

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECT
(except 1 and 2-family dwellings and townhouses)**
(Reproduce the following data on the building plans sheet 1 or 2)

PROJECT DESCRIPTION:

This is an existing and historic property. The construction will be a level 3 alteration and the scope of work includes new storefront, new interior finishes, new access to adjacent roof deck, removing interior walls, an increase in the number of apartment units upstairs, and addition of new walls, HVAC units, and fixtures. A new sprinkler system will be installed.

Name of Project: 606-610 FEARING ST
Address: ELIZABETH CITY, NC Zip Code: 27909
Authorized Agent: Elenor Methven Phone#: (919) 829-4969 Email: elenor@maurerarchitecture.com
Owned By: Privately City/County State
Code Enforcement Jurisdiction: City County City/County

CONTACT:

DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE#	EMAIL
Architectural	MAURER ARCHITECTURE	DAVID MAURER	5131	919-829-4969	david@maurerarchitecture.com
Civil					
Electrical	ELIZABETH VAN NOORDT			919.4.14.6464	edvnp@gmail.com
Fire Alarm				14.6.67	
Plumbing	ELIZABETH VAN NOORDT			919.4.14.6464	edvnp@gmail.com
Mechanical	ELIZABETH VAN NOORDT			919.4.14.6464	edvnp@gmail.com
Sprinkler-Standpipe					
Structural	ROSS LINDEN ENGINEERS	BRIAN ROSS	25539	919.832.5680	brian@rosslinden.com
Retaining Walls >5' High					
Other					

(*Other* should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building Shell/Core 1st Time Interior Completions
 Addition Phased Construction - Shell Core

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) _____ **CURRENT OCCUPANCY(S)** (Ch.3): B, R-3
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch.3): B, R-2

OCCUPANCY CATEGORY (Table 1604.5) **Current:** **Proposed:**

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Class: I II III Wet Dry
Primary Fire District: No Yes **Flood Hazard Area:** No Dry
Special Inspections Required: No Yes

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor			
2nd Floor	2698		2698
Mezzanine			
1st Floor	2641		2641
Basement			
Total	5339		5339

ALLOWABLE AREA
Primary Occupancies Classification(s):
Assembly A-1 A-2 A-3 A-4 A-5
Business
Educational
Factory F-1 Moderate F-2 Low
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional I-1 I-2 I-3 I-4
I-1 Condition 1 2
I-2 Condition 1 2
I-3 Condition 1 2 3 4 5
Mercantile
Residential R-1 R-2 R-3 R-4
Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
Utility/Miscellaneous

Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A

This separation is not exempt as a Non-Separated Use (see exceptions).
Special Uses (Chapter 4 - List Code Sections): N/A
Special Provisions (Chapter 5 - List Code Sections): N/A
Mixed Occupancy: YES Separation: NON-SEPARATED Exception: _____

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE **	(D) ALLOWABLE AREA PER STORY OR UNLIMITED
1	BUSINESS	2641	76,000	760	76,760
2	R-2	2698	16,000	160	16,160

1 Frontage are increased from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20' feet minimum width = .5L (P)
b. Total building perimeter = .2P (P)
c. Ratio (P/P) = .2L (P/P)
d. W = Minimum width of public way = 10' (W)
2 Unlimited area applicable under conditions of Sections 507.
3 Maximum Building Area is total number of stories in the building x D (maximum 3 stories) (506.2)
4 The maximum area of parking garages must comply with 506.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
5 Frontage increase is based on the unobstructed area value in Table 506.2.

