORS SHALL BE ACUTY nLIGHT nCM PDT 10 RJ; SWITCHES SHALL BE ACUTY nLIGHT nPDMA DX WH REVIEWED EQUIVALENT IS ACCEPTABLE. (TYPICAL FOR ALL SPACES)
- WALL SWITCH OCCUPANCY SENSOR: SENSOR SWITCH WSXA PDT. COLOR TO BE CONFIRMED WITH OWNER AND ARCHITECT AT SUBMITTAL STAGE. REVIEWED EQUIVALENT IS ACCEPTABLE.
- REINSTALL EXISTING LUMINAIRES WITH BATTERY PACKS SALVAGED FROM EXISTING CEILING TILES. EXTEND EXISTING WIRING AND CONDUIT AS NECESSARY FOR POWER AND CONTROLS. WIRE EMERGENCY LIGHTING FIXTURES AHEAD OF ANY SWITCHING.



2 ELECTRICAL NEW WORK PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

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



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SCD REVIEW	9/19/25
2nd SCD REVIEW	10/24/25
Construction Set	11/17/25

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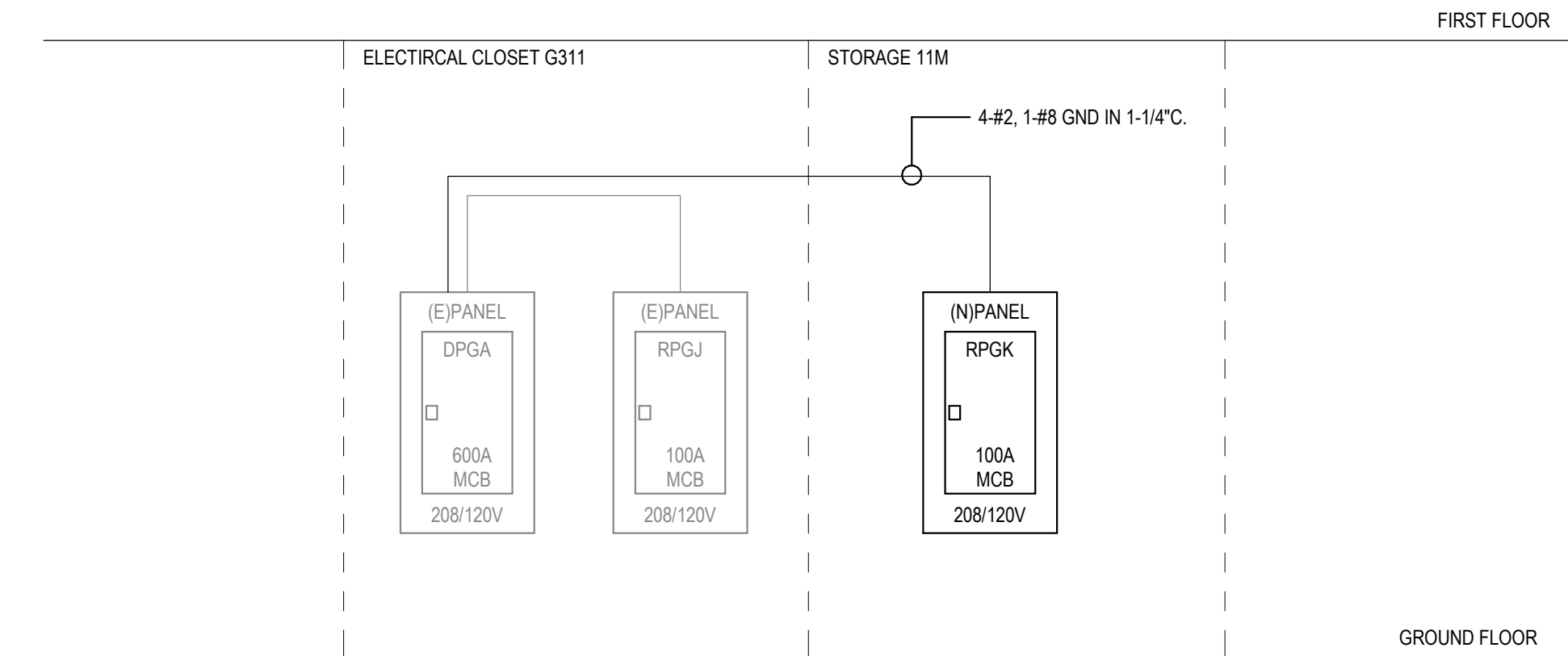
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11-17-25

JOB NO.
10021-0001

DWG NO.

E200

ELECTRICAL NEW
WORK PLANS



ELECTRICAL PARTIAL RISER DIAGRAM

SCALE: NTS

EXISTING PANELBOARD DPGA																							
SERVED FROM: DPG				AMPERE RATING: 600 A				VOLTAGE (L-L): 208				PHASE: 3				22 ,000 MINIMUM RMS				SYMMETRICAL AIC RATING			
ENCLOSURE RATING: NEMA 1				MAIN BREAKER: 600 A				VOLTAGE (L-N): 120				WIRE: 4											
MOUNTING: SURFACE				LUG OPTIONS: MCB				LOCATION: ELEC CLOSET OUTSIDE CLASSROOM G311															
CIR. NO.	LOAD DESCRIPTION	LTG	H/C	MOT	KIT	REC	MISC	PHASE	G	CND	BRKR	BRKR	PHASE	G	CND	BRKR	BRKR	PHASE	G	CND	LOAD (KVA)	LOAD DESCRIPTION	CIR. NO.
								SIZE	SIZE	IN.	RTG	RTG	SIZE	SIZE	IN.	RTG	RTG	SIZE	SIZE	IN.	LTG	H/C	
1							0.90					A											2
3	RGPH						0.90	EXISTING			100/3	B	100/3										4
5							2.16					A											6
7							3.60					A											8
9	RGPH						3.78	EXISTING			100/3	B	100/3										10
11							3.42					A											12
13							5.76					A											14
15	RGPH						5.40	EXISTING			100/3	B	100/3										16
17							5.58					A											18
19												A											20
21	SPARE										100/3	B	225/3										22
23												A											24
25												A											26
27	SPARE										100/3	B	225/3										28
29												C											30
31												C											32
33												B											34
35												A											36
37												A											38
39												B											40
41												C											42

PANELBOARD NOTES:		LOAD TOTALS (KVA):		CONNECTED		DEMAND		LOAD BALANCE	
1. EXISTING PANELBOARD IS EATON PRL4.		LIGHTING/CONTINUOUS		0.00		0.00		PHASE A 97.71%	
2. ITEMS IN BOLD IN HATCH DENOTE MODIFICATION.		HEATING/COOLING		0.00		0.00		PHASE B 96.00%	
3. EXISTING LOAD ARE BASED ON AS-BUILTS.		MOTORS		0.00		0.00		PHASE C 106.29%	
		KITCHEN		0.00		0.00			
		RECEPTACLES		0.00		0.00		TOTAL DEMAND AMPS x 87	
		MISCELLANEOUS		31.50		31.50		LARGEST UNBALANCE PHASE %: 1.0629	
LARGEST MOTOR (KVA): _____				31.50		31.50			
								LARGEST UNBALANCE PHASE AMPS: 92.93	

MODIFIED PANELBOARD DPGA																							
SERVED FROM: DPG				AMPERE RATING: 600 A				VOLTAGE (L-L): 208				PHASE: 3				22 ,000 MINIMUM RMS				SYMMETRICAL AIC RATING			
ENCLOSURE RATING: NEMA 1				MAIN BREAKER: 600 A				VOLTAGE (L-N): 120				WIRE: 4											
MOUNTING: RECESSED				LUG OPTIONS: MCB				LOCATION: ELEC CLOSET OUTSIDE CLASSROOM G311															
CIR. NO.	LOAD DESCRIPTION	LTG	H/C	MOT	KIT	REC	MISC	PHASE	SIZE	GND	BRKR	RTG	PHASE	SIZE	GND	BRKR	RTG	PHASE	SIZE	GND	LOAD (KVA)	LOAD DESCRIPTION	CIR. NO.
1							0.90																2
3	RGPH						0.90	EXISTING			100/3	A	B	100/3									4
5							2.16						C										6
7							3.60						A										8
9	RPGI						3.78	EXISTING			100/3	B	A	100/3									10
11							3.42						C										12
13		0.00	0.00	0.00	0.00	4.70	1.50						A										14
15	RPGI	0.00	0.00	0.00	0.00	4.06	1.50	EXISTING			100/3	B	100/3										16
17		0.00	0.00	0.00	0.00	7.38	0.00						A										18
19		0.00	0.00	0.00	0.00	6.22	0.00						C										20
21	RPKG	0.00	0.00	0.00	0.00	5.36	0.00	SEE RISER			100/3	B	225/3										22
23		0.00	0.00	0.00	0.00	5.68	0.00						A										24
25													B										26
27	SPARE												B	225/3									28
29													A										30
31													B										32
33													C										34
35																							36
37																							38
39													B										40
41													C										42

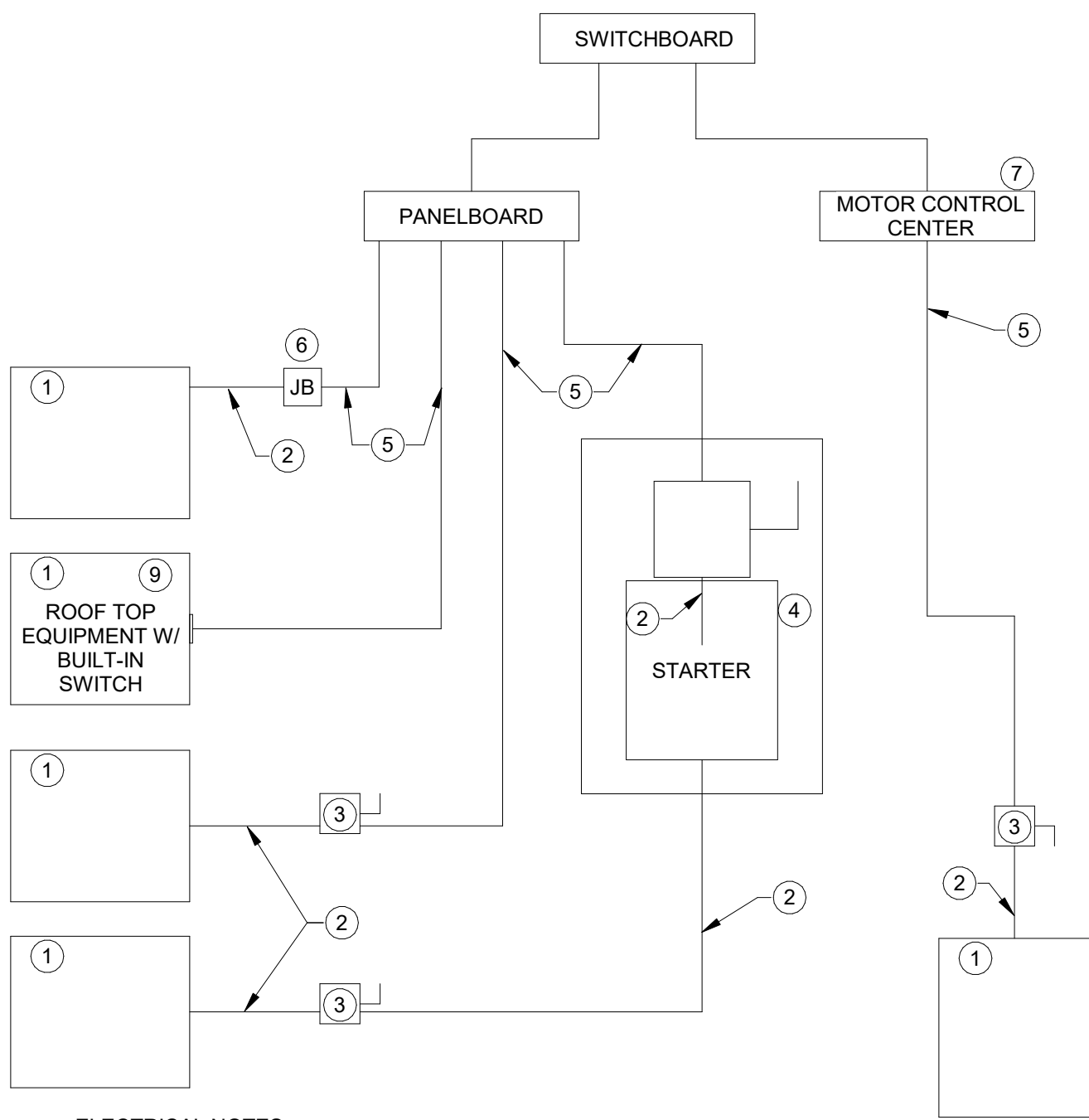
PANELBOARD NOTES:		LOAD TOTALS (KVA):		CONNECTED		DEMAND		LOAD BALANCE	
1. EXISTING PANELBOARD IS EATON PRL4.		LIGHTING/CONTINUOUS		0.00		0.00		PHASE A 91.79%	
2. ITEMS IN BOLD IN HATCH DENOTE MODIFICATION.		HEATING/COOLING		0.00		0.00		PHASE B 98.19%	
3. EXISTING LOAD ARE BASED ON AS-BUILTS.		MOTORS		0.00		0.00		PHASE C 110.02%	
		KITCHEN		0.00		0.00		TOTAL DEMAND AMPS x	
		RECEPTACLES		37.54		23.77		115	
		MISCELLANEOUS		17.76		17.76		LARGEST UNBALANCE PHASE %:	
		TOTAL		55.30		41.53		1.1002	
LARGEST MOTOR (KVA):								LARGEST UNBALANCE PHASE AMPS: 126.82	

EXISTING PANELBOARD																								RPGJ			
SERVED FROM: DPGA				AMPERE RATING: 100 A				VOLTAGE (L-L): 208				PHASE: 3				22 ,000 MINIMUM RMS				SYMMETRICAL AIC RATING							
ENCLOSURE RATING: NEMA 1				MAIN BREAKER: 100 A				VOLTAGE (L-N): 120				WIRE: 4															
MOUNTING: RECESSED				LUG OPTIONS: MCB				LOCATION: ELEC CLOSET OUTSIDE CLASSROOM G311																			
CIR. NO.	LOAD DESCRIPTION	LTG	H/C	MOT (KVA)	REC	MISC	PHASE	G	CND	BRKR	BRKR	PHASE	G	CND	BRKR	BRKR	PHASE	G	CND	LOAD (KVA)	LOAD DESCRIPTION	CIR. NO.					
1	EWCR RM. G301				0.36		EXISTING	201/A	A	201/3	EXISTING										REC RM G301B	2					
3	REC RM G301				0.18		EXISTING	201/B	B	201/3	EXISTING										EWCR RM RM G301	4					
5	REC RM G301				0.36		EXISTING	201/A	C	201/3	EXISTING										REC RM G301B	6					
7	REC RM G301				0.36		EXISTING	201/A	B	201/3	EXISTING										REC RM G301B	8					
9	FLOOR BOX RM. G301				0.36		EXISTING	201/A	B	201/3	EXISTING										REC RM G301B	10					
11	FLOOR BOX RM. G301				0.36		EXISTING	201/C	C	201/3	EXISTING										REC RM G301B	12					
13	FLOOR BOX RM. G301				0.36		EXISTING	201/A	A	201/3	EXISTING										REC RM G301B	14					
15	REC RM G301				0.36		EXISTING	201/B	B	201/3	EXISTING										REC RM G301B	16					
17	REC RM G301				0.36		EXISTING	201/C	C	201/3	EXISTING										REC RM G301B	18					
19	FLOOR BOX RM. G301				0.36		EXISTING	201/A	A	201/3	EXISTING										REC RM G301B	20					
21	REC RM G301				0.36		EXISTING	201/B	B	201/3	EXISTING										REC RM G301B	22					
23	REC RM G301				0.36		EXISTING	201/C	C	201/3	EXISTING										REC RM G301B	24					
25	SMR W WALL RM. G301A				0.36		EXISTING	201/B	B	201/3	EXISTING										REC RM G301A	26					
27	SMR W WALL RM. G301A				0.36		EXISTING	201/A	A	201/3	EXISTING										REC RM G301A	28					
29	SMR W WALL RM. G301A				0.36		EXISTING	201/C	C	201/3	EXISTING										REC RM G301A	30					
31	SMR E WALL RM. G301A				0.36		EXISTING	201/A	A	201/3	EXISTING										REC RM G301A	32					
33	SMR E WALL RM. G301A				0.36		EXISTING	201/B	B	201/3	EXISTING										REC RM G301A	34					
35	SMR E WALL RM. G301A				0.36		EXISTING	201/C	C	201/3	EXISTING										REC RM G301A	36					
37	REC RM G301A				0.72		EXISTING	201/A	A	201/3	EXISTING										REC RM G301A	38					
39	REC RM G301A				0.72		EXISTING	201/B	B	201/3	EXISTING										REC RM G301A	40					
41	REC RM G301A				0.72		EXISTING	201/C	C	201/3	EXISTING										REC RM G301A	42					

