

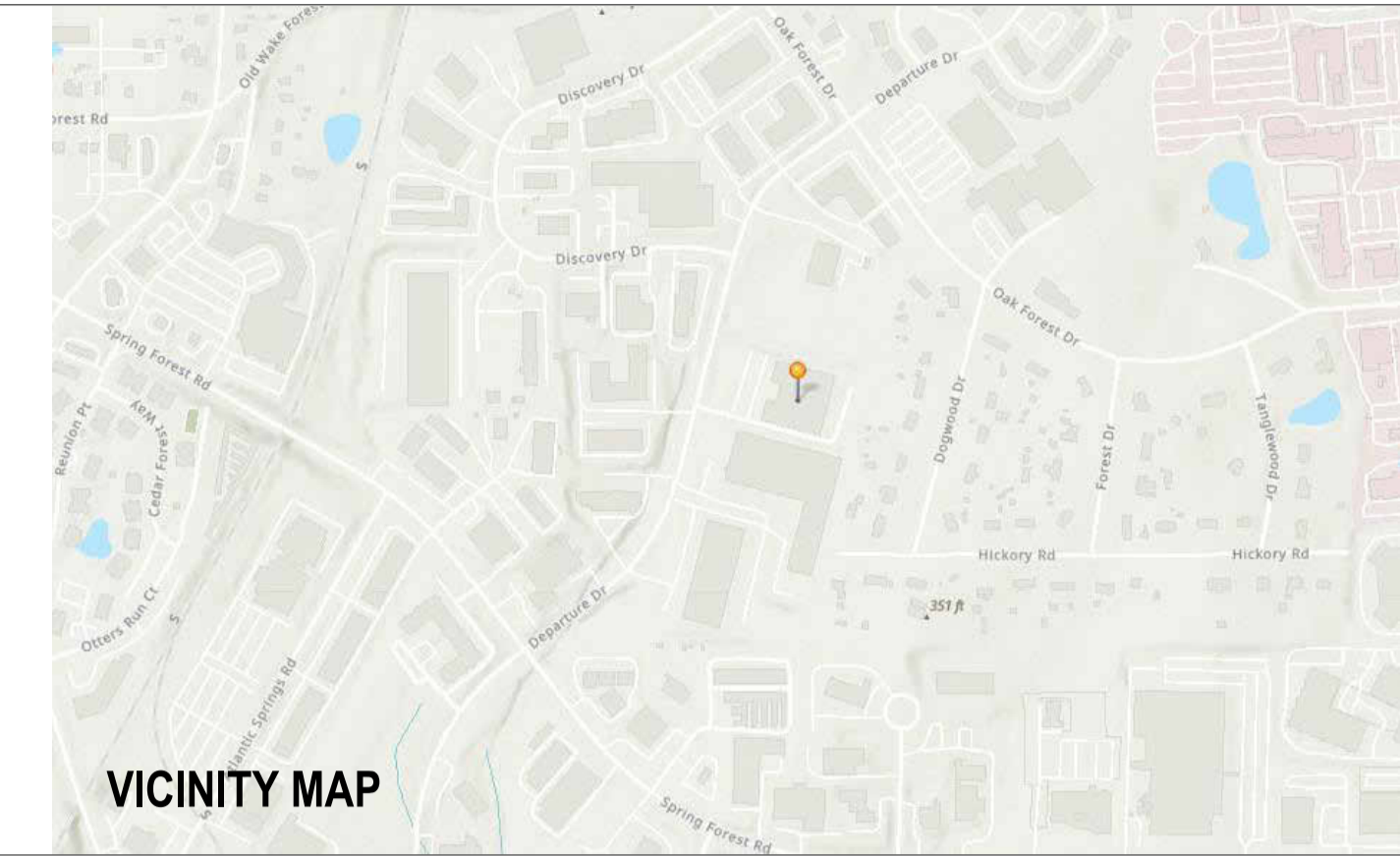
JOHNSTONE SUPPLY - DEPARTURE RD -

RALEIGH, NORTH CAROLINA

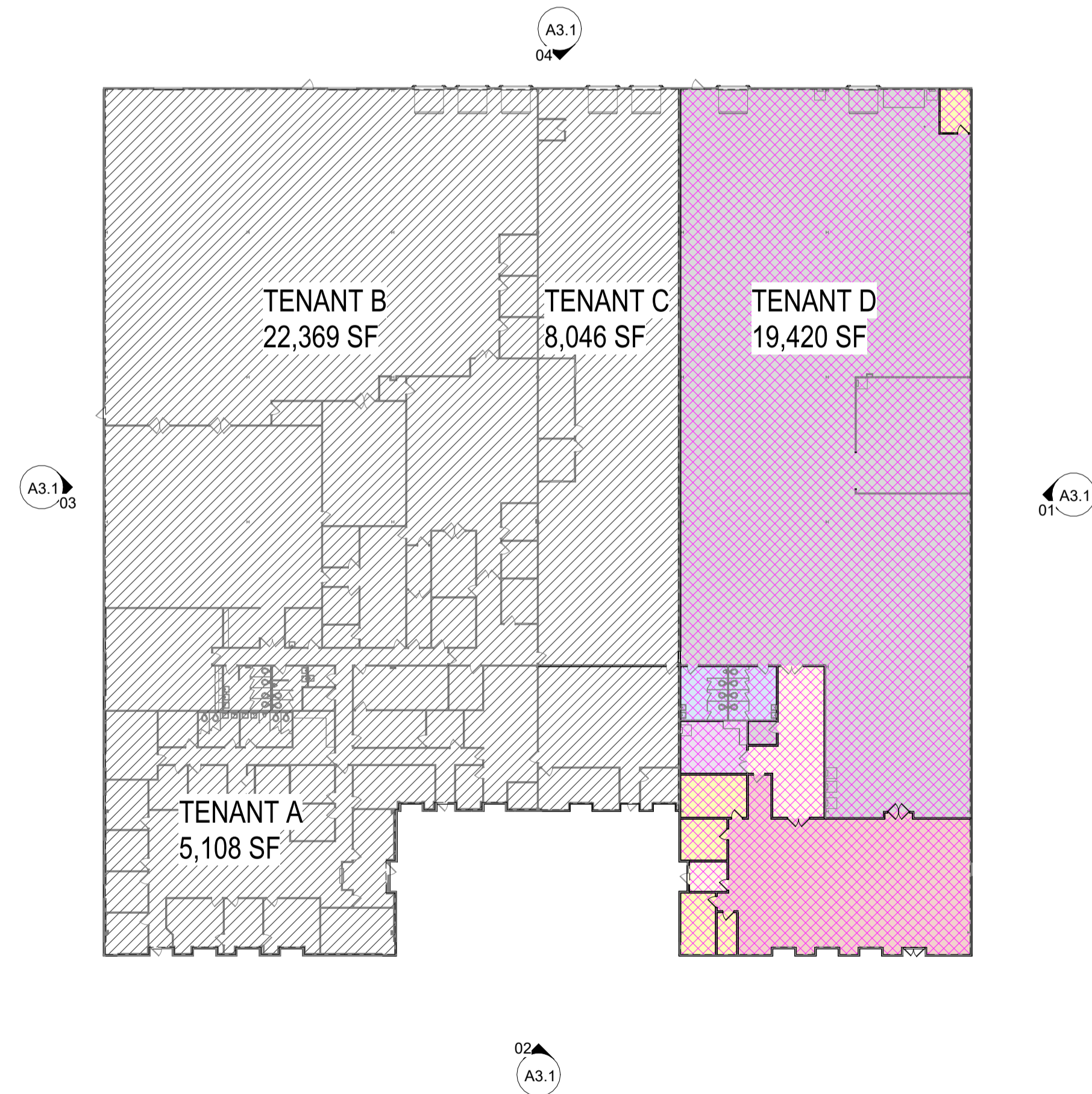
PROJECT TEAM

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OVERALL PROJECT PLAN



01 OVERALL FLOOR PLAN
 1/32" = 1'-0"

PROJECT DESCRIPTION

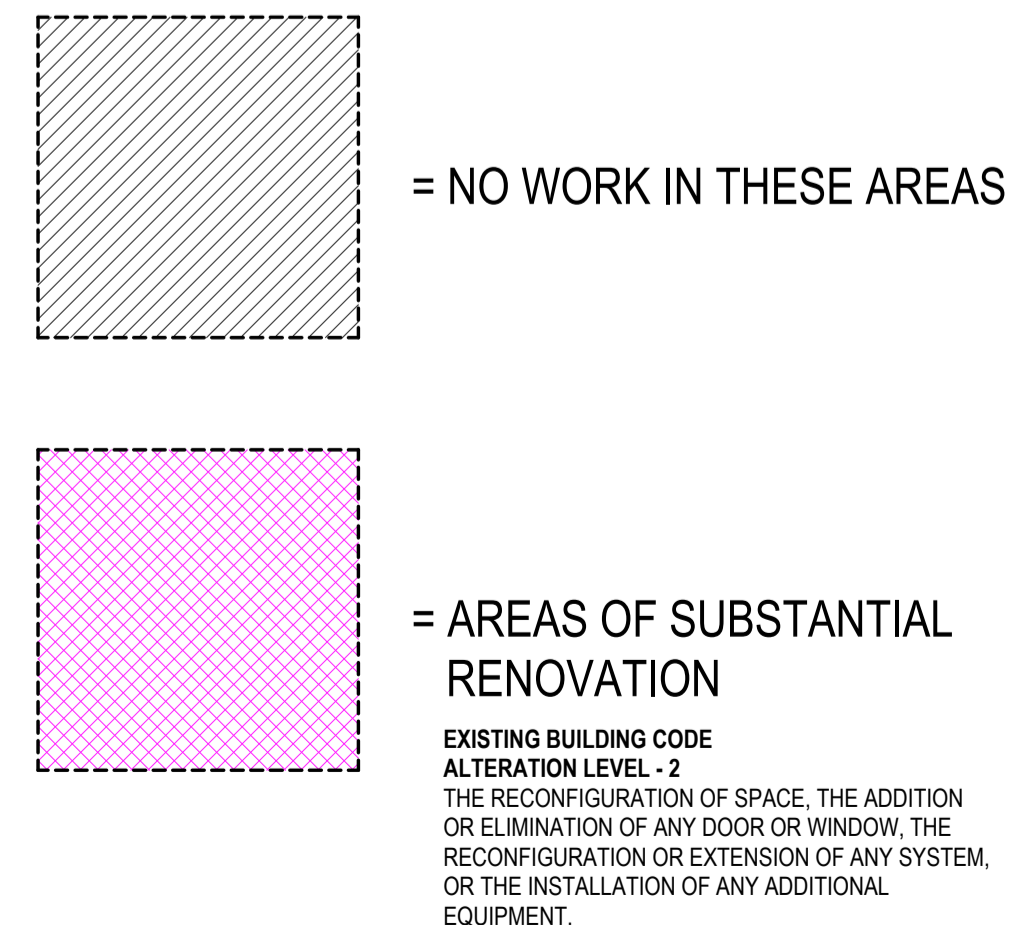
This architectural drawing set covers the Level 2 alteration project for Johnstone Supply within North BLVD, North Industrial Center, Departure Drive, Raleigh N.C.. The scope entails demolition of partition walls, removal of existing superfluous non-structural elements, installation of new flooring materials, doors, and other associated works.

DEMOLITION:
 Removal of partition walls, ceilings, floor finishes, and doors in designated areas for Tenant D. Elimination of existing non-structural elements deemed unnecessary for Tenant D's operations.

FLOORING:
 Installation of new flooring materials.

OTHER WORKS:
 Any additional alterations or improvements necessary to accommodate Johnstone Supply's specific needs within the designated area. Refer to drawings for additional information

PROJECT SCOPE LEGEND



DRAWING SHEET LOG		LATEST DRAWING DATE	DRAWING DISTRIBUTION DATE
		YY MM DD	YY MM DD
● = DRAWING ISSUED			24 08 20
COVER			
T1	BUILDING CODE SUMMARY	24 08 20	
T2	BUILDING CODE SUMMARY	24 08 20	
ARCHITECTURAL			
A0.1	REFERENCE	24 08 20	
A0.2	GUIDELINES OR ACCESSIBILITY REQUIREMENTS	24 08 20	
A1.1	DEMOLITION PLAN	24 08 20	
A1.2	DEMOLITION REFLECTED CEILING PLAN	24 08 20	
A2.1	FLOOR PLAN	24 08 20	
A2.2	REFLECTED CEILING PLAN	24 08 20	
A2.3	FLOOR FINISHES PLAN	24 08 20	
A3.1	BUILDING ELEVATIONS	24 08 20	
ELECTRICAL			
E0.1	ELECTRICAL COVER	24 08 14	
E0.2	ELECTRICAL DETAILS	24 08 14	
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E1.1	FLOOR PLAN - POWER & POWER DEMOLITION	24 08 14	
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FIRE-ALARM			
FA0.1	FIRE ALARM COVER SHEET	24 08 14	
FA0.2	FIRE ALARM DETAILS	24 08 14	
FA1.1	PARTIAL FLOOR PLAN - FIRE ALARM DEMOLITION	24 08 14	
FA1.2	PARTIAL FLOOR PLAN - FIRE ALARM DEMOLITION	24 08 14	
FA1.3	PARTIAL FLOOR PLAN - FIRE ALARM	24 08 14	
FA1.4	PARTIAL FLOOR PLAN - FIRE ALARM	24 08 14	
MECHANICAL			
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M1.1	FLOOR PLAN - MECHANICAL	24 08 14	
M1.2	ROOF PLAN - MECHANICAL	24 08 14	
M2.1	MECHANICAL SCHEDULES AND DETAILS	24 08 14	

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No.	Description	Date

PROJECT #: 240012
 DATE: 08-20-2024

COVER SHEET

T1

DIGITAL PRINT DATE: 8/22/2024 12:35:26 PM

2018 APPENDIX B: BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

GENERAL INFORMATION

Name of Project: Johnstone Supply - Departure
Address: North BLVD, North Industrial Center, Departure Drive, Raleigh N.C.
Owner / Authorized Agent: Jim Sherrer

LEAD DESIGN PROFESSIONAL:

Table with columns: DESIGNER, FIRM, NAME, LICENSE #, TEL #. Lists Design Development Architects, Jim Sherrer, etc.

2018 EDITION OF NC CODE FOR: New Building, Shell / Core, 1st Time Interior Completions

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

CONSTRUCTED: (date) 1984 CURRENT OCCUPANCY(S) (Ch.3): M
RENOVATED: (date) 2024 PROPOSED OCCUPANCY(S) (Ch.3): M

OCCUPANCY CATEGORY (Table 1604.5): CURRENT: II Proposed: II

BASIC BUILDING DATA:

Construction types: (Chapter 6)
Type I-A, Type I-B, Type II-A, Type II-B, Type III-A, Type III-B, Type IV, Type V-A, Type V-B
Sprinklers: No, Partial, Yes
Standpipes: No, Yes

Table with columns: Floor, Existing, New, Fit-Up, Sub-Total. Shows 3rd Floor, 2nd Floor, Mezzanine, 1st Floor, Basement, Total.

ALLOWABLE AREA:

Primary Occupancy: Assembly, Business, Educational, Factory, Mercantile, Institutional, I-3 Condition
Accessory Occupancies Classification (S): Assembly, Business, Educational, Factory, Mercantile, Institutional, I-3 Condition

Incidental Uses (Table 509): Furnace room where any piece of equipment is over 400,000 Btu per hour input, Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower, Refrigerant machine room, Hydrogen fuel gas rooms, not classified as Group H, Incinerator rooms, Paint shops, not classified as Group H, located in occupancies other than Group F, In Group E occupancies, laboratories and vocational shops not classified as Group H, In Group I-2 occupancies, laboratories not classified as Group H, In ambulatory care facilities, laboratories not classified as group H, Laundry rooms over 100 square feet, Group I-2, laundry rooms over 100 square feet, Group I-2, laundry rooms equal to or less than 100 square feet, Group I-2, commercial kitchens, Group I-2, rooms or spaces that contain fuel-fired heating equipment, Group I-3 cells and Group I-2 patient rooms equipped with padded surfaces, Group I-2, physical plant maintenance shops, In ambulatory care facilities or Group I-2 occupancies, waste and linen collection rooms with containers that have an aggregate volume of 10 cubic feet or greater, In other than ambulatory care facilities and Group I-2 occupancies, waste and linen collection rooms over 100 square feet, In ambulatory care facilities and Group I-2 occupancies, storage rooms greater than 100 square feet, Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons for flooded lead-acid, nickel cadmium or VRLA, or more than 1,000 pounds for lithium-ion and lithium metal polymer used for facility standby power, emergency power or uninterruptible power supplies, Fuel storage rooms in public schools and boiler rooms in public schools, Storage rooms underneath grandstands or bleachers seats containing combustible or flammable materials

Special Uses: 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423
Special provisions: 510.2, 510.3, 510.4, 510.5, 510.6, 510.7, 510.8, 510.9
Mixed Occupancy: No, Yes Separation: Hr. Exception:
Incidental Use Separation (Section 509)
Non-Separated Mixed Occupancy (Section 508.3/303)
Separated Mixed Occupancy (Section 508.4/303) See below for area calculations.

Actual Area of Occupancy A + Actual Area of Occupancy B / Allowable Area of Occupancy A = < 1.00

Table with columns: Story No., Description and Use, (A) Bldg Area Per Story (Actual Area), (B) Table 506.2 Area, (C) Area for Frontage Increase 1.5, (D) ALLOWABLE AREA PER STORY OR UNLIMITED.3. Shows 3rd Floor, 2nd Floor, 1st Floor BUSINESS, Mezzanine, Basement.

- 1. Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. (P) Total Building Perimeter = (P)
c. (F/P) Ratio = (F/P)
d. (W)-Minimum width of public way = (W)
2. Unlimited Area applicable under conditions of Section 507.
3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (Section 506.2).
4. The maximum area of open parking garages must comply with Section 406.5.4.
The maximum area of air traffic control towers must comply with Table 412.4.6.
5. Frontage increase is based on the un-sprinklered area value in Table 506.2

ALLOWABLE HEIGHT (Chapter 5)
Table with columns: Building Height in Feet (Table 504.3), Allowable, Actual (Shown on Plans), Code Reference. Shows 75' - 0" and 23' - 6".

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4

FIRE PROTECTION REQUIREMENTS: (Chapter 6)

Table with columns: Building Elements, Fire Separation Distance (Feet), Rating, Req'd, Provided (w/ reduction), Detail # and Sheet#, Design # for Rated Assembly, Sheet # for Rated Penetration, Sheet # for Rated Joints. Includes Structural Frame, Bearing walls, Nonbearing walls and Partitions, Floor construction, Roof construction, Columns Supporting Floors, Corridor Separation, etc.

NOTES: * Indicate section number permitting reduction

PERCENT OF WALL OPENING CALCULATIONS

Table with columns: FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES, DEGREE OF OPENINGS PROTECTION (TABLE 705.8), ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%). Shows N/A values.

LIFE SAFETY SYSTEM REQUIREMENTS: (Chapter 9 and 10)

Emergency Lighting: No, Yes
Exits Sign: No, Yes
Fire Alarm: No, Yes
Smoke Detection Systems: No, Yes, Partial
Panic Hardware: No, Yes

LIFE SAFETY PLAN REQUIREMENTS:

Life Safety Plan Sheet #: 1/T.3
Fire and/or smoke rated wall locations (Chapter 7)
Assumed and real property line locations (if not on the site plan)
Exterior wall opening area with respect to distance to assumed property lines (705.8)
Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
Occupant loads for each area
Exit access travel distances (1017)
Common path of travel distances (1006)
Dead end lengths (1020.4)
Clear exit widths for each exit door
Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
Actual occupant load for each exit door
A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
Location of doors with panic hardware (1010.1.10)
Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
Location of doors with electromagnetic egress locks (1010.1.9.9)
Location of doors equipped with hold-open devices
Location of emergency escape windows (1030)
The square footage of each fire area (202)
The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)
Table with columns: Total Units, Accessible Units Required, Accessible Units Provided, Type A Units Required, Type A Units Provided, Type B Units Required, Type B Units Provided, Total Accessible Units Provided. Shows 0 units.

ACCESSIBLE PARKING REQUIREMENTS (SECTION 1106)
Table with columns: Lot or Parking Area, Total # of Parking Spaces Required, Total # of Accessible Spaces Provided, Total # of Accessible Spaces with 132" Access Aisle, Total # of Accessible Spaces with 8' Access Aisle, Total # Accessible Provided. Shows 0 units.

PLUMBING FIXTURE REQUIREMENTS

Table with columns: Occupancy, Waterclosets, Urinals, Lavatories, Showers/Tubs, Drinking Fountains. Shows 3, 4, 0, 1, 2, 2, 0, 0, 0, 0, 0, 0, 0.

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DFS, ICC, etc., describe below)

ENERGY REQUIREMENTS:

THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF ENERGY COST BUDGET METHOD, STATE THE ANNUAL ENERGY COST BUDGET VS ALLOWABLE ANNUAL ENERGY COST BUDGET.

Existing building envelope complies with code: NCECC

Climate Zone: 3, 4, 5
Method Of Compliance: Performance (ASHRAE 90.1), Prescriptive (Energy Code)

THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)
Exterior Walls (each assembly)
Walls below grade (each assembly)
Floors over unconditioned space (each assembly)
Floors slab on grade (each assembly)

STRUCTURAL DESIGN

DESIGN LOADS: Importance Factors: Wind (Iw), Snow (Is), Seismic (Ie), Live Loads: Roof, Mezzanine, Floor, Ground Snow Load, Wind Load: Basic Wind Speed, Exposure Category
SEISMIC DESIGN CATEGORY: Provide the following Seismic Design Parameters: Occupancy Category, Spectral Response Acceleration Coefficient, Site Classification, Basic structural system, Analysis Procedure
LATERAL DESIGN CONTROL: SOIL BEARING CAPACITIES: Field Test, Presumptive Bearing capacity, Pile size, type, and capacity
SPECIAL INSPECTIONS REQUIRED: Yes, No

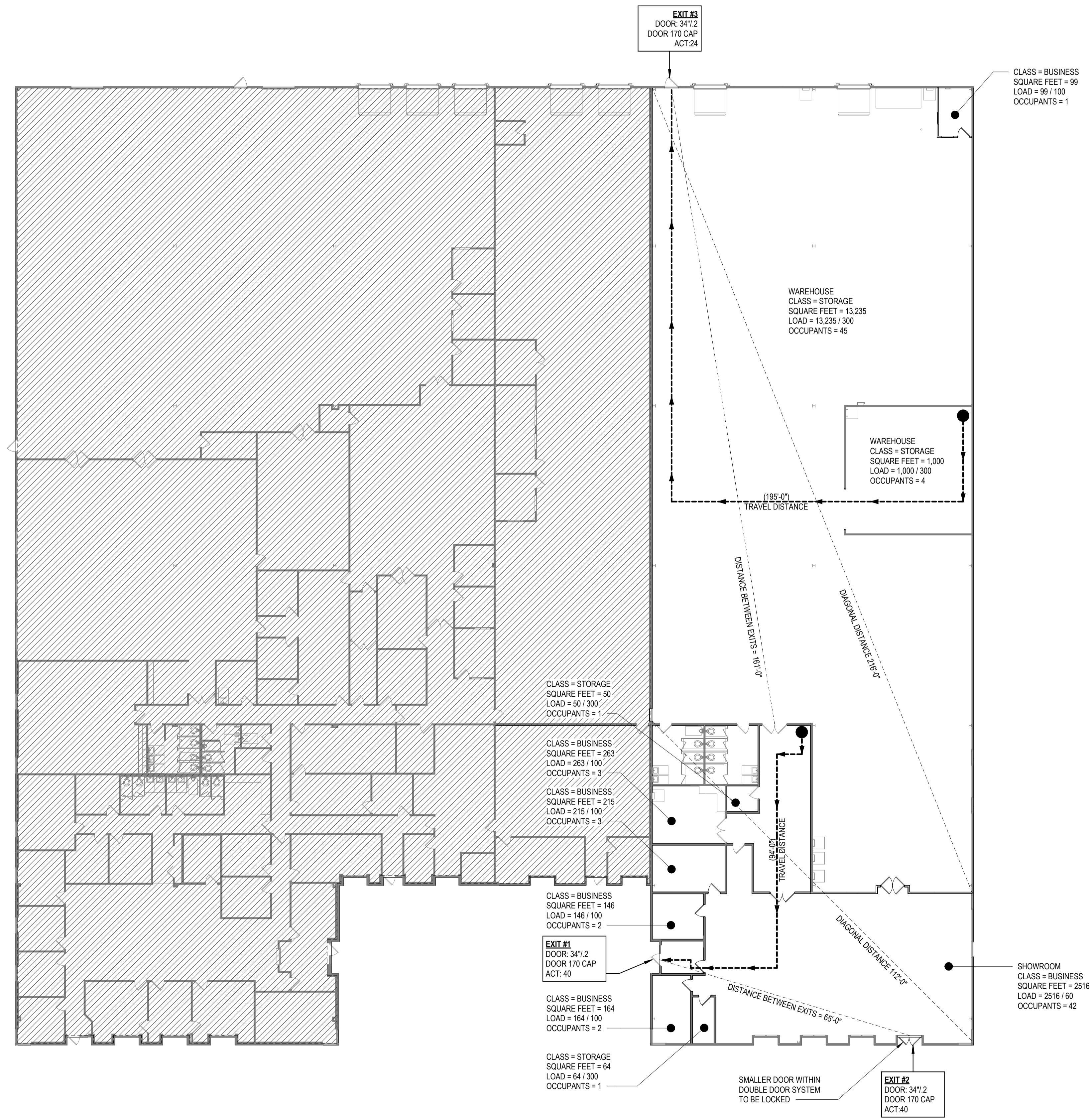
ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE: Energy Code: PRESCRIPTIVE, PERFORMANCE
ASHRAE 90.1: PRESCRIPTIVE, PERFORMANCE
Lighting Schedule (Each fixture type)
Additional Prescriptive: More Efficient Mechanical Equipment, Reduced Lighting Power Density, Energy Recovery Ventilation Systems, Higher Efficiency Service Water Heating, On-Site Supply of Renewable Energy, Automatic Daylighting Control Systems

MECHANICAL SYSTEM, SERVICE SYSTEMS AND EQUIPMENT

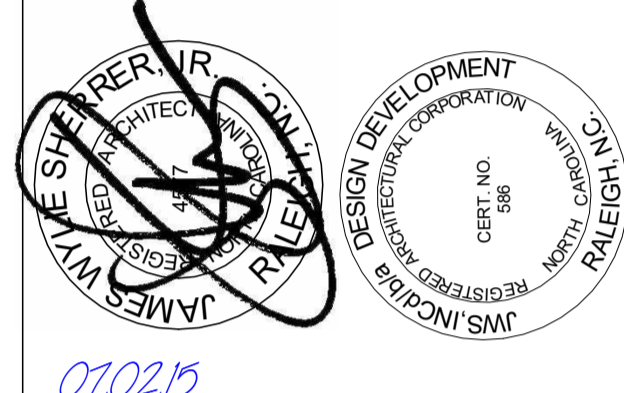
THERMAL zONE
Interior design conditions
Building heating load
Building cooling load
Mechanical Space Conditioning Systems
List equipment efficiencies:

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PROJECT #: 240012
DATE: 08-20-2024
BUILDING CODE SUMMARY
T2
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TOTAL OCCUPANTS = 104

1 LIFE SAFETY PLAN
1/16" = 1'-0"

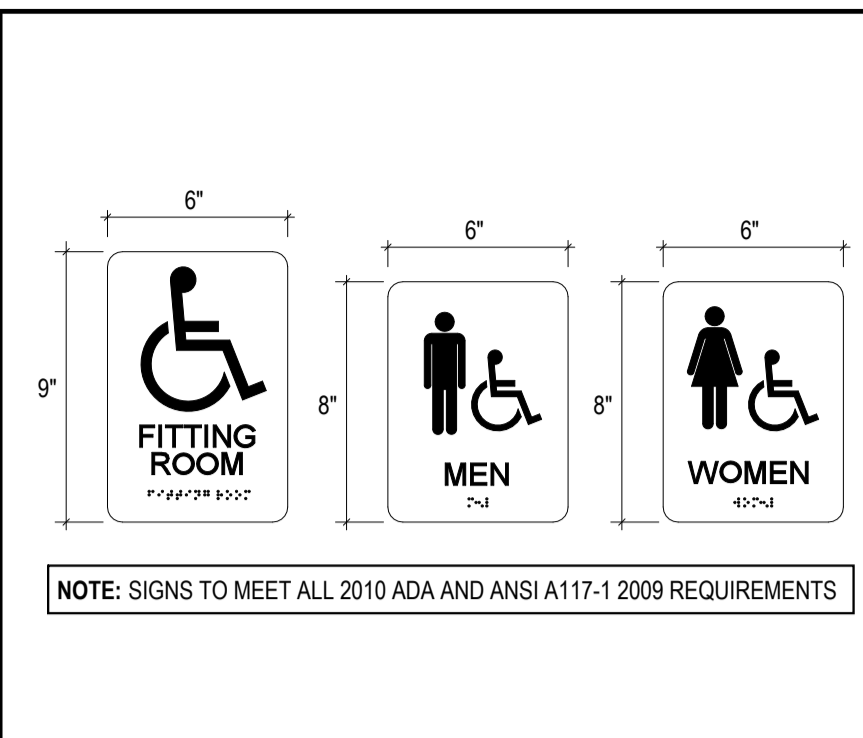
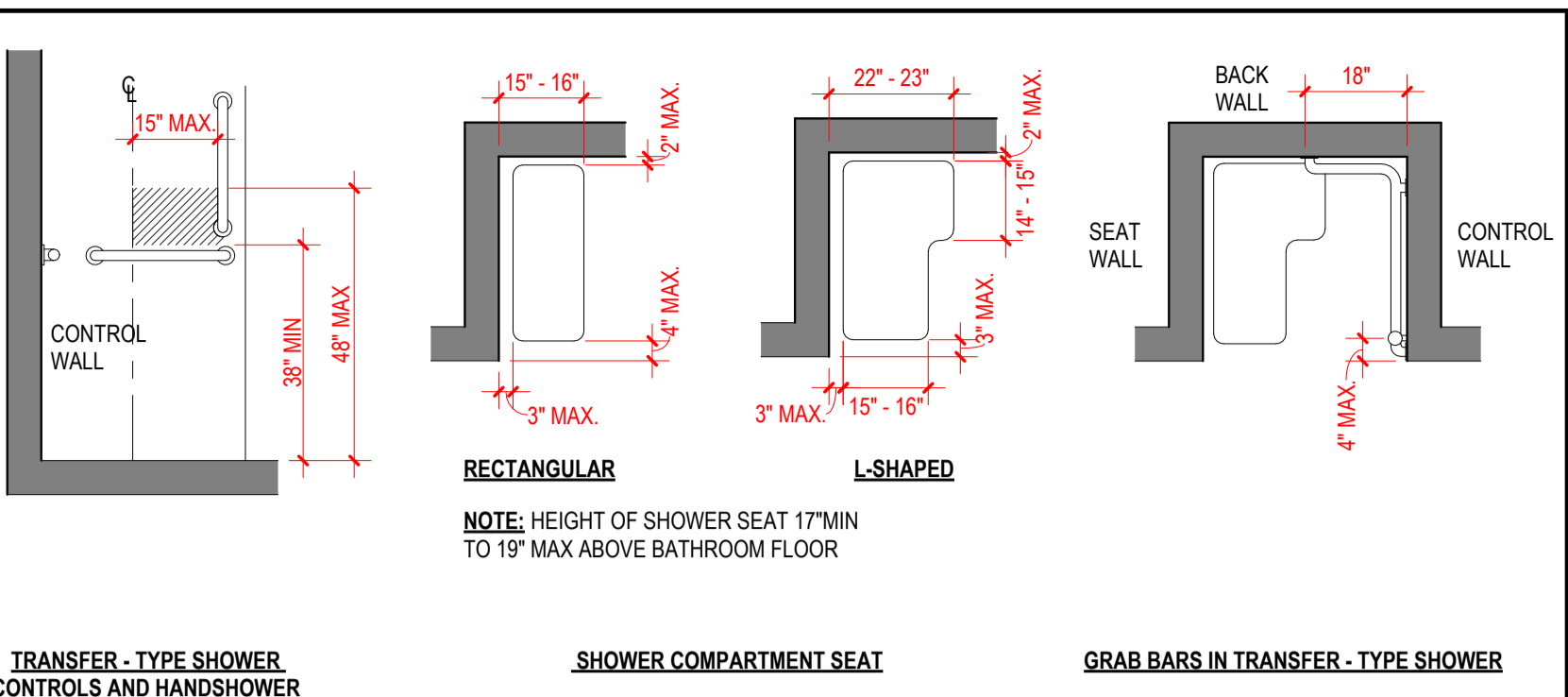
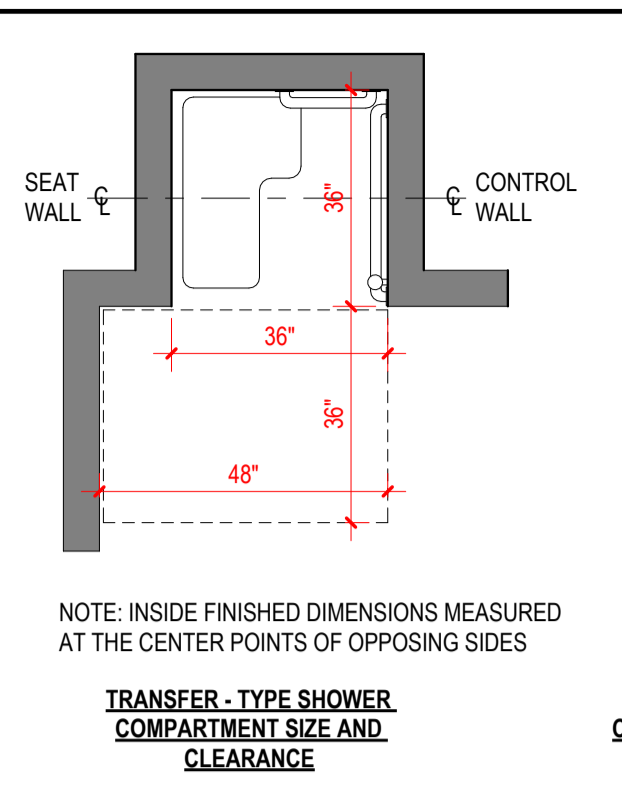
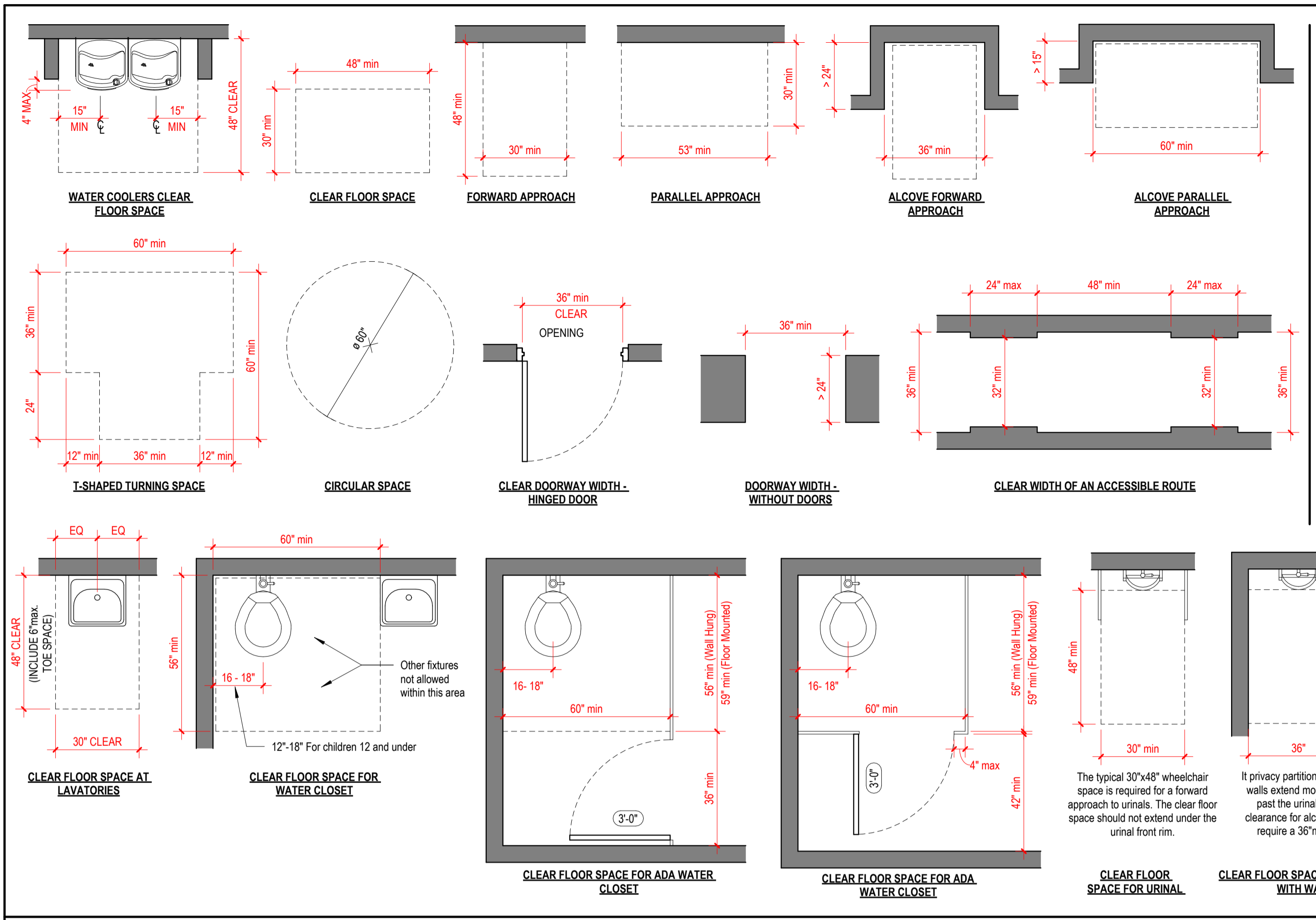