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	60'	26'-10"	
Building Height in Stories (Table 504.4)	4	2	

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

FIRE PROTECTION REQUIREMENTS
THIS SECTION REQUIRED FOR ALL PROJECTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING PROVIDED		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQD	(W/ HR REDUCTION)				
Structural frame, including columns, girders, trusses							
Bearing Walls							
Exterior		2	2				
North		2	2				
East		2	2				
West		2	2				
South		2	2				
Interior	NA						
Norbearing Walls & Partitions		NA					
Exterior		NA					
North		NA					
East		NA					
West		NA					
South		NA					
Interior walls and partitions		NA					
Floor construction including supporting beams and joists		NA					
Floor Ceiling Assembly		0	0				
Columns Supporting Floors		0	0				
Roof construction, including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Columns Supporting Roof		0	0				
Shafts Enclosures - Exit		1	1				EXISTING PLASTER PER NCEBC 1203.7
Shafts Enclosures - Other		NA					
Corridor Separation		1	1				U34.0
Occupancy/ Fire Barrier Separation		0	0				PER NCEBC 1205.4
Party/Fire Wall Separation		NA					
Smoke Barrier Separation		NA					
Smoke Partition		NA					
Tenant/Dwelling Unit/ Sleeping Unit Separation		1	1				U34.0
Incidental Use Separation		NA					

*Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
WEST-NEW OPENINGS - 0'		NA	
SOUTH-NEW OPENINGS - 0'		NA	

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Yes No
Exit Signs: Yes No
Fire Alarms: Yes No
Smoke Detection Systems: Yes No
Carbon Monoxide Detection: Yes No

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: T0.1
 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 related to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
 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 to items above

ACCESSIBLE DWELLING UNITS (SECTION 1107)

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
NA							

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE SPACES PROVIDED
			REGULAR W/ 5' ACCESSIBLE	132' ACCESSIBLE	VAN SPACES WITH 8' ACCESSIBLE	
			NA			
TOTAL						

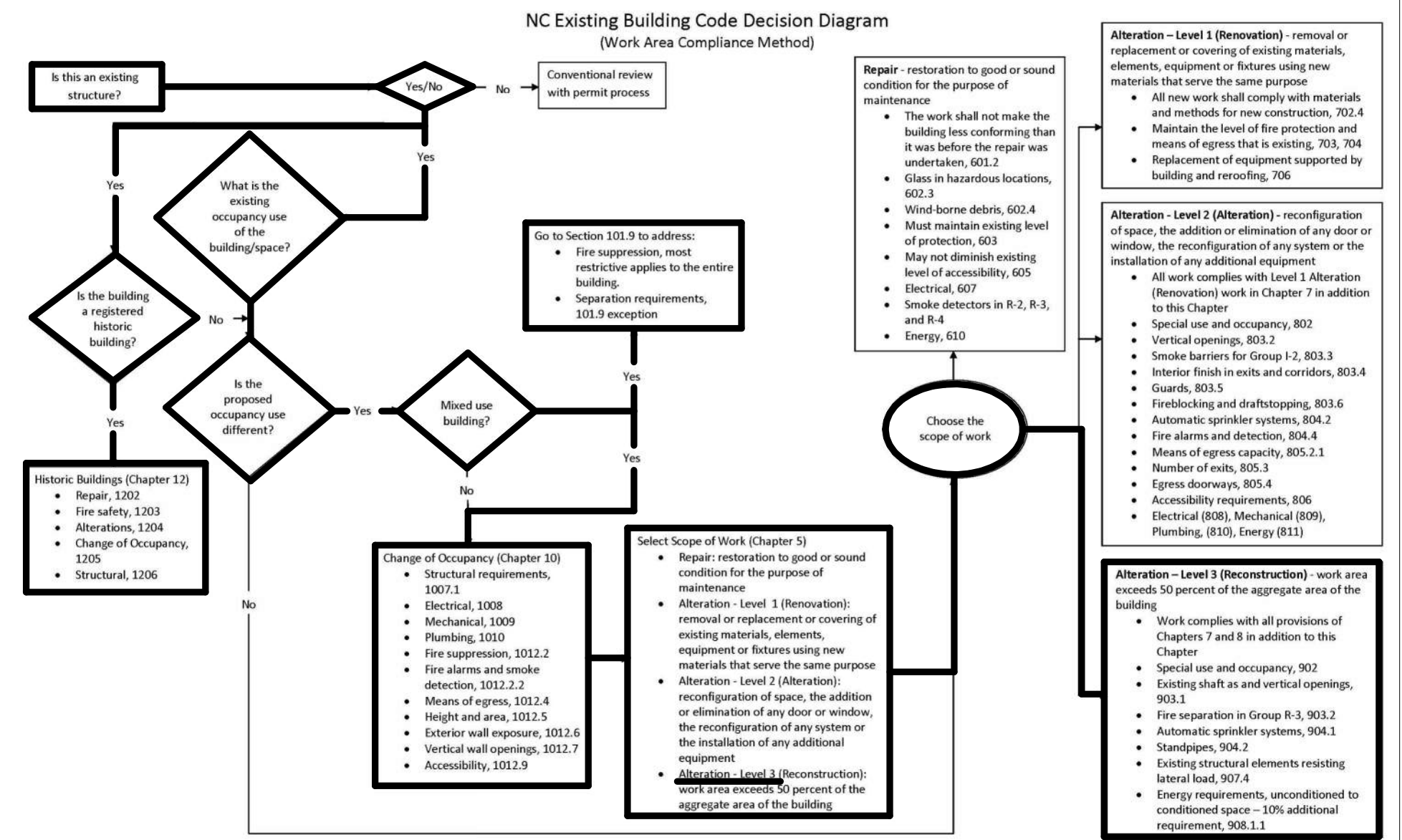
PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS			LAVATORIES			DRINKING FOUNTAINS	
	EXISTING	NEW	REQD	MALE	FEMALE	UNISEX	REGULAR	ACCESSIBLE
	0	0	0	0	0	0	0	0
	0	2	2	X	X	2	0	0
	X	X	X	X	X	2	0	0