PANELBOARD NOTES:		LOAD TOTALS (KVA):		CONNECTED		DEMAND		LOAD BALANCE	
1. EXISTING PANELBOARD IS EATON PRL4.		LIGHTING/CONTINUOUS		0.00		0.00		PHASE A 103.23%	
2. ITEMS IN BOLD IN HATCH DENOTE DEMOLITION.		HEATING/COOLING		0.00		0.00		PHASE B 96.77%	
		MOTORS		0.00		0.00		PHASE C 100.00%	
		KITCHEN		0.00		0.00		TOTAL DEMAND AMPS x 37	
		RECEPTACLES		16.74		13.37		LARGEST UNBALANCE PHASE %: 1.0323	
		MISCELLANEOUS		0.00		0.00		LARGEST UNBALANCE PHASE AMPS: 38.31	
		TOTAL		16.74		13.37			

MODIFIED Panelboard: RPGJ

VOLTAGE: 208/120 Wye</

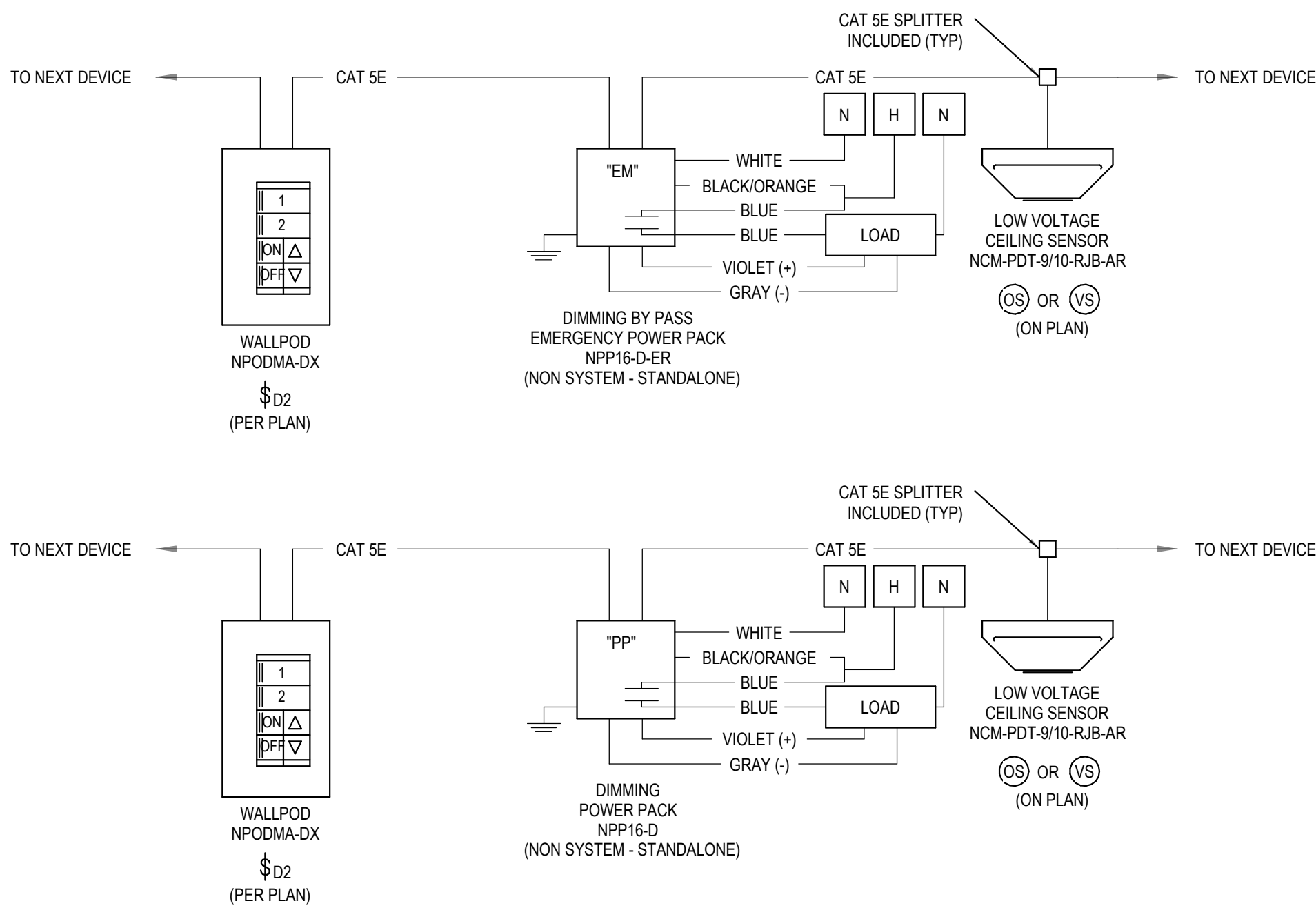


ELECTRICAL NOTES:

- 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

SCALE: NTS

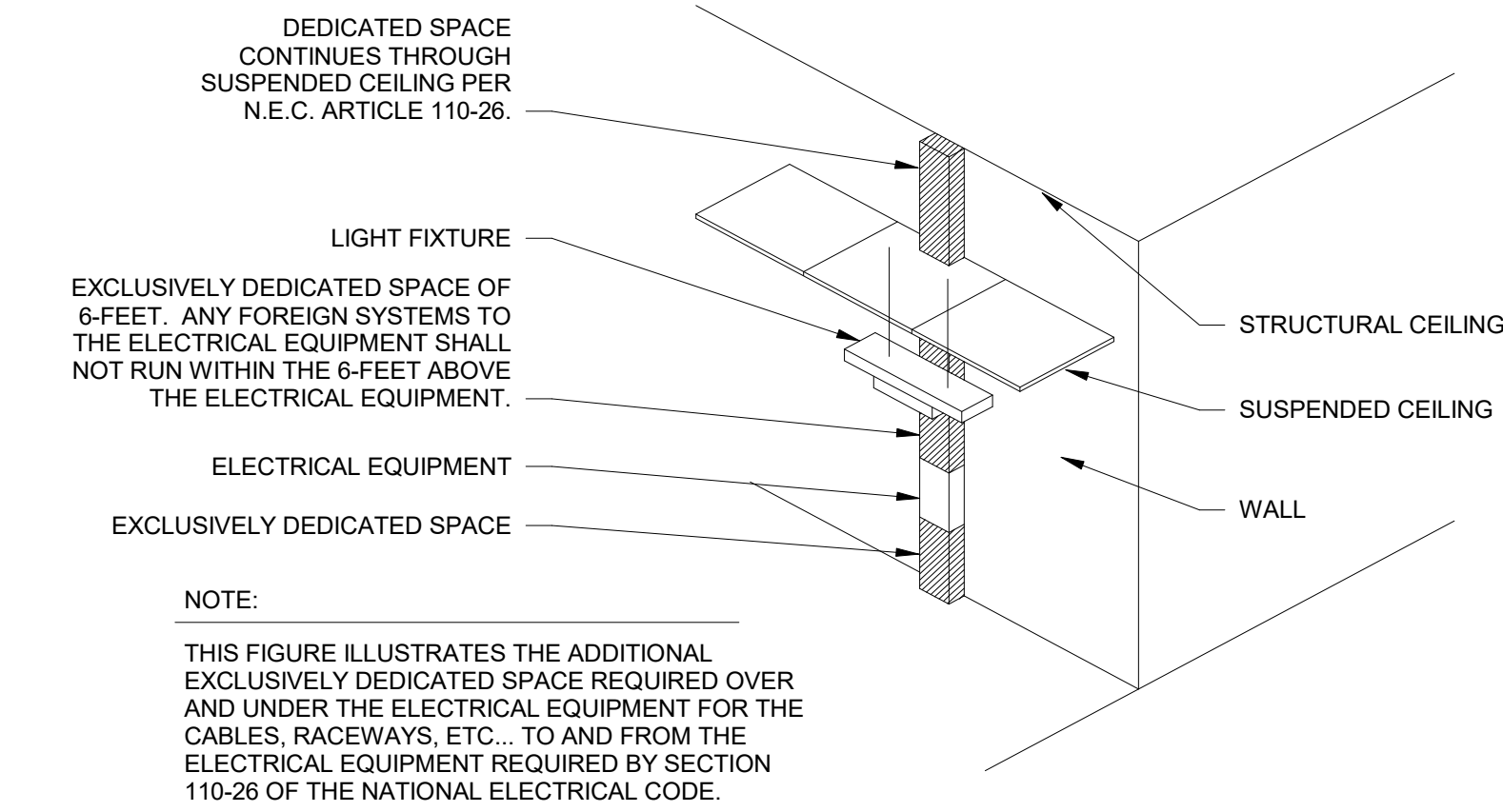


NOTES:

- 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

SCALE: NTS



ELECTRICAL EQUIPMENT DEDICATED SPACE

SCALE: NTS

VOLTAGE TO GROUND NOMINAL	MINIMUM CLEAR DISTANCE (INCHES)		
	CONDITION: 1	2	3
0 - 150	36	36	36
151 - 600	36	42	48

WHERE THE "CONDITIONS" ARE AS FOLLOWS:

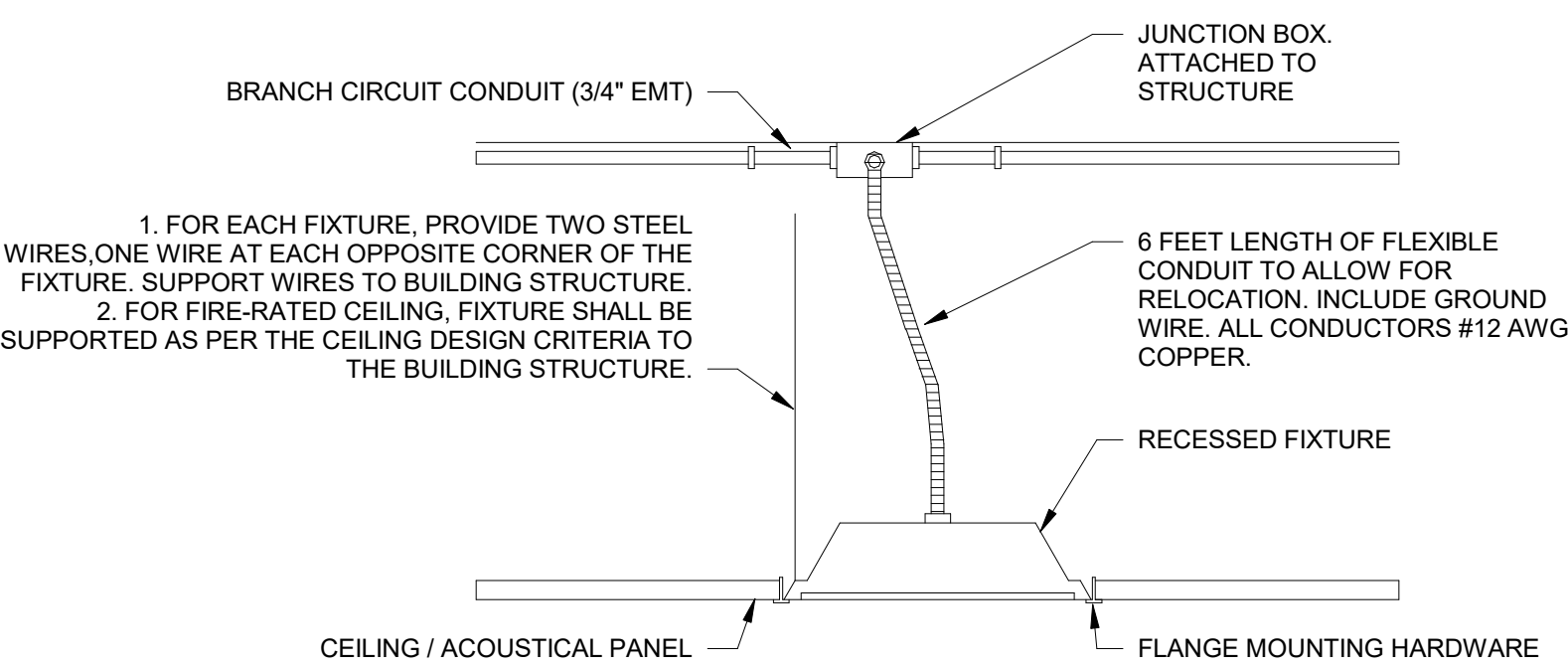
- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
- EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
- EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTE:

THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-26 OF THE NATIONAL ELECTRICAL CODE.