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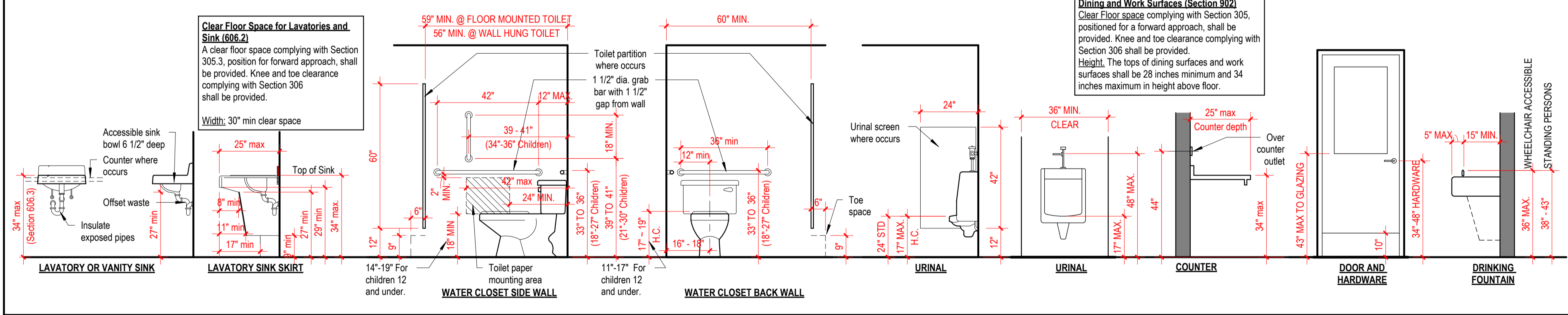
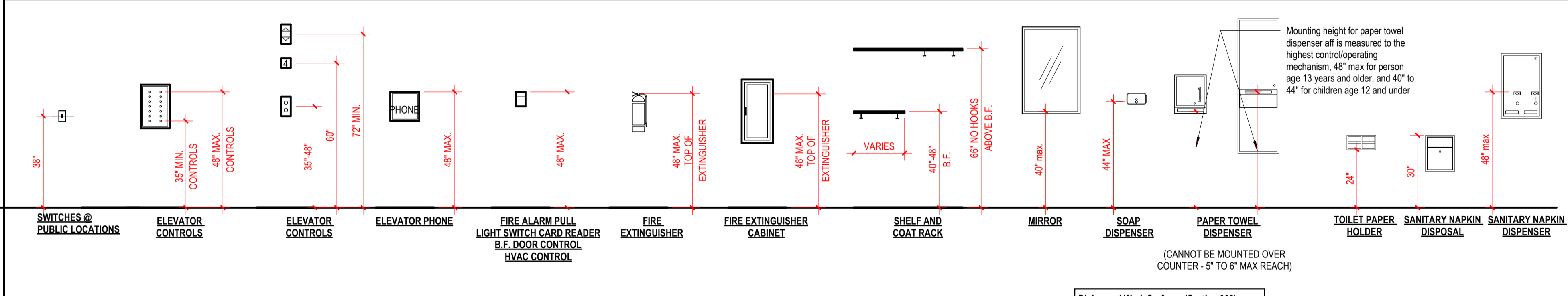
No.	Description	Date

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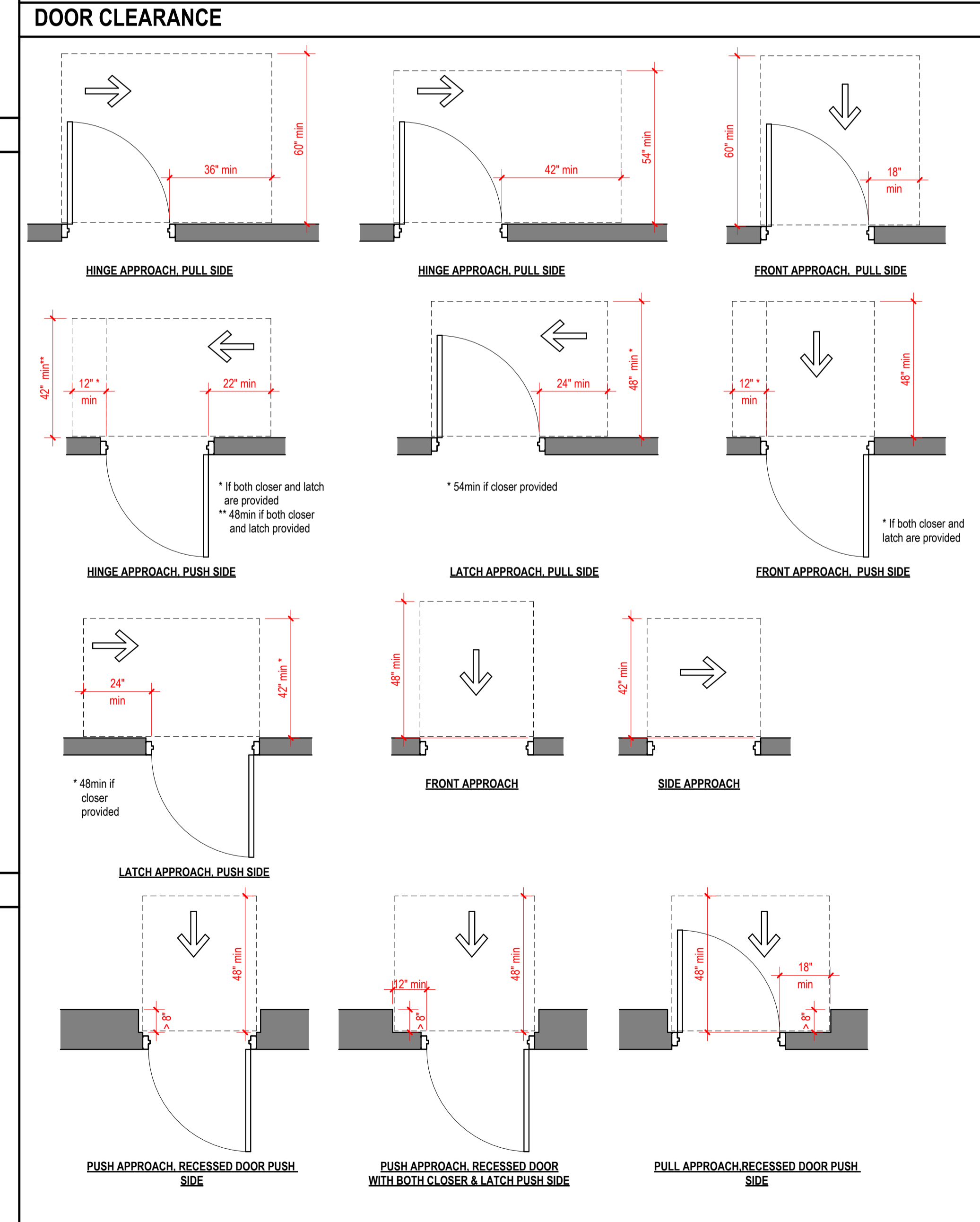
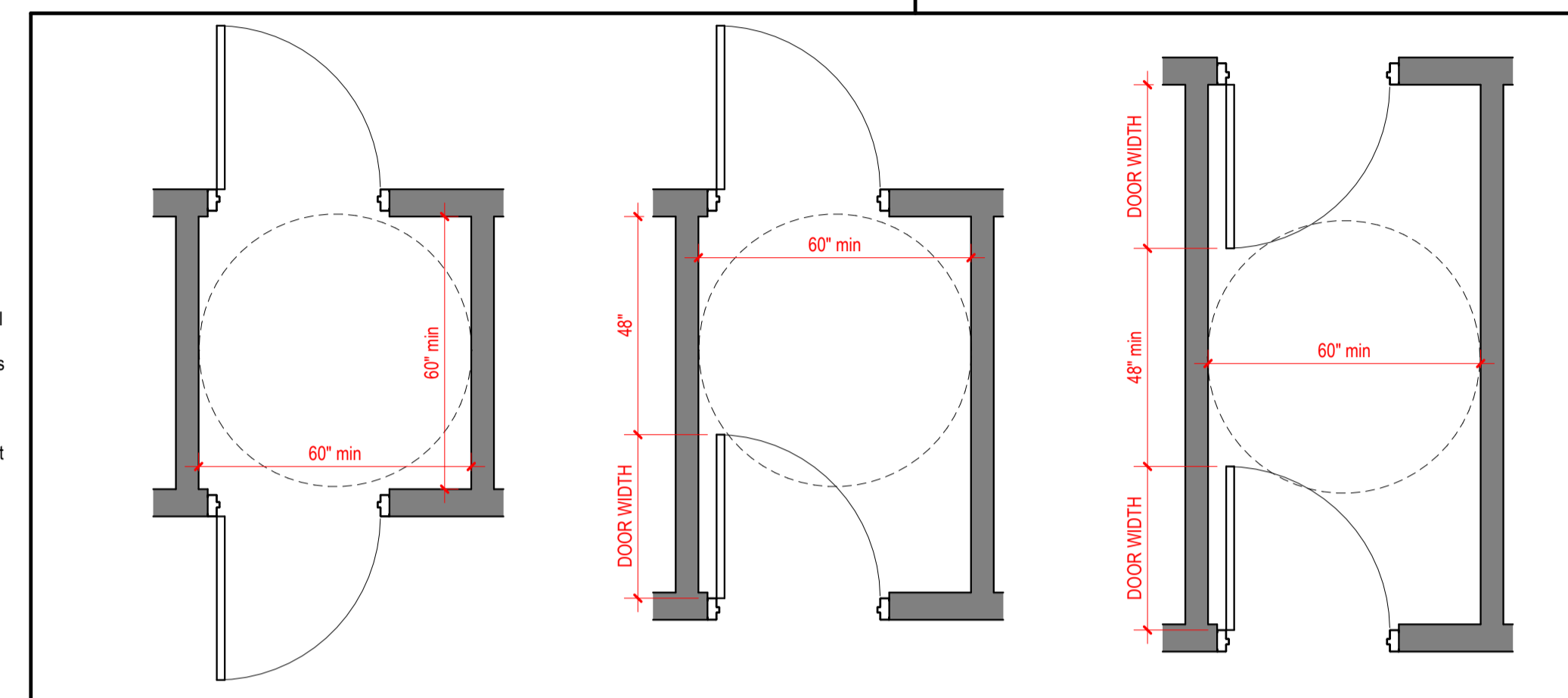
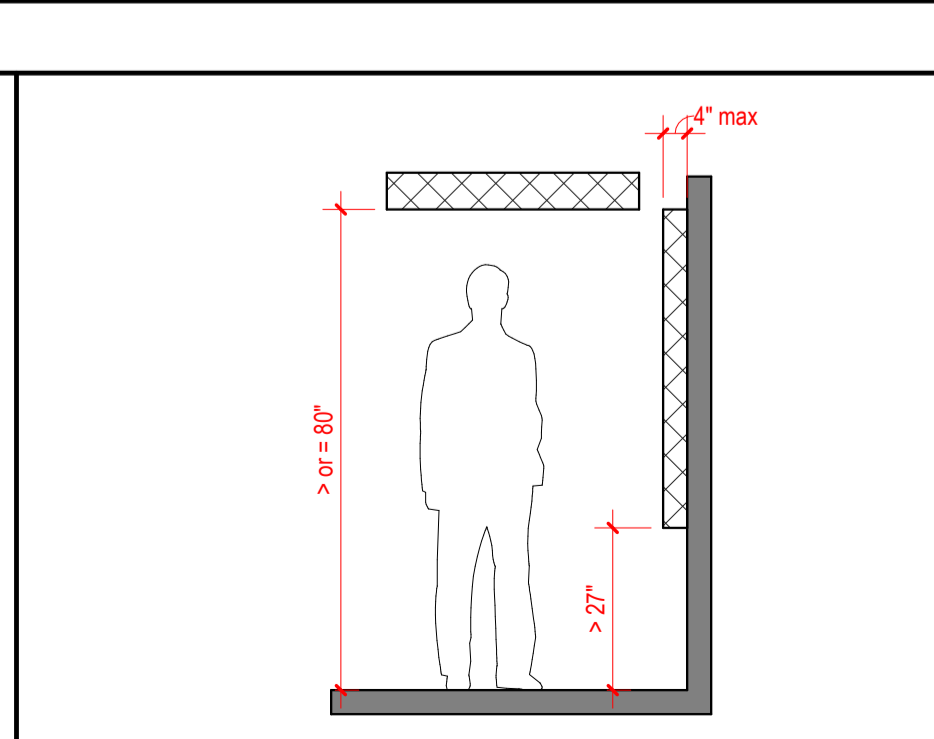
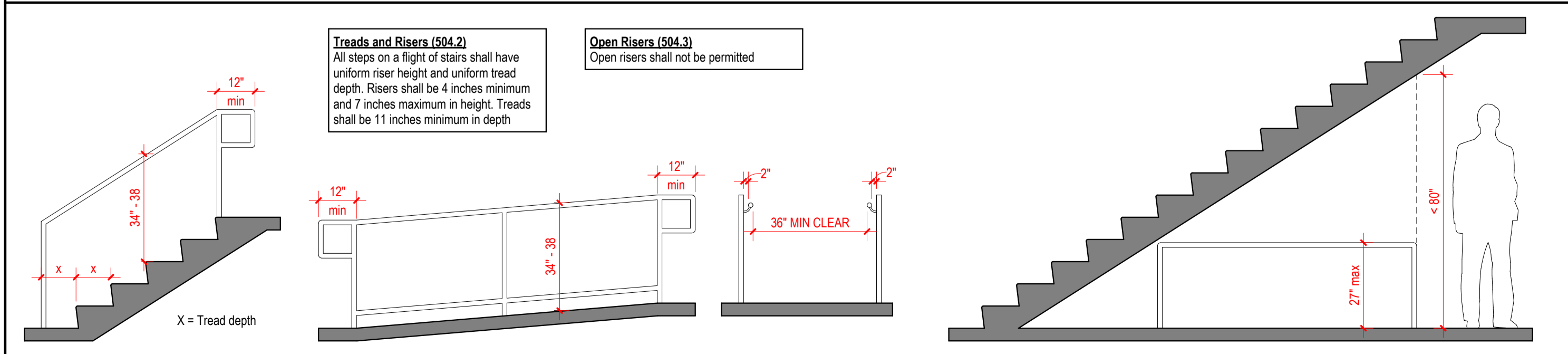
LIFE SAFETY PLAN



FLOOR CLEARANCE



ACCESSIBLE HEIGHTS



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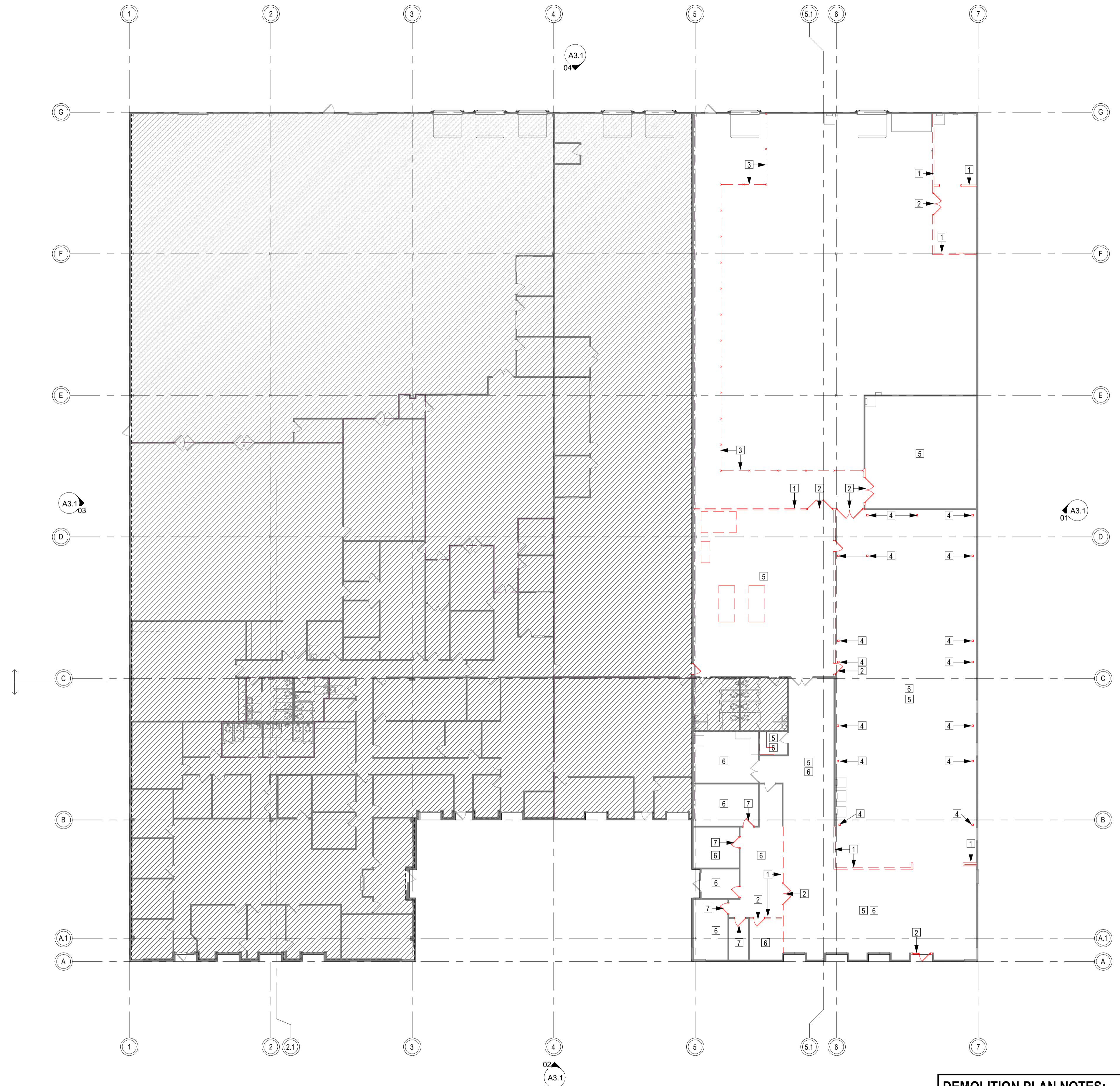
No.	Description	Date

PROJECT #: 240012
DATE: 08-20-2024

GUIDELINES OR ACCESSIBILITY REQUIREMENTS

A0.2

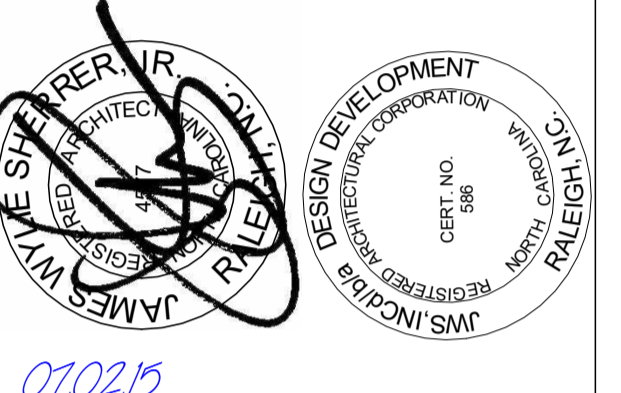
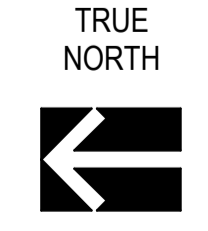
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01 DEMOLITION - FLOOR PLAN
1/16" = 1'-0"

DEMOLITION PLAN NOTES:

- 1 DEMOLISH INDICATED WALL. PATCH FLOOR AND ADJACENT WALLS AS NECESSARY ONCE REMOVED
- 2 DEMOLISH INDICATED DOORS
- 3 SALVAGE EXISTING FENCE, GATE SYSTEM, AND RELATED STRUCTURAL SUPPORTS. REPAIR/PATCH FLOORING AS REQUIRED
- 4 DEMOLISH INDICATED EXISTING NON-STRUCTURAL SYSTEM. REPAIR/REPLACE FLOORING AS REQUIRED
- 5 EXISTING CASEWORK & FURNITURE IN AREA TO BE REMOVED AS PER OWNER REQUEST
- 6 EXISTING FLOORING & WALL BASE TO BE REMOVED AS REQUIRED FOR NEW INSTALLATION
- 7 REMOVE EXISTING DOOR PANEL AND REPLACE WITH NEW, REFER TO DOOR SCHEDULE



07.02.15

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PROJECT #: 240012

DATE: 08-20-2024

DEMOLITION PLAN

A1.1

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01 DEMOLITION REFLECTED CEILING PLAN

1/16" = 1'-0"



RCP DEMOLITION NOTES:

- 1 DEMOLISH CEILING SYSTEM IN ITS ENTIRETY WITHIN SPACE
- 2 DEMOLISH LIGHT FIXTURES IN AREA
- 3 DEMOLISH INDICATED EXISTING NON-STRUCTURAL SYSTEM, TYP.

NOTE: THE EXISTING LOCATIONS SHOWN ON DEMO PLAN TO BE REMOVED, RELOCATED, OR SALVAGED ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE WORK. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

No.	Description	Date

PROJECT #: 240012

DATE: 08-20-2024

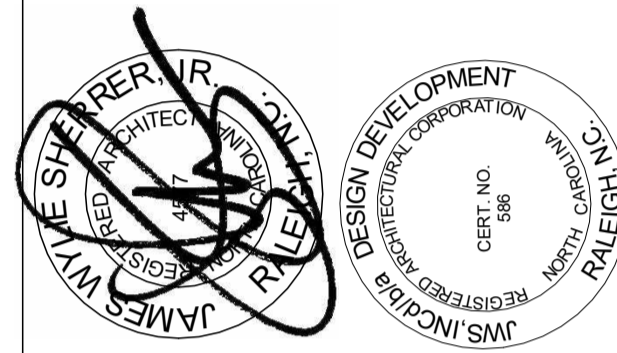
DEMOLITION REFLECTED CEILING PLAN

A1.2

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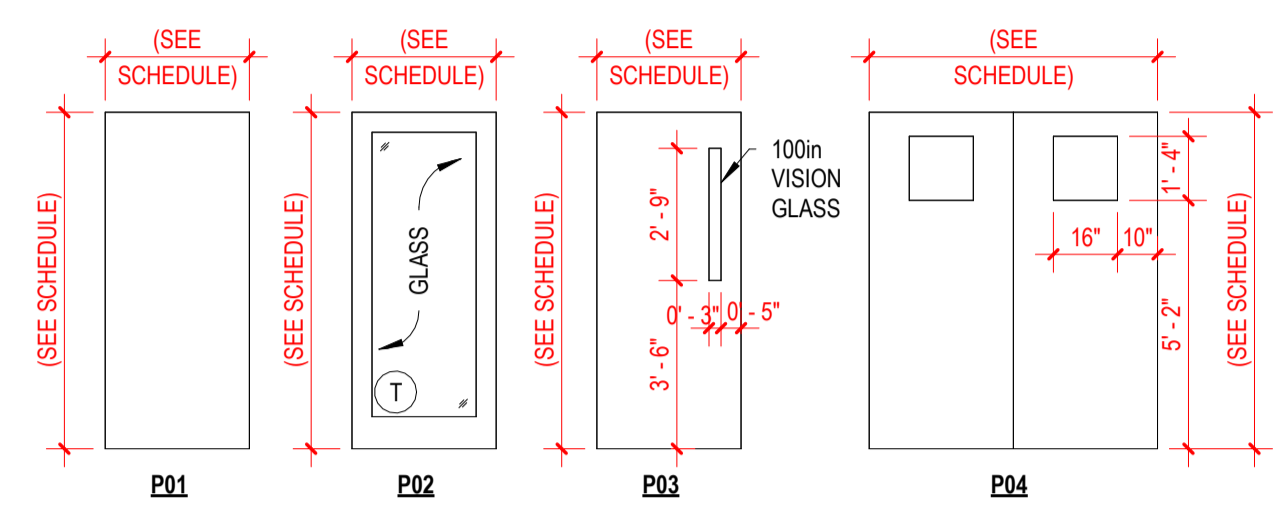
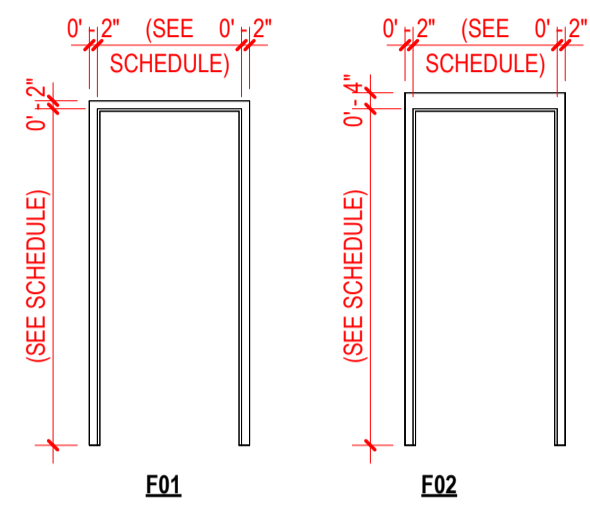
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Door Schedule (All)													
No.	Qty.	DOOR			FRAME		W. SHIP	THRES.	CLOSERS	Rating	Hardware Group	NOTES	
		W	H	T	MATL	TYPE							
01A		5'-8"	7'-0"	13/4"	P02	ALUM	S.C.WD.	F01	H.M.				
01B	2	6'-0"	7'-0"	13/4"	P04	S.C.WD.	F01	H.M.			DOUBLE ACTING DOUBLE DOOR		
01C	2	6'-0"	7'-0"	13/4"	P03	H.M.	F01	H.M.					
02	1	3'-0"	7'-0"	13/4"	P01	S.C.WD.	F01	H.M.					
03	1	3'-0"	7'-0"	13/4"	P03	S.C.WD.	F01	H.M.					
04B	1	3'-0"	7'-0"	13/4"	P03	S.C.WD.	F01	H.M.					
05	1	3'-0"	7'-0"	13/4"	P03	S.C.WD.	F01	H.M.					
06	1	3'-0"	7'-0"	13/4"	P03	S.C.WD.	F01	H.M.					
13	1	10'-0"	10'-0"	13/4"	P03	S.C.WD.	F01	H.M.					
14	1	3'-0"	7'-0"	13/4"	P03	S.C.WD.	F01	H.M.					



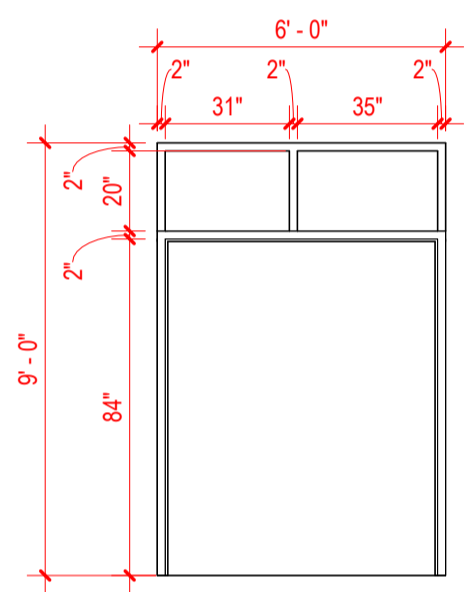
ELEVATIONS - FRAME

1/4" = 1'-0"

ELEVATIONS - LEAF

1/4" = 1'-0"

Window Schedule					
No.	Qty.	Description	Height	Width	Sill Height
A	2		48"	36"	24"



ELEVATIONS - STOREFRONT

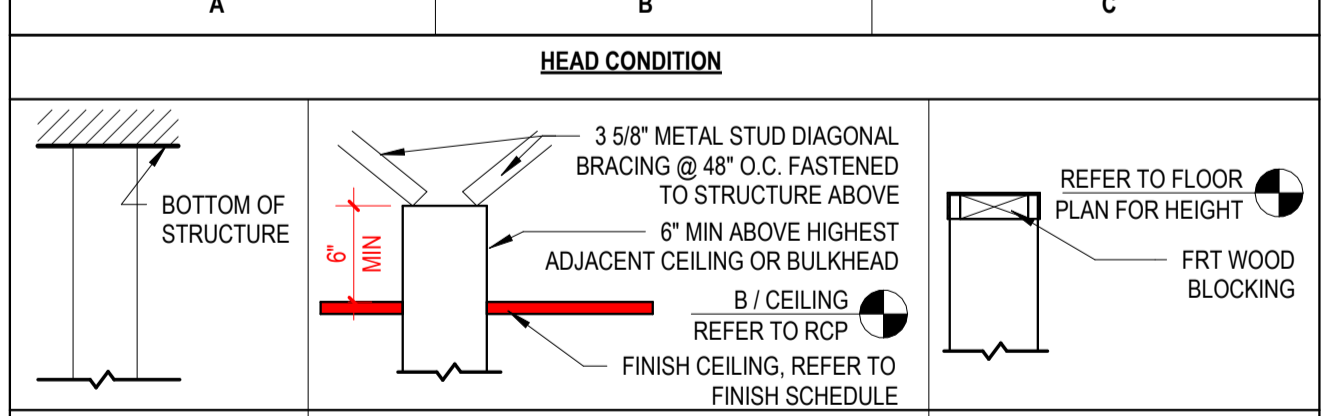
1/4" = 1'-0"

ELEVATIONS - WINDOW

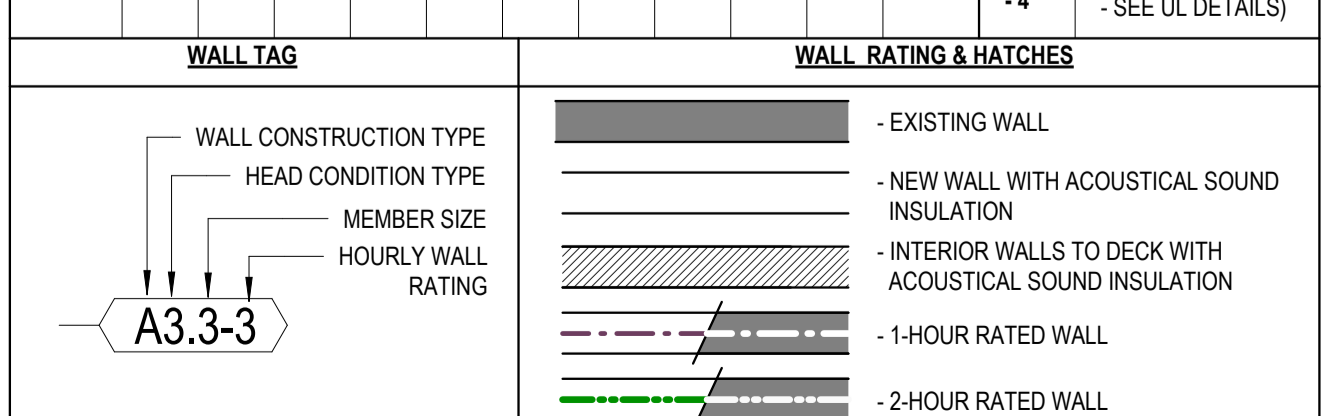
1/4" = 1'-0"

(NOTE: PROVIDE ACOUSTICAL SOUND INSULATION IN ALL WALLS)

WALL CONSTRUCTION TYPE		
A	MTL STD @ 16" O.C. 1 LAYERS 5/8" GYP. BOARD EACH SIDE BASE, REFER TO FINISH SCHEDULE	
B	MTL STD @ 16" O.C. 1 LAYERS 5/8" GYP. BOARD MTL STD BASE, REFER TO FINISH SCHEDULE	
C	MTL STD @ 16" O.C. 2 LAYERS 5/8" GYP. BOARD MTL STD BASE, REFER TO FINISH SCHEDULE	

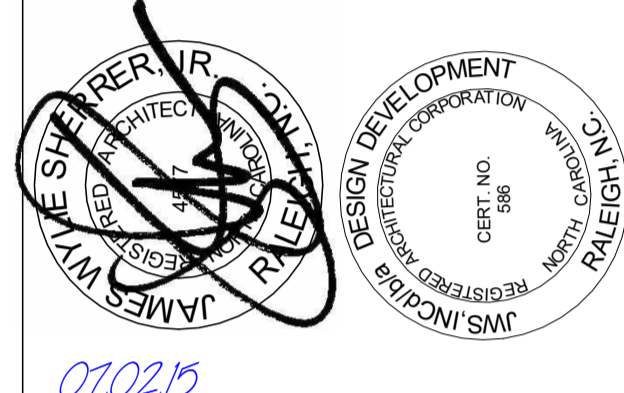
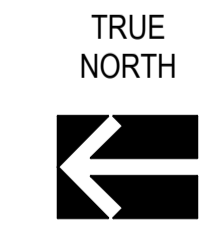
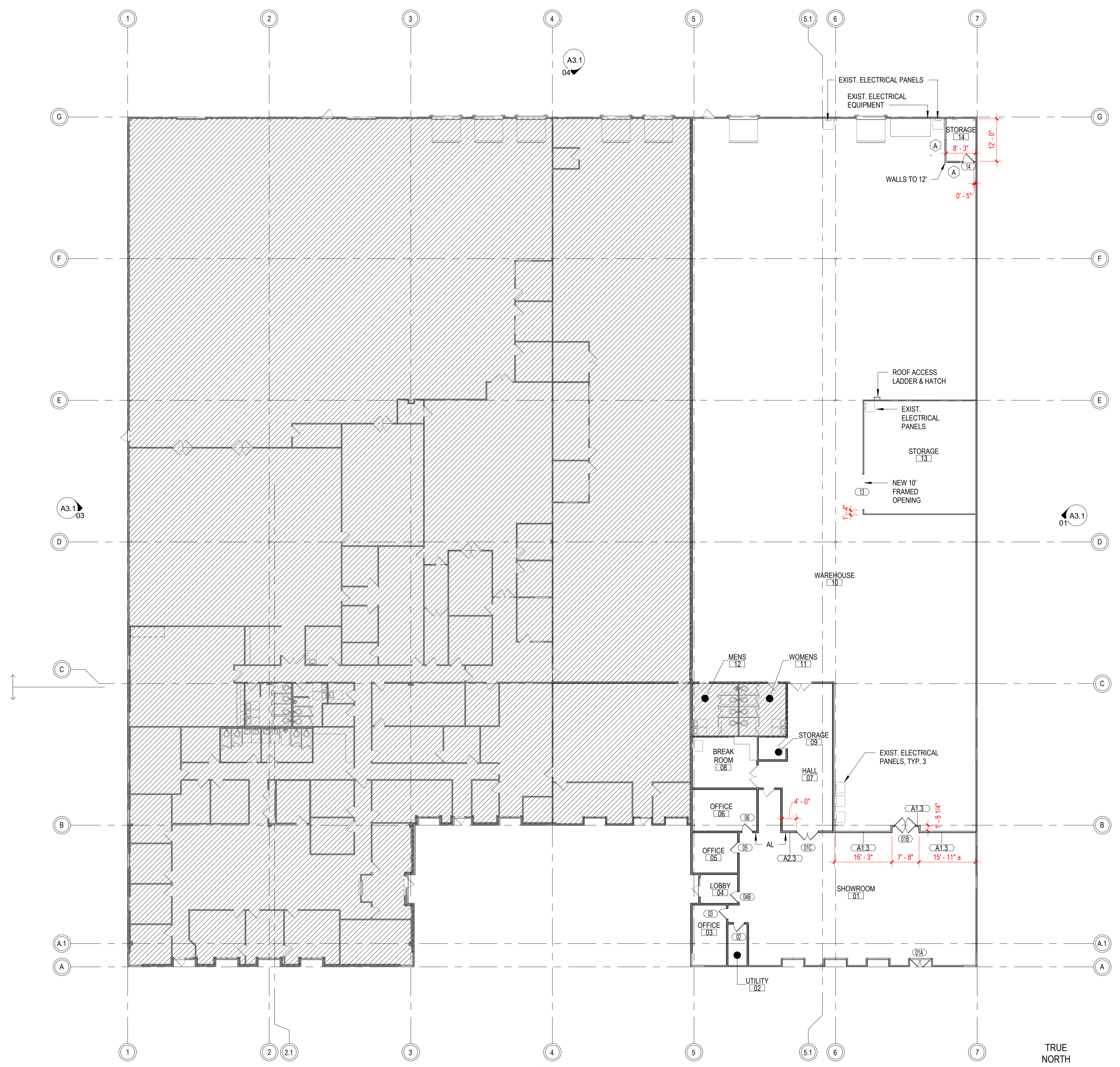


MEMBER SIZES	HOURLY WALL RATING											
	.0	.1	.2	.3	.4	.5	.6	.7	.8	.10	.12	Rating
Metal	7/8"	1 5/8"	2 1/2"	3 5/8"	4"		6"	7 1/2"	8"	10"	12"	-1 (1 HOUR RATING - SEE UL DETAILS)
Wood	3/4"	1 1/2"		3 1/2"		5 1/2"		7 1/2"	9 1/4"	11 1/4"		-2 (2 HOUR RATING - SEE UL DETAILS)
CMU					3 5/8"				7 5/8"		11 5/8"	-3 (3 HOUR RATING - SEE UL DETAILS)
Concrete												-4 (4 HOUR RATING - SEE UL DETAILS)



FLOOR PLAN NOTES:

01 FLOOR PLAN
1/16" = 1'-0"



070215

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No.	Description	Date

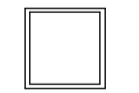

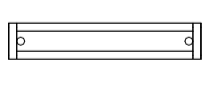

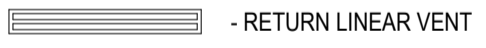
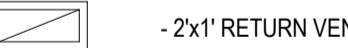

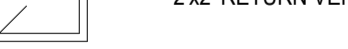








PROJECT #: 240012
DATE: 08-20-2024

FLOOR PLAN

A2.1

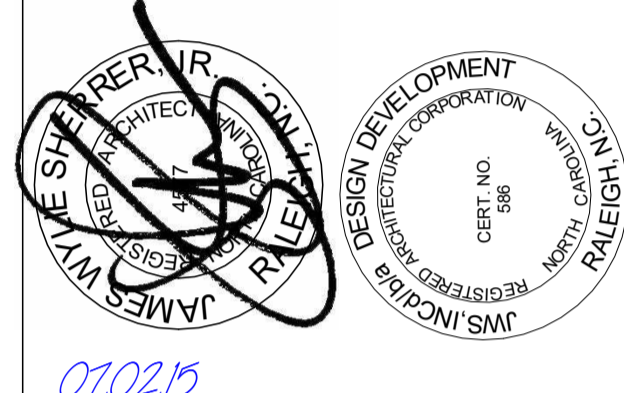
RCP SYMBOL LEGEND:

GENERAL NOTE:
THE FOLLOWING FIXTURES & DEVICE SYMBOLS HAVE BEEN IDENTIFIED ON THIS LEGEND TO IMPROVE CLARITY OF THE DESIGN INTENT. FIXTURE LOCATIONS ON ARCHITECTURAL PLANS ARE FOR REFERENCE ONLY. SEE SPECIFIC ENGINEER DRAWINGS FOR DETAILED LAYOUT OF ALL ELECTRICAL, MECHANICAL, FIRE SAFETY FIXTURES, AND THEIR SPECIFICATIONS. ALL PARTIES ARE TO NOTIFY ARCHITECT IN THE CASE OF CONFLICTS OR ERRORS. NOT ALL SYMBOLS ARE TO BE USED IN THIS PROJECT.