SPECIAL APPROVALS
Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)
NA

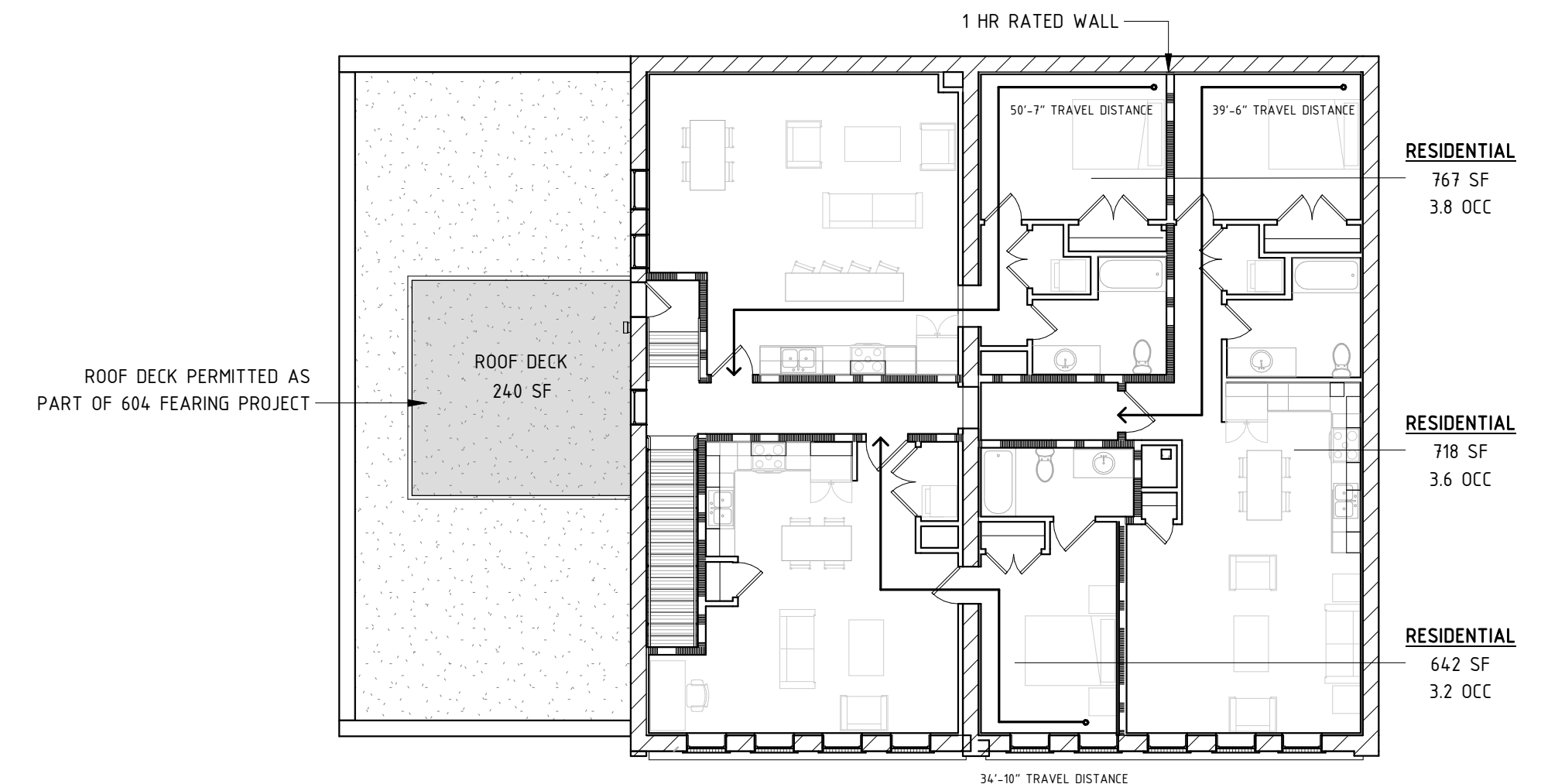
SHEET LIST

- T0.1 BUILDING CODE SUMMARY
- T0.2 UL DETAILS & NOTES
- T0.3 ACCESSIBILITY DIAGRAMS
- AD1.0 DEMOLITION PLAN
- A1.1 1ST FLOOR PLAN
- A1.2 2ND FLOOR PLAN
- A1.3 REFLECTED CEILING PLANS
- A1.10 ROOF PLAN
- A2.0 ELEVATIONS
- S1 STRUCTURAL RENOVATION PLAN
- S2 STRUCTURAL NOTES AND DETAILS
- PME1.1 RATED DETAILS
- P1.1 PLUMBING FIRST FLOOR PLAN & DETAILS
- P1.2 PLUMBING SECOND FLOOR PLAN & DETAILS
- M1.1 HVAC FIRST FLOOR PLAN & DETAILS
- M1.2 HVAC SECOND FLOOR PLAN & DETAILS
- E1.1 ELECTRICAL FIRST FLOOR PLAN & DETAILS
- E1.2 ELECTRICAL SECOND FLOOR PLAN & DETAILS
- E1.3 ELECTRICAL DETAILS