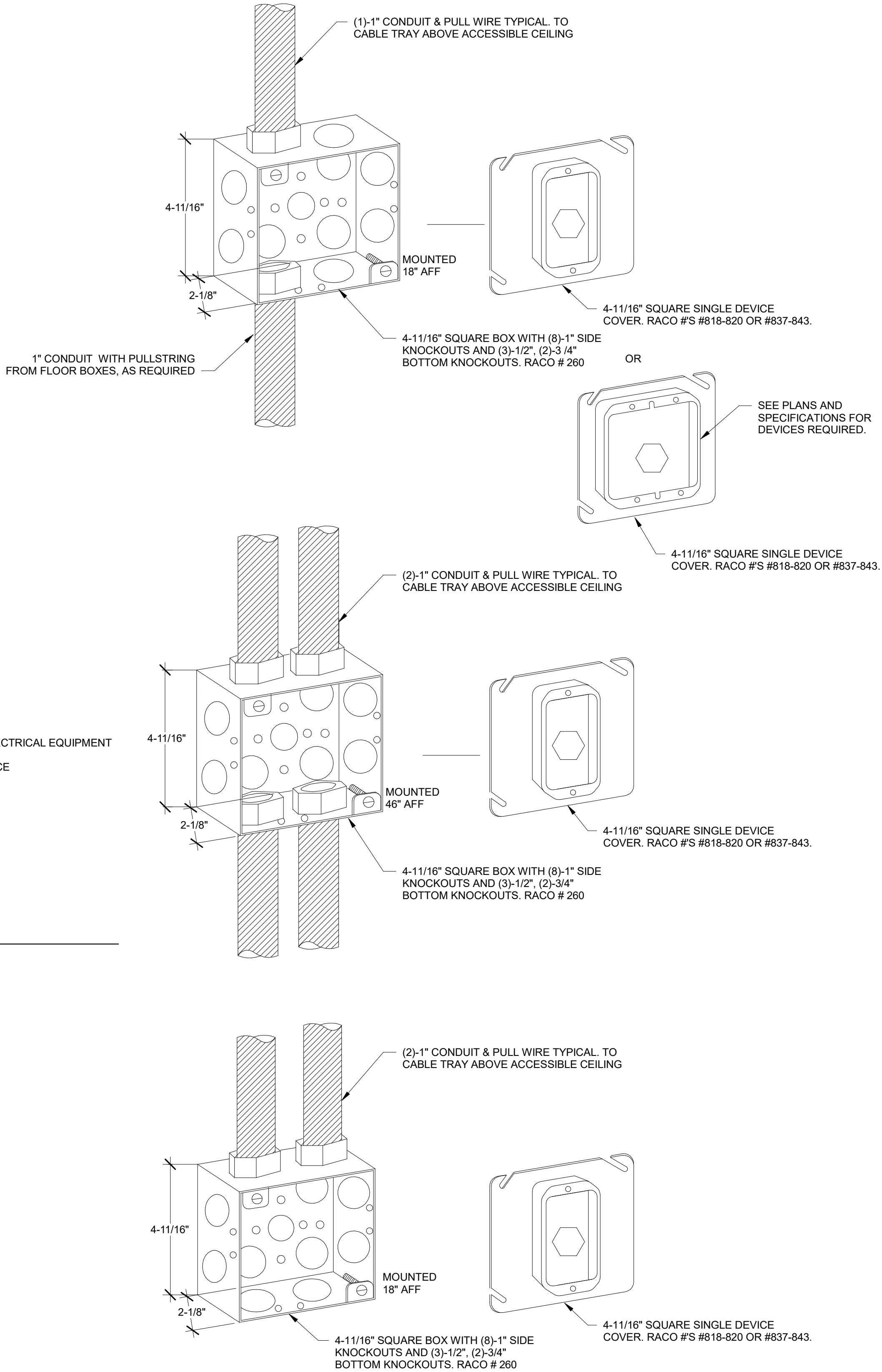
ELECTRICAL EQUIPMENT WORKING CLEARANCE

SCALE: NTS



LIGHT FIXTURE CEILING MOUNTING DETAIL

SCALE: NTS



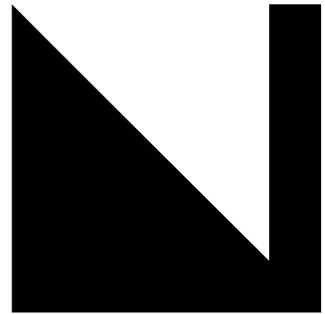
OTHER ACCEPTABLE MANUFACTURERS ARE APPLETON, T&B, AND MIDLAND ROSS/STEEL CITY

NOTES:

- CONTRACTOR PROVIDE WALL BOXES AND CONDUIT ONLY. CONDUIT TO EXTEND AND TURN OUT ABOVE CEILING OR AN ACCESSIBLE SPACE ABOVE ADJACENT CEILING. 1" MIN. PHONE/DATA CABLING BY TELECOMMUNICATIONS CONTRACTOR.
- BOX AND RING NUMBERS SHOWN FOR STUD WALL CONSTRUCTION.
- SUBSTITUTE MASONRY BOX EQUIVALENT WHERE LOCATED IN CMU OR CONCRETE WALLS.

TELE/DATA OUTLET BOX DETAIL

SCALE: NTS



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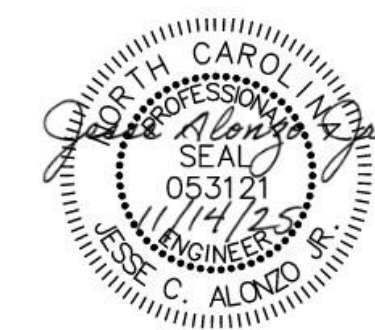


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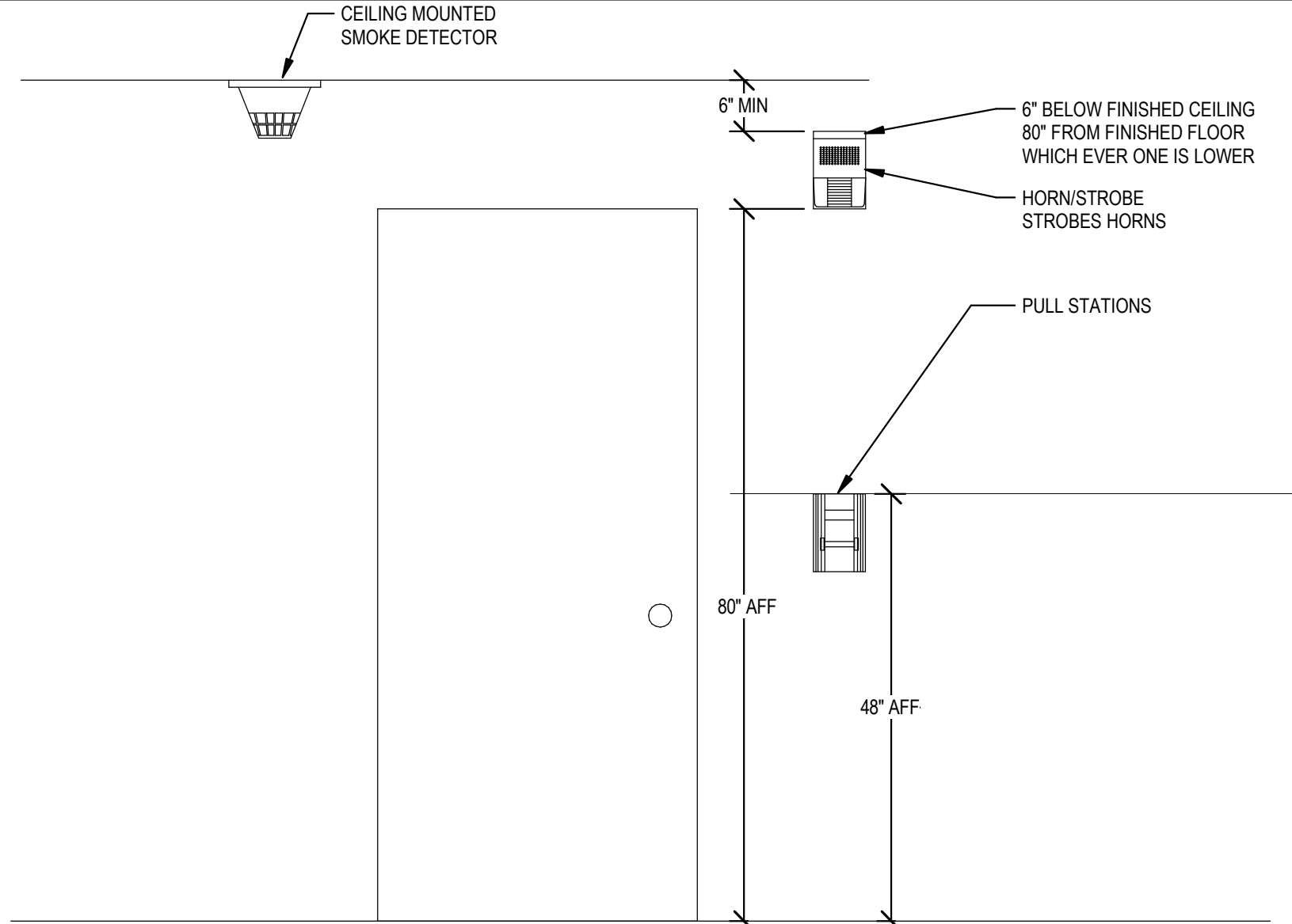
E500

ELECTRICAL
DETAILS

FIRE ALARM MATRIX

SCALE: NTS

System Inputs	System Outputs																									
	Actual Evacuation Signals - All Floors	Actual Ground Floor Alarm Indicator	Actual 1st Floor Alarm Indicator	Actual 2nd Floor Alarm Indicator	Actual 3rd Floor Alarm Indicator	Actual 4th Floor Alarm Indicator	Actual Penthouse Alarm Indicator	Actual Common Alarm Signal Indicator	Actual Common Alarm Signal	Actual Common Supervisory Signal Indicator	Actual Audible Supervisory Signal	Actual Common Trouble Signal Indicator	Actual Audible Common Trouble Signal	Display/Print Change of Status	Transient Fire Alarm Signal To Supervising Station	Transient Supervisory Signal to Supervising Station	Transient Trouble Signal to Supervising Station	Release Magnetically Held Smoke Doors	Unlock All Exit Doors	Close Associated Smoke/Fire Dampers in Raised Wall	Shutdown AHU-1 Supply Fans, Close Smoke Isolation Damper, Close Associated Fire/Smoke Dampers	Shutdown AHU-2 Supply Fans, Close Smoke Isolation Damper, Close Associated Fire/Smoke Dampers	Shutdown AHU-3 Supply Fans, Close Smoke Isolation Damper, Close Associated Fire/Smoke Dampers	Shutdown AHU-4 Supply Fans, Close Smoke Isolation Damper, Close Associated Fire/Smoke Dampers	Shutdown AHU-5 Supply Fans, Close Smoke Isolation Damper, Close Associated Fire/Smoke Dampers	Shutdown AHU-6 Supply Fans, Close Smoke Isolation Damper, Close Associated Fire/Smoke Dampers
Manual Pull Station Ground Floor	X	X						X	X					X	X			X	X							
Manual Pull Station First Floor	X		X					X	X					X	X			X	X							
Manual Pull Station Second Floor	X			X				X	X					X	X			X	X							
Manual Pull Station Third Floor	X				X			X	X					X	X			X	X							
Manual Pull Station Fourth Floor	X					X		X	X					X	X			X	X							
Manual Pull Station Penthouse	X						X	X	X					X	X			X	X							
Smoke Detector Ground Floor	X	X						X	X					X	X			X	X							
Smoke Detector First Floor	X		X					X	X					X	X			X	X							
Smoke Detector Second Floor	X			X				X	X					X	X			X	X							
Smoke Detector Third Floor	X				X			X	X					X	X			X	X							
Smoke Detector Fourth Floor	X					X		X	X					X	X			X	X							
Smoke Detector Penthouse	X						X	X	X					X	X			X	X							
Smoke Detector Elev. Lobby G																										
Smoke Detector Elev. Lobby 1																										
Smoke Detector Elev. Lobby 2																										
Smoke Detector Elev. Lobby 3																										
Smoke Detector Elev. Lobby 4																										
Smoke Detector Elev. Lobby P																										
Heat Detector Ground Floor	X	X						X	X					X	X			X	X							
Heat Detector First Floor	X		X					X	X					X	X			X	X							
Heat Detector Second Floor	X			X				X	X					X	X			X	X							
Heat Detector Third Floor	X				X			X	X					X	X			X	X							
Heat Detector Fourth Floor	X					X		X	X					X	X			X	X							
Heat Detector Penthouse	X						X	X	X					X	X			X	X							
Duct Mounted Smoke Detectors At Fire/Smoke Dampers	X						X	X	X					X	X			X	X	X						
AHU-1 Duct Mounted Smoke Detector	X						X	X	X					X	X			X	X		X					
AHU-2 Duct Mounted Smoke Detector	X						X	X	X					X	X			X	X			X				
AHU-3A Duct Mounted Smoke Detector	X					X		X	X					X	X			X	X				X			
AHU-3B Duct Mounted Smoke Detector	X					X		X	X					X	X			X	X					X		
AHU-4 Duct Mounted Smoke Detector	X						X	X	X					X	X			X	X						X	
Sprinkler Main Waterflow	X	X						X	X					X	X			X	X							
Sprinkler Ground Floor Zone Waterflow	X	X												X	X			X	X							
Sprinkler First Floor Zone Waterflow	X		X											X	X			X	X							
Sprinkler Second Floor Zone Waterflow	X			X										X	X			X	X							
Sprinkler Third Floor Zone Waterflow	X				X									X	X			X	X							
Sprinkler Fourth Floor Zone Waterflow	X					X								X	X			X	X							
Sprinkler Penthouse Zone Waterflow	X						X	X	X					X	X			X	X							
Sprinkler Tamper Switch										X	X			X		X		X	X							
Fire Alarm AC Power Failure												X	X	X				X	X							
Fire Alarm Low Battery												X	X	X				X	X							
Open Circuit												X	X	X				X	X							
Ground Fault												X	X	X				X	X							
Notification Appliance Circuit Short												X	X	X				X	X							
General Alarm (Keman)																		X								



1 DEVICE MOUNTING HEIGHT DETAIL

SCALE: NTS

FIRE ALARM GENERAL NOTES

- THE WIRING REQUIREMENTS CHANGE FROM MANUFACTURER TO MANUFACTURER. VERIFY WIRING WITH THE FIRE ALARM MANUFACTURER AND INSTALL AS DIRECTED AND APPROVED.
- 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.
- 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.
- 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 APPLIANCES.
- 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 907.5.2.1.1.

FIRE ALARM

WALL	CEILING
X	X HORN AND STROBE FIRE ALARM SYSTEM. X = cd
X	X SPEAKER AND STROBE FIRE ALARM SYSTEM. X = cd
F	F HORN ONLY, FIRE ALARM SYSTEM.
S	S SPEAKER FIRE ALARM SYSTEM
X=cd	X=cd FIRE ALARM STROBE ONLY DEVICE. X=cd
F	F MANUAL FIRE ALARM PULL STATION
DD	DD 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.
L	L FLUSH MOUNTED CEILING FIRE ALARM SYSTEM DUCT DETECTOR REMOTE TEST STATION AND ALARM INDICATING LAMP.
R	R FIRE ALARM SYSTEM RELAY. SUBSCRIPT, WHEN SHOWN, INDICATES ZONE.
SD	SD LOCAL 120v SMOKE DETECTOR.
S	S SYSTEM SMOKE DETECTOR.
S	S SYSTEM SMOKE DETECTOR WITH SOUNDER BASE
S#	S# SYSTEM SMOKE DETECTOR WITH STROBE BASE
SE	SE SYSTEM SMOKE DETECTOR FOR ELEVATOR RECALL.
HD	HD LOCAL 120v HEAT DETECTOR.
H	H SYSTEM HEAT DETECTOR.
HR	HR SYSTEM HEAT DETECTOR. RATE OF RISE
HF#	HF# SYSTEM HEAT DETECTOR. FIXED TEMP, #* = ACTIVATING TEMP
CO	CO CARBON MONOXIDE DETECTOR
CO2	CO2 CARBON DIOXIDE DETECTOR
FS	FS SYSTEM FIRE WATER FLOW MONITORING SWITCH.
TS	TS SYSTEM FIRE WATER TAMPER MONITORING SWITCH.
HO	HO MAGNETIC DOOR HOLD OPEN. PROVIDE 120v AND FIRE ALARM INTERFACE. HOLD OPEN WILL DE-ENERGIZE ALLOWING DOOR TO CLOSE WHEN FIRE ALARM IS ACTIVATED
FACP	FACP FIRE ALARM CONTROL PANEL
FAA	FAA FIRE ALARM ANNUNCIATOR PANEL
FAPS	FAPS FIRE ALARM POWER SUPPLY
FATC	FATC FIRE ALARM TERMINAL CABINET
CMM	CMM FIRE ALARM ADDRESSABLE CONTROL MODULE
ZMM	ZMM FIRE ALARM ZONE INTERFACE MODULE WITH RELAY
PS	PS PRESSURE SWITCH FOR DRY TYPE SPRINKLER SYSTEM. FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
GDS	GDS GAS DETECTION SYSTEM
FSD	FSD FIRE SMOKE DAMPER (BY MC). PROVIDE DUCT DETECTOR, 120V POWER, CONTROL MODULE & INTERFACE MODULE TO FIRE ALARM SYSTEM. COORDINATE FINAL COUNTS AND LOCATIONS WITH M.C.