ELECTRICAL:	MECHANICAL:
 - 2 x 2 FLUORESCENT LIGHT  - ROUND CAN LIGHT  SUSPENDED LINEAR FLUORESCENT LIGHT  - EXIT LIGHT	 - RETURN LINEAR VENT  - 2x1 RETURN VENT  - 2x2 RETURN VENT  - 2x2 SUPPLY VENT
	FIRE ALARM:
	 - FIRE ALARM - CEILING  - SMOKE DETECTOR  - EMERGENCY LIGHTING
	FIRE SPRINKLER:
(FX) FIRE EXTINGUISHER SEE SPECS FOR MORE DETAILS. FINAL LOCATIONS MUST BE APPROVED BY ARCHITECT (IN ADDITION TO FIRE MARSHAL) PRIOR TO INSTALLATION. (K) KNOX BOX TO BE INSTALLED IN THIS LOCATION. BOX TO BE FULLY RECESSED INTO EXTERIOR WALL. ARCHITECT (IN ADDITION TO FIRE MARSHAL) MUST APPROVE FINAL LOCATION. INSTALLATION SHALL ENDEAVOR TO COORSE OUT WITH EXTERIOR WALL MATERIALS.	 - HANGING SPRINKLER HEAD  - SEMI RECESSED SPRINKLER HEAD  - RECESSED SPRINKLER HEAD  - SPRINKLER SIDEWALL
	AUDIO:
	 - AUDIO SPEAKER - CEILING



1 REFLECTED CEILING PLAN
1/16" = 1'-0"



010215

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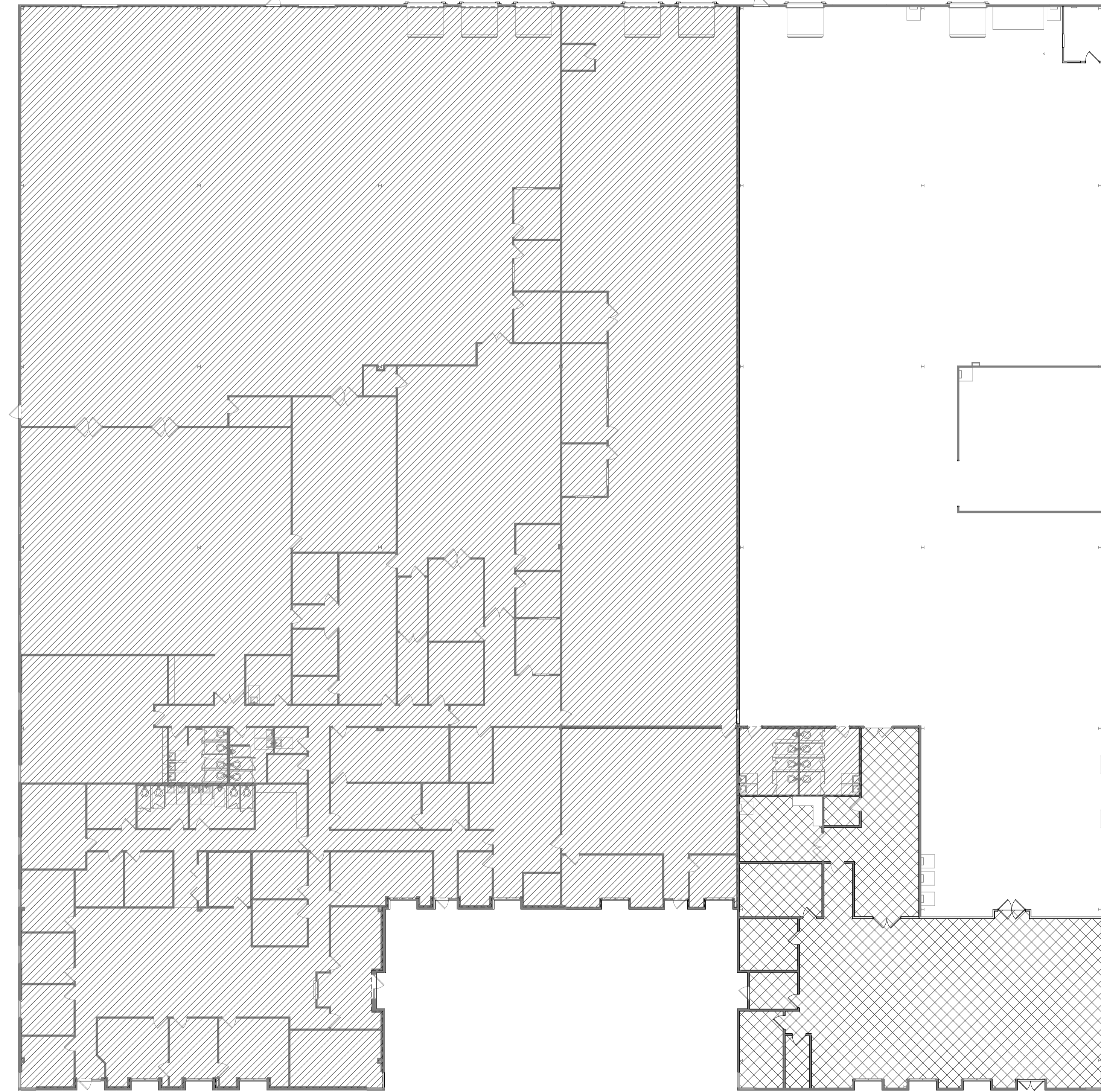
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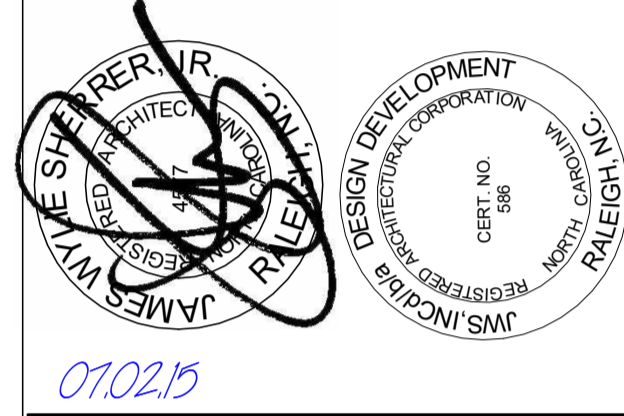
REFLECTED CEILING PLAN

Room Finish Schedule						
No.	Name	Wall	Floor	Base	Ceiling	Remarks
01	SHOWROOM	GYP BD	LVT	RUBBER	ACT	
02	UTILITY	GYP BD	EXIST.	EXIST.	ACT	
03	OFFICE	GYP BD	LVT	VINYL	ACT	
04	LOBBY	GYP BD	LVT	VINYL	ACT	
05	OFFICE	GYP BD	LVT	VINYL	ACT	
06	OFFICE	GYP BD	LVT	VINYL	ACT	
07	HALL	GYP BD	LVT	RUBBER	ACT	
08	BREAK ROOM	GYP BD	LVT	VINYL	ACT	
09	STORAGE	GYP BD	LVT	RUBBER	ACT	
10	WAREHOUSE	GYP BD	EXIST.	EXIST.	OPEN	
11	WOMENS	EXIST	EXIST	EXIST	EXIST	
12	MENS	EXIST	EXIST	EXIST	EXIST	
13	STORAGE	GYP BD	EXIST.	EXIST.	OPEN	
14	STORAGE	GYP BD	LVT	RUBBER	ACT	



FLOOR FINISH LEGEND	
	LUXURY VINYL TILE

1 FLOOR FINISHES PLAN
1/16" = 1'-0"



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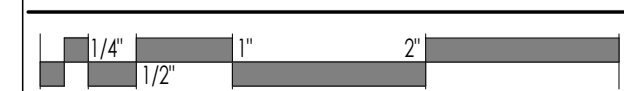
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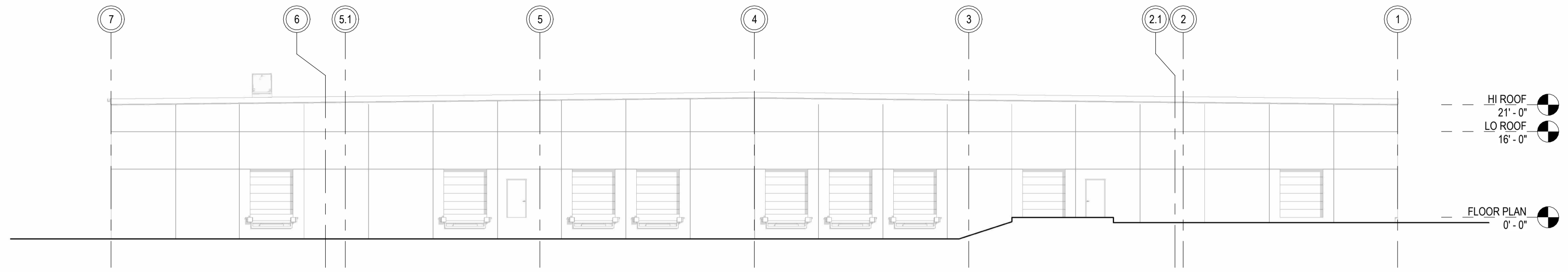
PROJECT #: 240012

DATE: 08-20-2024

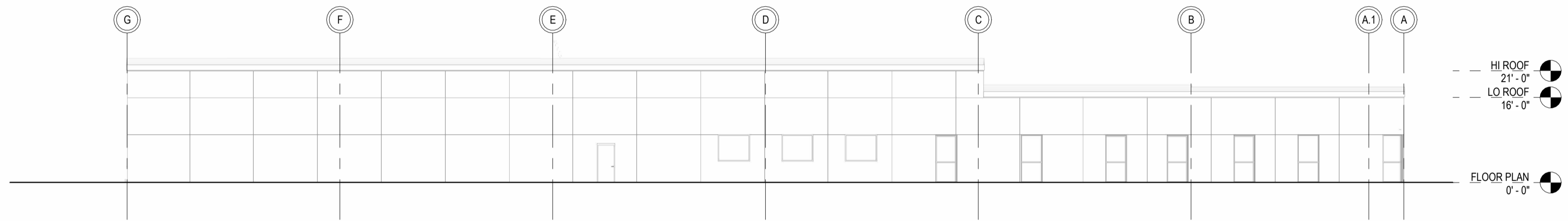
FLOOR FINISHES PLAN

A2.3

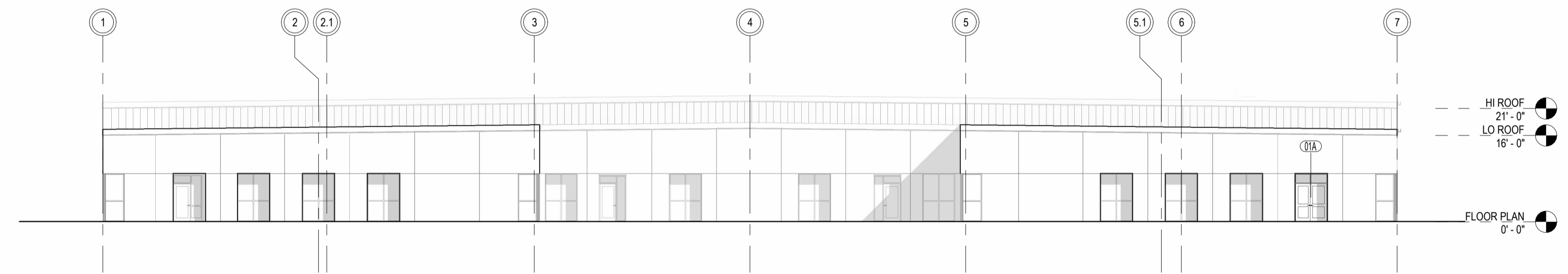




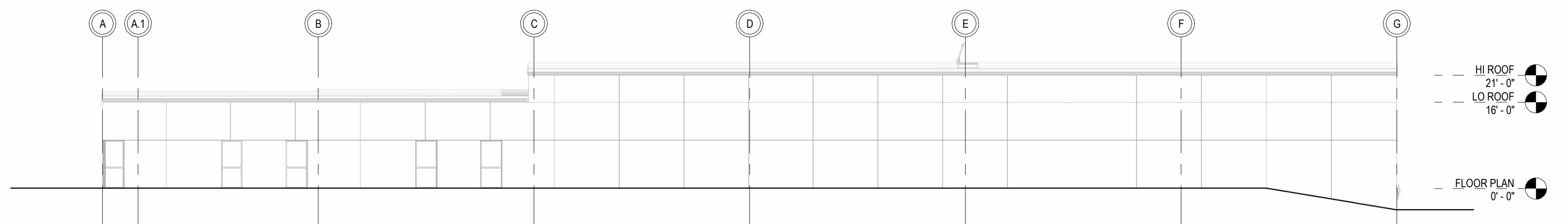
04 EAST ELEVATION
1/16" = 1'-0"



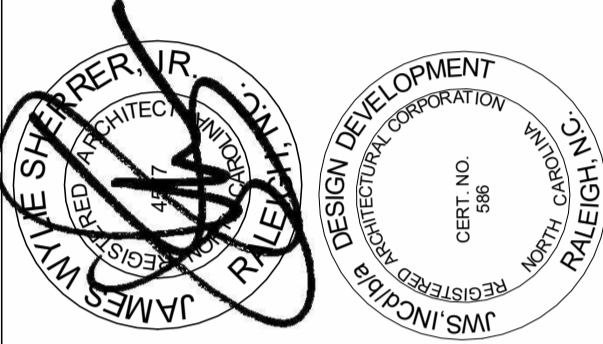
03 NORTH ELEVATION
1/16" = 1'-0"



02 WEST ELEVATION
1/16" = 1'-0"



01 SOUTH ELEVATION
1/16" = 1'-0"



07.02.15

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No.	Description	Date

PROJECT #: 240012

DATE: 08-20-2024

BUILDING ELEVATIONS

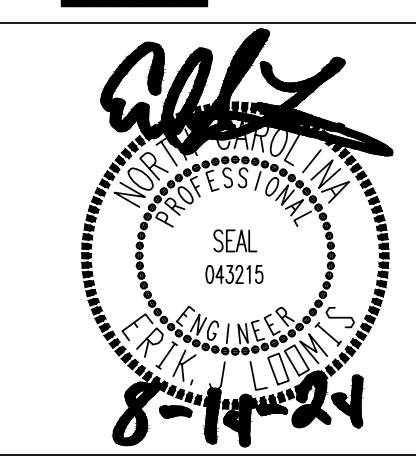
A3.1



LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER & MODEL	DESCRIPTION	VOLTAGE	BALLAST/DRIVER TYPE & QUANTITY	DIMMING TYPE & MINIMUM LEVEL	LAMP TYPE	LUMENS	CCT (K)	MIN. CRI	LOAD (VA)
XD1	EXISTING TO BE DEMOLISHED	2X4 PARACUBIC 2 LAMP FLUORESCENT	277/1	EXISTING	EXISTING	EX.	EXISTING	EX.	EX.	EX.
XD2	EXISTING TO BE DEMOLISHED	2X4 PARACUBIC 3 LAMP FLUORESCENT	277/1	EXISTING	EXISTING	EX.	EXISTING	EX.	EX.	EX.
XD3	EXISTING TO BE DEMOLISHED	2X2 PARACUBIC 2 LAMP FLUORESCENT	277/1	EXISTING	EXISTING	EX.	EXISTING	EX.	EX.	EX.
XD4	EXISTING TO BE DEMOLISHED	2X4 PRISMATIC 4 LAMP FLUORESCENT	277/1	EXISTING	EXISTING	EX.	EXISTING	EX.	EX.	EX.
XD5	EXISTING TO BE DEMOLISHED	1X4 PRISMATIC 2 LAMP FLUORESCENT	277/1	EXISTING	EXISTING	EX.	EXISTING	EX.	EX.	EX.
XD6	EXISTING TO BE DEMOLISHED	1X8 2 LAMP FLUORESCENT STRIP	277/1	EXISTING	EXISTING	EX.	EXISTING	EX.	EX.	EX.
XD7	EXISTING TO BE DEMOLISHED	CEILING PENDANT DOWNLIGHT	277/1	EXISTING	EXISTING	EX.	EXISTING	EX.	EX.	EX.
XR5	EXISTING TO REMAIN	1X4 PRISMATIC 2 LAMP FLUORESCENT	277/1	EXISTING	EXISTING	EX.	EXISTING	EX.	EX.	EX.
XR8	EXISTING TO REMAIN	EXTERIOR WALL SCONCE	277/1	EXISTING	EXISTING	EX.	EXISTING	EX.	EX.	EX.
A	LITHONIA #STAK-2X2-4000LM-80CRI-35K-COL-MINI-ZT-MVOLT	2X2 LED TROFFER	277/1	1-LED DRIVER	0-10V, 1%	LED	4,126	3500	80	33
B	LITHONIA #CLX-L96-6000LM-SEF-WDL-MVOLT-EZ1-35K-80CRI-WH	8' LED STRIP	277/1	1-LED DRIVER	0-10V, 1%	LED	5,897	3500	80	37
EM	LITHONIA #ELMLT-W-LP06VS-LPT	EMERGENCY WALLPACK (BATTERY)	120/277/1							
⊗	LITHONIA #EXRG-EL-M6	EMERGENCY EXIT LIGHT (BATTERY)	120/277/1							

NOTES:
 1. ALL FIXTURES, BALLASTS, AND DRIVERS SHALL COMPLY WITH N.C. BUILDING CODE, 2018 NORTH CAROLINA ENERGY CONSERVATION CODE AND SHALL BE UL LISTED. ALL T8 BALLASTS SHALL BE INSTANT START, HIGH-PERFORMANCE ELECTRONIC WITH NORMAL BALLAST FACTOR (0.88) UNLESS OTHERWISE NOTED. ALL LED DRIVERS SHALL COMPLY WITH NEMA 410.
 2. ALL FIXTURES NOTED AS EMERGENCY SHALL HAVE EMERGENCY ILLUMINATION FUNCTIONALITY AS DESCRIBED BELOW. IN ALL CASES, BATTERIES MUST BE RATED FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
 • INTERIOR LINEAR FLUORESCENT & LED FIXTURES SHALL HAVE 1,100 LUMEN (MINIMUM) OUTPUT, 90 MINUTE BATTERY PACK. FLUORESCENT & LED DOWNLIGHTS SHALL HAVE A 500 LUMEN (MINIMUM) OUTPUT, 90 MINUTE BATTERY PACK OR SHALL BE PROVIDED WITH A FULL OUTPUT INVERTER.
 • EXTERIOR EMERGENCY LIGHTS SHALL HAVE AN INTEGRAL EXTERIOR RATED (0° F) OR REMOTE MOUNTED 1,100 LUMEN OUTPUT 90 MINUTE BATTERY.
 • TEST SWITCHES FOR EMERGENCY BATTERIES SHALL BE INTEGRAL TO THE FIXTURE SERVED BY THE BATTERY.
 • EMERGENCY FIXTURES SHALL OPERATE ONE LAMP WHERE MULTIPLE EMERGENCY FIXTURES ARE TO BE INSTALLED IN AN AREA, AND SHALL OPERATE TWO LAMPS WHERE THE LOSS OF A SINGLE LAMP WOULD RENDER THE SPACE IN TOTAL DARKNESS DURING EMERGENCY OPERATION.
 • WHERE EMERGENCY LIGHTS PROVIDE EMERGENCY ILLUMINATION IN AREAS NORMALLY LIT BY METAL HALIDE FIXTURES (OR SIMILAR SOURCES) WITH RESTRIKE DELAY, THE EMERGENCY BATTERY SHALL BE PROVIDED WITH A TIME DELAY TO MAINTAIN BATTERY ILLUMINATION FOR 15 MINUTES AFTER THE RESTORATION OF NORMAL POWER.
 • EMERGENCY LIGHTING DESIGN IS BASED ON EXISTING FIXTURES LUMEN OUTPUTS AS DESCRIBED ABOVE. CONTRACTOR SHALL VERIFY ANY EXISTING EMERGENCY FIXTURE BATTERIES HAVE LUMEN OUTPUTS AS INDICATED AND SHALL REPLACE ANY BATTERIES RATED LESS.
 • EMERGENCY LIGHTING UNITS WITH DEDICATED EMERGENCY HEADS SHALL PROVIDE 1 F.C. FOR AT LEAST 25' FOR A MINIMUM OF 90 MINUTES.
 3. ALL NEW, RELOCATED, OR RESWITCHED FIXTURES THAT UTILIZE BALLASTS SHALL BE PROVIDED WITH A LUMINAIRE DISCONNECT WHERE REQUIRED PER NEC SECTION 410.130(G). USE IDEAL POWERPLUG OR EQUAL INTERNAL TO FIXTURE.
 4. LAMP COLOR TEMPERATURE FOR NEW LAMPS SHALL MATCH EXISTING LAMPS IN EXISTING FIXTURES TO REMAIN, AND ALL LAMP COLORS FOR DIFFERENT FIXTURE TYPES AND SOURCES SHALL BE CONSISTENT THROUGHOUT THE SPACE OR AREA UNLESS SPECIFICALLY NOTED OTHERWISE. NEW LAMPS WITH NO EXISTING LAMPS TO MATCH SHALL BE 3500K UNLESS OTHERWISE NOTED. CONTRACTOR SHALL ENSURE THAT ALL INTERIOR AND EXTERIOR LAMPS ARE THE SAME COLOR TEMPERATURE.
 5. EQUALS MUST BE APPROVED BY ENGINEER PRIOR TO ORDER. VENDORS, CONTRACTORS OR MANUFACTURERS OF SUBMITTED ALTERNATE FIXTURE(S) SHALL BE PREPARED TO PROVIDE BOTH IES FILES OF THE PROPOSED FIXTURE(S) AS WELL AS A COMPLETE PHOTOMETRIC ANALYSIS OF THE ILLUMINATED AREA/SPACE TO DEMONSTRATE THE ALTERNATE FIXTURE(S) ARE PHOTOMETRICALLY EQUAL TO SPECIFIED FIXTURE(S).
 6. FIXTURES INDICATED AS DIMMABLE SHALL BE PROVIDED WITH ALL NECESSARY COMPONENTS (BALLAST, DRIVER, SWITCH ETC.) AS NECESSARY TO ACHIEVE 1% (OR LESS) MINIMUM DIMMING UNLESS A SPECIFIC MINIMUM DIMMING LEVEL IS INDICATED. CONTRACTOR SHALL PROVIDE ALL LOW-VOLTAGE CONTROL WIRING AS REQUIRED FOR PROPER DIMMING OPERATION.
 7. FIXTURES NOTED AS 'SPECIFIED' BY OTHERS SHALL BE INCLUDED IN THE CONTRACTOR'S COST. THE CONTRACTOR SHALL EITHER VERIFY THE SPECIFICATION PRIOR TO PRICING OR PROVIDE AN ALLOWANCE OF AN AMOUNT TO BE CONFIRMED WITH THE GC/ARCHITECT ETC. VERIFY THAT THE COST OF FIXTURES NOTED AS 'PROVIDED' OR 'FURNISHED' BY OTHERS CAN BE EXCLUDED FROM THE CONTRACTOR'S PRICE WITH THE PARTY NOTED TO FURNISH THOSE FIXTURES. VERIFY ROUGH-IN REQUIREMENTS FOR FIXTURE PRIOR TO BEGINNING WORK. UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR REMAINS RESPONSIBLE FOR INCLUDING THE INSTALLATION AND CONNECTION OF THE FIXTURES IN THEIR PRICE.
 8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE PROPER LAMP(S) FOR EACH FIXTURE, AS RECOMMENDED BY THE FIXTURE MANUFACTURER AND FIXTURE SCHEDULE.



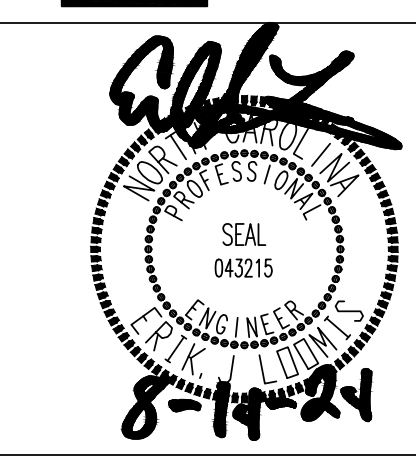
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No.	Description	Date

PROJECT #: 240012
 DATE: 08/14/2024
 ELECTRICAL DETAILS

E0.2



Classified by Underwriters Laboratories, Inc. to ASTM/UL1479 (ASTM E814)

System No. W-L-1222
 F Ratings - 1 and 2 Hr (See Item 1)
 T Ratings - 1/4, 3/4 and 1 Hr (See Item 2)

Section A-A

- Wall Assembly - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
 - Gypsum Board* - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Max diam of opening is 10-5/8 in. (270 mm).

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Through Penetrant - One metallic pipe, conduit or tube to be installed eccentrically or concentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. The annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe, conduit or tube to be rigidly supported on both sides of the wall assembly. The following types and sizes of metallic pipes, conduits and tubes may be used:

Type of Penetrant	Max Diam	T Rating
Steel or iron pipe, steel conduit or EMT	2 in. (51 mm)	1 hr
Steel or iron pipe, steel conduit or EMT	8 in. (203 mm)	3/4 hr
Copper pipe or tube	4 in. (102 mm)	1/4 hr

2A. Through Penetrating Product* - Flexible Metal Piping - As an alternate to Item 2, one nom 1-1/4 in. (32 mm) diam (or smaller) steel flexible metal pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe and the periphery of the opening shall be min 0 in. (0 mm, point contact) to max 2 in. (51 mm). Pipe to be rigidly supported on both sides of the wall assembly.

OMEGA FLEX INC
 GASTITE, DIV OF TITFLEX
 WARD MFG L L C

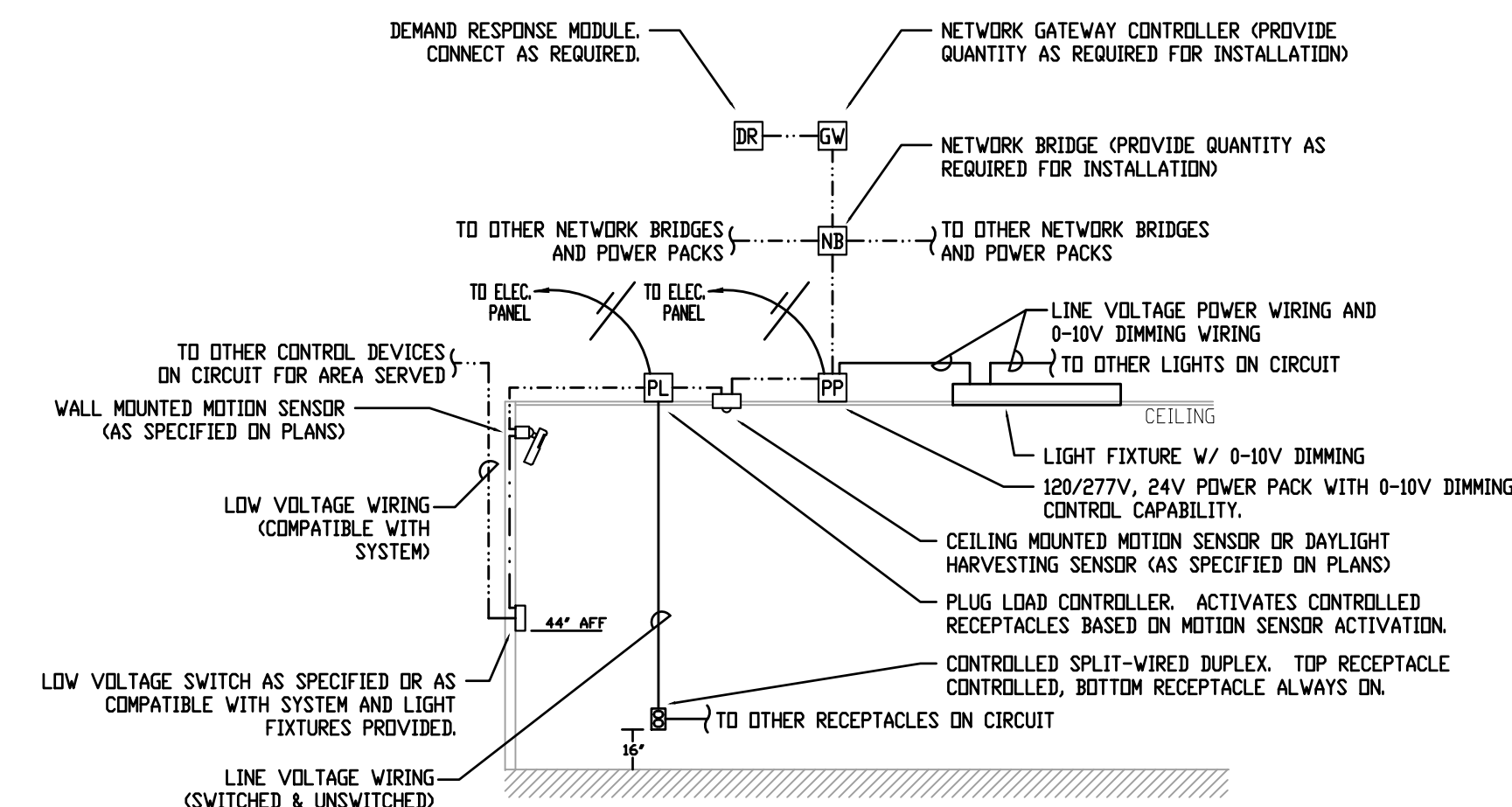
- Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall assembly. At point contact location, min 1/4 in. (6 mm) diam bead of fill material applied at metallic pipe/gypsum board interface on both surfaces of wall.