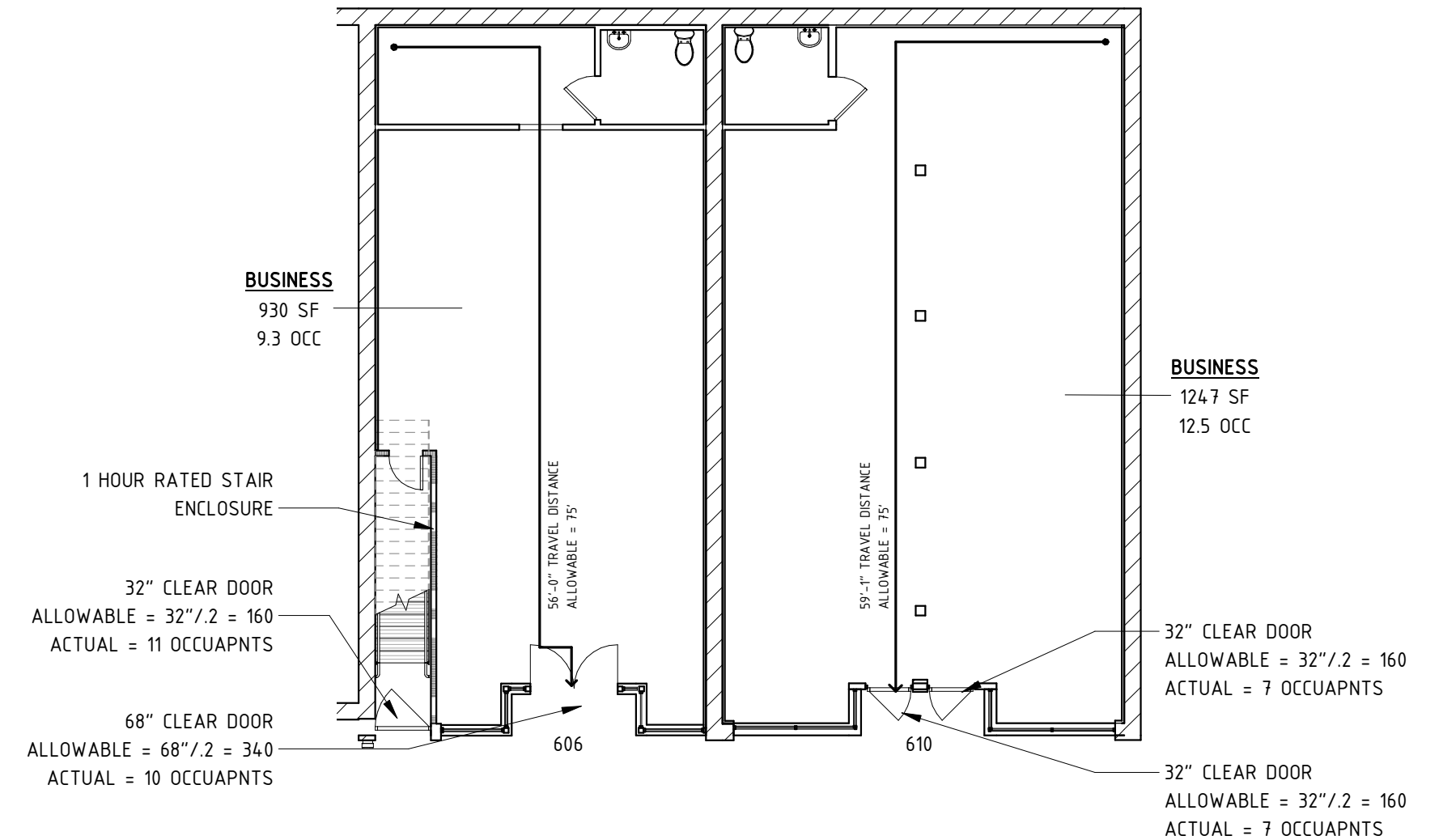
LIFE SAFETY OCCUPANCY SCHEDULE

FUNCTION OF SPACE	AREA	SF PER PERSON	SF TYPE	OCCUPANT LOAD
BUSINESS	2177 SF	100 SF	GROSS	21.8
	2177 SF			21.8
RESIDENTIAL	2127 SF	200 SF	GROSS	10.6
	2127 SF			10.6



3 SECOND FLOOR

SCALE: 3/32" = 1'-0"



2 FIRST FLOOR

SCALE: 3/32" = 1'-0"