MOUNTING HEIGHT SCHEDULE

4-INCHES BELOW THE FINISHED CEILING TO TOP OF DEVICE AND NOT MORE THAN 12-INCHES TO BOTTOM OF DEVICE.	TOP OF WALL MOUNTED HEAT OR SMOKE DETECTORS
6'-8" AFF OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER (BOTTOM OF LENS, MIN.) 96-INCHES AFF MAXIMUM.	TOP OF FIRE ALARM HORNS/STROBES
6'-0"	TOP OF FIRE ALARM CONTROL PANEL
4'-0" MAX	TOP OF PULL HANDLE ON FIRE ALARM PULL STATIONS
0'-0"	FINISHED FLOOR



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2nd SCD REVIEW	10/24/25
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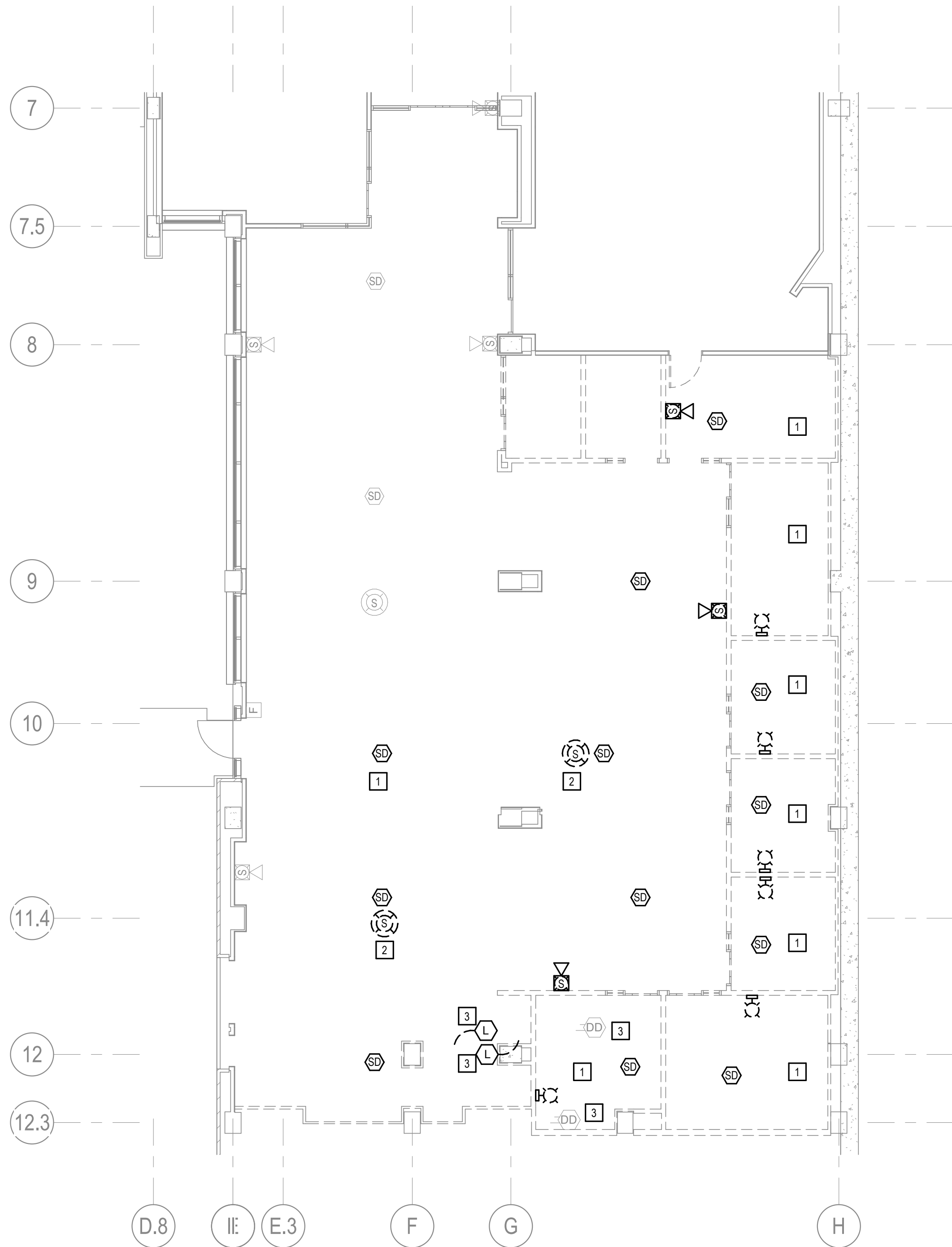
ELECTRICAL FIRE
ALARM LEGEND
SHEET

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 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

- EXISTING HORN STROBE/STROBE, SMOKE DETECTOR SHOWN IN HATCH SHALL BE REMOVED. EXISTING CONDUIT(S) AND CABLING 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.

NEW WORK KEYED NOTES:

- PROVIDE NEW FIRE ALARM NOTIFICATION DEVICE, SMOKE DETECTOR(S), CABLING, RACEWAY, ETC. AS REQUIRED FOR COMPLETE INSTALLATION. DEVICE AND WIRING SHALL MATCH EXISTING AND BE UL LISTED FOR USE WITH EXISTING SYSTEM. CONTRACTOR SHALL PROVIDE CALCULATIONS TO CONFIRM POWER SUPPLY/CIRCUIT WILL ACCOMMODATE MODIFICATIONS AS REQUIRED.
- FIRE ALARM SYSTEM OPERATING MATRIX SHALL MATCH EXISTING. COORDINATE WITH OWNER. TYPICAL FOR ALL SPACES. FIRE ALARM SYSTEM SHALL BE TESTED PER NFPA 72 2013 SECTION 14.4.2 - REACCEPTANCE TESTING UPON COMPLETION OF THE INSTALLATION. NEW VISUAL NOTIFICATION DEVICES SHALL SYNC WITH ANY VISUAL NOTIFICATION DEVICES OUTSIDE PROJECT PARAMETERS IF TWO (2) OR MORE CAN BE SEEN. COORDINATE PRE-TEST OF FIRE ALARM SYSTEM WITH OWNER.
- UPON COMPLETION OF THE INSTALLATION, PROVIDE TESTING OF THE FIRE ALARM SYSTEM PER NFPA 72 REQUIREMENTS AS WELL AS PROVIDING AN UPDATED NFPA 72 2013 RECORD OF COMPLETION FOR THE CURRENT VERSION OF THE CODE BEING UTILIZED BY SCO. THIS TESTING SHALL INCLUDE 100% TESTING OF ALL NEW DEVICES AS WELL AS 10% OF THE EXISTING DEVICES, ETC. TYPICAL OR ALL AREAS OF FIRE ALARM WORK. COORDINATE ALL TESTING AND SCHEDULING WITH OWNER.
- NEW LOCATION OF EXISTING RAIL LIGHTS. EXTEND CONDUIT AND CONDUCTOR AS NECESSARY.
- NEW SMOKE DETECTOR SHALL BE MOUNTED TO DECK.



2 GROUND FLOOR NEW WORK PLAN - FIRE ALARM
SCALE: 1/8" = 1'-0"



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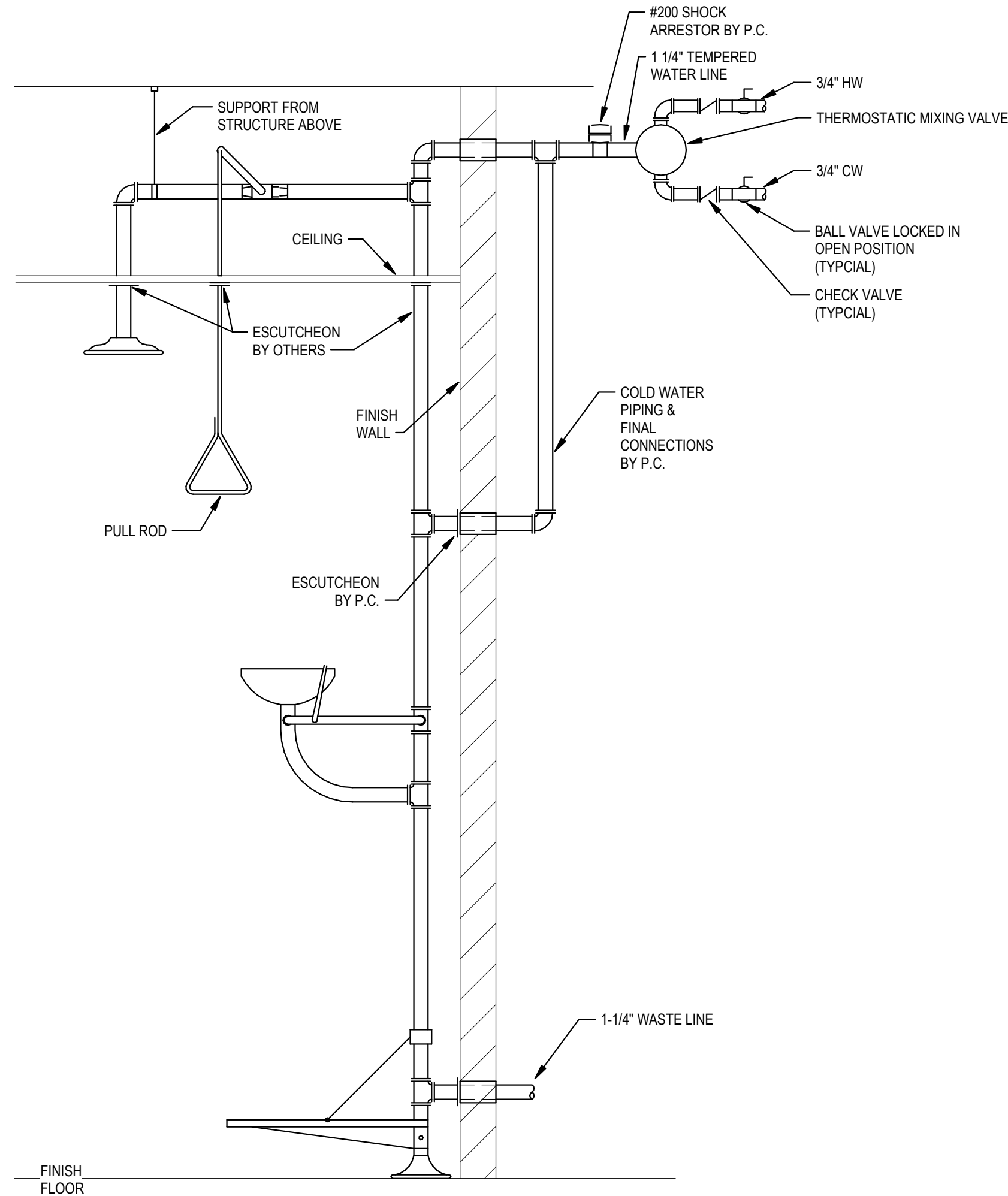
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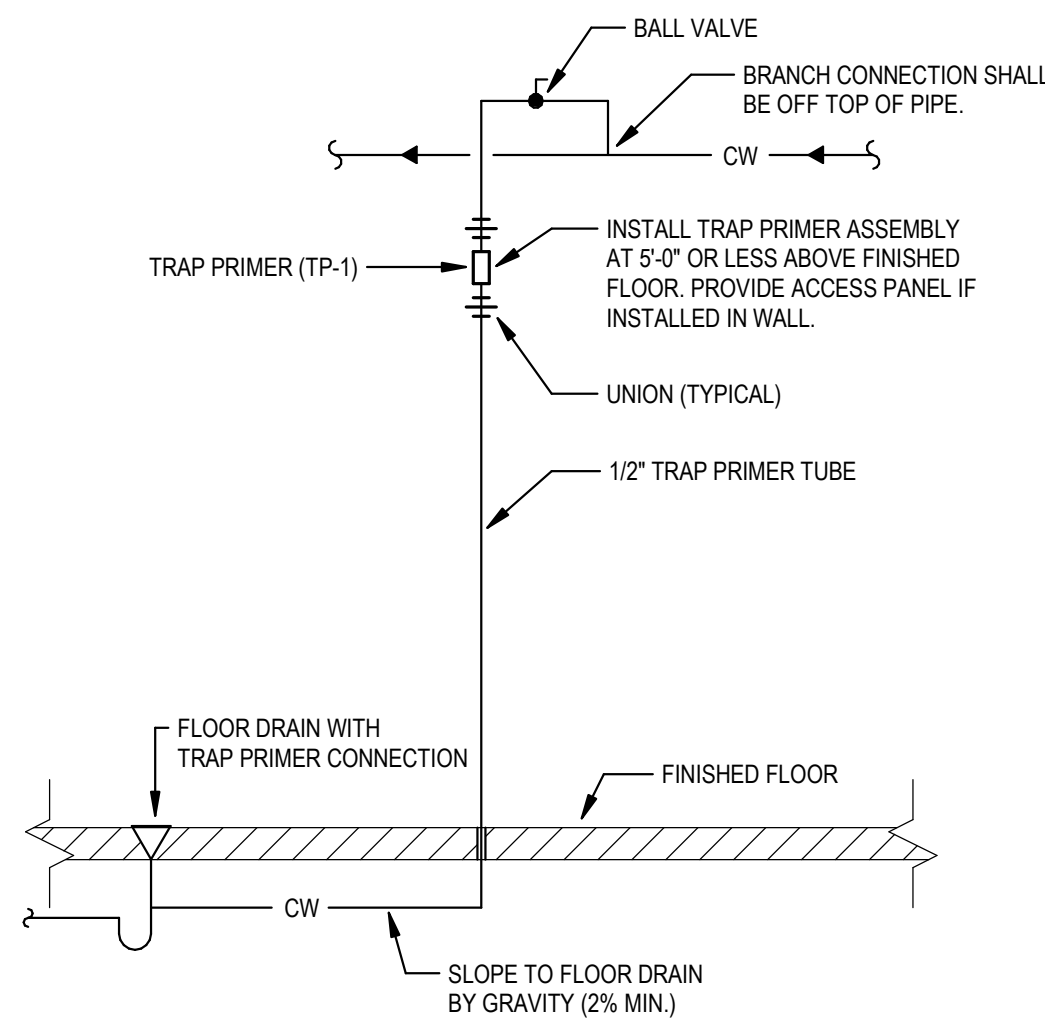
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FIRE ALARM DEMO
AND NEW WORK
PLANS



1 EMERGENCY SHOWER/EYEWASH WITH THERMOSTATIC MIXING VALVE

SCALE: NTS



- 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.