SPECIFIED TECHNOLOGIES INC - SpecSeal LCI Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Specified Technologies Inc., 210 Evans Way Somerville, NJ 08876
 Reproduced courtesy of Underwriters Laboratories, Inc.
 Created or Revised: January 23, 2014
 (800) 992-1180 • (303) 626-8000 • FAX: (908) 231-8415 • E-Mail: techserv@stfirestop.com • Website: www.stfirestop.com

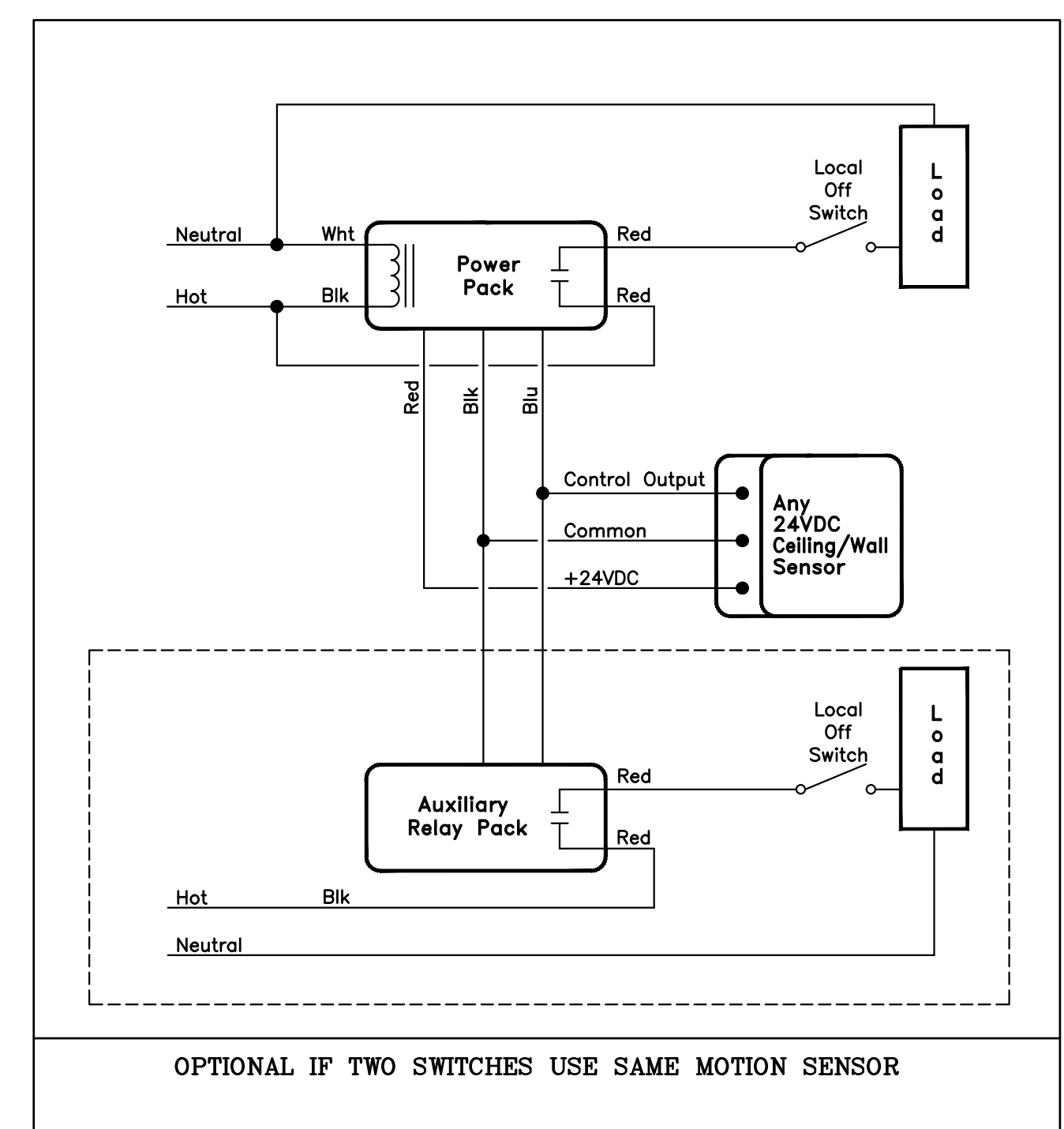
FOR FRAMED WALLS ONLY
1 OR 2 HOUR PENETRATION FIRESTOP
FOR METALLIC PIPE, CONDUIT, OR TUBING
 SCALE: NONE



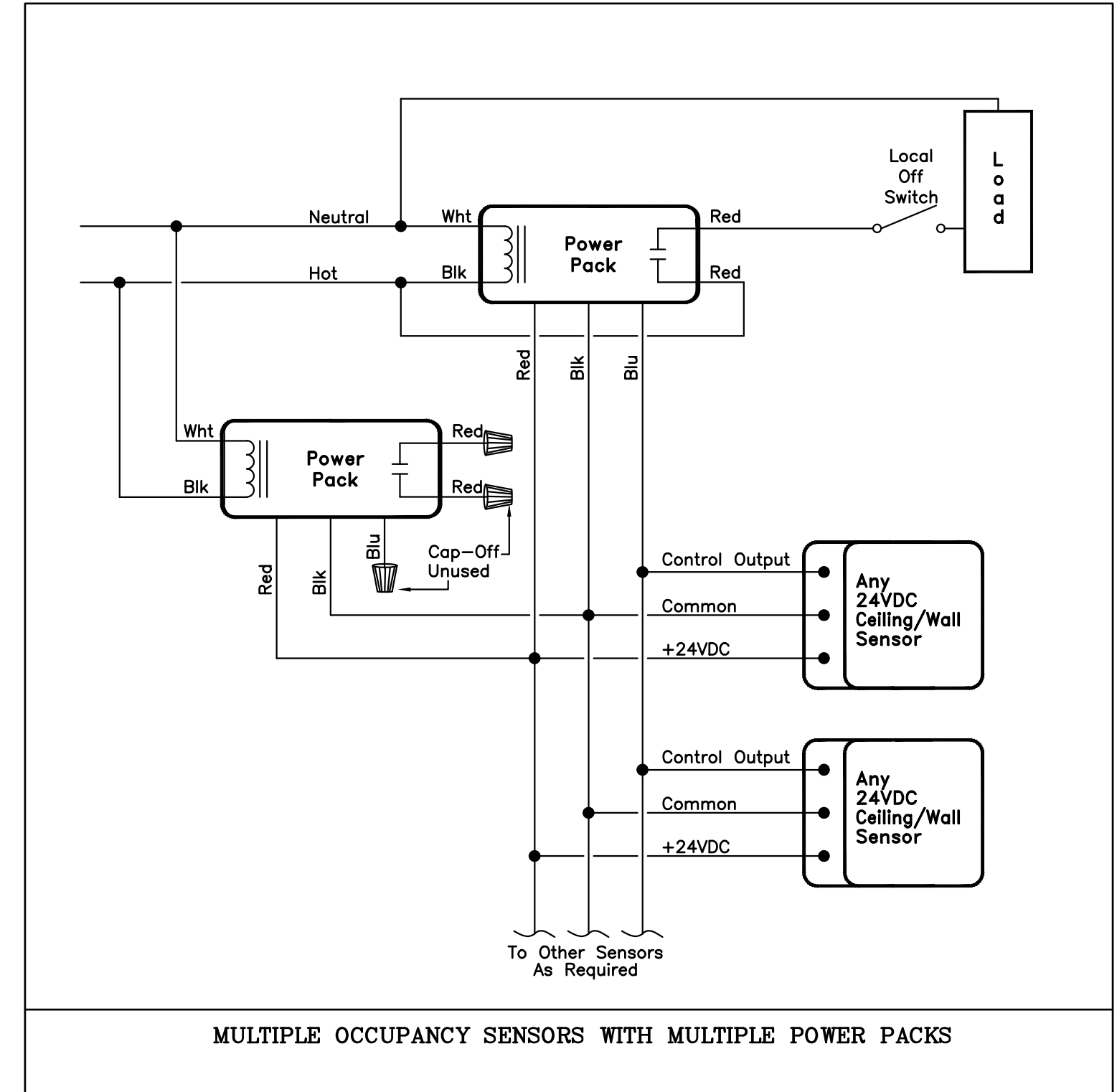
- S1 ▸ LOW VOLTAGE WALL/CEILING MOUNTED MOTION SENSOR FOR HALL COVERAGE. MOUNT ADJACENT TO WALL WITH CEILING BRACKET. N.LIGHT #HV13 W/ VV-BR BRACKET.
- S2 ⊕ LOW VOLTAGE 360° CEILING MOUNTED MOTION SENSOR, SMALL MOTION, DUAL TECHNOLOGY. N.LIGHT #M-PDT-9.
- S3 ▸ LOW VOLTAGE WALL/CEILING MOUNTED MOTION SENSOR, DUAL TECHNOLOGY. MOUNT ON WALL AT 10' AFF WHERE CEILINGS ARE NOT PRESENT OR OVER 10' AFF. MOUNT TO CEILING WHERE CEILINGS ARE 10' AFF OR LESS. N.LIGHT #VV-PDT-16-KIT.
- S4 ⊕ LOW VOLTAGE 360° CEILING MOUNTED MOTION SENSOR, LARGE MOTION, DUAL TECHNOLOGY. N.LIGHT #M-PDT-10.
- DH ⊕ LOW VOLTAGE CEILING MOUNTED DAYLIGHT HARVESTING DIMMING SENSOR. N.LIGHT #CM-ADCX-RJB
- DR ▢ N.LIGHT DEMAND RESPONSE MODULE. N.LIGHT #ADR. CONNECT AS REQUIRED.
- NB ▢ N.LIGHT NETWORK BRIDGE. N.LIGHT #NBRG 8 KIT
- GW ▢ N.LIGHT NETWORK GATEWAY CONTROLLER. N.LIGHT #NGV2 KIT
- PP ▢ 120/277V TO 24V POWER PACK WITH 0-10V DIMMING SUPPORT. N.LIGHT #PP16-DS
- PL ▢ PLUG LOAD CONTROL POWER PACK. N.LIGHT #PP20-PL
- DS ⊕ LOW VOLTAGE DIMMER STATION WITH ON/OFF & RAISE/LOWER BUTTONS. N.LIGHT #PDM-DX-1V.

- NOTES**
- CONTRACTOR SHALL PROVIDE ALL COMPONENTS AS REQUIRED FOR PROPER OPERATION OF LIGHTING CONTROLS.
 - CEILING MOUNTED MOTION SENSORS SHALL BE MOUNTED AT LEAST 6' FROM A DIFFUSER.
 - MOTION SENSORS AND MOTION SENSOR SWITCHES SHALL BE SET FOR 30 MINUTE TIME DELAY. CONTRACTOR SHALL ADJUST SENSITIVITY ON SENSOR AS REQUIRED TO MEET ROOM CONDITIONS AND SIZE.
 - LIGHTING CONTROLS SHALL BE SET FOR MANUAL ON, AUTOMATIC OFF FUNCTION IN ALL AREAS EXCEPT FOR CORRIDORS WHERE LIGHTS SHALL BE AUTOMATIC ON, MANUAL OFF AND DIMMED TO 50% WHEN NO MOTION HAS BEEN DETECTED FOR 15 MINUTES.
 - LIGHTING CONTROLS SUPPLIER SHALL DEVELOP FULL SYSTEM SHOP DRAWING INCLUDING ALL DEVICE LOCATIONS, REQUIRED WIRE RUNS, AND ALL REQUIRED BRIDGES FOR PROPER SYSTEM OPERATION AND INTEGRATION. SHOP DRAWING SHALL BE PROVIDED WITH LIGHTING CONTROLS SUBMITTAL TO ENGINEER FOR REVIEW.
 - ALL LIGHTING CONTROLS SYSTEM COMPONENTS SHALL MEET CALIFORNIA TITLE 24 AND CITY OF LOS ANGELES REQUIREMENTS. ALL LIGHTING CONTROL DEVICES AND EQUIPMENT SHALL BE CERTIFIED BY THE CALIFORNIA ENERGY COMMISSION.
 - CONTRACTOR SHALL PROVIDE AN INSTALLATION CERTIFICATE AS REQUIRED BY CALIFORNIA ENERGY CODE 130.4(a).

3 LOW VOLTAGE CONTROL DETAIL FOR LIGHTING AND RECEPTACLES
 SCALE: NONE

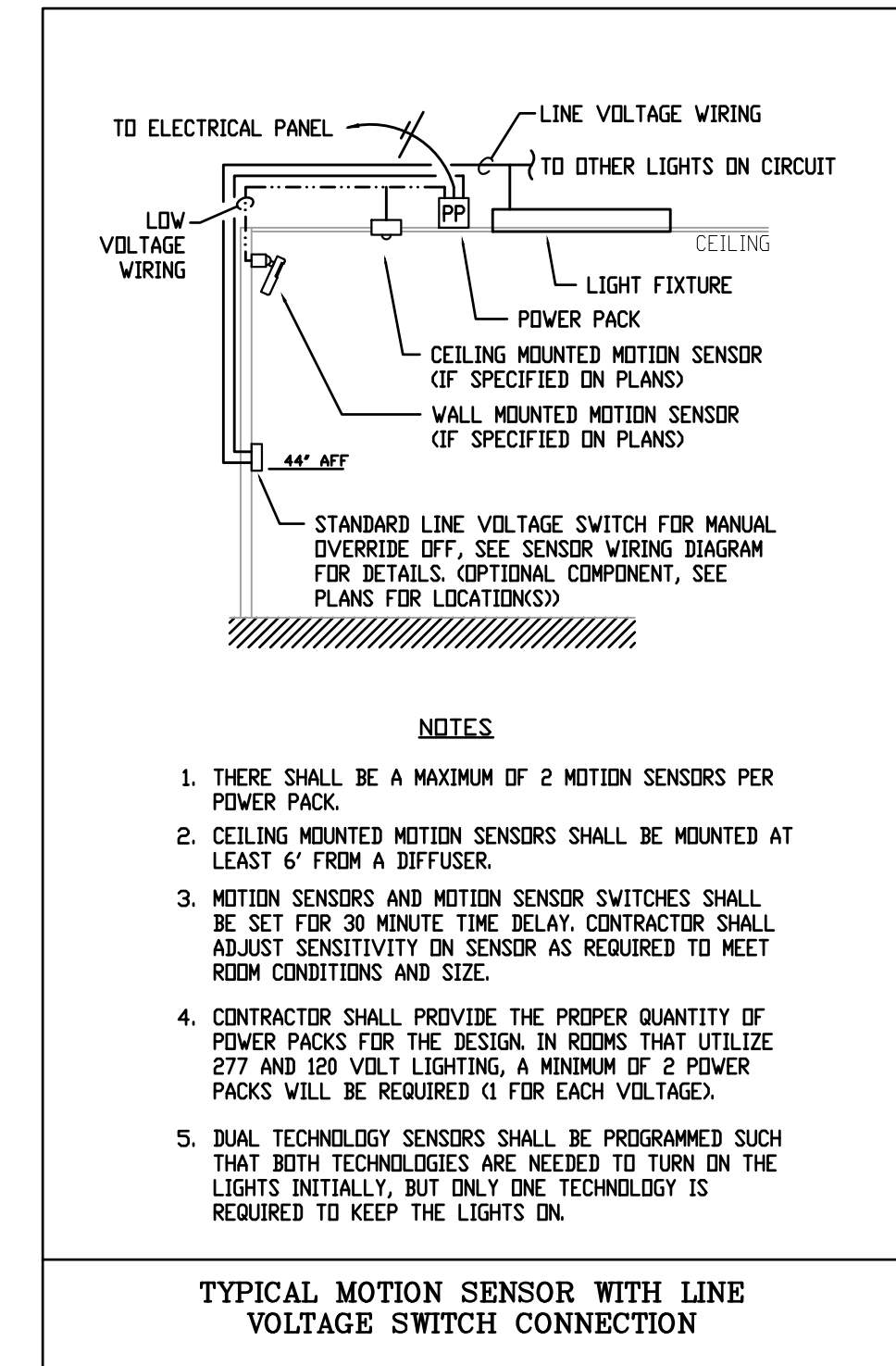


OPTIONAL IF TWO SWITCHES USE SAME MOTION SENSOR



MULTIPLE OCCUPANCY SENSORS WITH MULTIPLE POWER PACKS

2 TYPICAL MOTION SENSOR CONNECTION DETAILS
 SCALE: NONE



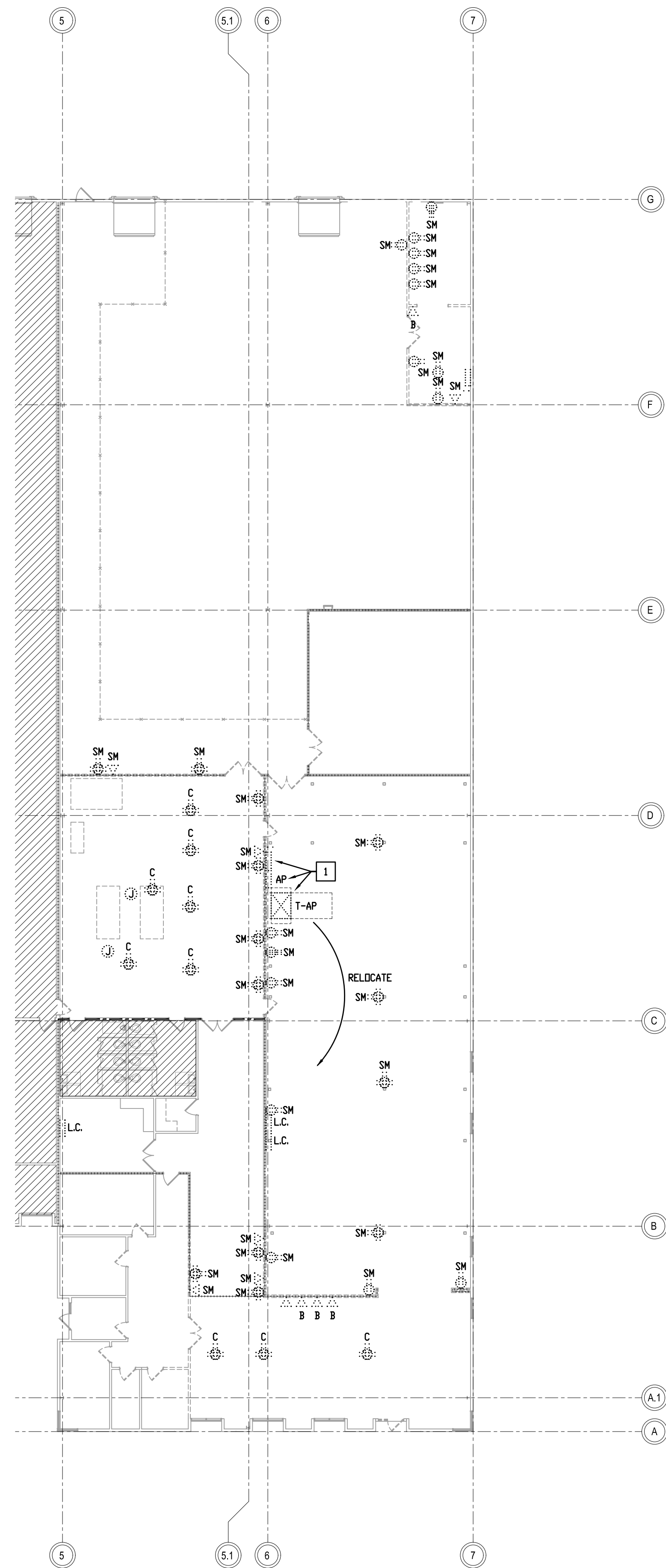
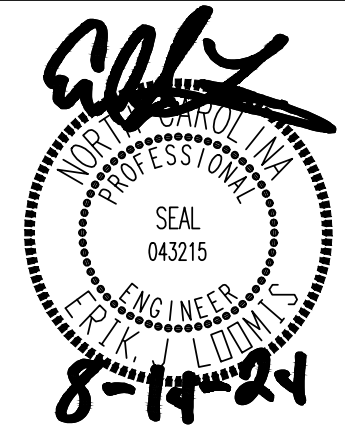
TYPICAL MOTION SENSOR WITH LINE VOLTAGE SWITCH CONNECTION

Johnstone Supply
 North Blvd., North Industrial Center,
 Departure Drive, Raleigh N.C.

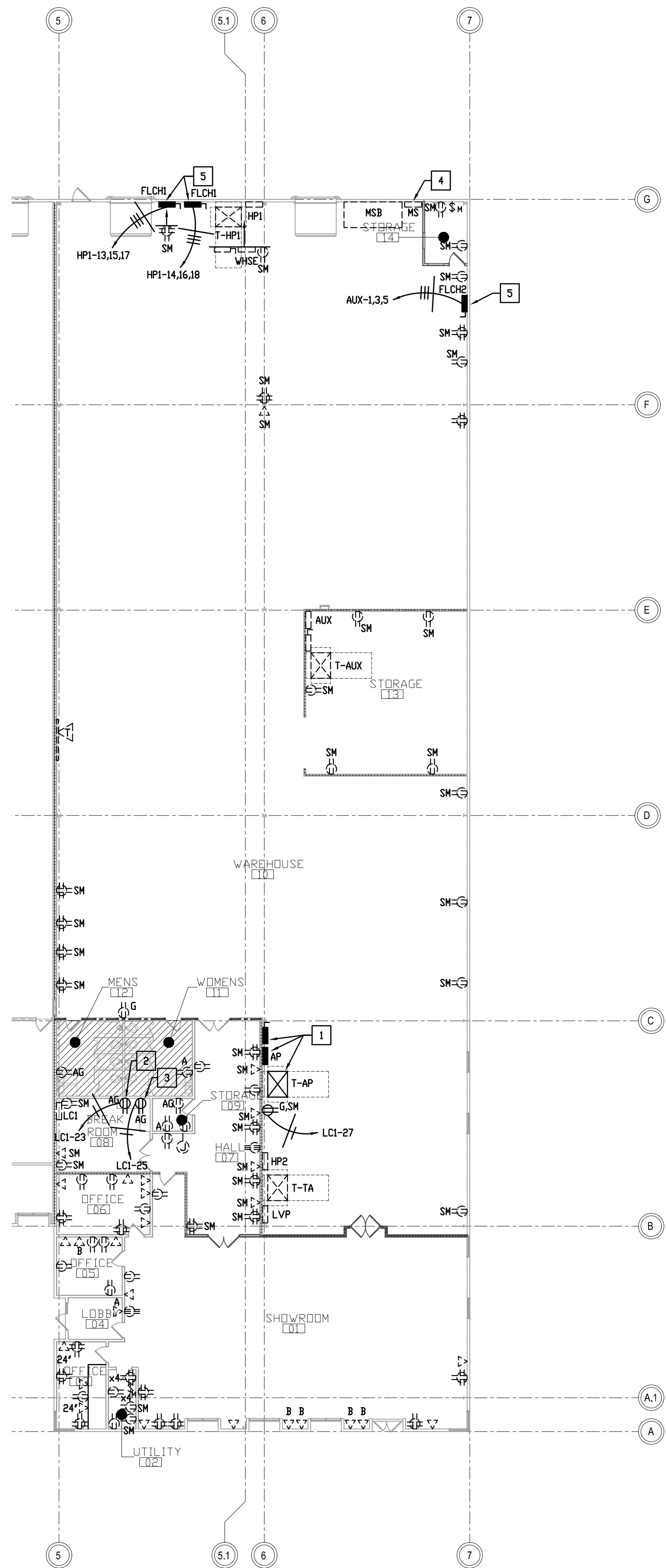
No.	Description	Date

PROJECT #: 240012
 DATE: 08/14/2024
ELECTRICAL DETAILS

E0.3



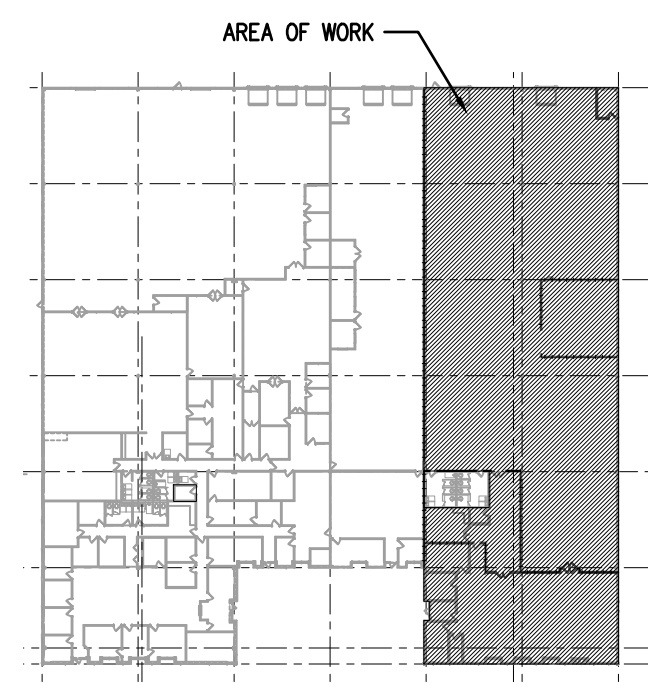
1 FLOOR PLAN - POWER DEMOLITION
 SCALE: 1/16" = 1' - 0"



2 FLOOR PLAN - POWER
 SCALE: 1/16" = 1' - 0"

- NOTES**
- INDIVIDUAL BRANCH CIRCUITS ARE SHOWN WITH A DEDICATED NEUTRAL UNLESS INDICATED OTHERWISE. WHEN MULTIWIRE BRANCH CIRCUITS ARE TO BE INSTALLED, PROVIDE MULTIPOLE CIRCUIT BREAKERS AS REQUIRED BY NEC 210.7.
 - ALL ELECTRICAL BOXES MOUNTED IN RATED WALLS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2018 NCSBC, SECTION 714.3.2. ALL ELECTRICAL BOXES MOUNTED IN RATED CEILINGS/HORIZONTAL ASSEMBLIES SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2018 NCSBC, SECTION 714.4.2. UNLESS OTHERWISE NOTED, DEVICES SHOWN IN RATED ASSEMBLIES SHALL BE FLUSH WITH CONDUIT CONCEALED. PROVIDE HORIZONTAL SEPARATION, PUTTY PADS, RATED BOXES ETC. AS REQUIRED FOR REQUIRED INSTALLATION. ALL LOW VOLTAGE ELECTRICAL DEVICES MOUNTED IN RATED ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH THE SECTIONS LISTED ABOVE.
 - SEE VOLTAGE DROP SCHEDULE ON DETAILS SHEET FOR WIRE SIZING INFORMATION FOR ALL BRANCH CIRCUITS OVER 65' IN LENGTH.
 - ALL RECEPTACLES WITHIN 6 FEET FROM THE OUTSIDE EDGE OF ANY SINK SHALL BE GFI PER NEC 210.8(B)(5).
 - GENERAL CONTRACTOR SHALL PROVIDE BOLLARDS IN FRONT OF ELECTRICAL PANELS AS REQUIRED BY THE BUILDING INSPECTOR. COORDINATE EXACT LOCATION AND QUANTITY WITH BUILDING INSPECTOR PRIOR TO BEGINNING WORK.

- PLAN NOTES**
- RELOCATE EXISTING PANEL 'AP', TRANSFORMER 'T-AP', AND DISCONNECT TO THE NEW LOCATION AS INDICATED ON THE POWER PLAN. EXTEND EXISTING CONDUCTORS AND CONDUIT TO NEW LOCATION AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER PRIOR TO BEGINNING WORK.
 - PROVIDE DEDICATED RECEPTACLE ABOVE COUNTER FOR MICROWAVE. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
 - PROVIDE DEDICATED RECEPTACLE ABOVE COUNTER FOR TOASTER OVEN. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO INSTALLATION.
 - VERIFY NEW WALL LOCATION WILL NOT AFFECT INDICATED PANEL PRIOR TO BEGINNING WORK. COORDINATE WITH ARCHITECT.
 - CONNECT FORKLIFT CHARGER AS REQUIRED. COORDINATE FINAL LOCATION WITH OWNER/ARCHITECT PRIOR TO BEGINNING WORK.



3 KEY PLAN
 SCALE: NONE

NOTE:
 THE EXISTING LOCATIONS SHOWN ON DEMO PLAN TO BE REMOVED OR RELOCATED ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BEGINNING WORK. ANY ITEMS REQUIRED TO BE REMOVED OR RELOCATED SHALL BE INCLUDED IN CONTRACTOR'S COST, WHETHER SHOWN ON THIS PLAN OR NOT. UNLESS SPECIFICALLY NOTED OTHERWISE, WHERE A DEVICE OR ITEM IS NOTED TO BE DEMOLISHED, THE WORK SHALL INCLUDE REMOVING ALL ASSOCIATED BOXES, CONDUITS, CONDUCTORS, CABLES ETC. AND SHALL INCLUDE ANY PATCH, REPAIR, PAINT OR REFINISH NECESSARY TO RESTORE THE LOCATION TO MATCH THE SURROUNDING. THE CONTRACTOR MAY REUSE ANY EXISTING CONDUITS, BOXES ETC. WHERE THEY HAVE BEEN INSPECTED AND ARE DETERMINED TO BE ACCEPTABLE TO THE OWNER AND/OR IN LIKE-NEW CONDITION.

WALL TYPES AND RATINGS LEGEND

REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION ON RATINGS AND ADDITIONAL RATED CONSTRUCTIONS INCLUDING COLUMNS WHERE APPLICABLE. PROTECT ALL RATED CONSTRUCTIONS AS REQUIRED.

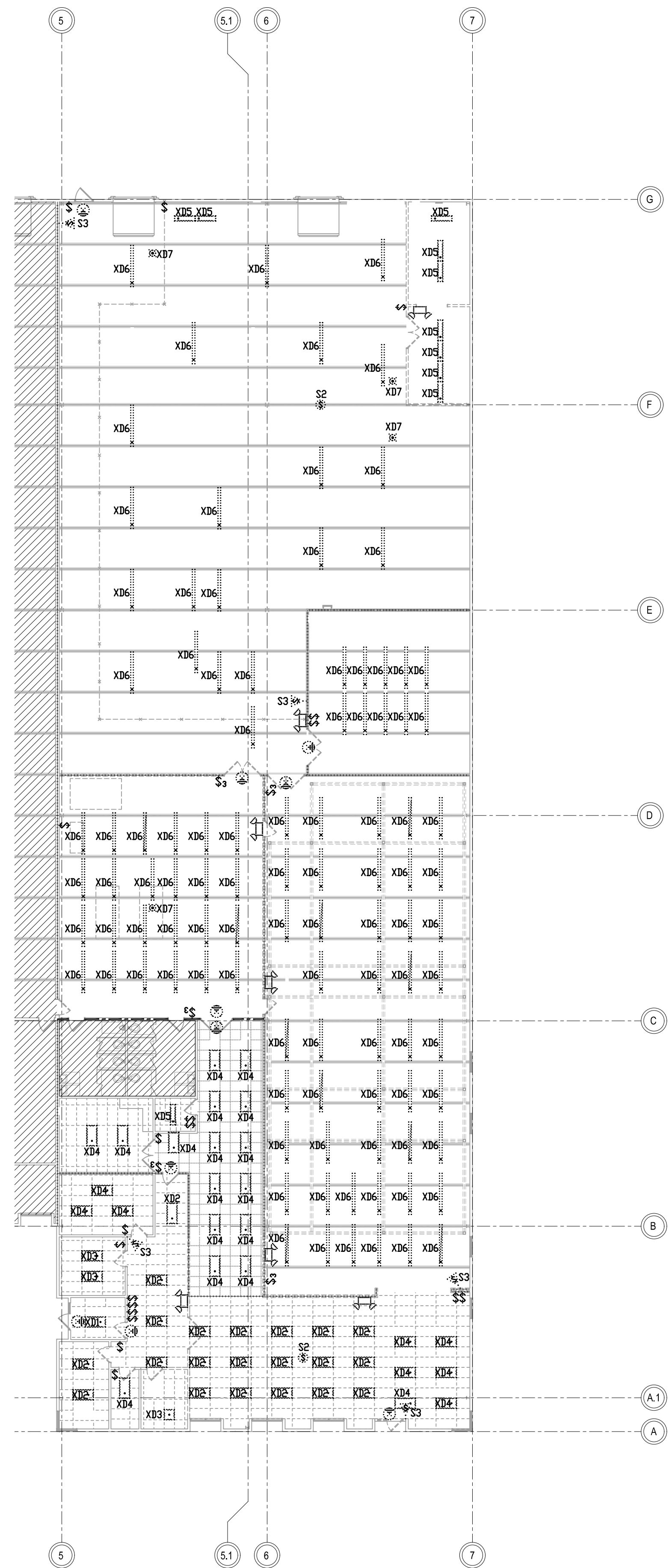
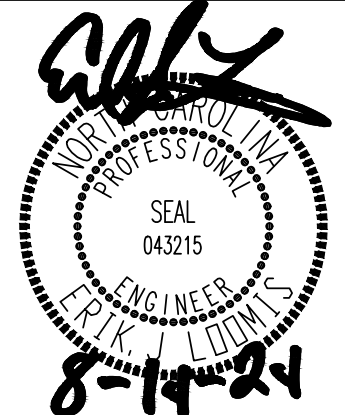
	EXISTING WALL TO REMAIN
	NEW WALL TO BE CONSTRUCTED
	EXISTING WALL TO BE DEMOLISHED
	ONE HOUR FIRE PARTITION

No.	Description	Date

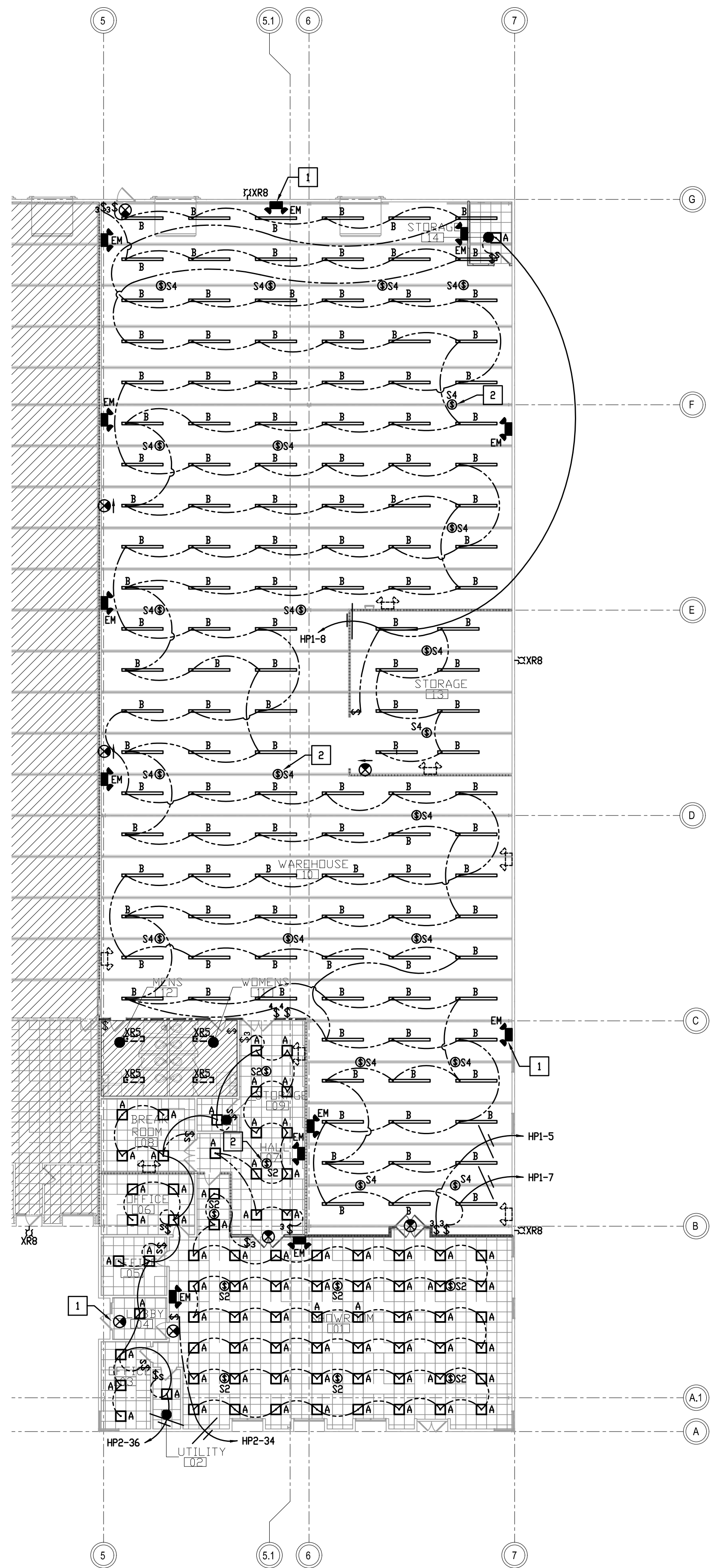
PROJECT #: 240012
 DATE: 08/14/2024

FLOOR PLAN - POWER & POWER DEMOLITION

E1.1



1 FLOOR PLAN - LIGHTING DEMOLITION
 SCALE: 1/16" = 1' - 0"



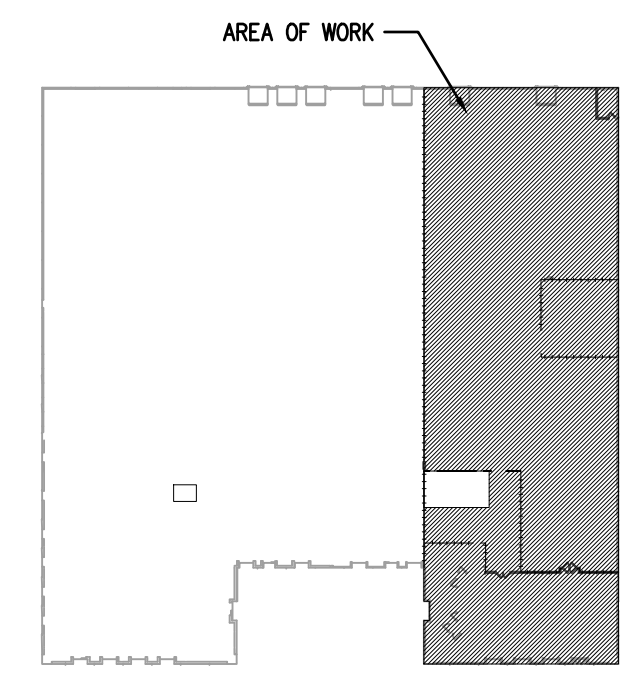
2 FLOOR PLAN - LIGHTING
 SCALE: 1/16" = 1' - 0"

NOTES

- CONNECT WALLPACKS OR OTHER NORMALLY OFF EMERGENCY LIGHTS, EXIT LIGHTS AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHES, RELAYS, AND MOTION SENSOR POWER PACKS. (TOTAL FIXTURE UNSWITCHED). WHERE NOT INDICATED AS A NIGHT LIGHT, FIXTURES WITH EMERGENCY BATTERIES SHALL BE CONNECTED WITH THE BATTERY AHEAD OF SWITCH SO THAT EMERGENCY BALLAST COMES ON ONLY IN THE EVENT OF POWER LOSS. FIXTURE IS SWITCHED WITH OTHER LIGHTS UNDER NORMAL CONDITIONS.
- INDIVIDUAL BRANCH CIRCUITS ARE SHOWN WITH A DEDICATED NEUTRAL UNLESS INDICATED OTHERWISE. WHEN MULTIWIRE BRANCH CIRCUITS ARE TO BE INSTALLED, PROVIDE MULTIPOLE CIRCUIT BREAKERS AS REQUIRED BY NEC 210.7.
- ALL ELECTRICAL BOXES MOUNTED IN RATED WALLS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2018 NCSBC, SECTION 714.3.2. ALL ELECTRICAL BOXES MOUNTED IN RATED CEILING/HORIZONTAL ASSEMBLIES SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2018 NCSBC, SECTION 714.4.2. UNLESS OTHERWISE NOTED, DEVICES SHOWN IN RATED ASSEMBLIES SHALL BE FLUSH WITH CONDUIT CONCEALED. PROVIDE HORIZONTAL SEPARATION, PUTTY PADS, RATED BOXES ETC. AS REQUIRED FOR REQUIRED INSTALLATION. ALL LOW VOLTAGE ELECTRICAL DEVICES MOUNTED IN RATED ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH THE SECTIONS LISTED ABOVE.
- CONNECT EXHAUST FANS TO BE SWITCHED WITH LIGHTS.
- CIRCUIT BREAKERS USED FOR SWITCHING LIGHTS SHALL BE RATED FOR SWITCHING.
- CONTRACTOR MAY REUSE ANY EXISTING EMERGENCY/EXIT LIGHT, GIVEN THAT THE DEVICE IS IN PROPER WORKING ORDER. REPLACE CHEVRONS AND ROTATE EXIT SIGNS AS SHOWN ON PLANS.
- SEE MOTION SENSOR DETAIL FOR DEVICE SPECIFICATIONS AND WIRING DETAILS.
- SEE VOLTAGE DROP SCHEDULE ON DETAILS SHEET FOR WIRE SIZING INFORMATION FOR ALL BRANCH CIRCUITS OVER 65' IN LENGTH.
- FOR LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS, OR AUTOMATIC TIME SWITCHES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE LIGHTING CONTROLS PER SECTION C409.5 OF THE 2018 NC ENERGY CONSERVATION CODE TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY LOAD ON EACH DIMMER SWITCH AND PROVIDE ADDITIONAL SWITCHES AS NECESSARY TO MEET CONTROL INTENT SHOWN ON PLANS.
- CONTRACTOR SHALL VERIFY LIGHT FIXTURE MOUNTING HEIGHTS AND SUSPENSION LENGTHS WITH ARCHITECT PRIOR TO INSTALLATION.