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10.12.20

INTERIOR ALTERATION
606-610 FEARING ST
ELIZABETH CITY, NC

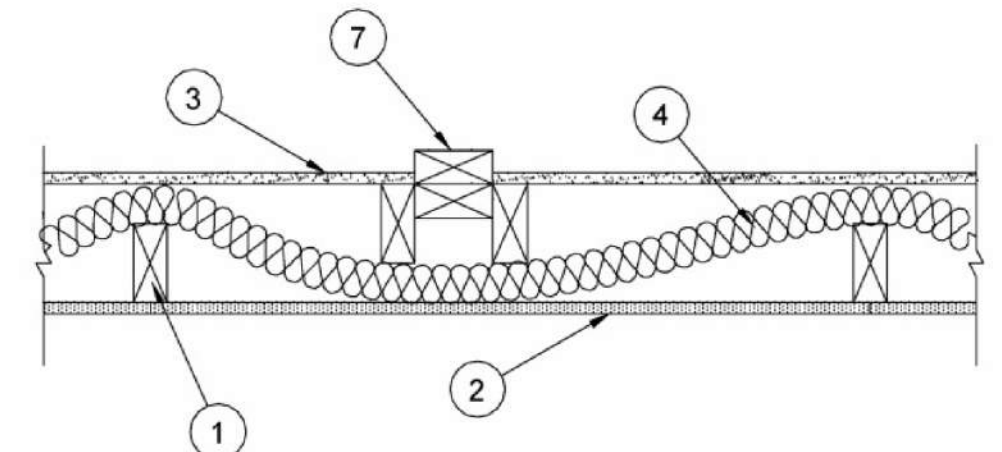
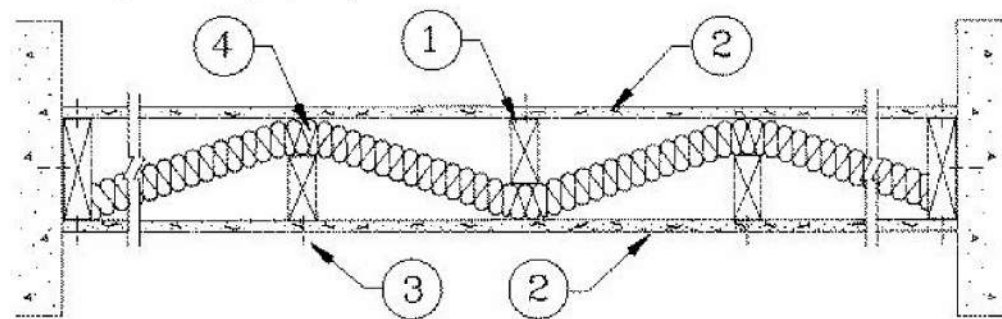
DATE 10.12.20
DR. ELM
CH. DSM
PROJ. # 20013.2
REVISIONS DATE

BUILDING CODE SUMMARY

T0.1

Design No. U340
August 19, 2020
Bearing Wall Rating – 1 Hr.
Finish Rating – See Item 2
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used – See Guide BXUV or BXUV7

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



1. Wood Studs – Nom 2 by 4 in. alternating on opposite sides of nom 2 by 6 in. wood plates. Spaced 24 in. OC max on each side of wood plates, staggered 12 in. OC (or staggered equally if less than 24 in. OC) on opposite side.
2. Gypsum Board* – 5/8 in. thick gypsum board, paper or vinyl faced with beveled, square, tapered or rounded edges. Gypsum board nailed to each stud 7 in. OC with cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails. When used in widths other than 48 in., gypsum board to be installed horizontally. When Steel Framing Members* (Item 5-SD) are used, gypsum board attached to furring channels with 1 in. long Type 5 bugle-head steel screws spaced 12 in. OC.

- AMERICAN GYPSUM CO – Types AG-C.
CERTAINTED GYPSUM INC – Type C
CGC INC – Types C, IP-X2 (Finish rating 26 min).
CONTINENTAL BUILDING PRODUCTS OPERATING CO, L.L.C. – Type LGFC-G/A.
GEORGIA-PACIFIC GYPSUM L.L.C. – Types 5 (Finish rating 26 min), DAPC, TG-C.
NATIONAL GYPSUM CO – Types FSK-C, FSW-G, FSW-G.
PARCO BUILDING PRODUCTS L.L.C. DBA PARCO GYPSUM – Type C or PG-C.
THAI GYPSUM PRODUCTS PCL – Type C
UNITED STATES GYPSUM CO – Types C, IP-X2 (Finish rating 26 min).

2A. Gypsum Board* – (As an alternate to Item 2) – Nominal 5/8 in. thick, 4 ft. wide panels, applied vertically to studs and bearing plates on one side of the assembly with 1-5/8 in. long Type 5 screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Horizontal joints of vertically applied panels need not be backed by studs. Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound. Batts and Blankets placed in stud cavity as described in Item 4B. Not evaluated for use with Steel Framing Members, Furring Channels or Fibers, Sprayed. PARCO BUILDING PRODUCTS L.L.C. DBA PARCO GYPSUM – Type QuietBlock 530 (finish rating 23 min).

2B. Gypsum Board* – (As an alternate to Item 2) – 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally. AMERICAN GYPSUM CO – Types AG-C, AG-G, AG-G, LightRoC

NATIONAL GYPSUM CO – Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-G, Type FSKR-G, Type FSK.