2 TRAP PRIMER DETAIL

SCALE: NTS

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 CONCEALED 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		PLUMBING SYMBOLS	
	PIPE DROP		PIPE UP
	AV		HOSE BIBB
	AW		WALL HYDRANT
	COLD WATER		NON-FREEZE WALL HYDRANT
	COMPRESSED AIR		MEDICAL COMPRESSED AIR OUTLET
	DEIONIZED WATER		MEDICAL VACUUM OUTLET W/SLIDE
	EXISTING TO BE REMOVED		OXYGEN OUTLET
	FOUNDATION DRAIN		FIRE HYDRANT
	GAS		MANHOLE
	GREASE LADEN WASTE BELOW GRADE		GAS VALVE BOX
	GREASE LADEN WASTE ABOVE GRADE		WATER VALVE BOX
	HOT WATER SUPPLY (120")		AREA DRAIN (No. indicates type)
	HOT WATER RETURN (120")		FLOOR DRAIN (No. indicates type)
	HOT WATER SUPPLY (140")		FLOOR SINK (No. indicates type)
	HOT WATER RETURN (140")		ROOF DRAIN
	INSTRUMENT AIR		CLEAN OUT
	LABORATORY AIR		FLOOR CLEANOUT
	LABORATORY WASTE		WATER HAMMER ARRESTOR
	LIQUEFIED PETROLEUM GAS (PROPANE)		ACID VENT THRU ROOF
	MEDICAL COMPRESSED AIR		CLINIC SERVICE SINK
	MEDICAL VACUUM / SUCTION		DECK DRAIN (No. indicates type)
	NITROGEN GAS		DRINKING FOUNTAIN (No. indicates type)
	NITROUS OXIDE GAS		EMERGENCY SHOWER
	OVERFLOW RAIN CONDUCTOR		EMER SHOWER/EYEWASH COMBINATION
	MEDICAL OXYGEN GAS		EMERGENCY EYEWASH
	PRESSURE SANITARY SEWER		ELECTRIC WATER COOLER (No. indicates type)
	PUMP DISCHARGE		EXISTING
	RAIN WATER CONDUCTOR		ICE MAKER OUTLET BOX (No. indicates type)
	SANITARY SEWER BELOW GRADE		LAVATORY (No. indicates type)
	SANITARY SEWER ABOVE GRADE		MOP RECEPTOR
	SANITARY VENT PIPING		MIXING VALVE (No. indicates type)
	STORM SEWER ABOVE GRADE		NON-FREEZE ROOF HYDRANT
	STORM SEWER BELOW GRADE		NON-FREEZE WALL HYDRANT
	TEMPERED WATER		OVERFLOW RAIN CONDUCTOR
	VACUUM LINE		ROOF DRAIN (No. indicates type)
	WASTE ANESTHETIC GAS DISPOSAL		COUNTER SINK (No. indicates type)
	AIR VENT		SANITARY
	BALANCING VALVE		SHOWER (No. indicates type)
	BACKFLOW PREVENTER		URINAL (No. indicates type)
	BALL VALVE		VENT
	BUTTERFLY VALVE		VALVE CABINET
	CAPPED CONNECTION		VENT THRU ROOF
	CHECK VALVE		WASTE
	GAS PRESSURE REGULATOR		WATER CLOSET (No. indicates type)
	GATE VALVE		WASHING MACHINE SUPPLY & DRAIN
	MIXING VALVE		MEDICAL GAS ZONE VALVE BOX
	PLUG VALVE		CONNECT TO EXISTING PIPING
	PRESSURE GAUGE		
	PRESSURE REGULATING VALVE		
	P-TRAP		
	RELIEF VALVE		
	SOLENOID VALVE		
	STRAINER		
	THERMOMETER		
	UNION		
	VALVE IN RISER		

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 WORKMANS, OR PEDESTRIANS 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 MANUFACTURERS 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 THEN 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.

PLUMBING SHEET INDEX

P001	PLUMBING DATA SHEET
P111	SANITARY - GROUND FLOOR PLAN
P211	DOMESTIC - GROUND FLOOR PLAN
P311	PLUMBING ALT 1 - GROUND FLOOR PLAN



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2nd SCD REVIEW	10/24/25
Construction Set	11/17/25

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LOCATION
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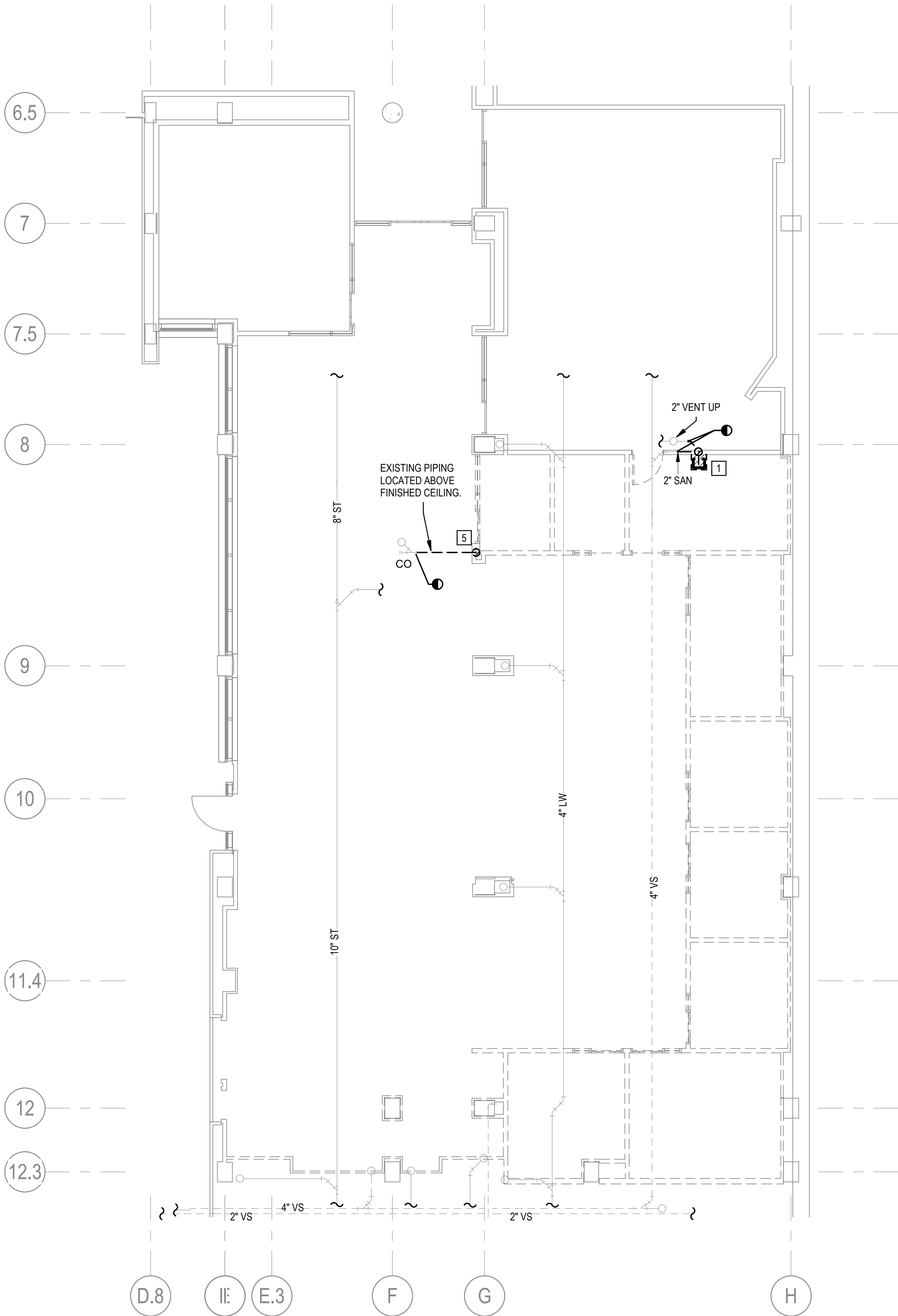
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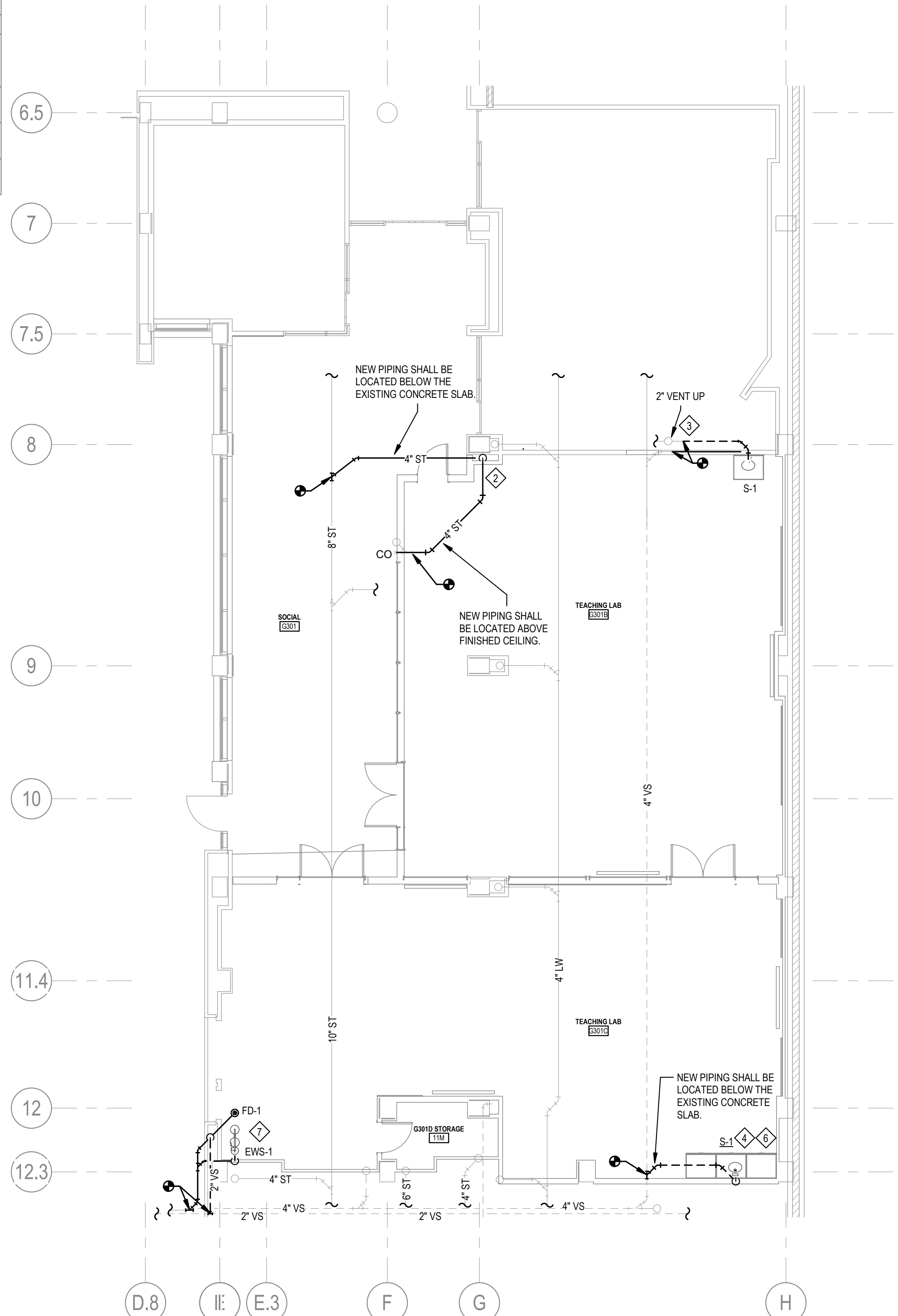
P001

PLUMBING DATA
SHEET

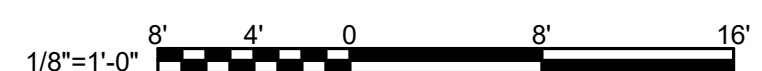


2 SANITARY GROUND DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

KEYED NOTES	
1	REMOVE EXISTING FIXTURE AND ALL CONNECTED PIPING BACK TO MAIN OR LAST FIXTURE SERVED AS SHOWN ON PLANS. COORDINATE EXTENTS OF DEMOLITION WITH NEW WORK PLANS.
2	PROVIDE NEW 4" STORM LINE. NEW LINE SHALL DROP DOWN TO BELOW CONCRETE SLAB. ROUTE NEW LINE BELOW THE EXISTING CONCRETE SLAB AND CONNECT TO THE EXISTING 4" STORM DRAIN LINE.
3	CONNECT NEW LINE OF SIZE INDICATED INTO MAIN AS SHOWN.
4	PROVIDE AND INSTALL NEW PLUMBING FIXTURE AS SCHEDULED ON P001. PROVIDE NEW DECK MOUNTED PVC GOOSENECK FAUCET WITH SERRATED NOZZLE AND HANDLE. MOUNT ADJACENT TO NEW SINK.
5	REMOVE EXISTING 4" STORM DRAIN THAT DROPS DOWN IN EXISTING WALL. REMOVE EXISTING LINE BELOW CONCRETE SLAB AND CAP.
6	PROVIDE AND INSTALL NEW AAV IN CASEWORK BELOW SINK. CONTRACTOR TO VERIFY INSTALLATION HEIGHT OF AAV TO BE ABOVE P-TRAP FOR SINK.
7	PROVIDE NEW EMERGENCY EYEWASH/SHOWER (EWS-1) AND FLOOR DRAIN AND ASSOCIATED BRANCH PIPING.