PLAN NOTES

- CONNECT EMERGENCY AND EXIT LIGHTS AHEAD OF LOCAL SWITCH AS REQUIRED. (TOTAL FIXTURE UNSWITCHED). TYPICAL.
- MOTION SENSOR TO CONTROL ALL LIGHTS IN THIS ROOM. SEE MOTION SENSOR WIRING DIAGRAMS. PROVIDE POWER PACKS AS REQUIRED TO CONTROL ALL LIGHTS WITH OVERRIDE OFF SWITCHES AS SHOWN. TYPICAL.



3 KEY PLAN
 SCALE: NONE

NOTE:
 THE EXISTING LOCATIONS SHOWN ON DEMO PLAN TO BE REMOVED OR RELOCATED ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BEGINNING WORK. ANY ITEMS REQUIRED TO BE REMOVED OR RELOCATED SHALL BE INCLUDED IN CONTRACTOR'S COST. WHETHER SHOWN IN THIS PLAN OR NOT. UNLESS SPECIFICALLY NOTED OTHERWISE, WHERE A DEVICE OR ITEM IS NOTED TO BE DEMOLISHED, THE WORK SHALL INCLUDE REMOVING ALL ASSOCIATED BOXES, CONDUITS, CONDUCTORS, CABLES ETC. AND SHALL INCLUDE ANY PATCH, REPAIR, PAINT OR REFINISH NECESSARY TO RESTORE THE LOCATION TO MATCH THE SURROUNDING. THE CONTRACTOR MAY REUSE ANY EXISTING CONDUCTORS, BOXES ETC. WHERE THEY HAVE BEEN INSPECTED AND ARE DETERMINED TO BE ACCEPTABLE TO THE OWNER AND/OR IN LIKE-NEW CONDITION.

WALL TYPES AND RATINGS LEGEND

REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION ON RATINGS AND ADDITIONAL RATED CONSTRUCTIONS INCLUDING COLUMNS WHERE APPLICABLE. PROTECT ALL RATED CONSTRUCTIONS AS REQUIRED.

—	EXISTING WALL TO REMAIN
—	NEW WALL TO BE CONSTRUCTED
- - -	EXISTING WALL TO BE DEMOLISHED
—	ONE HOUR FIRE PARTITION

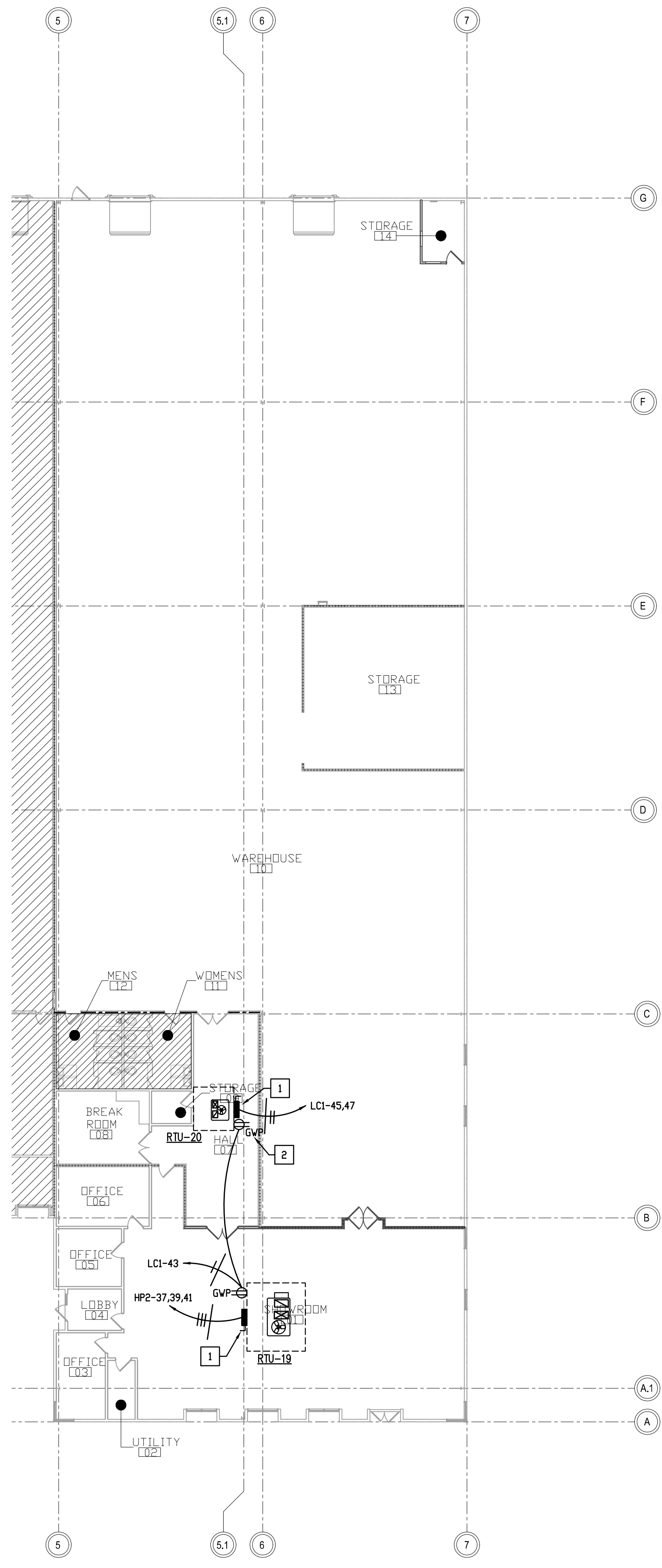
No.	Description	Date

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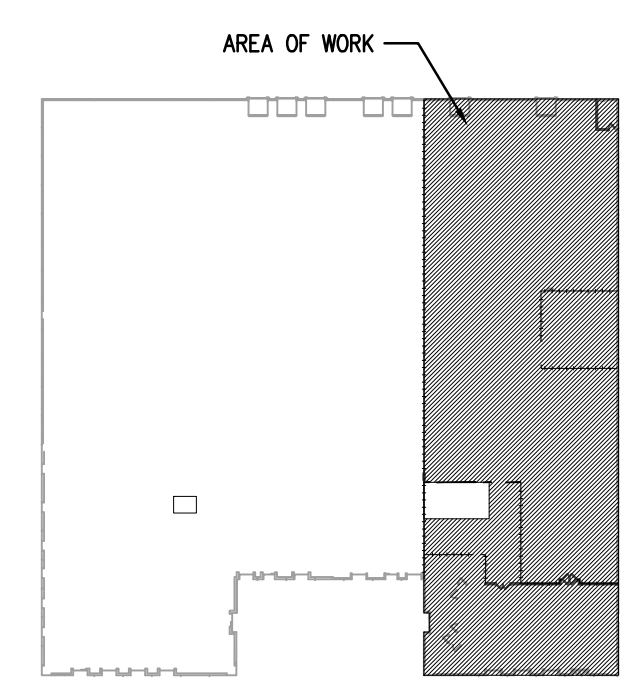
FLOOR PLAN -
 LIGHTING & LIGHTING
 DEMOLITION

E2.1

- NOTES**
- INDIVIDUAL BRANCH CIRCUITS ARE SHOWN WITH A DEDICATED NEUTRAL UNLESS INDICATED OTHERWISE. WHEN MULTIWIRE BRANCH CIRCUITS ARE TO BE INSTALLED, PROVIDE MULTIPOLE CIRCUIT BREAKERS AS REQUIRED BY NEC 210.7.
 - ALL ELECTRICAL BOXES MOUNTED IN RATED WALLS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2018 NCSBC, SECTION 714.3.2. ALL ELECTRICAL BOXES MOUNTED IN RATED CEILINGS/HORIZONTAL ASSEMBLIES SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2018 NCSBC, SECTION 714.4.2. UNLESS OTHERWISE NOTED, DEVICES SHOWN IN RATED ASSEMBLIES SHALL BE FLUSH WITH CONDUIT CONCEALED. PROVIDE HORIZONTAL SEPARATION, PUTTY PADS, RATED BOXES ETC. AS REQUIRED FOR REQUIRED INSTALLATION. ALL LOW VOLTAGE ELECTRICAL DEVICES MOUNTED IN RATED ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH THE SECTIONS LISTED ABOVE.
 - SEE VOLTAGE DROP SCHEDULE ON DETAILS SHEET FOR WIRE SIZING INFORMATION FOR ALL BRANCH CIRCUITS OVER 65' IN LENGTH.
- PLAN NOTES**
- CONNECT ROOFTOP UNIT AS REQUIRED. COORDINATE WITH MECHANICAL.
 - WP GFI RECEPTACLE ON ROOF FOR MAINTENANCE. CONNECT AS REQUIRED. COORDINATE W/ MECH. TYPICAL.



2 FLOOR PLAN - EQUIPMENT CONNECTIONS
 SCALE: 1/16" = 1' - 0"



3 KEY PLAN
 SCALE: NONE

WALL TYPES AND RATINGS LEGEND

REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION ON RATINGS AND ADDITIONAL RATED CONSTRUCTIONS INCLUDING COLUMNS WHERE APPLICABLE. PROTECT ALL RATED CONSTRUCTIONS AS REQUIRED.

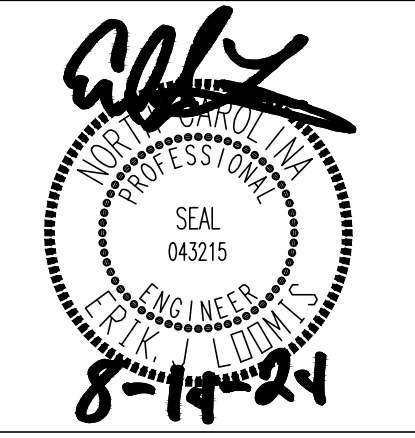
	EXISTING WALL TO REMAIN
	NEW WALL TO BE CONSTRUCTED
	EXISTING WALL TO BE DEMOLISHED
	ONE HOUR FIRE PARTITION

No.	Description	Date

PROJECT #: 240012
 DATE: 08/14/2024

FLOOR PLAN -
 EQUIPMENT
 CONNECTIONS

E3.1

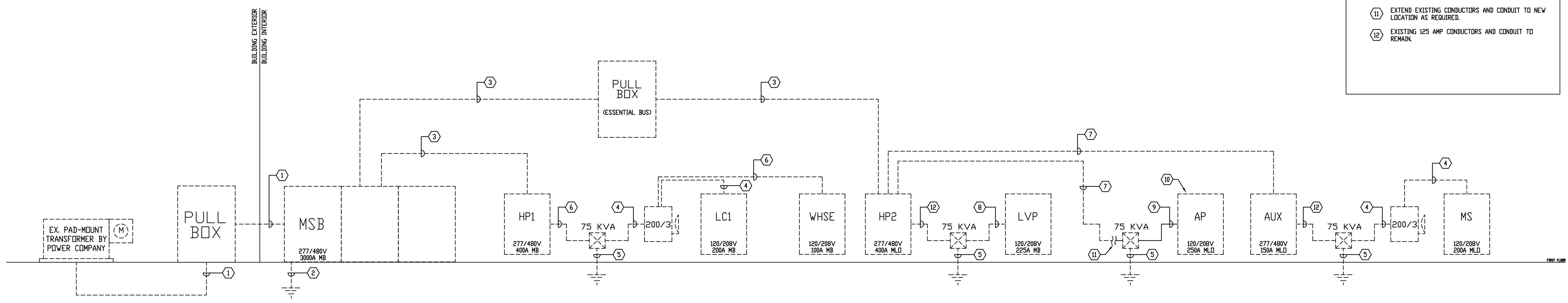


Johnstone Supply
 North Blvd., North Industrial Center,
 Departure Drive, Raleigh N.C.

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RISER KEY NOTES

- ① EXISTING 3000 AMP CONDUCTORS AND CONDUITS TO REMAIN.
- ② EXISTING SERVICE GROUND TO REMAIN.
- ③ EXISTING 400 AMP CONDUCTORS AND CONDUITS TO REMAIN.
- ④ EXISTING 200 AMP CONDUCTORS AND CONDUITS TO REMAIN.
- ⑤ EXISTING GROUND TO REMAIN.
- ⑥ EXISTING 100 AMP CONDUCTORS AND CONDUITS TO REMAIN.
- ⑦ EXISTING 150 AMP CONDUCTORS AND CONDUIT TO REMAIN.
- ⑧ EXISTING 225 AMP CONDUCTORS AND CONDUIT TO REMAIN.
- ⑨ 4-250KCM, #4 GND, 3" C
- ⑩ EXISTING PANEL AND TRANSFORMER TO BE RELOCATED. SEE PLAN FOR NEW LOCATION.
- ⑪ EXTEND EXISTING CONDUCTORS AND CONDUIT TO NEW LOCATION AS REQUIRED.
- ⑫ EXISTING 125 AMP CONDUCTORS AND CONDUIT TO REMAIN.



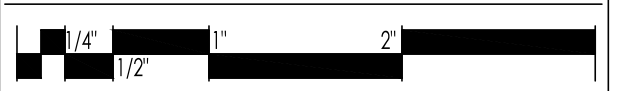
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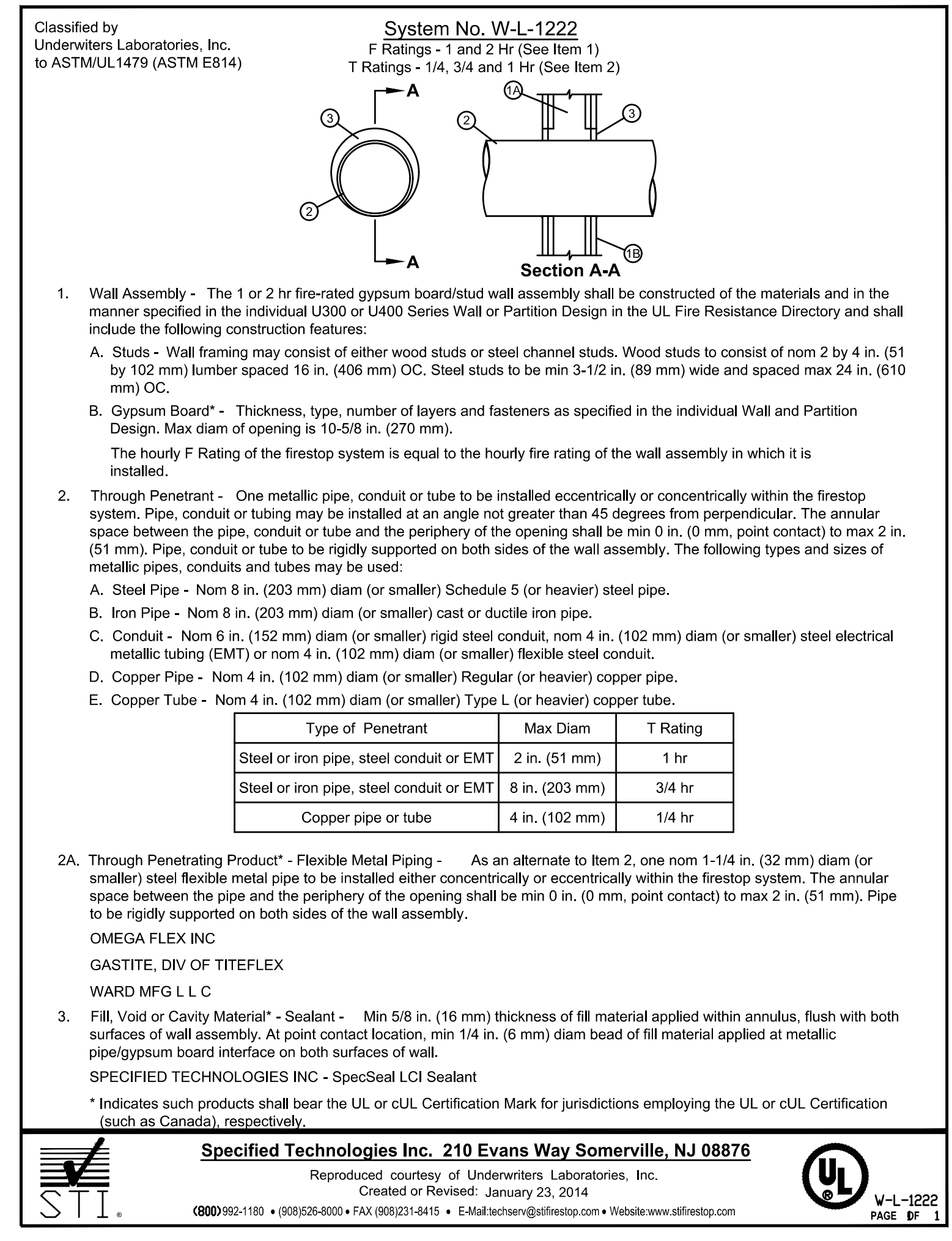
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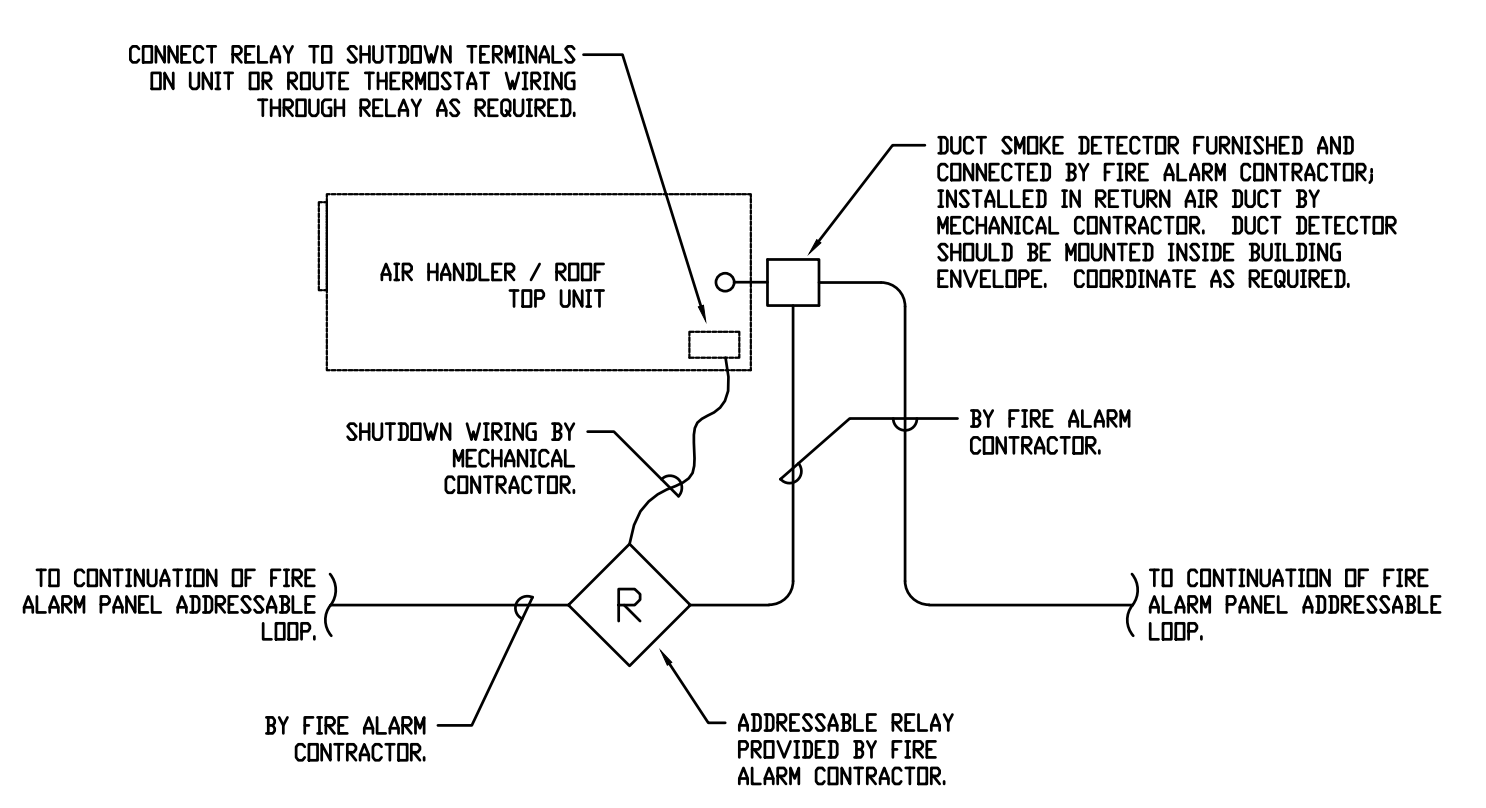
ELECTRICAL RISER DIAGRAM

E4.1





**3 FOR FRAMED WALLS ONLY
 1 OR 2 HOUR PENETRATION FIRESTOP
 FOR METALLIC PIPE, CONDUIT, OR TUBING
 SCALE: NONE**



**2 TYPICAL HVAC UNIT SHUTDOWN WIRING DIAGRAM
 SCALE: NONE**

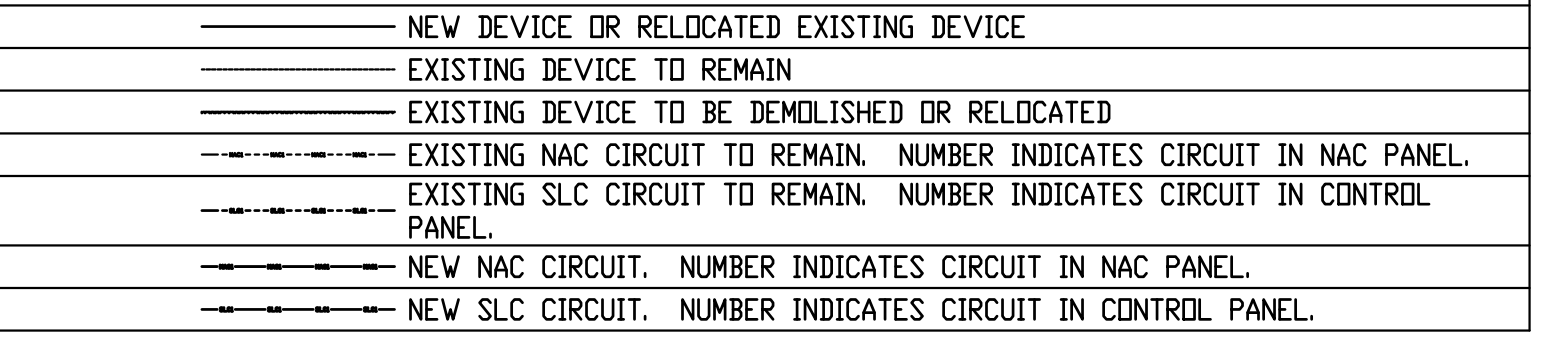
GENERAL NOTES AND REQUIREMENTS.

- ALL BOXES MOUNTED IN RATED WALLS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2019 NFPA 72, SECTION 714.3.2, UNLESS OTHERWISE NOTED. DEVICES SHOWN IN RATED WALLS SHALL BE FLUSH WITH CONDUIT CONCEALED. PROVIDE HORIZONTAL SEPARATION, PUTTY PADS, RATED BOXES ETC. AS REQUIRED FOR REQUIRED INSTALLATION.
- SEE ARCHITECTURAL CEILING PLANS FOR CEILING TYPES. WHERE NEW INACCESSIBLE GYP. CEILINGS ARE BEING INSTALLED THE CONTRACTOR SHALL NOT MOUNT ANY JUNCTION BOXES, CONDUIT BODIES OR OTHER EQUIPMENT OR FITTINGS REQUIRING ACCESS ABOVE THE NEW INACCESSIBLE CEILING, AND SHALL RELOCATE ALL SUCH ITEMS REQUIRING ACCESS TO ADJACENT AREAS WHERE ACCESS IS PROVIDED. NO ACCESS PANELS IN THE HARD CEILING ARE ALLOWED WITHOUT APPROVAL.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS. THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION. COORDINATE LOCATIONS OF ALL LIGHT FIXTURES WITH THE REFLECTED CEILING PLANS. LIGHT FIXTURES INSTALLED IN MECHANICAL AREAS SHALL AVOID MECHANICAL PIPING, EQUIPMENT, DUCTWORK, ETC.
- THE CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO INSTALLATION OF ELEC. EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
- CONTRACTOR SHALL INCLUDE COST OF PAINTING ALL EXPOSED CONDUITS SUBJECT TO PUBLIC VIEW. JUNCTION BOX COVERS SHALL BE PERMANENTLY LABELED AND CONDUIT SHALL BE LABELED EVERY 10'.
- CONDUITS AND CABLES SHALL BE CONCEALED WHEREVER POSSIBLE BY EITHER ROUTING ABOVE CEILING, IN INTERSTITIAL SPACES OR RUNNING EXPOSED IN UNFINISHED SPACES AS MUCH AS FEASIBLE. CONDUITS MAY BE RUN EXPOSED IN MECHANICAL AREAS OR OTHER AREAS NOT SUBJECT TO PUBLIC VIEW WHERE APPROVED BY THE OWNER. WHEREVER CONDUITS OR CABLES ARE EXPOSED, CONDUITS AND CABLES SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS AND SHALL BE RUN AND BUNDLED IN GROUPS, AND THE INSTALLATION SHALL BE NEAT AND ORDERLY. EVEN WHEN EXPOSED, CONDUITS AND CABLES SHALL BE ROUTED TO MINIMIZE VIEW FROM PERSONNEL. SEAL ALL PENETRATIONS AIR TIGHT AROUND ALL CONDUITS PASSING THROUGH WALLS OR FLOORS USING APPROPRIATE PENETRATION PROTECTION WHEN PASSING INTO OR THROUGH RATED ASSEMBLIES.
- ALL MOUNTING HEIGHTS ARE GIVEN TO THE BOTTOM OF THE DEVICE UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PATCH ANY WALL, CEILING, OR FLOOR OPENINGS AND PENETRATIONS RESULTING FROM DEMOLITION OR NEW WORK IN EXISTING AREAS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY DISPOSING OF ALL WASTE MATERIALS, DEMO MATERIALS AND OTHER TRASH. THIS INCLUDES BUT IS NOT LIMITED TO PROPER DISPOSAL OF MERCURY CONTAINING LAMPS, RECYCLABLE MATERIALS ETC.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE W/ ALL OTHER TRADES REGARDING VOLTAGES, LOADS, CIRCUIT BREAKERS, ETC. PRIOR TO BEGINNING ANY WORK.
- AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.
- CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL REQUIREMENTS OF THE 2018 NORTH CAROLINA BUILDING CODE, ACCESSIBILITY CODE WHICH ARE APPLICABLE TO THIS PROJECT REGARDLESS OF WHETHER ALL DETAILS ARE INDICATED ON PLANS.
- ALL PULL STATIONS SHALL COMPLY WITH ALL REQUIREMENTS OF 2018 NORTH CAROLINA STATE BUILDING CODE, CHAPTER 11 ACCESSIBILITY CODE.
- CONTRACTOR SHALL VERIFY ALL AREAS THAT ARE USED AS A RETURN PLENUM WITH MECHANICAL CONTRACTOR AND PROVIDE PLENUM RATED CABLE FOR ALL CABLES NOT RUN IN METAL CONDUIT. THIS INCLUDES ALL TELECOMMUNICATIONS, FIRE ALARM, OR CONTROL WIRING ABOVE CEILING.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SEISMIC REQUIREMENTS.
- BOXES AND WIRING SHALL NOT BE RECESSED INTO OR PENETRATE STRUCTURAL COLUMNS. BOXES/CONDUITS SHALL BE SURFACE MOUNTED TO COLUMN AND/OR RECESSED IN STUD WALL WHERE POSSIBLE. COORDINATE WITH ARCHITECT.
- ALL EQUIPMENT CONNECTED TO OR ASSOCIATED WITH FIRE ALARM SYSTEM OR OTHERWISE INCLUDED IN THE SCOPE OF WORK SHALL BE LISTED AND LABELED BY A THIRD PARTY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- CCE HAS RESERVED THE OPPORTUNITY TO CHOOSE THE SOFTWARE PACKAGE(S) OR OTHER MEANS DEEMED MOST EFFICIENT TO DELIVER THESE PLANS AND CONSIDERS ANY DIGITAL FILES OR SOFTWARE USED DURING THIS PROCESS AS INSTRUMENTS OF SERVICE, AND AS SUCH REMAIN THE SOLE PROPERTY OF CCE. THE CONTRACTOR SHOULD NOT ASSUME THAT DIGITAL FILES IN ANY FORMAT WILL BE MADE AVAILABLE DURING BIDDING OR AFTER AWARD. IF DIGITAL FILES ARE REQUESTED, CCE RESERVES THE RIGHT TO SELECTIVELY PROVIDE THEM WHEN AVAILABLE AND/OR REQUEST ADDITIONAL CONSIDERATION FOR THE TIME INCURRED TO PREPARE THEM.
- CONTRACTOR SHALL NOT PUT AN ACCESS DOOR IN HARD CEILING FOR ANY REASON. CONTRACTOR SHALL INSTALL APPROPRIATE JUNCTION BOXES, ETC ABOVE THE CEILING IN AREAS THAT CAN BE ACCESSED BY THE REMOVAL OF LAY-IN GRID.
- ALL NECESSARY CORE DRILLS SHALL BE LOCATED AND COORDINATED WITH THE AFFECTED TENANT SPACES ABOVE OR BELOW AS WELL AS THE BUILDING MANAGER OR OWNER, PRIOR TO BEGINNING WORK. SCHEDULE CORE DRILLS TO MINIMIZE INTERRUPTION AND ADDRESS SECURITY CONCERNS ETC.

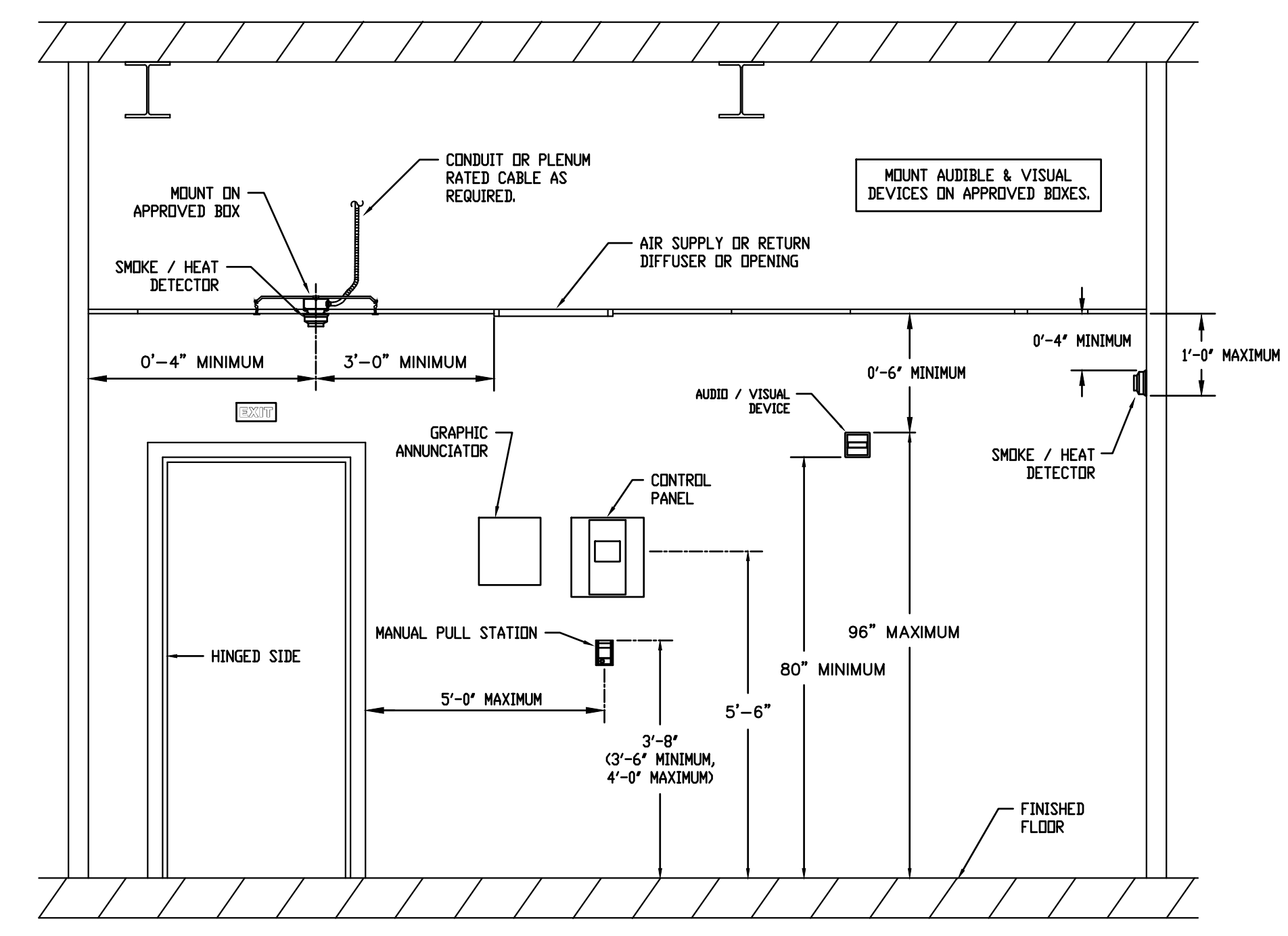
FIRE ALARM LEGEND

SYMBOL (NEW)	SYMBOL (EXISTING)	SYMBOL (DEMOLISH)	DESCRIPTION	NOTES	MODEL NUMBER
[FACP]	[FACP]	[FACP]	FIRE ALARM CONTROL PANEL	24V, ADDRESSABLE, RED ENCLOSURE	HONEYWELL PANEL
[FACP]	[FACP]	[FACP]	FIRE ALARM POWER EXTENDER	4 OUTPUT NOTIFICATION APPLIANCE CIRCUITS WITH 80 AMP FULL LOAD OUTPUT (30 AMP MAX PER CIRCUIT).	NEW TO MATCH EXISTING
[ANN]	[ANN]	[ANN]	FIRE ALARM ANNUCIATOR PANEL	-	-
[DC]	[DC]	[DC]	INTERNAL DIGITAL COMMUNICATOR	MOUNT INSIDE FACP ENCLOSURE OR PROVIDE REMOTE ENCLOSURE (NOTIFIER #ABS-8RB) AS REQUIRED.	N/A
[F]	[F]	[F]	ADDRESSABLE MANUAL PULL STATION	MOUNT AT 44" AFF TO CENTER OF BOX.	NEW TO MATCH EXISTING
[F] VP	[F] VP	[F] VP	MANUAL PULL STATION	RATED FOR OUTDOOR USE WITH BACKBOX. MOUNT AT 44" AFF TO CENTER OF BOX. CONNECT VIA MONITOR MODULE LOCATED WITHIN CONDITIONED SPACE.	NEW TO MATCH EXISTING
[2]	[2]	[2]	FIRE ALARM SMOKE DETECTOR	-	NEW TO MATCH EXISTING
[2] ER	[2] ER	[2] ER	FIRE ALARM SMOKE DETECTOR	SMOKE DETECTOR SHALL BE PROGRAMMED FOR ELEVATOR RECALL FUNCTION.	NEW TO MATCH EXISTING
[4]	[4]	[4]	FIRE ALARM HEAT DETECTOR	FIXED TEMPERATURE ONLY FOR ELEVATOR SHUNT TRIP ACTIVATION. FIXED TEMP AND RATE OF RISE FOR ALL OTHER APPLICATIONS NOT NOTED OTHERWISE.	NEW TO MATCH EXISTING
[2] (2)	[2] (2)	[2] (2)	DUCT SMOKE DETECTOR WITH REMOTE LED INDICATOR	-	NEW TO MATCH EXISTING
[R]	[R]	[R]	RELAY MODULE	-	NEW TO MATCH EXISTING
[PR]	[PR]	[PR]	PAM RELAY MODULE	-	NEW TO MATCH EXISTING
[AM]	[AM]	[AM]	MONITOR MODULE	-	NEW TO MATCH EXISTING
[CM]	[CM]	[CM]	CONTROL MODULE	-	NEW TO MATCH EXISTING
[XX]	[XX]	[XX]	WALL MOUNTED FIRE ALARM VISUAL STROBE ONLY - WHITE	CANDELA STROBE AS INDICATED ON PLANS, CONNECT AS REQUIRED. SEE MOUNTING HEIGHT DETAIL FOR MOUNTING REQUIREMENTS.	NEW TO MATCH EXISTING
[XX]	[XX]	[XX]	CEILING MOUNTED FIRE ALARM VISUAL STROBE ONLY - WHITE	CENTER DEVICE IN CEILING TILE, DEVICE SHALL BE UL LISTED FOR USE IN CEILINGS. CONNECT AS REQUIRED. STROBE AS INDICATED ON PLANS.	NEW TO MATCH EXISTING
[XX]	[XX]	[XX]	WALL MOUNTED FIRE ALARM HORN/STROBE - WHITE	CANDELA STROBE AS INDICATED ON PLANS, CONNECT AS REQUIRED. SEE MOUNTING HEIGHT DETAIL FOR MOUNTING REQUIREMENTS.	NEW TO MATCH EXISTING
[XX]	[XX]	[XX]	WALL MOUNTED FIRE ALARM ADJUSTABLE HORN ONLY (HORN NOT ACCEPTABLE) - WHITE	CONNECT AS REQUIRED. SEE MOUNTING HEIGHT DETAIL FOR MOUNTING REQUIREMENTS.	NEW TO MATCH EXISTING
[XX]	[XX]	[XX]	CEILING MOUNTED FIRE ALARM HORN/STROBE - WHITE	CENTER DEVICE IN CEILING TILE, DEVICE SHALL BE UL LISTED FOR USE IN CEILINGS. CONNECT AS REQUIRED. STROBE AS INDICATED ON PLANS.	NEW TO MATCH EXISTING
[XX]	[XX]	[XX]	CEILING MOUNTED FIRE ALARM ADJUSTABLE HORN ONLY (HORN NOT ACCEPTABLE) - WHITE	CENTER DEVICE IN CEILING TILE, DEVICE SHALL BE UL LISTED FOR USE IN CEILINGS. CONNECT AS REQUIRED.	NEW TO MATCH EXISTING

FIRE ALARM LINETYPE LEGEND



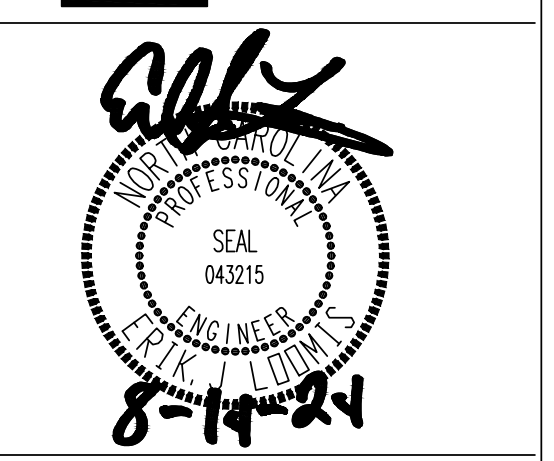
NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



**1 FIRE ALARM DEVICE MOUNTING HEIGHTS
 SCALE: NONE**

Johnstone Supply
 North Blvd., North Industrial Center,
 Departure Drive, Raleigh N.C.

No.	Description	Date
PROJECT #:	240012	
DATE:	08/14/2024	
FIRE ALARM COVER SHEET		
FA0.1		
1/4" = 1' 1/2"		



Johnstone Supply
 North Blvd., North Industrial Center,
 Departure Drive, Raleigh N.C.

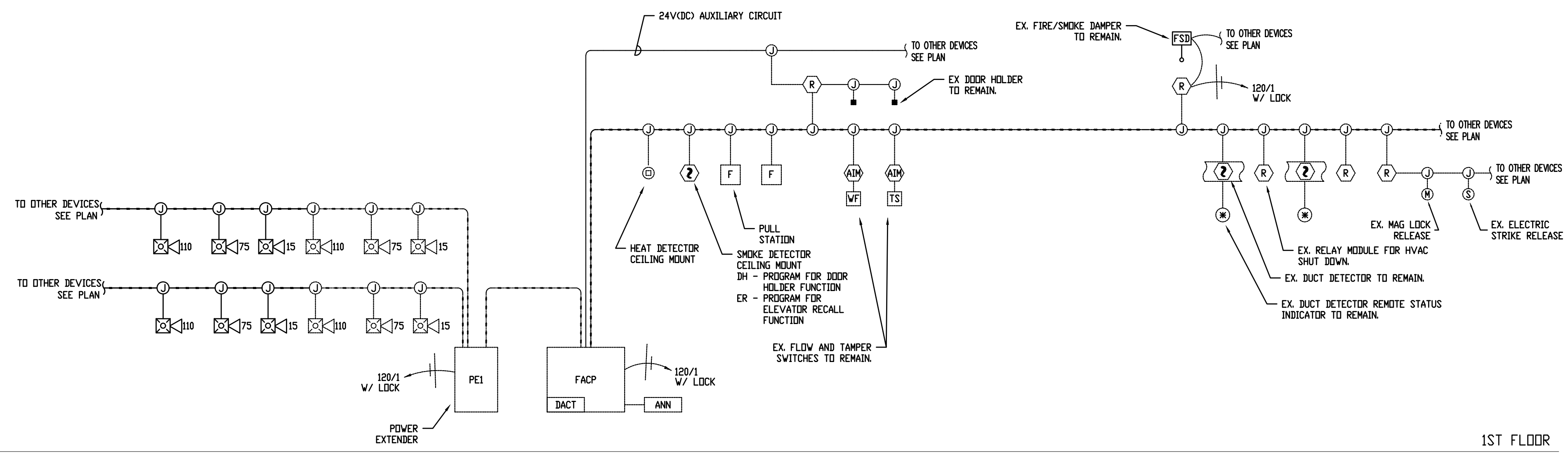
No.	Description	Date
PROJECT #:	240012	
DATE:	08/14/2024	

FIRE ALARM DETAILS

FA0.2

FIRE ALARM NOTES:

- SEE LEGEND & SPECIFICATIONS FOR MODEL NUMBERS.
- ALL FIRE ALARM SYSTEM CONDUCTORS SHALL BE RUN IN 3/4" EMT CONDUIT UNLESS NOTED OTHERWISE. PROVIDE ALL HANGERS, JUNCTION BOXES, FITTINGS, SUPPORTS ETC. AS REQUIRED. J.B. COVERS FOR ALL FIRE ALARM JUNCTION BOXES SHALL BE LABELED AND PAINTED RED. CIRCUITS CAN BE COMBINED IN CONDUIT AS NECESSARY.
- PROVIDE SYNCHRONIZATION AS REQUIRED BY ADA.
- A DECIBEL LEVEL OF 15 DBA ABOVE AVERAGE AMBIENT (PER 2013 NFPA 72, TABLE A.18.4.2) SHALL BE MAINTAINED IN ALL OCCUPIABLE AREAS MEASURED BY ABOVE THE FLOOR USING THE A-WEIGHTED SCALE UNLESS OTHERWISE NOTED. A MINIMUM OF 90 DBA SHALL BE MAINTAINED IN ALL MECHANICAL EQUIPMENT ROOMS PER THE 2018 NORTH CAROLINA FIRE CODE, SECTION 907.5.2.1.1. THE TOTAL SOUND PRESSURE LEVEL PRODUCED BY COMBINING THE AMBIENT AND NOTIFICATION LEVELS SHALL NOT EXCEED 110 DBA ANYWHERE IN THE OCCUPIABLE AREA. DEVICES HAVE BEEN SHOWN TO PROVIDE THE GENERAL INFRASTRUCTURE TO ACHIEVE SUCH LEVELS HOWEVER, DUE TO SPECIFIC SITE CONSIDERATIONS INCLUDING WALL CONSTRUCTION AND SOUND ATTENUATION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE LEVEL OF ALL AUDIBLE DEVICES AS NEEDED AND PROVIDE ANY ADDITIONAL AUDIBLE DEVICES AS REQUIRED TO MEET THESE AUDIBILITY REQUIREMENTS.
- PROVIDE PLACARDS FOR THE ENTIRE FIRE ALARM SYSTEM FOR ZONES AND DEVICE ADDRESSES. PROVIDE PANEL AND CIRCUIT NUMBERS ON A ZONE MAP AFFIXED TO OR ADJACENT TO THE FACP OR AS REQUIRED BY THE FIRE MARSHAL.
- FUNCTIONAL TESTING METHOD OF PROPER OPERATION OF SMOKE DETECTORS SHALL BE DETERMINED BY A.H.J.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THIS INSTALLATION AND DESIGN OF FIRE ALARM SYSTEM COMPLY WITH ALL REQUIREMENTS OF THE 2018 NCSC FIRE CODE CHAPTER 9, 2018 NCSC CHAPTER 9, 2013 NFPA 72, AND NFPA 70. CONTRACTOR SHALL REVIEW DESIGN DRAWINGS PRIOR TO BID/BEGINNING WORK AND SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY ITEMS WHICH HE FEELS MAY BE OMITTED, INSUFFICIENT, ETC. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ANY ADDITIONAL REQUIRED ITEMS NOT NOTED TO ENGINEER PRIOR TO BEGINNING WORK AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL PROVIDE ALL TESTING AND DOCUMENTATION AS REQUIRED BY THE LOCAL FIRE MARSHAL AND STATE AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO:
 - ACCEPTANCE TESTS AS REQUIRED PER 2018 NC FIRE CODE, SECTION 907.7.
 - REQUIRED INSPECTIONS, TESTING AND MAINTENANCE AS REQUIRED BY THE 2018 NC FIRE CODE.
 - INSTRUCTIONS PER 2018 NC FIRE CODE, SECTION 907.7.3 AND RECORD OF COMPLETION PER 2018 NC FIRE CODE, SECTION 907.7.2.
- CONTRACTOR SHALL VERIFY THAT THE EXISTING SYSTEM IS CONNECTED TO A UL APPROVED CENTRAL MONITORING STATION AS REQUIRED BY THE APPLICABLE CODE AT THE TIME OF CONNECTION. IF AN APPROVED CONNECTION DOES NOT EXIST, THE CONTRACTOR SHALL PROVIDE A LISTED CELLULAR DIALER SYSTEM (WITH INTEGRAL 24 HOUR BATTERY BACKUP) THAT COMPLIES WITH 2013 NFPA 72, SECTION 26.6.3 AS THE SOLE/PRIMARY MEANS OF COMMUNICATION. PROVIDE FOR A SECONDARY METHOD OF COMMUNICATION WHERE REQUIRED BY THE AHJ. NOTE THAT 2013 NFPA 72 DOES NOT PERMIT TELEPHONE LINES AS THE SOLE MEANS OF COMMUNICATION. IF ANOTHER APPROVED COMMUNICATION METHOD IS ELECTED, THE FIRE ALARM CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL NECESSARY COMMUNICATION EQUIPMENT AND PROVIDE 24 HOUR BATTERY BACKUP FOR ALL SUCH EQUIPMENT AS PART OF THE FIRE ALARM SCOPE.
- DEVICES SHALL BE OF COLOR SPECIFIED OR MATCH THE COLOR OF ANY EXISTING FIXTURES TO REMAIN OR BE REUSED IN THE AREA OF WORK IF THERE ARE EXISTING DEVICES TO MATCH.
- PULL STATIONS ARE ONLY PROVIDED AT REQUIRED EXITS.
- THE CONTRACTOR SHALL SUBMIT FIRE ALARM SHOP DRAWINGS TO THE FIRE PREVENTION OFFICE PRIOR TO BEGINNING WORK. NO INSPECTIONS ALLOWED PRIOR TO RECEIVING APPROVAL FROM THE FIRE MARSHAL.
- ALL FIRE ALARM DEVICES IN COMMON SIGHT LINES MUST BE VISUALLY SYNCHRONIZED AND ALL AUDIBLE FIRE ALARM DEVICES MUST BE AUDIBLY SYNCHRONIZED AND OF A CONSISTENT AUDIBLE SIGNAL THROUGHOUT THE BUILDING. REPLACE DEVICES AND / OR PROVIDE SYNC. MODULES IN BOOSTER PANELS / NAC OUTPUTS AS NECESSARY TO ACHIEVE SYNCHRONIZATION THROUGHOUT. EXISTING DEVICES / BOOSTER PANELS SHOWN TO REMAIN IN THESE DRAWINGS SHOULD BE CONSIDERED EXISTING TO REMAIN ONLY IF THE FIRE ALARM CONTRACTOR VERIFIES THEIR ABILITY TO SYNCHRONIZE, AND SHOULD BE CONSIDERED NEW OTHERWISE. ALL COST ASSOCIATED WITH SYNCHRONIZATION SHOULD BE IDENTIFIED AND INCLUDED IN ANY PRICING OR BIDS.
- INTERLOCK FIRE ALARM SYSTEM WITH SECURITY SYSTEM SUCH THAT WHEN FIRE ALARM SYSTEM IS ACTIVATED, SECURITY SYSTEM UNLOCKS DOORS AS REQUIRED BY 2018 NORTH CAROLINA BUILDING CODE, SECTION 1001.9.8, NOTE #4. COORDINATE WITH SECURITY CONTRACTOR. SYSTEM SHALL FAIL SAFE OPEN UPON POWER LOSS.
- THE CONTRACTOR SHALL PREPARE FIRE ALARM SHOP DRAWINGS INCLUDING A FLOOR PLANS) SHOWING DEVICE AND CIRCUIT LAYOUTS WITH A DETAILED RISER DIAGRAM SHOWING EACH DEVICE AND ALL CIRCUITRY. FIRE ALARM SHOP DRAWINGS SHALL INCLUDE DETAILED BATTERY AND VOLTAGE DROP CALCULATIONS AS REQUIRED BY THE 2018 NC FIRE CODE, SECTION 907. BATTERY CALCULATIONS SHALL SHOW BATTERY REQUIREMENTS FOR THE ENTIRE SYSTEM (INCLUDING ANY OTHER FITUPS). IF BATTERY CALCULATIONS SHOW THE SYSTEM AS INSUFFICIENT, CONTRACTOR SHALL PROVIDE ALTERNATE PRICE TO ADD A NEW 4 CIRCUIT POWER EXTENDER(S) AND CONNECT REQUIRED DEVICES TO IT. CONTRACTOR SHALL SUBMIT MINIMUM 5 COPIES OF PLAN, RISER DIAGRAM, BATTERY CALCULATIONS & VOLTAGE DROP CALCULATIONS WITH SUBMITTAL DATA TO ENGINEER FOR REVIEW PRIOR TO BEGINNING ANY WORK OR SUBMITTING TO THE LOCAL FIRE MARSHAL.
- INITIATING DEVICE CIRCUITS SHALL BE LOADED TO A MAXIMUM OF 75% CAPACITY.
- AUDIO/VISUAL CIRCUITS SHALL BE LOADED TO A MAXIMUM OF 75% CAPACITY.
- PROVIDE POWER EXTENDERS AS REQUIRED FOR NOTIFICATION APPLIANCE CIRCUITS.
- RISER DIAGRAM DEVICES ARE GENERIC AND DO NOT REPRESENT DEVICE QUANTITIES REQUIRED FOR THIS PROJECT. SEE PLANS FOR QUANTITIES.
- CONNECT SHUNT TRIP CIRCUIT BREAKERS FOR ELEVATOR CONTROLLER TO FIRE ALARM SYSTEM AS REQUIRED. SHUNT TRIP SIGNAL SHALL BE DELAYED TO ALLOW TIME FOR THE ELEVATOR CAR TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE EXACT TIMING WITH ELEVATOR VENDOR.
- IF THERE IS A SPRINKLER HEAD IN THE ELEVATOR PIT: PROVIDE A HEAT DETECTOR CONNECTED TO THE FIRE ALARM SYSTEM IN THE BOTTOM OF THE ELEVATOR SHAFT WITHIN 2 FEET OF THE SPRINKLER HEAD. HEAT DETECTOR MUST BE RATE-OF-RISE TYPE AND MUST INITIATE ALARM BEFORE ACTIVATION OF AUTOMATIC SPRINKLER HEADS IN HOISTWAYS. UPON ACTIVATION OF THIS HEAT DETECTOR, THE ELEVATOR POWER SHALL BE DISCONNECTED VIA THE SHUNT TRIP BREAKER WHICH IS ALSO CONNECTED TO THE FIRE ALARM SYSTEM. COORDINATE CONTROLS REQUIREMENTS WITH ELEVATOR CONTRACTOR AS REQUIRED.
- IF THERE IS A SPRINKLER HEAD AT THE TOP OF THE ELEVATOR SHAFT: PROVIDE A HEAT DETECTOR CONNECTED TO THE FIRE ALARM SYSTEM AT THE TOP OF THE ELEVATOR SHAFT WITHIN 2 FEET OF THE SPRINKLER HEAD. HEAT DETECTOR MUST BE RATE-OF-RISE TYPE AND MUST INITIATE ALARM BEFORE ACTIVATION OF AUTOMATIC SPRINKLER HEADS IN HOISTWAYS. UPON ACTIVATION OF THIS HEAT DETECTOR, THE ELEVATOR POWER SHALL BE DISCONNECTED VIA THE SHUNT TRIP BREAKER WHICH IS ALSO CONNECTED TO THE FIRE ALARM SYSTEM. COORDINATE CONTROLS REQUIREMENTS WITH ELEVATOR CONTRACTOR AS REQUIRED.
- IF THERE IS A SPRINKLER HEAD AT THE TOP OF THE ELEVATOR SHAFT: PROVIDE A SMOKE DETECTOR CONNECTED TO THE FIRE ALARM SYSTEM AT THE TOP OF THE ELEVATOR SHAFT WITHIN 2 FEET OF THE SPRINKLER HEAD. UPON ACTIVATION OF THIS SMOKE DETECTOR, THE ELEVATOR SHALL RETURN TO THE DESIGNATED FLOOR. COORDINATE CONTROLS REQUIREMENTS WITH ELEVATOR CONTRACTOR AS REQUIRED.
- PROVIDE ONE HEAT DETECTOR AND ONE SMOKE DETECTOR, EACH WITHIN 2' OF EACH SPRINKLER HEAD IN THE ELEVATOR EQUIPMENT ROOM. COORDINATE LOCATION AND QUANTITY WITH SPRINKLER CONTRACTOR.
- CONTRACTOR SHALL VERIFY ALL OF THE ABOVE INFORMATION WITH THE ELEVATOR EQUIPMENT INSTALLER TO COORDINATE ANY ADDITIONAL ITEMS PRIOR TO BEGINNING WORK.
- POWER EXTENDERS HAVE BEEN SHOWN ON PLANS AS A GENERAL GUIDELINE. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE POWER EXTENDER AS SPECIFIED FOR EACH FLOOR OF THE BUILDING, REGARDLESS OF FLOOR SIZE. NO POWER EXTENDER SHALL SERVE MORE THAN ONE FLOOR OR 25,000 SQUARE FEET OF TOTAL BUILDING AREA INCLUDING CORE AND FUTURE FITUP AREA.
- DEVICES REQUIRED DURING SHELL CONSTRUCTION SHALL BE CONNECTED TO THE POWER EXTENDER SERVING THAT FLOOR, AND EACH CIRCUIT SHALL BE LOADED PRIOR TO USING ANOTHER CIRCUIT.



1 FIRE ALARM RISER DIAGRAM
 SCALE: NONE

SYSTEM INPUTS	BUILDING SYSTEM OUTPUTS												CENTRAL COMMUNICATOR						
MANUAL FIRE ALARM PULL STATION	X	X												X	X	X	X		
BUILDING SMOKE DETECTOR	X	X												X	X	X	X		
BUILDING HEAT DETECTOR	X	X												X	X	X	X		
SPRINKLER WATERFLOW	X	X												X	X	X	X		
SPRINKLER TAMPER			X	X										X	X	X	X		
FIRE ALARM AC POWER FAILURE			X	X										X	X	X	X		
FIRE ALARM SYSTEM LOW BATTERY			X	X										X	X	X	X		
OPEN CIRCUIT			X	X										X	X	X	X		
GROUND FAULT			X	X										X	X	X	X		
NOTIFICATION APPLIANCE CIRCUIT SHORT			X	X										X	X	X	X		
DUCT DETECTORS			X	X										X	X	X	X		
SECONDARY FIRE SUPPRESSION SYSTEM ALARM SIGNAL	X	X												X	X	X	X		
SECONDARY FIRE SUPPRESSION SYSTEM TROUBLE SIGNAL			X	X										X	X	X	X		
SECONDARY FIRE SUPPRESSION SYSTEM SUPERVISORY SIGNAL			X	X										X	X	X	X		

FIRE ALARM SYSTEM MATRIX

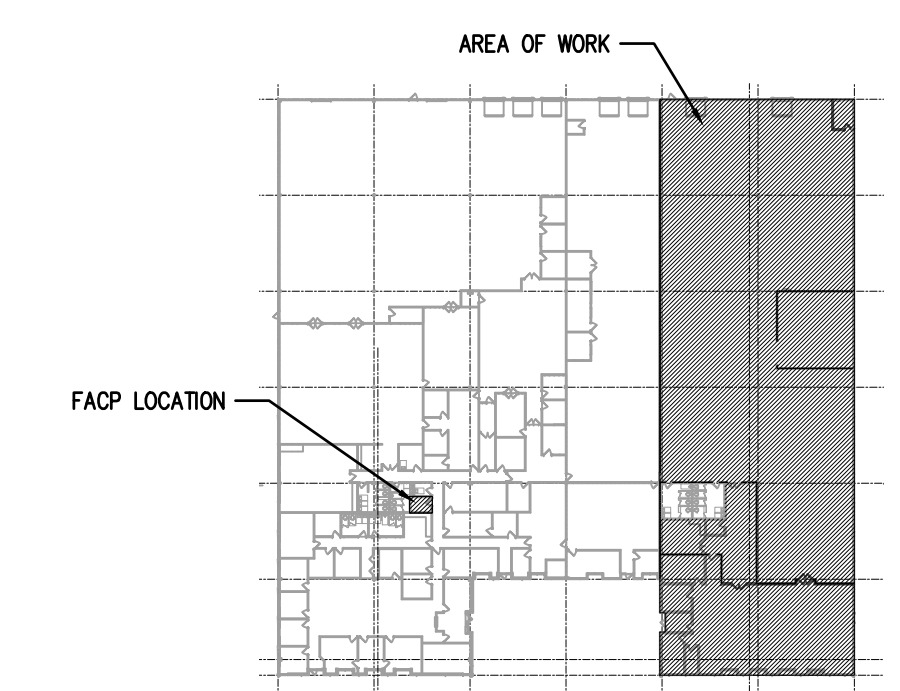
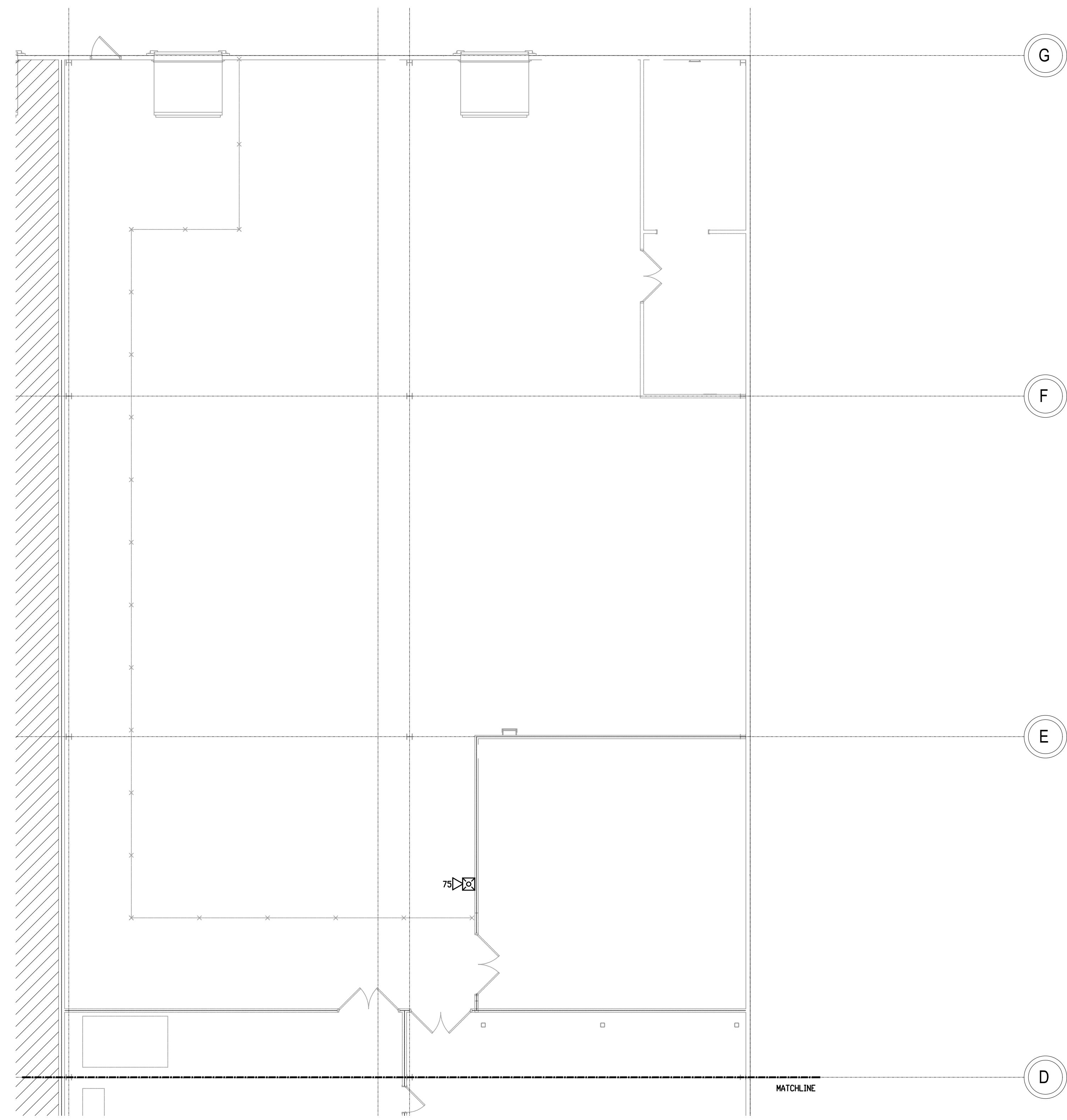
FIRE ALARM SEQUENCE OF OPERATION:

- UPON CHANGE IN STATUS OF ANY DEVICE ON THE SYSTEM, THE FIRE ALARM CONTROL PANEL SHALL ACTIVATE AUDIBLE AND VISIBLE CHANGE INDICATORS AND DISPLAY THE SYSTEM POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT.
- REMOVAL OF ANY DEVICE, WIRING DISARRANGEMENT, OR SYSTEM COMPONENT FAILURE SHALL DISPLAY ON THE OPERATOR TERMINAL, THE CHANGE OF STATUS, TIME, DATE, POINT DESCRIPTION ON A POINT BY POINT BASIS, AND THE MESSAGE ASSOCIATED WITH THE POINT AND TRANSMIT A TROUBLE SIGNAL TO A UL LISTED CENTRAL STATION.
- INDICATION EVACUATION TONE SHALL BE THREE BEAT TEMPORAL PATTERN, UNLESS HIGH RISE OR LARGE ASSEMBLY.
- FOR ELEVATOR SHUNT TRIP, CONTROL PANEL AND RELAY SHALL BE PROGRAMMED WITH A DELAY THAT WILL ALLOW TIME FOR THE ELEVATOR CAR TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. FIELD COORDINATE EXACT TIMING WITH ELEVATOR VENDOR.
- ACTIVATION OF ANY MANUAL STATION, KITCHEN HOOD EXTINGUISHING SYSTEM, WATERFLOW DEVICE, SMOKE DETECTOR, HEAT DETECTOR, SUPERVISORY DEVICE OR OTHER INITIATING DEVICE WILL CAUSE THE FOLLOWING FUNCTIONS TO OCCUR:
- MANUAL STATION OPERATION SHALL:**
- ACTIVATE AUDIBLE AND VISUAL STATUS CHANGE INDICATORS AND DISPLAY POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT ON THE PANEL.
 - TRANSMIT AN ALARM SIGNAL TO A UL LISTED CENTRAL STATION.
 - ACTIVATE THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES IN THE BUILDING.
 - RELEASE THE DOOR LOCKING SYSTEMS OF ACCESS-CONTROLLED EGRESS DOORS.
 - SHUT DOWN AIR HANDLERS.
- WATERFLOW SWITCH OPERATION SHALL:**
- ACTIVATE AUDIBLE AND VISUAL STATUS CHANGE INDICATORS AND DISPLAY POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT ON THE PANEL.
 - TRANSMIT AN ALARM SIGNAL TO A UL LISTED CENTRAL STATION.
 - ACTIVATE THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES IN THE BUILDING.
 - RELEASE THE DOOR LOCKING SYSTEMS OF ACCESS-CONTROLLED EGRESS DOORS.
 - SHUT DOWN AIR HANDLERS.
- SMOKE DETECTOR OR HEAT DETECTOR OPERATION SHALL:**
- ACTIVATE AUDIBLE AND VISUAL STATUS CHANGE INDICATORS AND DISPLAY POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT ON THE PANEL.
 - TRANSMIT AN ALARM SIGNAL TO A UL LISTED CENTRAL STATION.
 - ACTIVATE THE AUDIBLE AND VISUAL NOTIFICATION APPLIANCES IN THE BUILDING.
 - RELEASE THE DOOR LOCKING SYSTEMS OF ACCESS-CONTROLLED EGRESS DOORS.
 - SHUT DOWN AIR HANDLERS.
- DUCT SMOKE DETECTOR ACTIVATION SHALL:**
- ACTIVATE AUDIBLE AND VISUAL STATUS CHANGE INDICATORS AND DISPLAY POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT ON THE PANEL.
 - TRANSMIT AN ALARM SIGNAL TO A UL LISTED CENTRAL STATION.
 - SHUT DOWN AIR HANDLERS AS FOLLOWS:
 - IN BUILDINGS WITH ONE TENANT OR COMMON HVAC SYSTEM OR ONE LARGE AIR VOLUME, ANY DUCT DETECTOR SHALL SHUT DOWN ALL AIR HANDLERS OF THE HVAC SYSTEM.
 - IN BUILDINGS WITH MULTIPLE TENANTS SEPARATED INTO DIFFERENT AIR VOLUMES WITH HVAC UNITS DEDICATED TO THOSE TENANTS / AIR VOLUMES, ANY DUCT DETECTOR WITHIN A GIVEN TENANT / AIR VOLUME SHALL SHUT DOWN ALL AIR HANDLERS ASSOCIATED WITH THAT TENANT / AIR VOLUME.
- SUPERVISORY DEVICE ACTIVATION, INCLUDING VALVE SUPERVISORY DEVICES SHALL:**
- ACTIVATE AUDIBLE AND VISUAL STATUS CHANGE INDICATORS AND DISPLAY POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT ON THE PANEL.
 - TRANSMIT A SUPERVISORY SIGNAL TO A UL LISTED CENTRAL STATION. THIS SIGNAL SHALL BE DISTINCTLY DIFFERENT THAN A TROUBLE SIGNAL.



- NOTES**
- ALL ELECTRICAL BOXES MOUNTED IN RATED WALLS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2018 NCSBC, SECTION 714.3.2. ALL ELECTRICAL BOXES MOUNTED IN RATED CEILINGS/HORIZONTAL ASSEMBLIES SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2018 NCSBC, SECTION 714.4.2. UNLESS OTHERWISE NOTED, DEVICES SHOWN IN RATED ASSEMBLIES SHALL BE FLUSH WITH CONDUIT CONCEALED. PROVIDE HORIZONTAL SEPARATION, PUTTY PADS, RATED BOXES ETC. AS REQUIRED FOR REQUIRED INSTALLATION. ALL LOW VOLTAGE ELECTRICAL DEVICES MOUNTED IN RATED ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH THE SECTIONS LISTED ABOVE.
 - IT IS NOTED THAT THE CEILING IS 7'-1" AFF THROUGHOUT THE SPACE. THEREFORE, FIRE ALARM SYSTEM HAS BEEN DESIGNED BASED ON A MAXIMUM CEILING HEIGHT OF 7'-1" AFF.
 - CONTRACTOR MAY REUSE EXISTING DEVICES BEING DEMOLISHED GIVEN THEY ARE IN PROPER WORKING ORDER, THE CANDELA IS APPROPRIATE AND THE DEVICE CAN BE SYNCHRONIZED WITH OTHER DEVICES, IF NEEDED.
 - THE EXISTING BUILDING FACP IS LOCATED IN THE FIRST FLOOR FACP ROOM WITH EXISTING SMOKE DETECTOR.

- PLAN NOTES**
- EXISTING FACP LOCATION.
 - PROVIDE DUCT DETECTOR IN RETURN AIR DUCT AND CONNECT REMOTE LED INDICATOR IN CEILING GRID AS REQUIRED. COORDINATE W/ MECH TYPICAL.



2 KEY PLAN
 SCALE: NONE

FIRE ALARM SCOPE/SYSTEM NOTE:
 THE SCOPE OF FIRE ALARM WORK FOR THIS PROJECT IS TO ADD NEW NOTIFICATION AND/OR INITIATING DEVICES AS NECESSARY TO PROVIDE CODE REQUIRED COVERAGE FOR THE TENANT SPACE INDICATED ON PLANS.
 THE EXISTING SYSTEM UTILIZES HORN/STROBE NOTIFICATION.

FIRE ALARM SYNCHRONIZATION NOTE:
 ALL FIRE ALARM DEVICES IN COMMON SIGHT LINES MUST BE VISUALLY SYNCHRONIZED AND ALL AUDIBLE FIRE ALARM DEVICES MUST BE AUDIBLY SYNCHRONIZED AND OF A CONSISTENT AUDIBLE SIGNAL THROUGHOUT THE BUILDING. REPLACE DEVICES AND / OR PROVIDE SYNC MODULES IN BOOSTER PANELS / NAC OUTPUTS AS NECESSARY TO ACHIEVE SYNCHRONIZATION THROUGHOUT. EXISTING DEVICES / BOOSTER PANELS SHOWN TO REMAIN ON THESE DRAWINGS SHOULD BE CONSIDERED EXISTING TO REMAIN ONLY IF THE FIRE ALARM CONTRACTOR VERIFIES THEIR ABILITY TO SYNCHRONIZE, AND SHOULD BE CONSIDERED NEW OTHERWISE. ALL COST ASSOCIATED WITH SYNCHRONIZATION SHOULD BE IDENTIFIED AND INCLUDED IN ANY PRICING OR BIDS.

NOTE:
 THE EXISTING LOCATIONS SHOWN ON DEMO PLAN TO BE REMOVED OR RELOCATED ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BEGINNING WORK. ANY ITEMS REQUIRED TO BE REMOVED OR RELOCATED SHALL BE INCLUDED IN CONTRACTOR'S COST. WHETHER SHOWN ON THIS PLAN OR NOT. UNLESS SPECIFICALLY NOTED OTHERWISE, WHERE A DEVICE OR ITEM IS NOTED TO BE DEMOLISHED, THE WORK SHALL INCLUDE REMOVING ALL ASSOCIATED BOXES, CONDUITS, CONDUCTORS, CABLES ETC. AND SHALL INCLUDE ANY PATCH, REPAIR, PAINT OR REFINISH NECESSARY TO RESTORE THE LOCATION TO MATCH THE SURROUNDING. THE CONTRACTOR MAY REUSE ANY EXISTING CONDUCTORS, BOXES ETC. WHERE THEY HAVE BEEN INSPECTED AND ARE DETERMINED TO BE ACCEPTABLE TO THE OWNER AND/OR IN LIKE-NEW CONDITION.

WALL TYPES AND RATINGS LEGEND

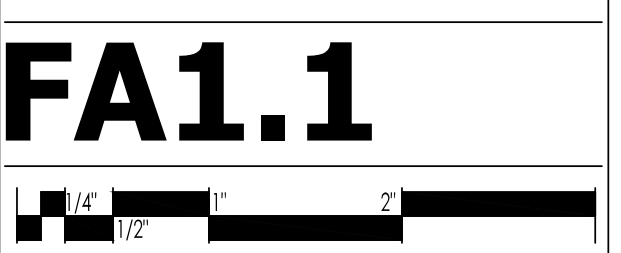
REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION ON RATINGS AND ADDITIONAL RATED CONSTRUCTIONS INCLUDING COLUMNS WHERE APPLICABLE. PROTECT ALL RATED CONSTRUCTIONS AS REQUIRED.