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



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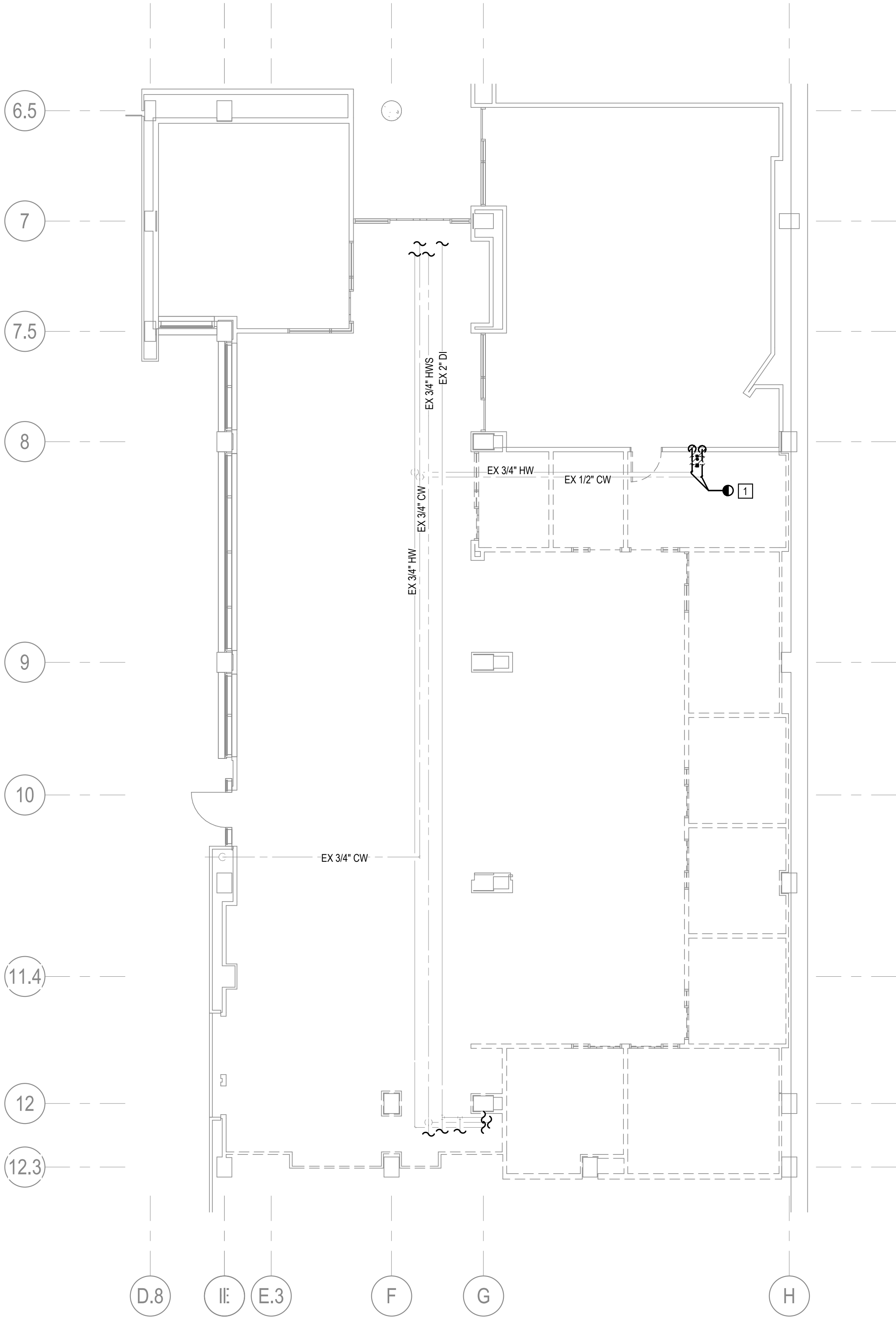
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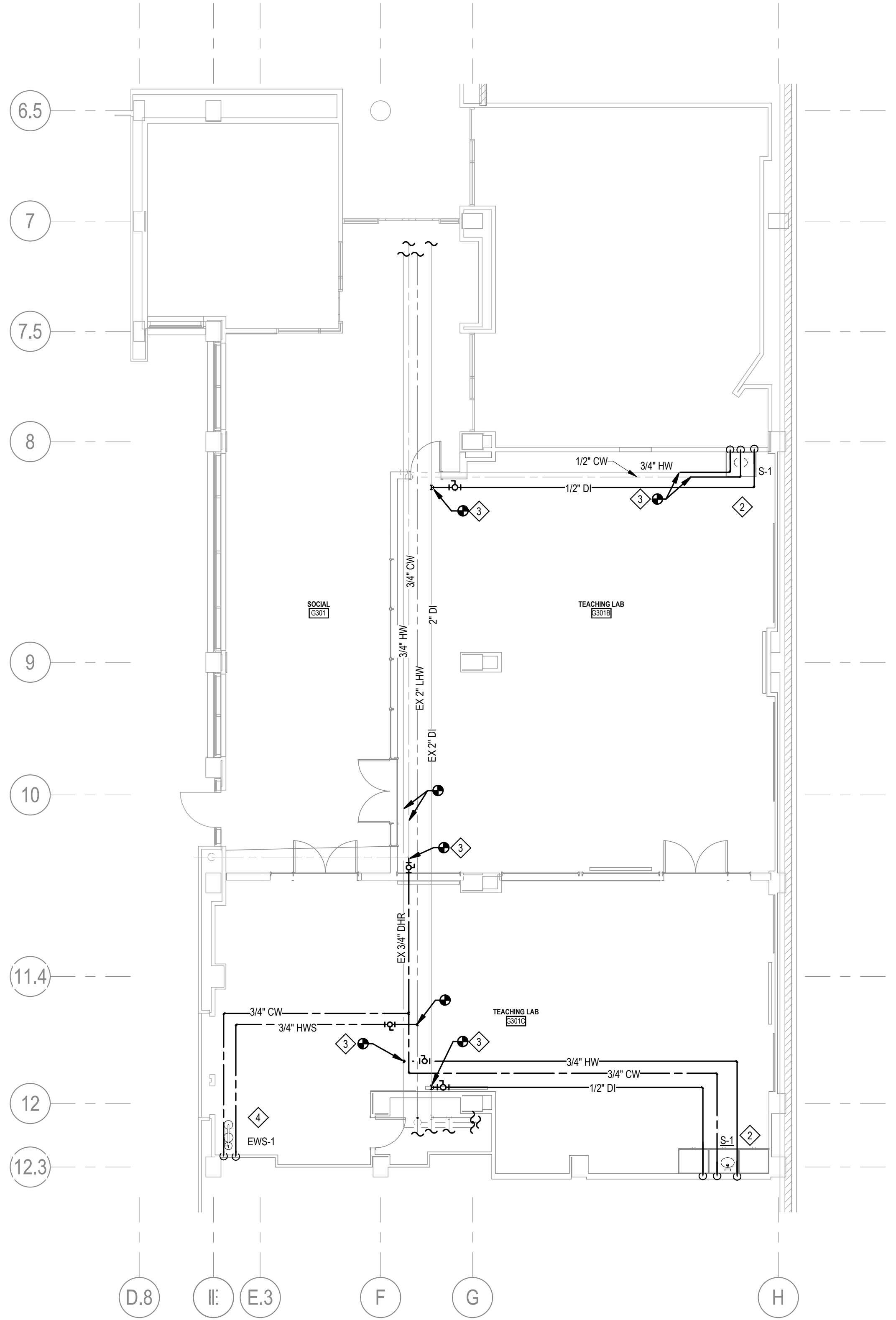
P111

SANITARY -
GROUND FLOOR
PLAN

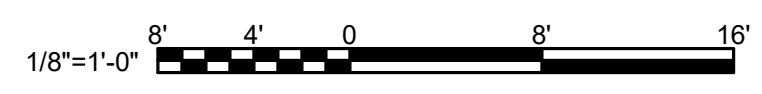


2 PRESSURE PIPNG GROUND DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

KEYED NOTES	
1	REMOVE EXISTING FIXTURE AND ALL CONNECTED PIPING BACK TO MAIN OR LAST FIXTURE SERVED AS SHOWN ON PLANS. COORDINATE EXTENTS OF DEMOLITION WITH NEW WORK PLANS.
2	PROVIDE AND INSTALL NEW PLUMBING FIXTURE AS SCHEDULED ON P001. PROVIDE NEW DECK MOUNTED PVC GOOSENECK FAUCET WITH SERRATED NOZZLE AND HANDLE. MOUNT ADJACENT TO NEW SINK.
3	CONNECT NEW LINE OF SIZE INDICATED INTO MAIN AS SHOWN.
4	PROVIDE NEW EMERGENCY EYEWASH/SHOWER (EWS-1) AND FLOOR DRAIN AND ASSOCIATED BRANCH PIPING.



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



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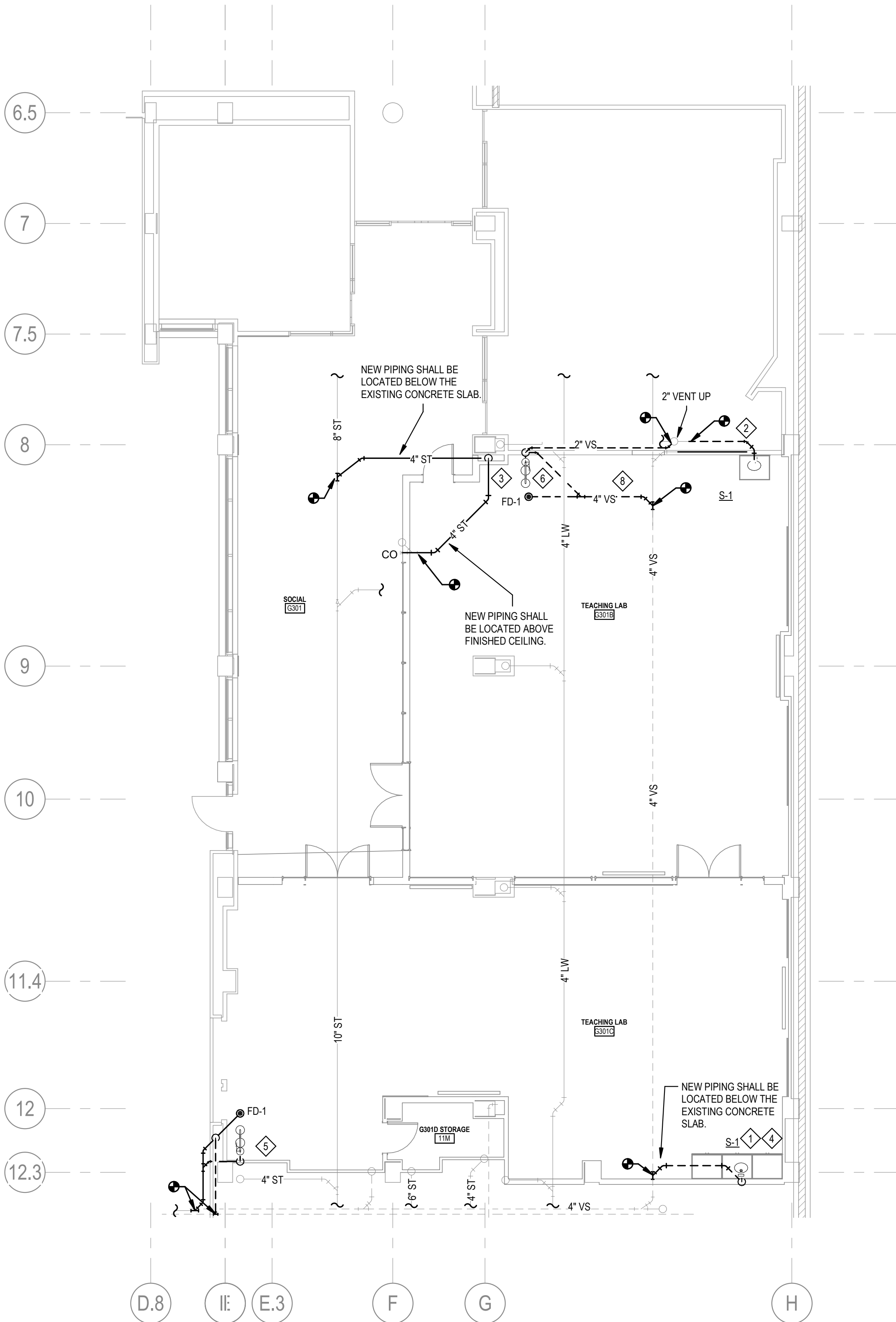
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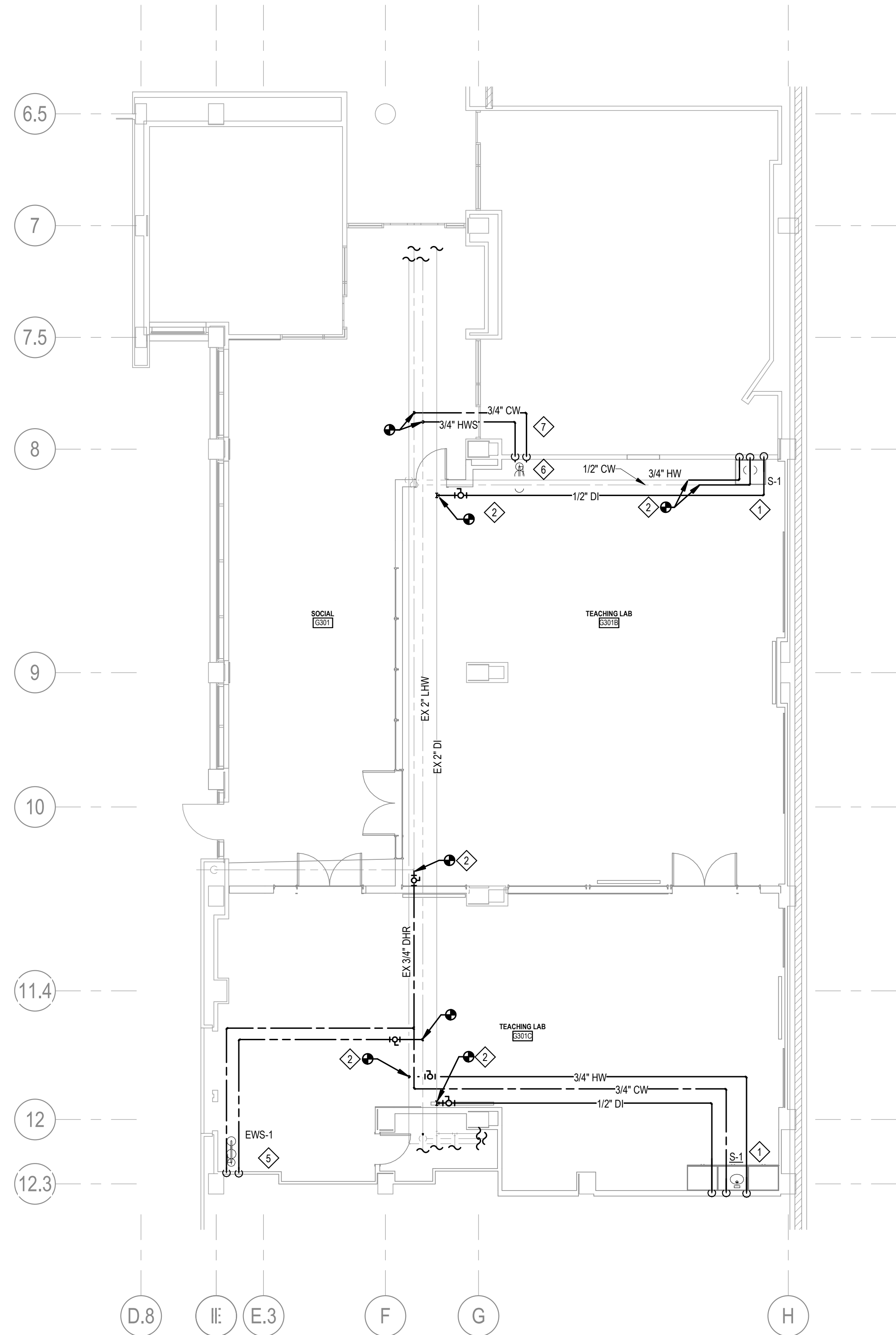
P211

DOMESTIC -
GROUND FLOOR
PLAN

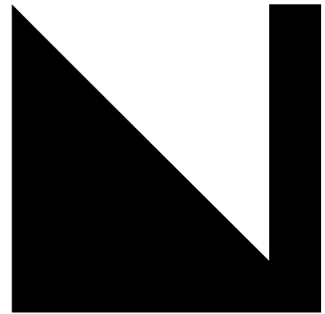
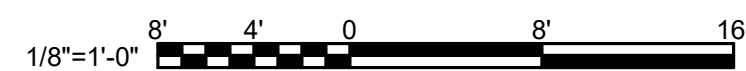


1 SANITARY GROUND PLAN ALTERNATE 1
SCALE: 1/8" = 1'-0"

KEYED NOTES	
1	PROVIDE AND INSTALL NEW PLUMBING FIXTURE AS SCHEDULED ON P001. PROVIDE NEW DECK MOUNTED PVC GOOSENECK FAUCET WITH SERRATED NOZZLE AND HANDLE. MOUNT ADJACENT TO NEW SINK.
2	CONNECT NEW LINE OF SIZE INDICATED INTO MAIN AS SHOWN.
3	PROVIDE NEW 4" STORM LINE. NEW LINE SHALL DROP DOWN TO BELOW CONCRETE SLAB. ROUTE NEW LINE BELOW THE EXISTING CONCRETE SLAB AND CONNECT TO THE EXISTING 4" STORM DRAIN LINE.
4	PROVIDE AND INSTALL NEW AAV IN CASEWORK BELOW SINK. CONTRACTOR TO VERIFY INSTALLATION HEIGHT OF AAV TO BE ABOVE P-TRAP FOR SINK.
5	PROVIDE NEW EMERGENCY EYEWASH/SHOWER (EWS-1) AND FLOOR DRAIN AND ASSOCIATED BRANCH PIPING.
6	ADD ALTERNATE 01: PROVIDE NEW EMERGENCY EYEWASH/SHOWER (EWS-1).
7	ADD ALTERNATE 01: PROVIDE NEW HW AND CW CONNECTIONS TO NEW EMERGENCY EYEWASH/SHOWER.
8	ADD ALTERNATE 01: PROVIDE NEW SANITARY WASTE PIPING TO NEW EMERGENCY EYEWASH/SHOWER. PROVIDE NEW FLOOR DRAIN AND ASSOCIATED SANITARY PIPING.



2 PRESSURE PIPING GROUND PLAN ALTERNATE 1
SCALE: 1/8" = 1'-0"



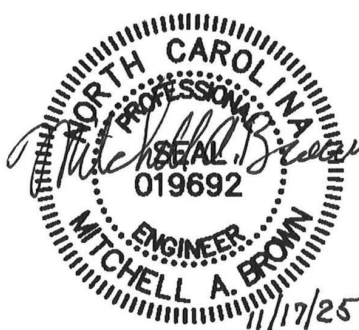
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P311

PLUMBING ALT 1 -
GROUND FLOOR
PLAN



THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

Facilities Services
Life Safety Shop 501
919-843-8997

Annual
Fire Pump Inspection Report

VENTURI

BUILDING NAME JIRAY-VENABLE HA		LOCATION Chapel Hill, NC		TECH Dan Thacker		LICENSE#		DATE 10/17/20224	
FIRE PUMP DATA									
MANUFACTURER: Fairbanks Morse				SUPPLY		City		STATIC 55 PSI	
MODEL: 5" 1822CF									
SN: 09-1826778									
TYPE: Horizontal Split Case									
RATED RP 3560		GPM: 1000		CHURN 160		PSI 138		0 GPM	
STAGE: 1		HP: 100		100% FLOW 150% FLOW		138 111		1000 1500 GPM	
ELECTRIC MOTOR DATA									
MANUFACTURER: Marathon				RATED RPM: 3550		RATED HP: 100		CODE G	
MODEL: 365TS10S14008AN-W				VOLTAGE: 460					
SN WAA053487				FRAME 365TS		FLA: 120 1.15 SF			
FIRE PUMP CONTROLLER PANEL DATA									
MANUFACTURER: Cutler Hammer				VOLTAGE: 460		AUTO ST Yes			
MODEL: FT90-100DL1				TRANSFER SWITCH: Yes					
SN 16BH493E1				MINIMUM RUN TIMER SET ACCELERATION TIMER SE		YES NA		MINUTES SECONDS: NA	
TYPE: Soft Start									
JOCKEY PUMP CONTROLLER DATA									
MANUFACTURER: Cutler Hammer				MANUFACTURER: Baldor					
MODEL: FDJP-3D				MODEL: 35Q653S255G2					
SN: 16BH493J				PVM2-90					
VOLTAGE: 460				HP: 3.00		VOLTAGE: 460		FLA: 3.7 HP: 3.00	
Utility		Zero Flow		No Load Voltage		Generator Transfer Time		Generator	
PH/VOLTS	AMPS	RPM	DISC	SUCT	NET	AB	481	SEC	PH/VOLTS
AB	483	88				BC	481		AB
BC	482	90	3576	210	50	CA	481		BC
CA	481	85	3560	208					CA
50% Flow		Corrected to rated speed							
AB	482	99				Totals			
BC	482	101	3573	204	49		50.00%		
CA	480	96	3560	203			500 GPM		
100% Flow		Corrected to rated speed						100% Flow	
AB	481	115				Totals		AB	
BC	481	116	3562	186	48		100.00%	BC	
CA	476	113	3560	186			1000 GPM	CA	
150% Flow		Corrected to rated speed						150% Flow	
AB	481	124				Totals		BC	
BC	481	124	3555	153	48		150.00%	CA	
CA	480	122	3560	153			1500 GPM		
Corrected to rated speed									
AUTO STARTS		6		MANUAL STARTS		JOCKEY PUMP STOP			
		6		EMERGENCY STARTS		JOCKEY PUMP START			
						FIRE PUMP START			

COMMENT See 2007 NFPA 20 A.14.2.7.4.f for the Affinity Laws used for the pressure correction to the rated speed of the fire pump.

- FIRE PROTECTION GENERAL NOTES:
1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE FIRE PROTECTION SYSTEM FOR THE PROPOSED PROJECT. THE SYSTEMS PROVIDED SHALL CONFORM TO THE DETAILS STATED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS. ITEMS OR WORK NOT SHOWN OR SPECIFIED, BUT REQUIRED FOR A COMPLETE FIRE PROTECTION SYSTEM, SHALL BE PROVIDED AND SHALL CONFORM TO ACCEPTED TRADE PRACTICES, LOCAL CODES, AND GOVERNING AUTHORITIES.

2. DO NOT SCALE DRAWINGS. BECAUSE OF THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE OFFSETS, FITTINGS, VALVES OR SIMILAR ITEMS WHICH MAY BE REQUIRED TO MAKE A COMPLETE OPERATING SYSTEM. CAREFULLY INVESTIGATE CONDITIONS AFFECTING WORK. INSTALL WORK IN SUCH A MANNER THAT INTERFERENCES BETWEEN PIPING, CONDUIT, DUCTS, EQUIPMENT, ARCHITECTURAL AND STRUCTURAL FEATURES ARE AVOIDED. PROVIDE ITEMS THAT MAY BE REQUIRED TO MEET THE CONDITIONS AT THE BUILDING, WITHOUT ADDITIONAL COSTS TO THE OWNER.

3. FIRE PROTECTION CONTRACTOR SHALL HAVE SUFFICIENT EXPERTISE (MINIMUM OF 5 YEARS) IN THE TYPE OF CONSTRUCTION TO REALIZE THE EXTENT OF THE WORK REQUIRED. THEREFORE, IT SHOULD BE OBVIOUS TO ANY PRUDENT FIRM WITH EXPERIENCE IN THIS FIELD THAT THESE DOCUMENTS MAY NOT EXPLICITLY DISCLOSE FINAL DETAILS. HOWEVER, CONTRACTORS SHALL HAVE THE EXPERTISE NECESSARY TO INCLUDE NECESSARY APPOINTMENTS.

4. FIRE PROTECTION BRANCH LINES SHALL BE SLOPED TO DRAIN BACK TO CROSS MAINS. THE CROSS MAINS SHALL BE SLOPED TO DRAIN BACK TO BULK MAINS OR MAIN RISER. INSTALL AUXILIARY DRAINS WHERE TRAPPED PIPING RUNS ARE UNAVOIDABLE. THE SPRINKLER SYSTEM SHALL BE FULLY DRAINABLE.

5. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF FLOOR SLAB WITH SPACE FOR INSULATION AND HANGERS AS REQUIRED.

6. INSTALL PIPING SO THAT VALVES ARE ACCESSIBLE. VALVE STEMS SHALL BE VERTICAL, POINTING UP. ADJUST VALVES FOR SMOOTH AND EASY OPERATION.

7. COORDINATE ALL WORK WITH WORK OF OTHER TRADES SHOWN ON OTHER DRAWINGS.

8. PROVIDE APPROVED FIRESAFING AT ALL FLOOR AND WALL PENETRATIONS.

9. NO PIPING SHALL BE LOCATED IN ANY ELECTRICAL ROOMS, CLOSETS OR TELECOMMUNICATION ROOMS UNLESS THOSE PIPES SERVE ONLY THAT SPACE AND ARE INDICATED ON DRAWINGS UNLESS INDICATED OTHERWISE

10. ALL VALVES AND EQUIPMENT IDENTIFICATION SHALL BE IN ACCORDANCE WITH ANSI STANDARD IDENTIFICATION SYSTEM. CONTRACTORS ARE RESPONSIBLE FOR ANY REQUIRED CROSS REFERENCE BETWEEN THESE DRAWINGS AND SPECIFICATIONS AND OTHER DISCIPLINES.

11. COORDINATE THE EXACT LOCATION OF ALL FIRE PROTECTION EQUIPMENT AND DEVICES WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN AND INSTALLATION.

12. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATION OF EQUIPMENT AND SPRINKLER HEADS. THE SPRINKLER CONTRACTOR SHALL COORDINATE EXACT PLACEMENT OF SPRINKLER HEADS WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS.

13. FOLLOW THE FIRE PROTECTION INSTALLATION REQUIREMENTS BASED UPON NFPA 13, NFPA 14, NFPA 20, NFPA 24, NFPA 25, AND THE NORTH CAROLINA BUILDING CODE.

14. CONTRACTOR SHALL HYDRAULICALLY DESIGN THE SPRINKLER SYSTEM BASED ON THE WATER FLOW AND HYDRAULIC PRESSURE PROJECTED FOR SCOPE OF WORK. THE WORK INDICATED ON THE DRAWINGS ARE FOR BIDDING PURPOSES ONLY. FINAL SPACING AND LOCATIONS FOR THE SPRINKLER HEADS, PIPE SIZING, AND PIPE ROUTING WILL BE BY THE SPRINKLER CONTRACTOR AND VERIFIED BY HYDRAULIC CALCULATIONS.

15. DESIGN STANDARDS: 2018 NORTH CAROLINA BUILDING CODE, STATE OF NORTH CAROLINA FIRE CODE, NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, NFPA 14 STANDARD FOR THE INSTALLATION OF STANDPIPES AND HOSE SYSTEMS AND LOCAL AUTHORITY HAVING JURISDICTION.

16. ALL SYSTEM COMPONENTS SHALL BE UL LISTED AND FM APPROVED.

17. THE FIRE PROTECTION DRAWINGS SHOW THE GENERAL INTENT OF THE FIRE SUPPRESSION SYSTEM. THE FIRE PROTECTION CONTRACTOR SHALL HYDRAULICALLY CALCULATE AND PROVIDE A FULLY SPRINKLED BUILDING AND SHALL MAKE THE APPROPRIATE ADJUSTMENTS TO THE PIPE RUNS AND SPRINKLER HEAD LOCATIONS INDICATED ON THE DRAWINGS TO COORDINATE WITH ALL TRADES WHILE MEETING ALL CODE REQUIREMENTS.

18. THE FIRE PROTECTION CONTRACTOR SHALL INCLUDE AN INSPECTORS TEST CONNECTION IN ACCORDANCE WITH NFPA 13.

19. THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO ORDERING OR PURCHASING ANY FIRE PROTECTION EQUIPMENT. SUBMITTALS SHALL CONTAIN SPRINKLER DRAWINGS, CALCULATIONS, MATERIALS AND ACCESSORIES. DRAWINGS SHALL BE STAMPED WITH A REGISTERED PROFESSIONAL ENGINEER'S SEAL. DRAWINGS SHALL BE 1/4" SCALE MINIMUM.

20. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE SPACE REQUIREMENTS WITH ALL TRADES PRIOR TO COMMENCEMENT OF WORK.

21. ALL SPRINKLER PIPING SHALL BE SUPPORTED BY THE BUILDING STRUCTURE, PIPES SHALL NOT BE SUPPORTED FROM CEILING TILES, CEILING SUPPORT STRUCTURES, OR OTHER PIPES.

22. FIRE PROTECTION BRACH LINES SHALL BE SLOPED BACK TO THE MAIN OR LOW POINT FOR POSITIVE DRAINAGE. INSTALL AUXILIARY DRAINS WHERE NECESSARY WHERE PIPING MAY BE TRAPPED WITHOUT RESOLUTION. THE SPRINKLER SYSTEM SHALL BE FULLY DRAINABLE.

23. THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE EXACT PLACEMENT OF SPRINKLER HEADS WITH THE ARCHITECTURAL DRAWINGS AND ELECTRICAL DRAWINGS.

24. NO SPRINKLER PIPING SHALL BE LOCATED IN ELECTRICAL ROOMS.

25. FIRE PROTECTION PIPING IS TO BE ABOVE THE CEILING UNLESS NOTED OTHERWISE; PROVIDE HANGERS ACCORDING TO NFPA SPACING CRITERIA. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL SUPPLEMENTAL STEEL REQUIRED TO ACCOMMODATE HANGER SPACING DISTANCES.

26. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE ANY NECESSARY FIRE STOPPING MATERIALS I.E., SEALANTS OR CAULKING AS REQUIRED IN THE DESIGN FOR THE SYSTEM.

27. ALL PIPING AND SPRINKLER HEADS SHOWN ARE FOR BIDDING PURPOSES ONLY. FINAL SPACING OF THE SPRINKLER HEADS WILL BE LOCATED AND VERIFIED BY HYDRAULIC CALCULATIONS. FINAL PIPE SIZING AND ROUTING WILL BE DETERMINED AND VERIFIED BY HYDRAULIC CALCULATIONS.

28. THE SPRINKLER SYSTEM SHALL BE TESTED UPON COMPLETION TO THE REQUIREMENTS OF NFPA 13 AND TO ANY OTHER AUTHORITY HAVING JURISDICTION (THE MOST STRINGENT SHALL BE APPLICABLE).

- FIRE PROTECTION SPECIFICATION - GENERAL
1. HYDRAULIC CALCULATIONS SHALL BE PREPARED IN ACCORDANCE WITH NFPA 13, CHAPTER 22.

2. VELOCITIES IN UNDERGROUND PIPE SHALL NOT EXCEED 16 FEET PER SECOND.

3. TOTAL SPRINKLER FLOW SHALL NOT EXCEED 110 PERCENT OF THE REQUIRED FLOW.

4. THE SPRINKLER AND STANDPIPE RISERS SHALL ACCOMMODATE BOTH THE SPRINKLER AND STANDPIPE HOSE STREAM FLOWS. EACH RISER SHALL ACCOMMODATE 250 GALLONS PER MINUTE FLOW FOR STANDPIPE HOSE STREAM.

5. PROVIDE 10 PSI LESS STATIC AND RESIDUAL PRESSURE AN 10% LESS FLOW FOR ALL SPRINKLER SYSTEM HYDRAULIC CALCULATIONS.

6. SPRINKLERS SHALL BE FM APPROVED AND SHALL NOT INCLUDE "O-RING" SEALS.

7. SPRINKLER HEADS LOCATED IN AREAS OF IMPACT SHALL BE PROVIDED WITH PROTECTIVE WIRE GUARDS LISTED FOR USE WITH THE MODEL OF SPRINKLER.

8. QUICK-RESPONSE SPRINKLERS MAY BE USED IN LIGHT AND ORDINARY HAZARD APPLICATIONS FOR THE QUICK RESPONSE HYDRAULIC DESIGN AREA REDUCTION PER NFPA 13 FOR UTILIZING QUICK RESPONSE HEADS.

9. PIPING FOR WET SYSTEMS 2 INCHES AND UNDER SHALL BE: SCHEDULE 40 PIPING, BLACK STEEL, SEAMLESS, ASTM S3/A, GRADE B, WITH THREADED OR VICTAULIC ENDS.

10. FITTINGS: MALLEABLE IRON OR CAST IRON SCREWED, ASTM-A-47 AND ASME B-16.3

11. PIPING 2-1/2 INCHES AND ABOVE: SCHEDULE 10 PIPING, SEAMLESS, BLACK STEEL, ROLL GROOVED, ASTM-A-135, WITH GROOVED MECHANICAL JOINTS AND FITTING FROM THE SAME MANUFACTURER, UL LISTED AND FM APPROVED FOR FIRE SERVICE.