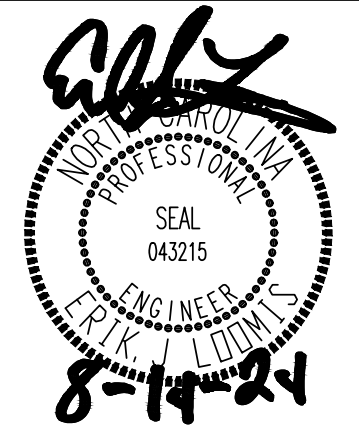
	EXISTING WALL TO REMAIN
	NEW WALL TO BE CONSTRUCTED
	EXISTING WALL TO BE DEMOLISHED
	ONE HOUR FIRE PARTITION

1 PARTIAL FLOOR PLAN - FIRE ALARM DEMOLITION
 SCALE: 1/8" = 1' - 0"

No.	Description	Date

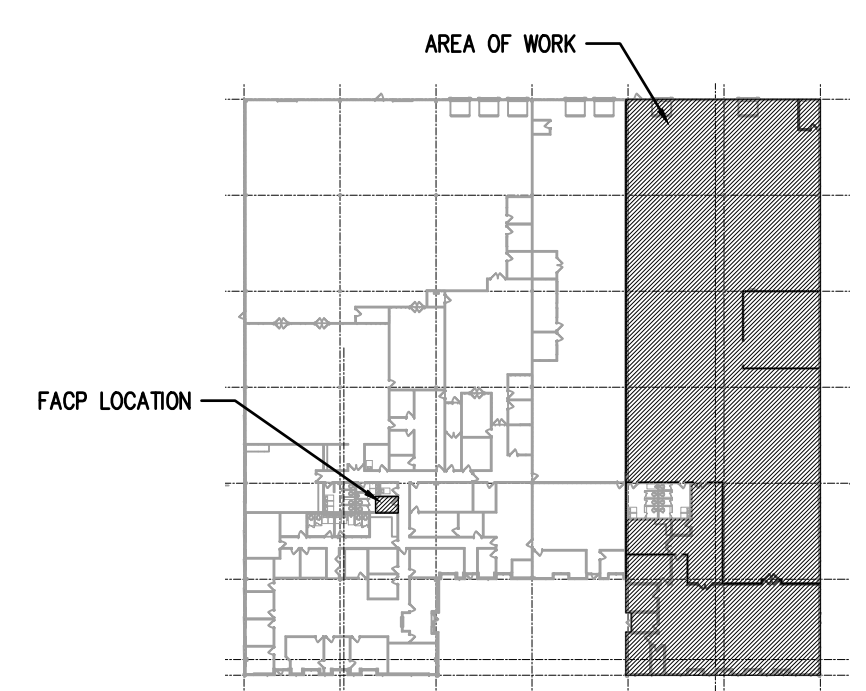
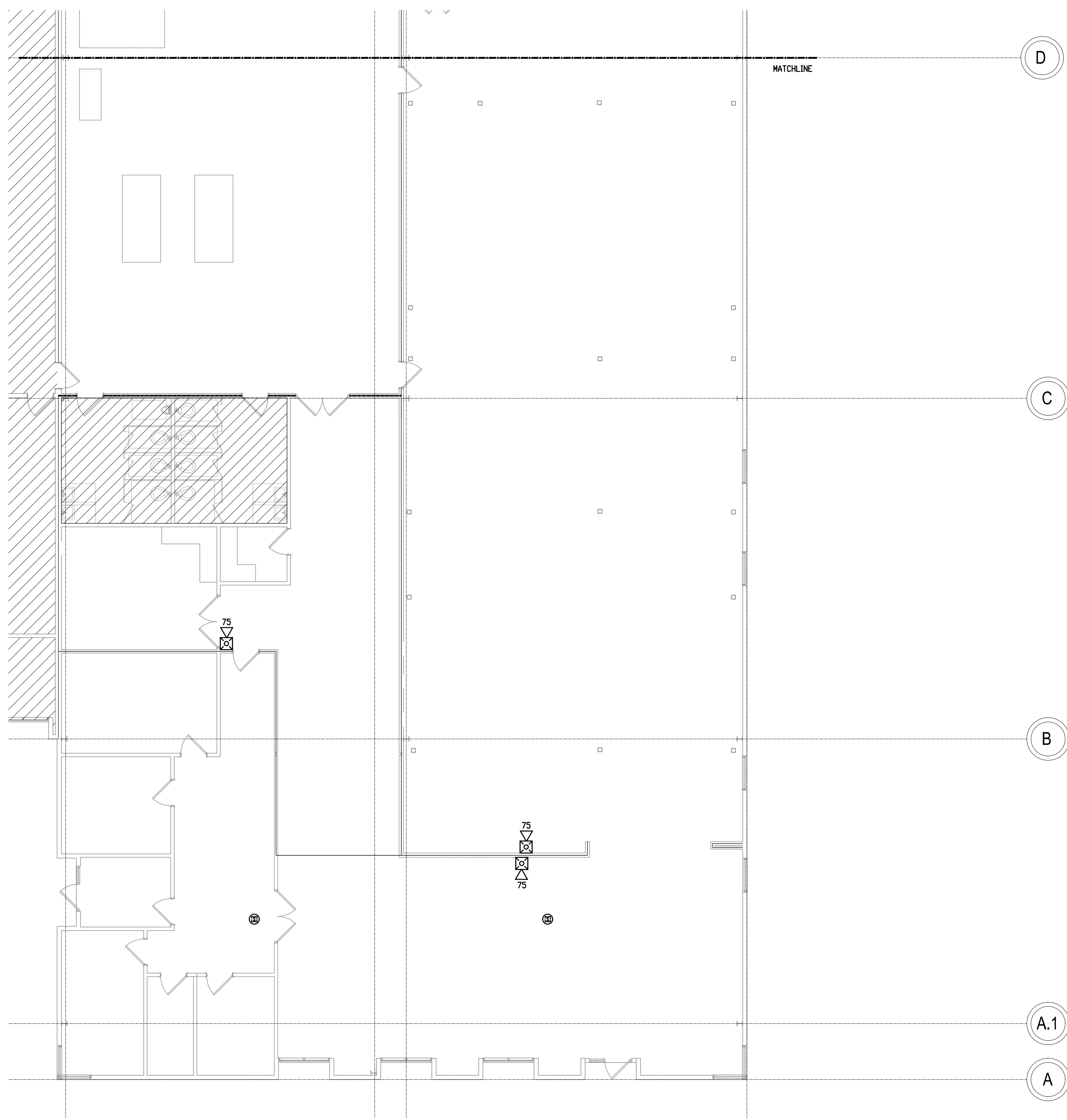
PROJECT #: 240012
 DATE: 08/14/2024
 PARTIAL FLOOR PLAN -
 FIRE ALARM
 DEMOLITION





- NOTES**
- ALL ELECTRICAL BOXES MOUNTED IN RATED WALLS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2019 NCSBC, SECTION 714.3.2. ALL ELECTRICAL BOXES MOUNTED IN RATED CEILINGS/HORIZONTAL ASSEMBLIES SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2019 NCSBC, SECTION 714.4.2. UNLESS OTHERWISE NOTED, DEVICES SHOWN IN RATED ASSEMBLIES SHALL BE FLUSH WITH CONDUIT CONCEALED. PROVIDE HORIZONTAL SEPARATION, PUTTY PADS, RATED BOXES ETC. AS REQUIRED FOR REQUIRED INSTALLATION. ALL LOW VOLTAGE ELECTRICAL DEVICES MOUNTED IN RATED ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH THE SECTIONS LISTED ABOVE.
 - IT IS NOTED THAT THE CEILING IS 7'-1" AFF THROUGHOUT THE SPACE. THEREFORE, FIRE ALARM SYSTEM HAS BEEN DESIGNED BASED ON A MAXIMUM CEILING HEIGHT OF 7'-1" AFF.
 - CONTRACTOR MAY REUSE EXISTING DEVICES BEING DEMOLISHED GIVEN THEY ARE IN PROPER WORKING ORDER, THE CANDELA IS APPROPRIATE AND THE DEVICE CAN BE SYNCHRONIZED WITH OTHER DEVICES, IF NEEDED.
 - THE EXISTING BUILDING FACP IS LOCATED IN THE FIRST FLOOR FACP ROOM WITH EXISTING SMOKE DETECTOR.

- PLAN NOTES**
- EXISTING FACP LOCATION.
 - PROVIDE DUCT DETECTOR IN RETURN AIR DUCT AND CONNECT REMOTE LED INDICATOR IN CEILING GRID AS REQUIRED. COORDINATE W/ MECH TYPICAL.



2 KEY PLAN
 SCALE: NONE

FIRE ALARM SCOPE/SYSTEM NOTE:
 THE SCOPE OF FIRE ALARM WORK FOR THIS PROJECT IS TO ADD NEW NOTIFICATION AND/OR INITIATING DEVICES NECESSARY TO PROVIDE CODE REQUIRED COVERAGE FOR THE TENANT SPACE INDICATED ON PLANS. THE EXISTING SYSTEM UTILIZES HORN/STROBE NOTIFICATION.

FIRE ALARM SYNCHRONIZATION NOTE:
 ALL FIRE ALARM DEVICES IN COMMON SIGHT LINES MUST BE VISUALLY SYNCHRONIZED AND ALL AUDIBLE FIRE ALARM DEVICES MUST BE AUDIBLY SYNCHRONIZED AND OF A CONSISTENT AUDIBLE SIGNAL THROUGHOUT THE BUILDING. REPLACE DEVICES AND / OR PROVIDE SYNC MODULES IN BOOSTER PANELS / NAC OUTPUTS AS NECESSARY TO ACHIEVE SYNCHRONIZATION THROUGHOUT. EXISTING DEVICES / BOOSTER PANELS SHOWN TO REMAIN ON THESE DRAWINGS SHOULD BE CONSIDERED EXISTING TO REMAIN ONLY IF THE FIRE ALARM CONTRACTOR VERIFIES THEIR ABILITY TO SYNCHRONIZE, AND SHOULD BE CONSIDERED NEW OTHERWISE. ALL COST ASSOCIATED WITH SYNCHRONIZATION SHOULD BE IDENTIFIED AND INCLUDED IN ANY PRICING OR BIDS.

NOTE:
 THE EXISTING LOCATIONS SHOWN ON DEMO PLAN TO BE REMOVED OR RELOCATED ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BEGINNING WORK. ANY ITEMS REQUIRED TO BE REMOVED OR RELOCATED SHALL BE INCLUDED IN CONTRACTOR'S COST. WHETHER SHOWN ON THIS PLAN OR NOT. UNLESS SPECIFICALLY NOTED OTHERWISE, WHERE A DEVICE OR ITEM IS NOTED TO BE DEMOLISHED, THE WORK SHALL INCLUDE REMOVING ALL ASSOCIATED BOXES, CONDUITS, CONDUCTORS, CABLES ETC. AND SHALL INCLUDE ANY PATCH, REPAIR, PAINT OR REFINISH NECESSARY TO RESTORE THE LOCATION TO MATCH THE SURROUNDING. THE CONTRACTOR MAY REUSE ANY EXISTING CONDUCTORS, BOXES ETC. WHERE THEY HAVE BEEN INSPECTED AND ARE DETERMINED TO BE ACCEPTABLE TO THE OWNER AND/OR IN LIKE-NEW CONDITION.

WALL TYPES AND RATINGS LEGEND

REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION ON RATINGS AND ADDITIONAL RATED CONSTRUCTIONS INCLUDING COLUMNS WHERE APPLICABLE. PROTECT ALL RATED CONSTRUCTIONS AS REQUIRED.

	EXISTING WALL TO REMAIN
	NEW WALL TO BE CONSTRUCTED
	EXISTING WALL TO BE DEMOLISHED
	ONE HOUR FIRE PARTITION

1 PARTIAL FLOOR PLAN - FIRE ALARM DEMOLITION
 SCALE: 1/8" = 1' - 0"

No.	Description	Date

PROJECT #: 240012

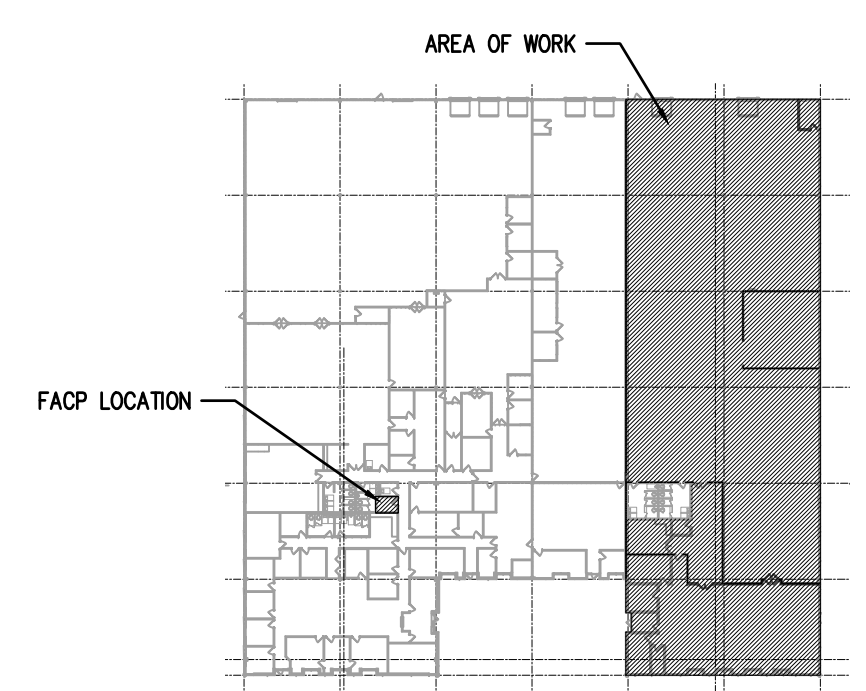
DATE: 08/14/2024

PARTIAL FLOOR PLAN -
 FIRE ALARM
 DEMOLITION

FA1.2

- NOTES**
- ALL ELECTRICAL BOXES MOUNTED IN RATED WALLS SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2019 NCSBC, SECTION 714.3.2. ALL ELECTRICAL BOXES MOUNTED IN RATED CEILINGS/HORIZONTAL ASSEMBLIES SHALL COMPLY WITH ALL REQUIREMENTS OF THE 2019 NCSBC, SECTION 714.4.2. UNLESS OTHERWISE NOTED, DEVICES SHOWN IN RATED ASSEMBLIES SHALL BE FLUSH WITH CONDUIT CONCEALED. PROVIDE HORIZONTAL SEPARATION, PUTTY PADS, RATED BOXES ETC. AS REQUIRED FOR REQUIRED INSTALLATION. ALL LOW VOLTAGE ELECTRICAL DEVICES MOUNTED IN RATED ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH THE SECTIONS LISTED ABOVE.
 - IT IS NOTED THAT THE CEILING IS 7'-1" AFF THROUGHOUT THE SPACE. THEREFORE, FIRE ALARM SYSTEM HAS BEEN DESIGNED BASED ON A MAXIMUM CEILING HEIGHT OF 7'-1" AFF.
 - CONTRACTOR MAY REUSE EXISTING DEVICES BEING DEMOLISHED GIVEN THEY ARE IN PROPER WORKING ORDER, THE CANDELA IS APPROPRIATE AND THE DEVICE CAN BE SYNCHRONIZED WITH OTHER DEVICES, IF NEEDED.
 - THE EXISTING BUILDING FACP IS LOCATED IN THE FIRST FLOOR FACP ROOM WITH EXISTING SMOKE DETECTOR.

- PLAN NOTES**
- EXISTING FACP LOCATION.
 - PROVIDE DUCT DETECTOR IN RETURN AIR DUCT AND CONNECT REMOTE LED INDICATOR IN CEILING GRID AS REQUIRED. COORDINATE W/ MECH TYPICAL.



3 KEY PLAN
 SCALE: NONE

FIRE ALARM SCOPE/SYSTEM NOTE:
 THE SCOPE OF FIRE ALARM WORK FOR THIS PROJECT IS TO ADD NEW NOTIFICATION AND/OR INITIATING DEVICES AS NECESSARY TO PROVIDE CODE REQUIRED COVERAGE FOR THE TENANT SPACE INDICATED ON PLANS. THE EXISTING SYSTEM UTILIZES HORN/STROBE NOTIFICATION.

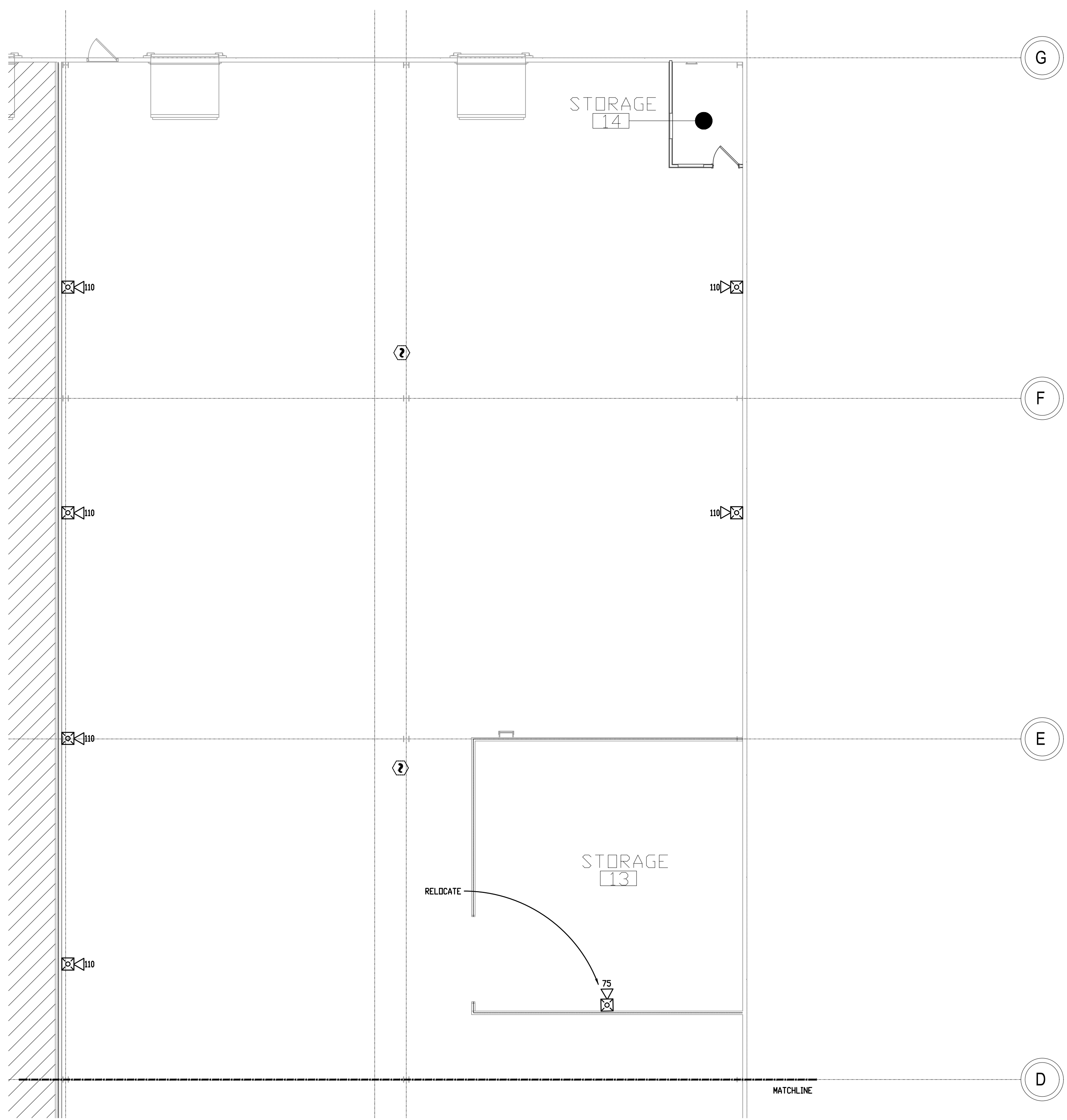
FIRE ALARM SYNCHRONIZATION NOTE:
 ALL FIRE ALARM DEVICES IN COMMON SIGHT LINES MUST BE VISUALLY SYNCHRONIZED AND ALL AUDIBLE FIRE ALARM DEVICES MUST BE AUDIBLY SYNCHRONIZED AND OF A CONSISTENT AUDIBLE SIGNAL THROUGHOUT THE BUILDING. REPLACE DEVICES AND / OR PROVIDE SYNC MODULES IN BOOSTER PANELS / NAC OUTPUTS AS NECESSARY TO ACHIEVE SYNCHRONIZATION THROUGHOUT. EXISTING DEVICES / BOOSTER PANELS SHOWN TO REMAIN ON THESE DRAWINGS SHOULD BE CONSIDERED EXISTING TO REMAIN ONLY IF THE FIRE ALARM CONTRACTOR VERIFIES THEIR ABILITY TO SYNCHRONIZE, AND SHOULD BE CONSIDERED NEW OTHERWISE. ALL COST ASSOCIATED WITH SYNCHRONIZATION SHOULD BE IDENTIFIED AND INCLUDED IN ANY PRICING OR BIDS.

NOTE:
 THE EXISTING LOCATIONS SHOWN ON DEMO PLAN TO BE REMOVED OR RELOCATED ARE FOR REFERENCE ONLY AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BEGINNING WORK. ANY ITEMS REQUIRED TO BE REMOVED OR RELOCATED SHALL BE INCLUDED IN CONTRACTOR'S COST, WHETHER SHOWN ON THIS PLAN OR NOT. UNLESS SPECIFICALLY NOTED OTHERWISE, WHERE A DEVICE OR ITEM IS NOTED TO BE DEMOLISHED, THE WORK SHALL INCLUDE REMOVING ALL ASSOCIATED BOXES, CONDUITS, CONDUCTORS, CABLES ETC. AND SHALL INCLUDE ANY PATCH, REPAIR, PAINT OR REFINISH NECESSARY TO RESTORE THE LOCATION TO MATCH THE SURROUNDING. THE CONTRACTOR MAY REUSE ANY EXISTING CONDUCTORS, BOXES ETC. WHERE THEY HAVE BEEN INSPECTED AND ARE DETERMINED TO BE ACCEPTABLE TO THE OWNER AND/OR IN LIKE-NEW CONDITION.

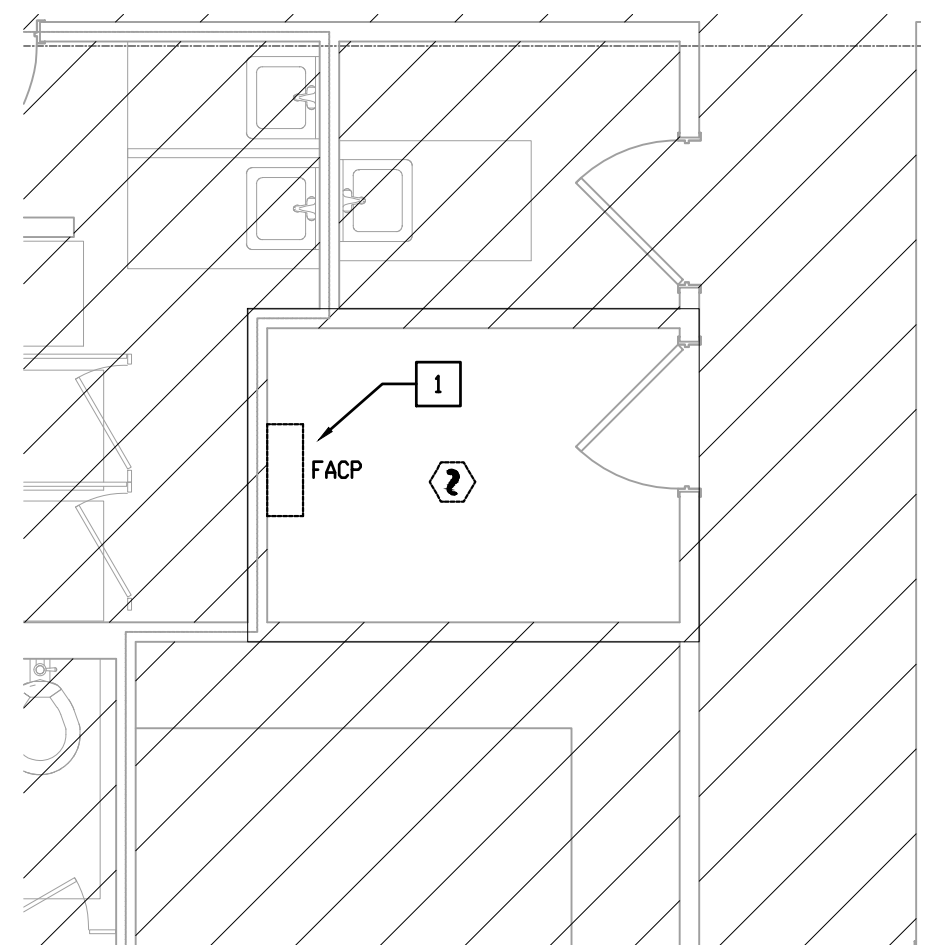
WALL TYPES AND RATINGS LEGEND

REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION ON RATINGS AND ADDITIONAL RATED CONSTRUCTIONS INCLUDING COLUMNS WHERE APPLICABLE. PROTECT ALL RATED CONSTRUCTIONS AS REQUIRED.

	EXISTING WALL TO REMAIN
	NEW WALL TO BE CONSTRUCTED
	EXISTING WALL TO BE DEMOLISHED
	ONE HOUR FIRE PARTITION



1 PARTIAL FLOOR PLAN - FIRE ALARM
 SCALE: 1/8" = 1' - 0"



2 ENLARGED FLOOR PLAN - FACP ROOM
 SCALE: 1/4" = 1' - 0"

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No.	Description	Date

PROJECT #: 240012

DATE: 08/14/2024

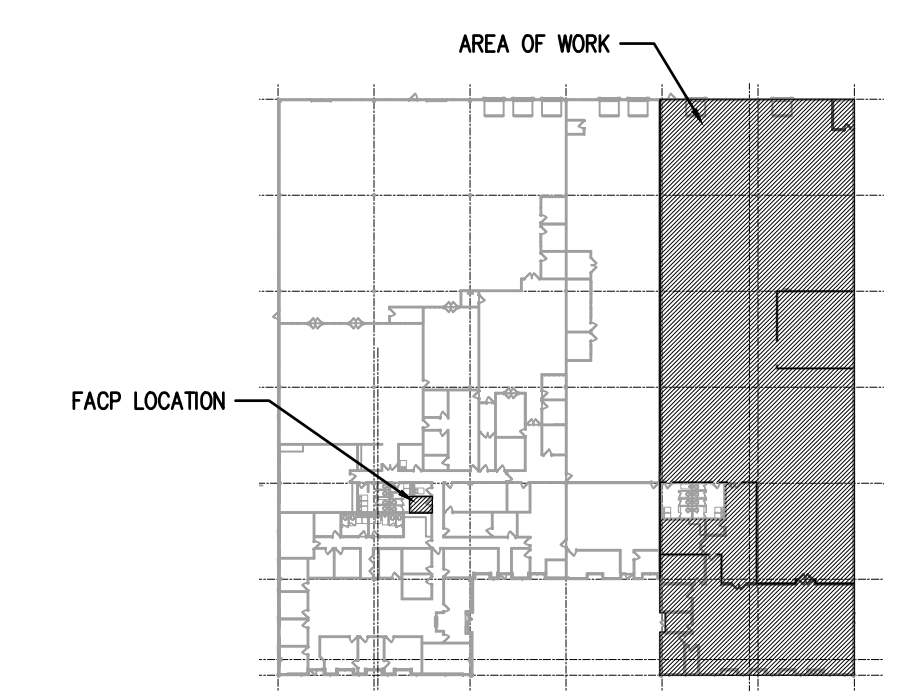
PARTIAL FLOOR PLAN - FIRE ALARM

FA1.3
 1/4" 1/2" 1"



- NOTES**
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 - THE EXISTING BUILDING FACP IS LOCATED IN THE FIRST FLOOR FACP ROOM WITH EXISTING SMOKE DETECTOR.

- PLAN NOTES**
- EXISTING FACP LOCATION.
 - PROVIDE DUCT DETECTOR IN RETURN AIR DUCT AND CONNECT REMOTE LED INDICATOR IN CEILING GRID AS REQUIRED. COORDINATE W/ MECH TYPICAL.



3 KEY PLAN
 SCALE: NONE

FIRE ALARM SCOPE/SYSTEM NOTE:
 THE SCOPE OF FIRE ALARM WORK FOR THIS PROJECT IS TO ADD NEW NOTIFICATION AND/OR INITIATING DEVICES NECESSARY TO PROVIDE CODE REQUIRED COVERAGE FOR THE TENANT SPACE INDICATED ON PLANS. THE EXISTING SYSTEM UTILIZES HORN/STROBE NOTIFICATION.

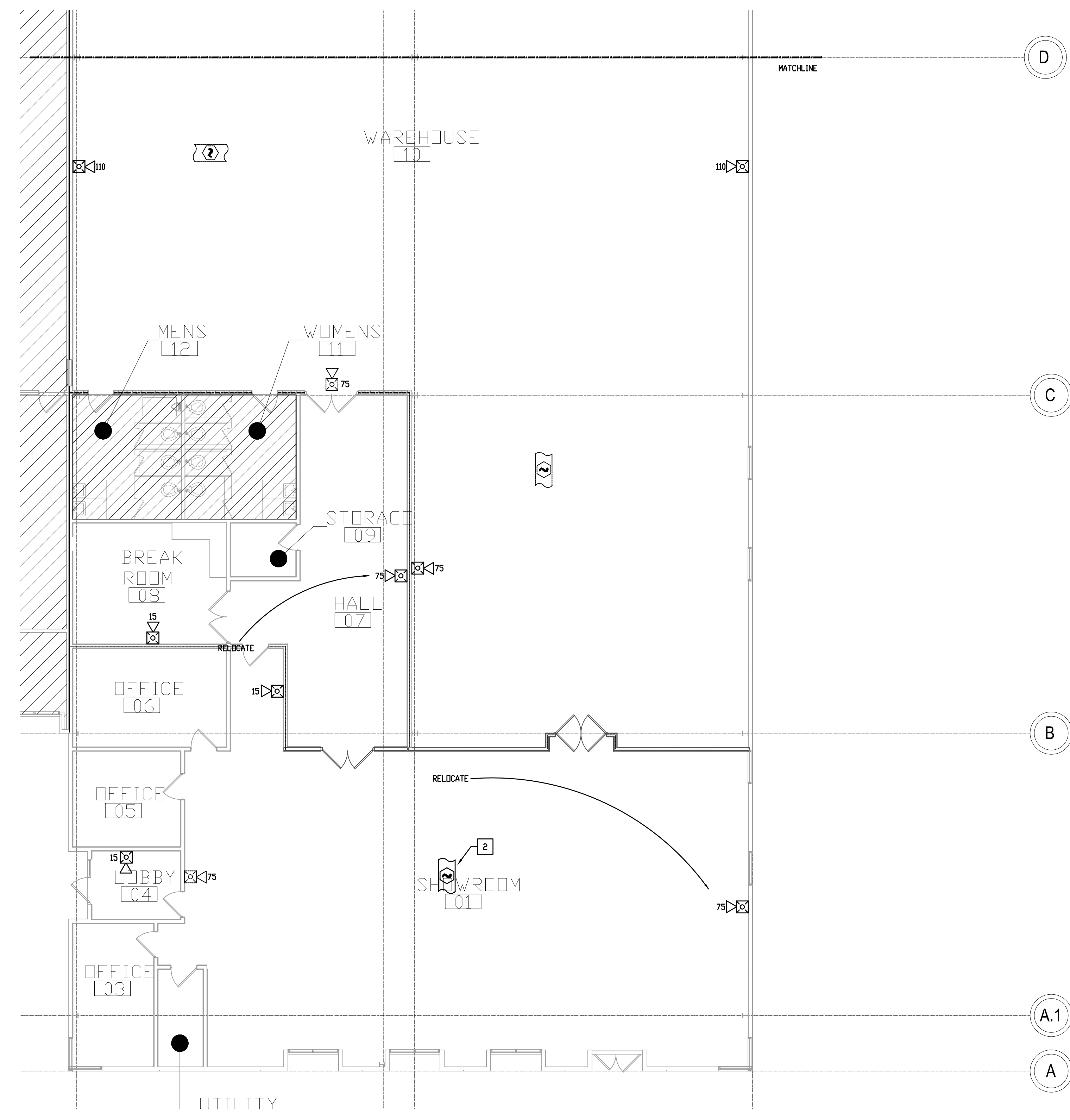
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NOTE:
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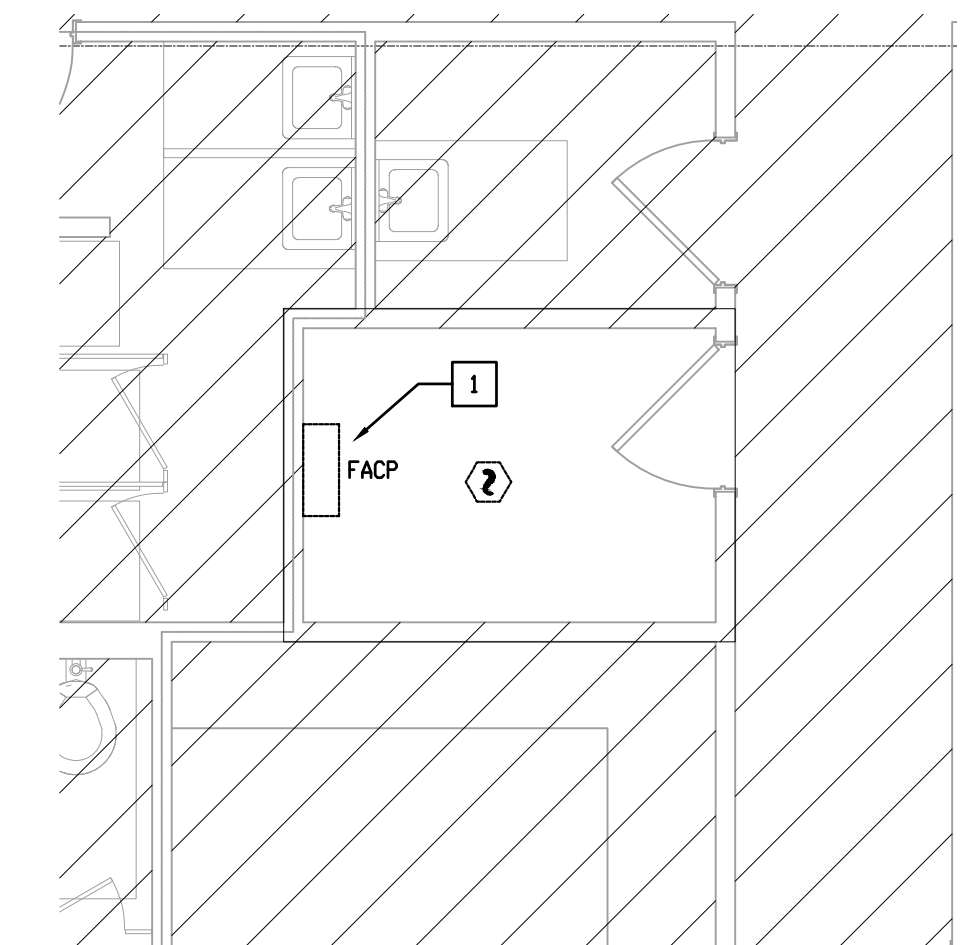
WALL TYPES AND RATINGS LEGEND

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	EXISTING WALL TO REMAIN
	NEW WALL TO BE CONSTRUCTED
	EXISTING WALL TO BE DEMOLISHED
	ONE HOUR FIRE PARTITION



1 PARTIAL FLOOR PLAN - FIRE ALARM
 SCALE: 1/8" = 1' - 0"



2 ENLARGED FLOOR PLAN - FACP ROOM
 SCALE: 1/4" = 1' - 0"

No.	Description	Date

PROJECT #: 240012

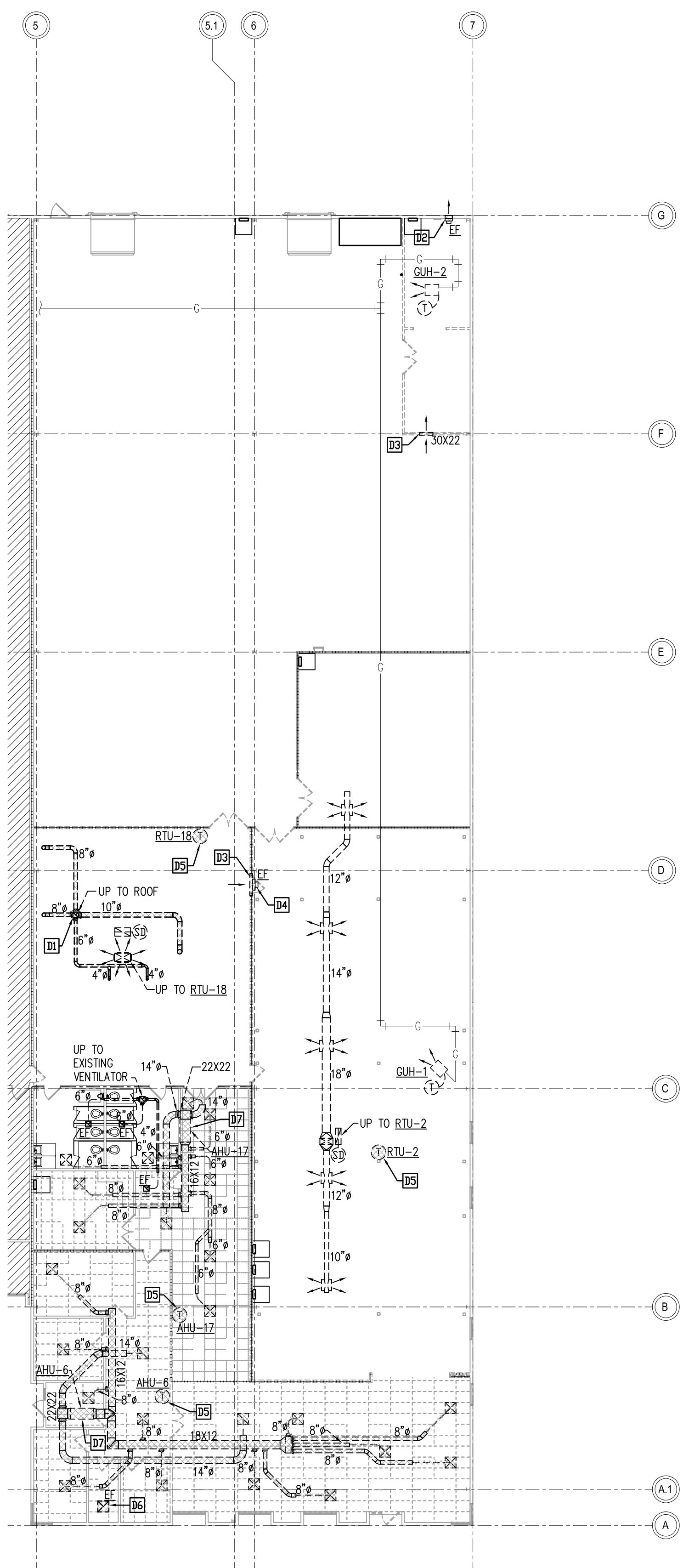
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PARTIAL FLOOR PLAN - FIRE ALARM

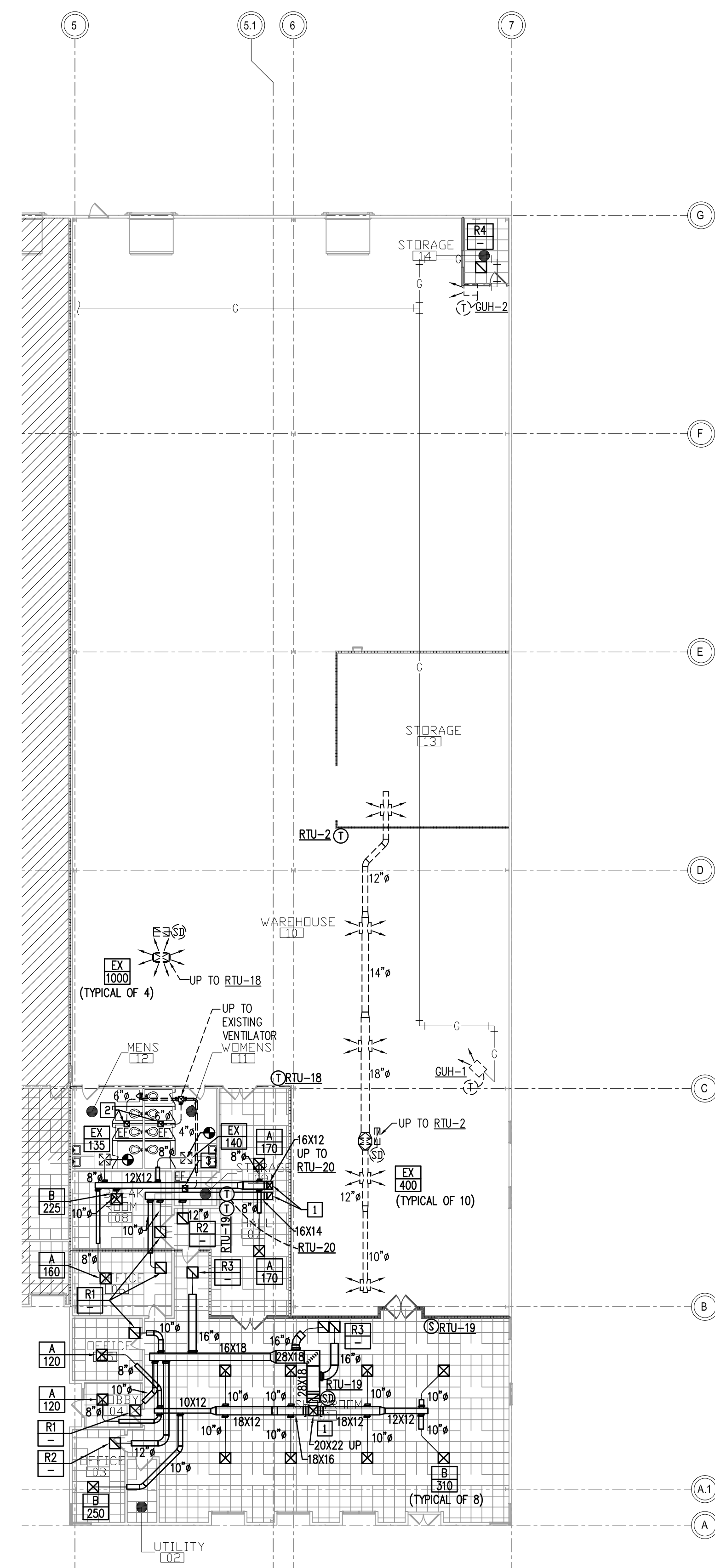
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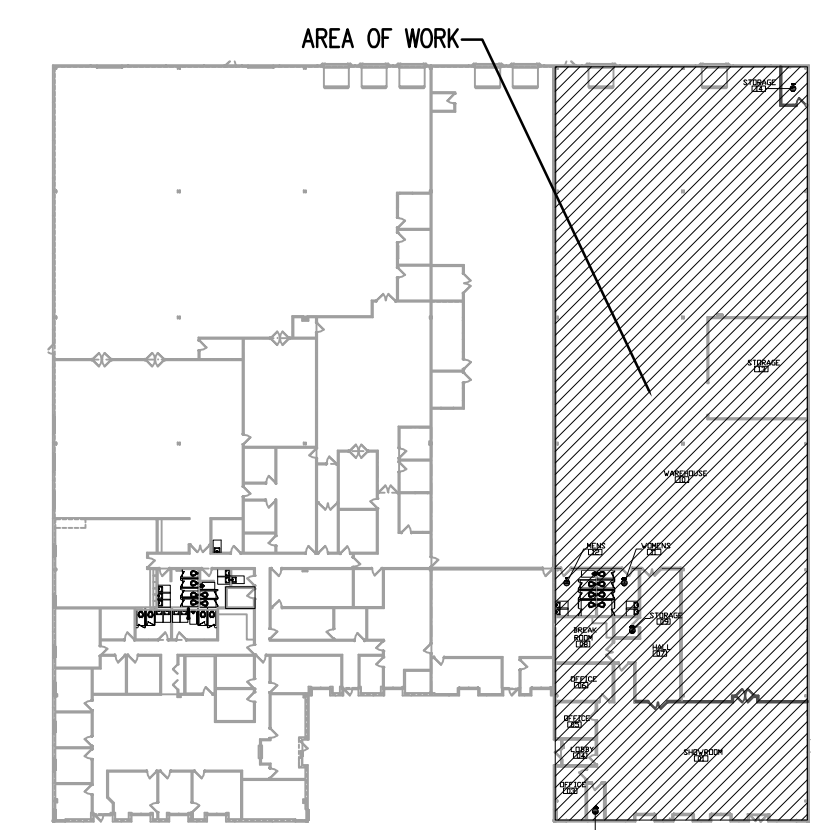
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1 FLOOR PLAN - MECHANICAL DEMOLITION
 SCALE: 1/16" = 1' - 0"



2 FLOOR PLAN - MECHANICAL
 SCALE: 1/16" = 1' - 0"



3 KEY PLAN
 SCALE: NONE

- DEMOLITION NOTES:**
- D1 DEMOLISH EXISTING ROOF MOUNTED EXHAUST FAN AND ALL ASSOCIATED EXHAUST DUCTWORK AS INDICATED. COORDINATE REPAIR OF ROOF WITH GENERAL CONTRACTOR.
 - D2 DEMOLISH EXISTING WALL MOUNTED EXHAUST FAN. COORDINATE REPAIR OF BUILDING ENVELOPE WITH GENERAL CONTRACTOR.
 - D3 DEMOLISH EXISTING LOUVER.
 - D4 DEMOLISH EXISTING WALL MOUNTED EXHAUST FAN.
 - D5 REMOVE THERMOSTAT AND RELOCATE AS INDICATED ON "FLOOR PLAN - MECHANICAL."
 - D6 DEMOLISH EXHAUST FAN.
 - D7 DEMOLISH EXISTING AIR HANDLING UNIT, SUPPLY AND RETURN AIR DUCTWORK, SUPPLY AND RETURN AIR SPIN IN TAPS, RETURN AIR GRILLES, AND SUPPLY AIR DIFFUSERS AS INDICATED. REMOVE ANY ASSOCIATED CONTROL WIRING. DIFFUSERS NOT INDICATED TO BE DEMOLISHED SHALL REMAIN FOR RECONNECTION DURING THE CONSTRUCTION PHASE.

- PLAN NOTES:**
- 1 DUCTWORK ROUTES DOWN FROM NEW RTU ABOVE. TRANSITION FROM RTU CONNECTIONS AS REQUIRED. ROUTE NEW SUPPLY AND RETURN DUCTWORK ABOVE CEILING, SIZED AS INDICATED.
 - 2 VERIFY PROPER OPERATION OF EXISTING EXHAUST FAN. VERIFY FAN IS BALANCED TO EXHAUST 280 CFM. FAN SHALL BE SWITCHED WITH LIGHTS.
 - 3 VERIFY PROPER OPERATION OF EXISTING EXHAUST FAN. VERIFY FAN IS BALANCED TO EXHAUST 70 CFM. FAN SHALL BE SWITCHED WITH LIGHTS.

WALL TYPES AND RATINGS LEGEND

REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION ON RATINGS AND ADDITIONAL RATED CONSTRUCTIONS INCLUDING COLUMNS WHERE APPLICABLE. PROTECT ALL RATED CONSTRUCTIONS AS REQUIRED.

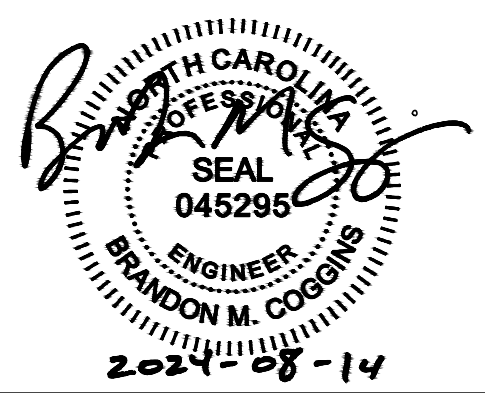
	EXISTING WALL TO REMAIN
	NEW WALL TO BE CONSTRUCTED
	EXISTING WALL TO BE DEMOLISHED
	ONE HOUR FIRE PARTITION

No.	Description	Date

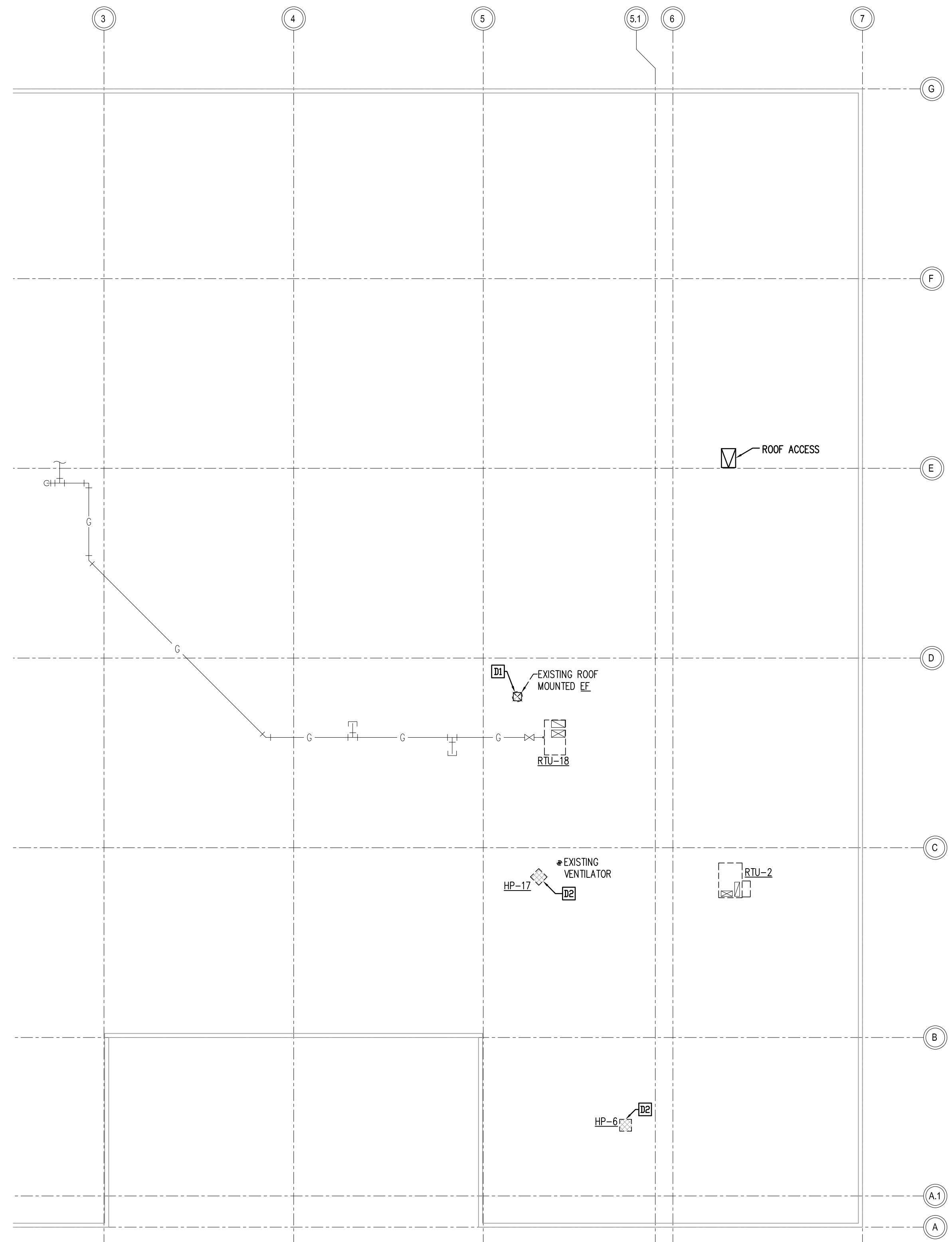
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FLOOR PLAN - MECHANICAL

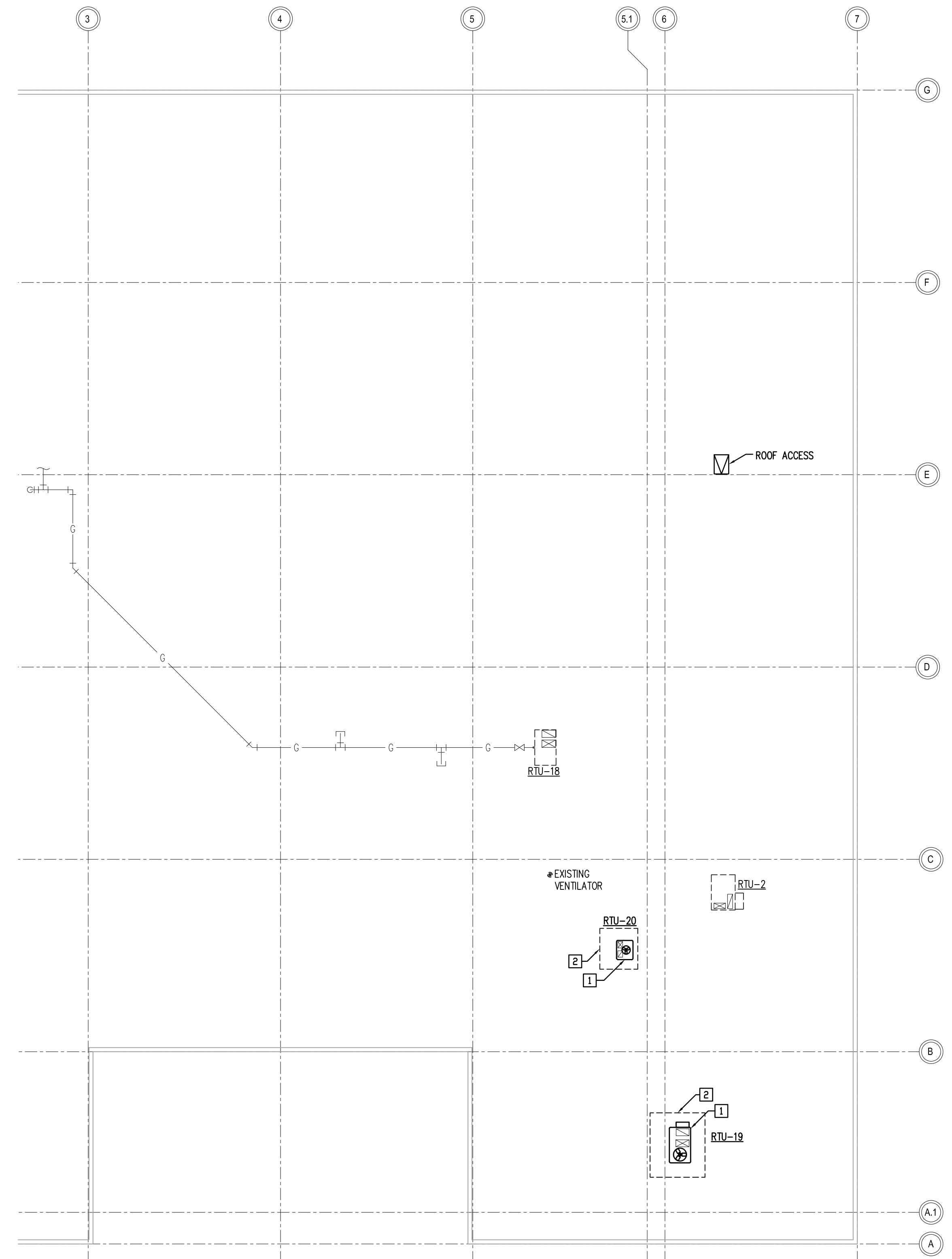
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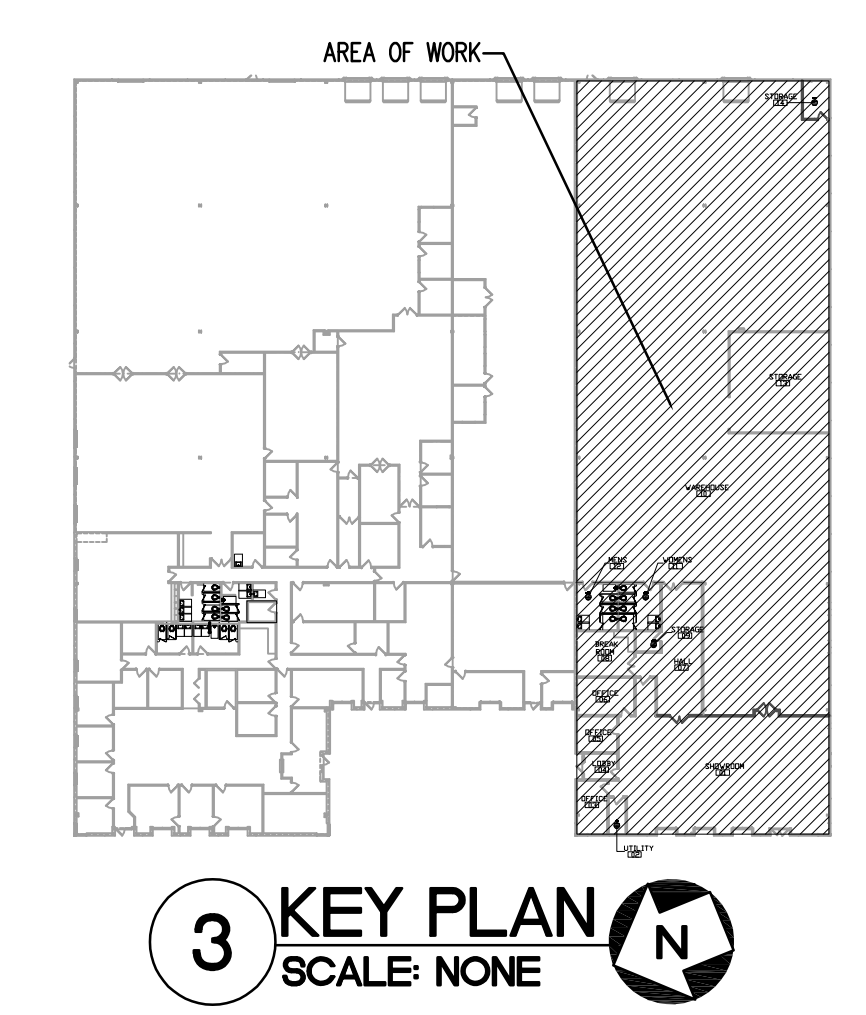
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1 ROOF PLAN - MECHANICAL DEMOLITION
 SCALE: 1/16" = 1' - 0"



2 ROOF PLAN - MECHANICAL
 SCALE: 1/16" = 1' - 0"



3 KEY PLAN
 SCALE: NONE

DEMOLITION NOTES:

- 1) DEMOLISH EXISTING ROOF MOUNTED EXHAUST FAN AND ALL ASSOCIATED EXHAUST DUCTWORK AS INDICATED. COORDINATE REPAIR OF ROOF WITH GENERAL CONTRACTOR.
- 2) DEMOLISH EXISTING ROOF MOUNTED HEAT PUMP. COORDINATE ANY NECESSARY REPAIR OF ROOF WITH GENERAL CONTRACTOR.

PLAN NOTES:

- 1) INSTALL NEW PACKAGED ROOFTOP UNIT PER MANUFACTURER'S REQUIRED CLEARANCES AND INSTALLATION INSTRUCTIONS. INSTALL NEW RTU ON ROOF CURB. ROUTE CONDENSATE ACROSS ROOF AT LEAST 6' FROM RTU IN DIRECTION OF ROOF SLOPE. DISCHARGE ONTO ROOF SURFACE TOWARDS STORM DRAIN. MAINTAIN 6" FROM ROOF EDGE. MAINTAIN 10' BETWEEN OUTSIDE AIR INTAKE AND ANY EXHAUST AIR DISCHARGE OR ROOF VENT.
- 2) MANUFACTURER'S REQUIRED SERVICE CLEARANCES.

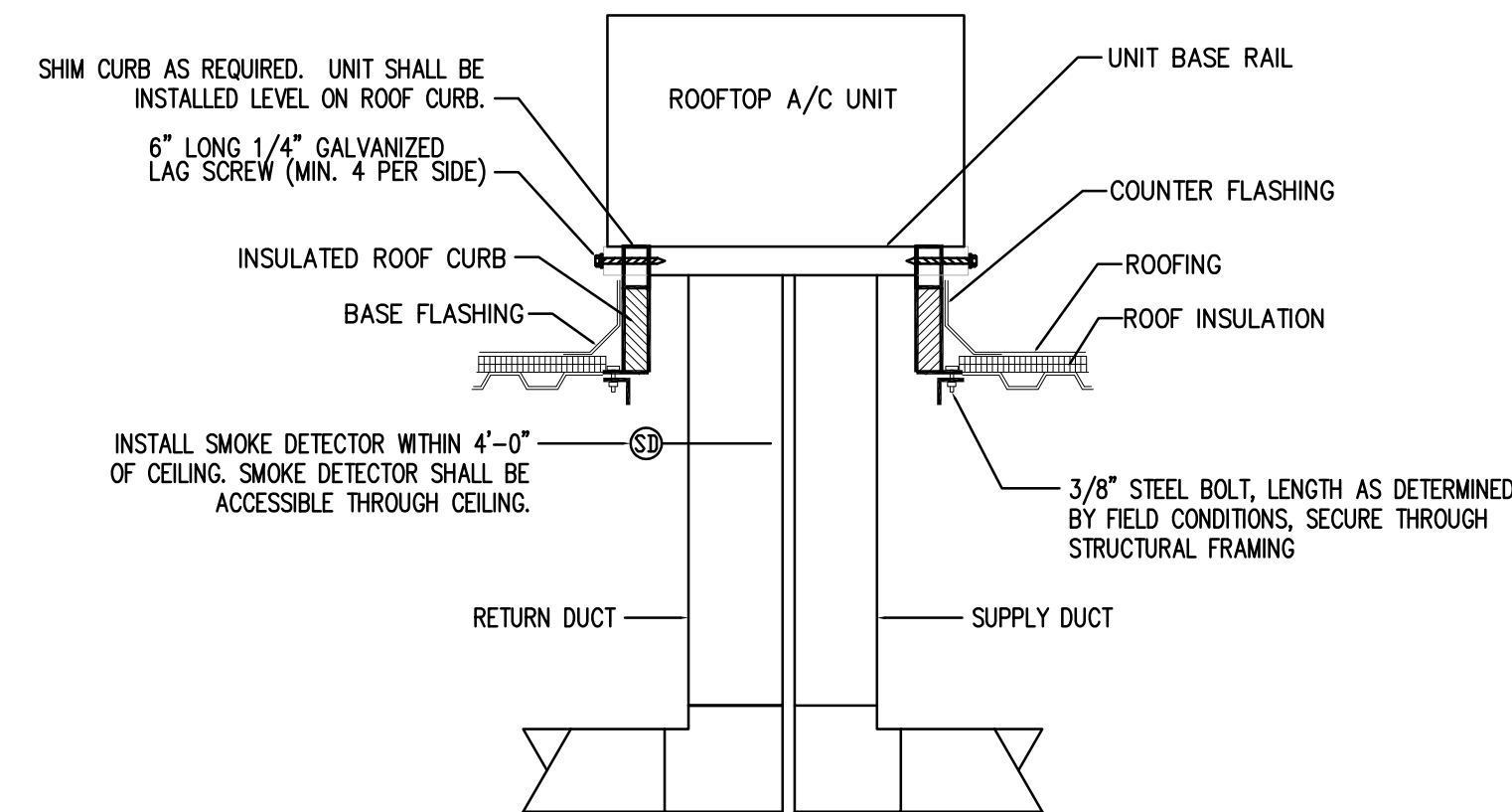
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ROOF PLAN - MECHANICAL

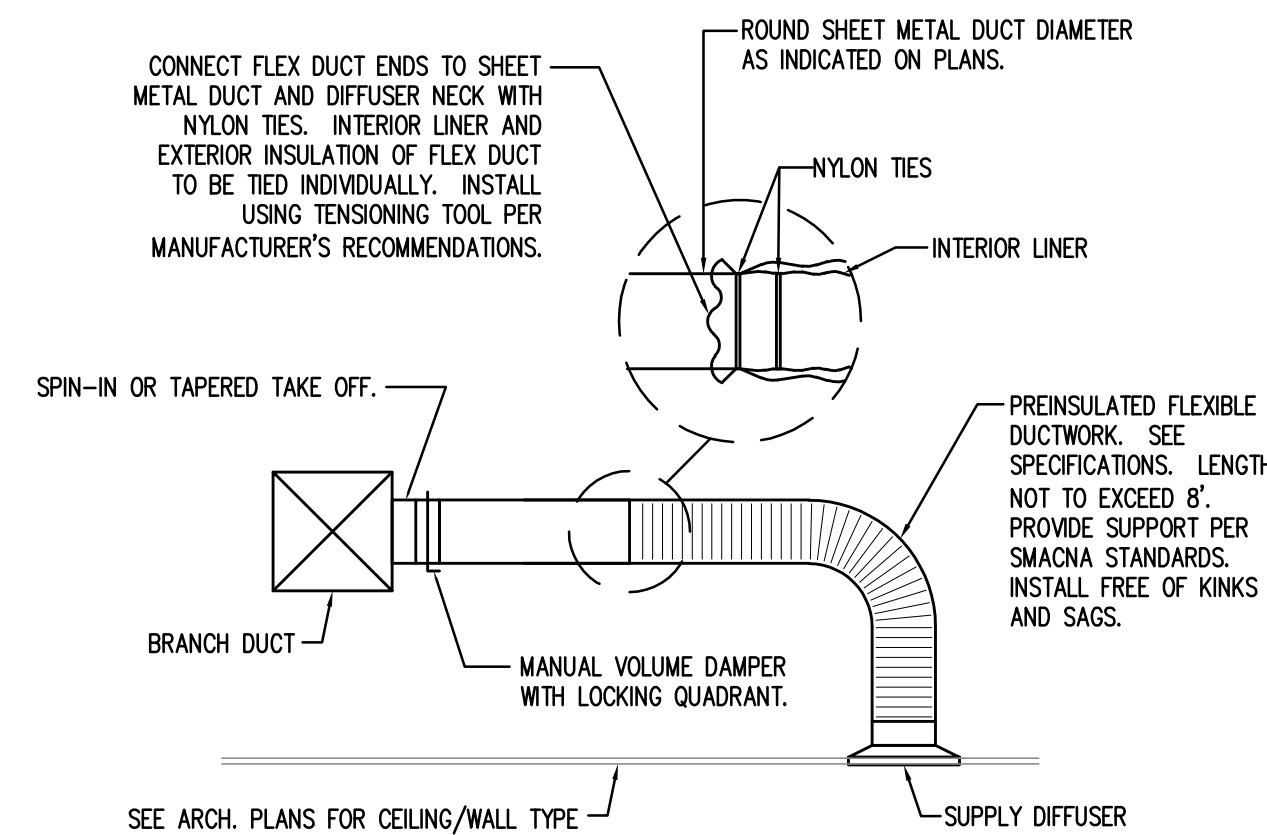
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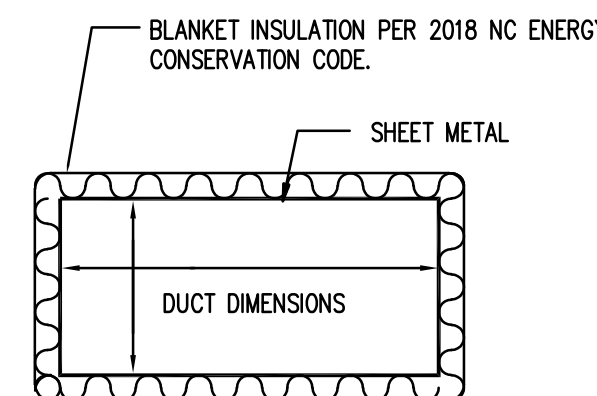


NOTES:
 PROVIDE MANUFACTURER'S ACCESSORY ROOF CURB. ROOF DECKING TO BE LEFT INTACT INSIDE THE ROOF CURB. CUT OPENINGS IN ROOF DECK LARGE ENOUGH TO ACCOMMODATE THE SUPPLY AND RETURN OPENINGS ON THE UNIT. FILL VOID SPACE IN CURB WITH TWO LAYERS OF 5/8\"/>

1 ROOFTOP UNIT MOUNTING DETAIL
 SCALE: NONE



2 FLEXIBLE DUCT TAKE-OFF
 SCALE: NONE



NOTES:
 1. ALL DUCT DIMENSIONS SHOWN ON THESE DRAWINGS ARE INSIDE CLEAR.
 2. PROVIDE A MINIMUM OF R-6 INSULATION WHEN DUCT IS LOCATED IN UNCONDITIONED SPACE.
 3. PROVIDE A MINIMUM OF R-8 INSULATION WHEN DUCT IS LOCATED OUTSIDE THE BUILDING ENVELOPE.

3 CONCEALED DUCT FABRICATION DETAIL
 SCALE: NONE

AIR DISTRIBUTION SCHEDULE						
MARK	MANUFACTURER	MODEL/DESCRIPTION	PANEL SIZE	TYPE	NECK SIZE	REMARKS
A	NAILOR	MODEL 4320, FLUSH FACE, STEEL PERFORATED, 4-WAY DISCHARGE PATTERN	24X24	LAY-IN SUPPLY	8"	①
B	NAILOR	MODEL 4320, FLUSH FACE, STEEL PERFORATED, 4-WAY DISCHARGE PATTERN	24X24	LAY-IN SUPPLY	10"	①
R1	NAILOR	MODEL 4360, STEEL, PERFORATED FACE WITH DUCT COLLAR.	24X24	LAY-IN RETURN	10"	①②
R2	NAILOR	MODEL 4360, STEEL, PERFORATED FACE WITH DUCT COLLAR.	24X24	LAY-IN RETURN	12"	①②
R3	NAILOR	MODEL 4360, STEEL, PERFORATED FACE WITH DUCT COLLAR.	24X24	LAY-IN RETURN	16"	①②
R4	NAILOR	MODEL 4360, STEEL, PERFORATED FACE.	24X24	LAY-IN RETURN	22X22	①
EX	EXISTING	RELOCATE/REBALANCE EXISTING DIFFUSER/GRILLE	----	----	----	③

- ① VERIFY ALL CEILING OR WALL TYPES WITH ARCHITECTURAL PLANS. COORDINATE COLOR WITH ARCHITECT. INSULATE ALL DIFFUSERS AND GRILLES FROM CEILING SPACE.
- ② PROVIDE SQUARE-TO-ROUND TRANSITION AS REQUIRED.
- ③ CLEAN DIFFUSER. REPLACE AS NECESSARY.

EXISTING PACKAGED ROOFTOP UNIT SCHEDULE																
MARK	STATUS	TYPE	MANUFACTURER	NOMINAL TONNAGE	MODEL NO.	S.A. CFM	O.A. CFM	ESP (IN. H2O)	FAN HP	DRIVE	ELEC. HEAT (KW)	HEAT STAGES	VOLT/PH	MCA	MOCF	REMARKS
RTU-2	EXISTING	HEAT PUMP	CARRIER	10.0	RHS120LOCA	4000	430	0.5	-	-	-	-	480/3	-	-	①②③
RTU-18	EXISTING	COOLING/GAS HEAT	TRANE	10.0	YCD120C4LOAC	4000	430	0.5	1	-	-	2	480/3	31	40	①②③

- ① VERIFY PROPER OPERATION OF EXISTING ROOFTOP UNIT. REPAIR AS NECESSARY.
- ② REBALANCE TO CFM INDICATED.
- ③ VERIFY PROPER OPERATION OF EXISTING RETURN AIR SMOKE DETECTOR AND VERIFY SHUT DOWN UPON SIGNAL FROM FIRE ALARM SYSTEM. COORDINATE REPAIR/REPLACEMENT AS NECESSARY WITH FIRE ALARM CONTRACTOR.

PACKAGED ROOFTOP HEAT PUMP SCHEDULE																							
MARK	MANUFACTURER	NOMINAL TONNAGE	MODEL NO.	AHRI COOLING (MBH)	NO. OF COMPRESSORS (STAGES)	HEATING (MBH)	EER	IEER	SEER2	HSPF2	COP	S.A. CFM	O.A. CFM	ESP (IN. H2O)	FAN HP	DRIVE	ELEC. HEAT (KW)	HEAT STAGES	VOLT/PH	MCA	MOCF	WEIGHT (LBS)	REMARKS
RTU-19	TRANE	7.5	WSC092H4	93.0	1 (2)	88.0	11.3	14.1	-	-	3.4	3000	540	0.8	1.0	BELT	9.0	1	480/3	32.0	40	1087	①②③④⑤⑥⑦⑩
RTU-20	TRANE	2.5	4WCC4030E	29.8	1 (1)	28.6	-	-	13.4	7.0	-	1000	95	0.8	1/2	DIRECT	6.0	1	208/1	36.0	40	355	①②③④⑤⑥⑨⑩

- ① ARI COOLING CAPACITY BASED ON INDOOR ENTERING AIR CONDITION OF 80°F DRY BULB, 67°F WET BULB AND OUTDOOR AIR CONDITION OF 95°F DRY BULB.
- ② HEAT PUMP ROOFTOP UNIT SHALL UTILIZE R410A REFRIGERANT.
- ③ PROVIDE UNIT WITH MANUFACTURER'S 14" ROOF CURB.
- ④ PROVIDE UNIT WITH ANTI-SHORT CYCLE TIMER, COIL GUARD, AND ALL ACCESSORIES REQUIRED FOR DOWNFLOW OPERATION.
- ⑤ PROVIDE UNIT WITH 100% OUTDOOR AIR, ENTHALPY CONTROLLED, FULLY MODULATING ECONOMIZER AND POWERED EXHAUST.
- ⑥ PROVIDE SINGLE ZONE WALL MOUNTED TEMPERATURE REMOTE SENSOR. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT FOR ZONE CONTROL AND ADJUSTMENT WITH DIGITAL DISPLAY, OVERRIDE, SETPOINT ADJUSTMENT.
- ⑦ UNIT SHALL BE PROVIDED WITH RETURN AIR SMOKE DETECTOR AND SHALL BE SHUT DOWN UPON SIGNAL FROM FIRE ALARM SYSTEM. CONTROLS BY FIRE ALARM CONTRACTOR. SMOKE DETECTOR SHALL BE FURNISHED AND WIRED BY FIRE ALARM CONTRACTOR. MECHANICAL CONTRACTOR SHALL INSTALL DETECTOR IN RETURN AIR DUCT.
- ⑧ PROVIDE SINGLE ZONE WALL MOUNTED 7-DAY PROGRAMMABLE THERMOSTAT FOR ZONE CONTROL AND ADJUSTMENT WITH DIGITAL DISPLAY, OVERRIDE, AND SETPOINT ADJUSTMENT.
- ⑨ SYSTEM DESIGN AIRFLOW CAPACITY IS NOT GREATER THAN 2000 CFM. NO DUCT SMOKE DETECTOR REQUIRED PER SECTION 606.2.1 OF THE 2018 NC MECHANICAL CODE.
- ⑩ ACCEPTABLE EQUIPMENT MANUFACTURER ALTERNATES TO TRANE SHALL BE CARRIER, LENNOX, AAO, AND YORK. NO OTHER EQUIPMENT MANUFACTURER'S WILL BE ACCEPTED. ALTERNATIVE MANUFACTURER EQUIPMENT MUST MEET ALL SPECIFICATIONS AND ACCESSORY OPTIONS INCLUDED.



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No.	Description	Date

PROJECT #: 240012
 DATE: 08/14/2024

MECHANICAL SCHEDULES AND DETAILS

M2.1