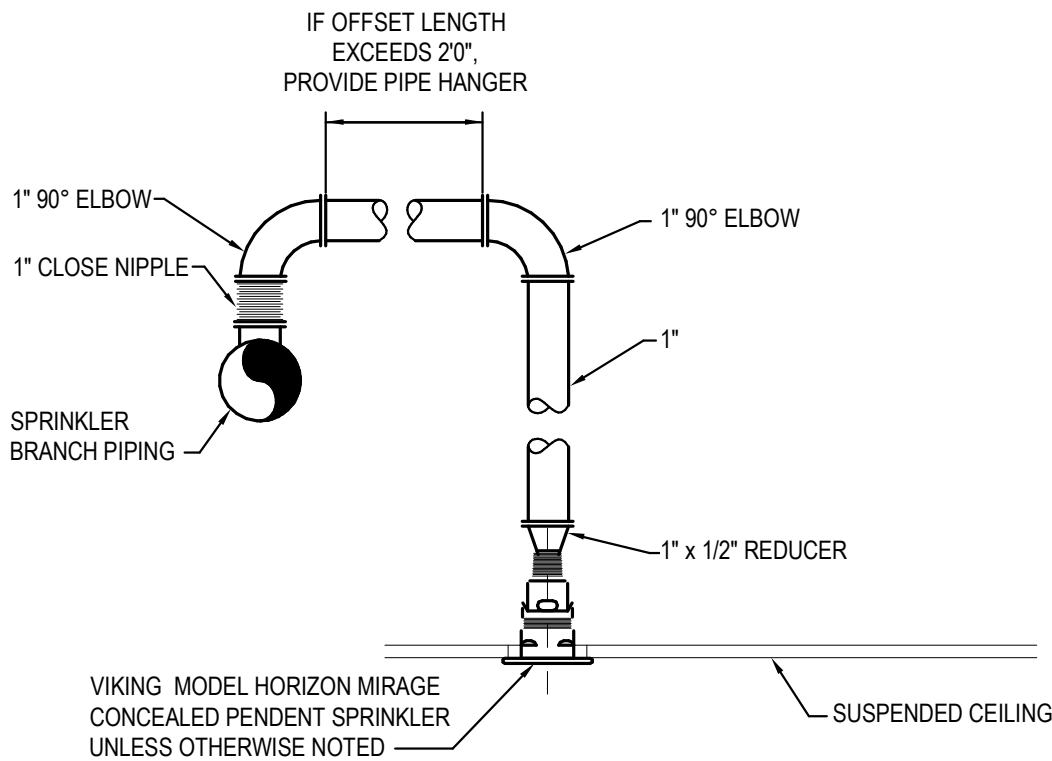
12. ALL EXPOSED SPRINKLER PIPING SHALL BE PAINTED "RED" UNLESS OTHERWISE PROHIBITED BY CODE OR AHJ).

HANGER INSTALLATION REQUIREMENTS

MAXIMUM DISTANCE BETWEEN HANGERS									
NOMINAL PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
SCH. 40 GALV. STEEL	5' 6"	6' 0"	6' 6"	7' 0"	8' 0"	9' 0"	10' 0"	N/A	N/A
THREADABLE LIGHTWALL	N/A	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	12' 0"	N/A	N/A
STEEL PIPE (10' 40')	N/A	12' 0"	12' 0"	15' 0"	15' 0"	15' 0"	15' 0"	15' 0"	15' 0"
THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE LINE SHALL NOT EXCEED 36" FOR 1" PIPE, 48" FOR 1 1/4" PIPE AND 60" FOR 1 1/2" PIPE OR LARGER.									

TRAPEZE INSTALLATION REQUIREMENTS

SPAN OF TRAPEZE (Schedule 10)	NOMINAL PIPE SIZE SUPPORTED							
	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
1 FT. 6 IN.	1"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"
2 FT. 0 IN.	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"
2 FT. 6 IN.	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"
3 FT. 0 IN.	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/2"	2"
4 FT. 0 IN.	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2"	2-1/2"
5 FT. 0 IN.	2"	2"	2"	2"	2"	2"	2-1/2"	2-1/2"
6 FT. 0 IN.	2"	2"	2"	2"	2"	2-1/2"	2-1/2"	3"
7 FT. 0 IN.	2"	2"	2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"
8 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"
9 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	4"
10 FT. 0 IN.	2-1/2"	2-1/2"	2-1/2"	2-1/2"	2-1/2"	3"	3"	4"



- GENERAL NOTES:
1. ALL PENDENT SPRINKLER HEADS, WHICH ARE TO BE LOCATED IN A SUSPENDED CEILING, ARE TO BE CAREFULLY COORDINATED AND POSITIONED IN THE CENTER OF THE CEILING TILE.

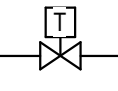
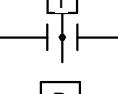
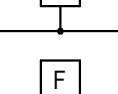
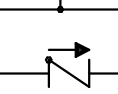
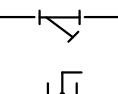
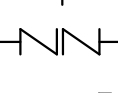
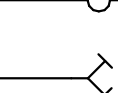
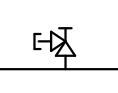
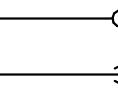
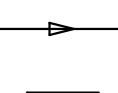
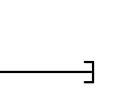
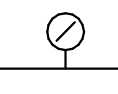
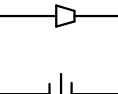
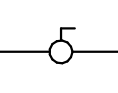
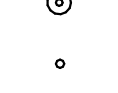
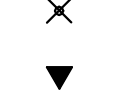

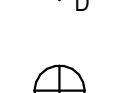
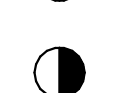

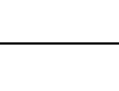





2. ALL PENDENT SPRINKLER HEADS SHALL BE INSTALLED WITH RETURN BENDS. REFER TO TYPICAL DETAIL.

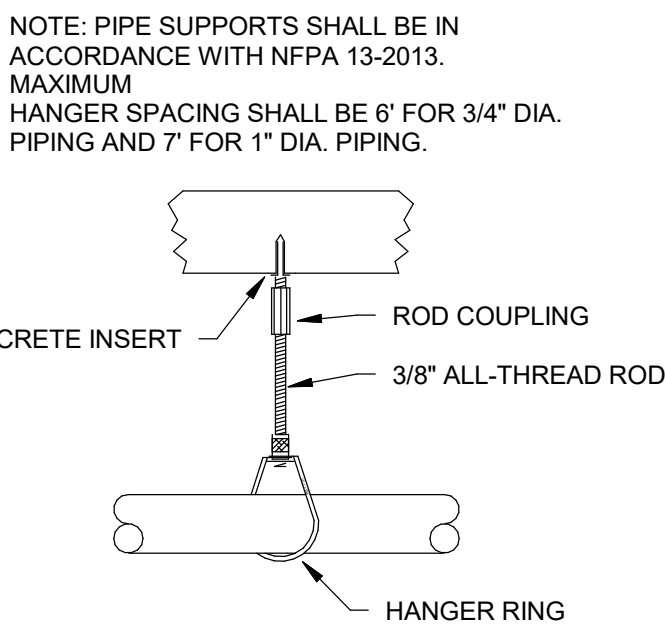
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CONCEALED PENDANT SPRINKLER

SCALE: N.T.S.

FIRE PROTECTION SYMBOLS

— F —	FIRE PROTECTION PIPING (STANDPIPE)
— SPR —	SPRINKLER PIPING (WET SYSTEM)
— DW —	DOMESTIC COLD WATER
— DP —	SPRINKLER PIPING (DRY SYSTEM)
— D —	DRAIN PIPING
	OS & Y GATE VALVE W/ TAMPER SWITCH
	BUTTERFLY VALVE WITH TAMPER SWITCH
	PRESSURE SWITCH
	FLOW SWITCH CHECK VALVE
	STRAINER
	BUTTERFLY VALVE
	BACKFLOW PREVENTER (BFP)
	DRAIN VALVE WITH CAP AND CHAIN
	(FDC) FIRE DEPARTMENT SIAMESE CONNECTION STANDPIPE HOSE VALVE CONNECTION
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	DIRECTION OF FLOW
	DIRECTION OF SLOPE
	CAPPED PIPING
	PRESSURE GAUGE
	REDUCER
	UNION OR FLANGED CONNECTION
	BALL VALVE
	CONCEALED SPRINKLER HEAD
	RECESSED PENDANT HEAD
	UPRIGHT PENDANT SPRINKLER HEAD
	DRY UPRIGHT SPRINKLER HEAD
	DRY SIDEWALL SPRINKLER HEAD
	DENOTES CONNECT TO EXISTING
	DENOTES POINT OF DISCONNECTION
	KEYED NOTE DESIGNATOR



2

HANGER DETAIL

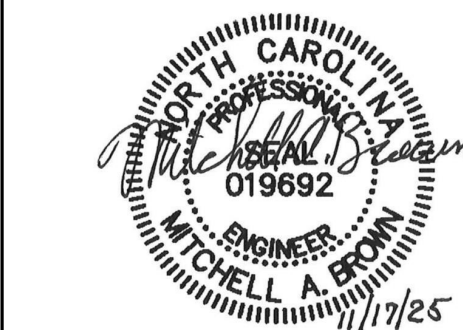
SCALE: N.T.S.



REVISION:

SCD REVIEW	8/18/25
2nd SCD 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 UPFIT

LOCATION
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CHAPEL HILL, NC 27514

SCO ID: 24-28389-01A

ISSUE DATE
11-17-25

JOB NO.
10021-0001

DWG. NO.

FP001

FIRE PROTECTION
DATA SHEET



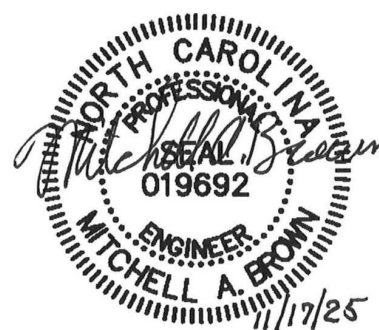
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REVISION	
SCD REVIEW	9/19/25
2nd SCD REVIEW	10/24/25
Construction Set	11/17/25

CONSTRUCTION SET



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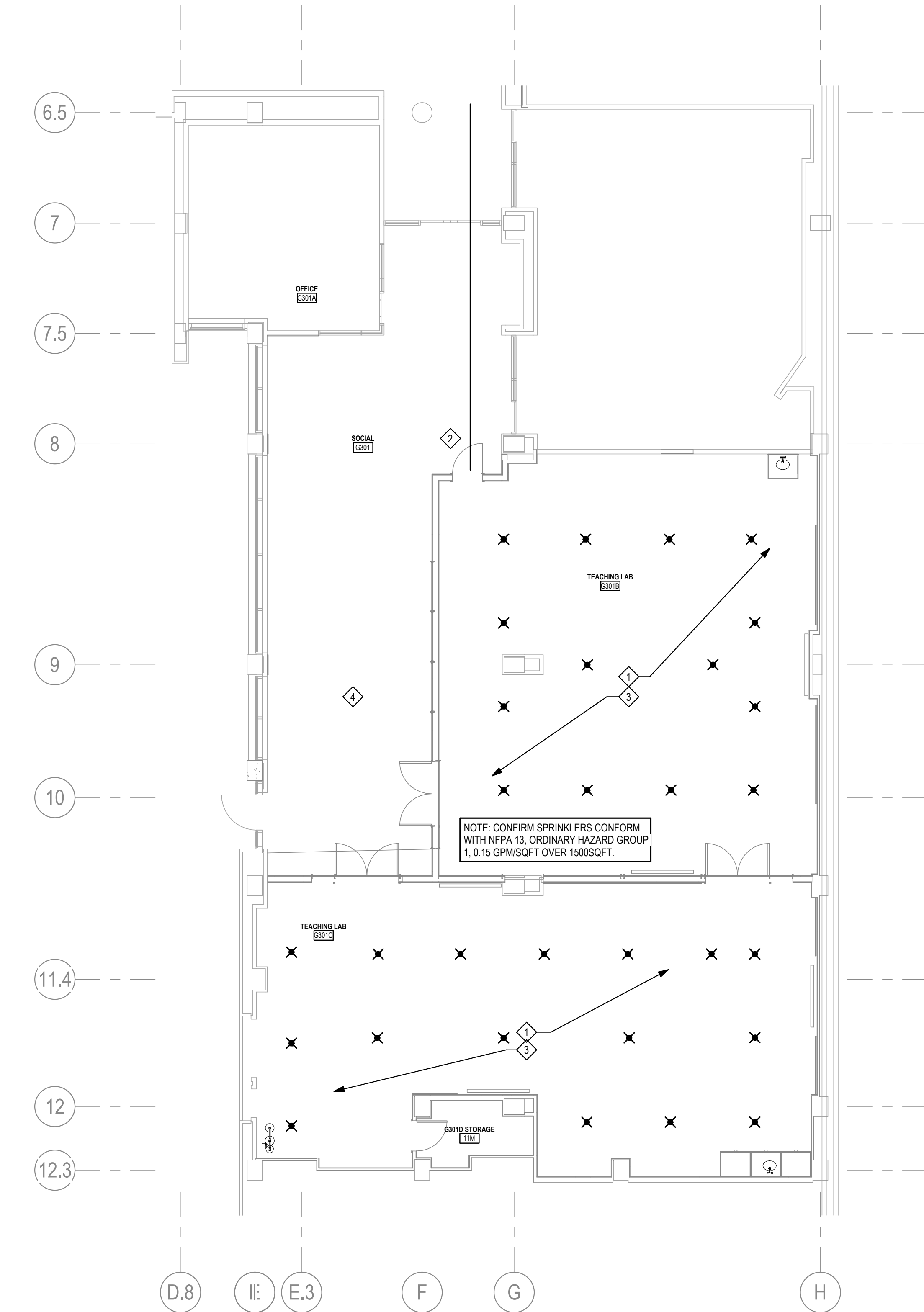
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DWG NO.

FP111

FIRE PROTECTION
- GROUND FLOOR
PLAN

KEYED NOTES	
1	REMOVE EXISTING SPRINKLER HEADS AND PROVIDE NEW HEADS. NEW FLOATING CEILING IS NOT CONTINUOUS IN THE SPACE. PROVIDE NEW SPRINKLER HEADS IN THE PARTIAL CEILING GRID AND PROVIDE UPRIGHT PENDANT HEADS ABOVE THE PARTIAL CEILING TO PROVIDE COMPLETE COVERAGE IN ACCORDANCE WITH NFPA 13.
2	EXISTING SPRINKLER MAIN AND ALL BRANCH PIPING CONNECTED DOWNSTREAM SHALL BE REMOVED AND RAISED AS REQUIRED FOR THE INSTALLATION OF THE NEW CEILING IN THE RENOVATED SPACES. COORDINATE NEW MOUNTING HEIGHT OF SPRINKLER MAIN PIPING WITH NEW CEILING HEIGHT AS SHOWN ON ARCHITECTURAL PLANS. CONNECT NEW BRANCH PIPING AS NEEDED TO CONNECT NEW SPRINKLER HEADS.
3	ALL EXISTING AND NEW SPRINKLER PIPING THAT IS VIABLE FROM THE FINISHED FLOOR WILL BE PAINTED BY THE GC.
4	REMOVE EXISTING SPRINKLER HEADS AND PROVIDE NEW SPRINKLER HEADS AND MODIFY BRANCH PIPING IN SOCIAL G301 AS REQUIRED TO PROVIDE CONVERGENCE IN ACCORDANCE WITH NFPA 13.



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

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