2C. Gypsum Board* – (As an alternate to Item 2) – Nominal 5/8 in. thick, 4 ft. wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Horizontal joints of vertically applied panels to be backed by studs. PARCO BUILDING PRODUCTS L.L.C. DBA PARCO GYPSUM – Type QuietBlock ES.

2D. Wall and Partition Facings and Accessories* – (As an alternate to Item 2) – Nominal 5/8 in. thick, 4 ft. wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Horizontal joints of vertically applied panels to be backed by studs. PARCO BUILDING PRODUCTS L.L.C. DBA PARCO GYPSUM – Type QuietBlock S27.

2E. Gypsum Board* – (As an alternate to Item 2) – Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305 – Nom. 5/8 in. thick gypsum board, paper or vinyl faced with beveled, square, tapered or rounded edges. Gypsum board nailed to each stud 7 in. OC with 6d cement coated nails, 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam head. As an alternate, No. 6 bugle head drywall screws, 1-7/8 in. long, may be substituted for the 6d cement coated nails. When used in widths other than 48 in., gypsum board to be installed horizontally. Batts and Blankets placed in stud cavity as described in Item 4B. When Steel Framing Members* (Item 5) are used, gypsum board attached to furring channels with 1 in. long Type 5 bugle-head steel screws spaced 12 in. OC.

CABOT MANUFACTURING LLC (View Classification) – CKNX.R23570

AMERICAN GYPSUM CO (View Classification) – CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) – CKNX.R19374

CERTAINTED GYPSUM INC (View Classification) – CKNX.R3660

CGC INC (View Classification) – CKNX.R19751

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L.L.C (View Classification) – CKNX.R18482

GEORGIA-PACIFIC GYPSUM L.L.C (View Classification) – CKNX.R2717

LOADMASTER SYSTEMS INC (View Classification) – CKNX.R1809

NATIONAL GYPSUM CO (View Classification) – CKNX.R3501

PARCO BUILDING PRODUCTS L.L.C. DBA PARCO GYPSUM (View Classification) – CKNX.R3704

PANEL REY S A (View Classification) – CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) – CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) – CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) – CKNX.R1319

USO MEXICO S A DE C V (View Classification) – CKNX.R16089

2F. Gypsum Board* – (As an alternate to Item 2) – 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally. CONTINENTAL BUILDING PRODUCTS OPERATING CO, L.L.C. – Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-G/A, Type LGFC-WD, Type LGLX.

2G. Gypsum Board* – (For use with Item 3D) – Any 5/8 in. thick, 4 ft. wide, Gypsum Board, UL Classified for Fire Resistance (CKNX) eligible for use in Design Nos. U305 and L501 or G512. Two layers, applied vertically and attached furring channels (Item 5Ea). Vertical gypsum board side joints offset 24 inches between layers. Horizontal butt joints offset 48 inches from adjacent board horizontal joints and 24 inches from base layer butt joint. Vertical joints staggered one stud cavity on opposite side of studs. Type 5 steel screws used to attach gypsum board to furring channels. First layer – 1 in. long, 3 inches from the edge and 24 in. OC. Second layer – 1-5/8 in. long, spaced 1 inch from the edge and 12 in. OC.

3. Joints and Nailheads – Gypsum board joints covered with tape and joint compound. Nail heads covered with joint compound. As an alternate, over 3/32 in. thick gypsum veneer plaster may be applied to entire surface of Classified veneer baseboard. Joints reinforced.

4. Batts and Blankets* – (Optional) Required when Item 5E is used. Any thickness glass or mineral fiber batt insulation (Item 6) into stud cavity. See Batts and Blankets (BZZ) category for list of Classified companies.

4A. Fiber, Sprayed* – As an alternate to Batts and Blankets (Item 4) – Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lbs/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lbs/ft³, in accordance with the application instructions supplied with the product. When Item 5, 5A, 5B, 5C or 5D is used, Fiber, Sprayed shall be IN5735, IN5745, IN5760LD or IN5770LD. US GREENFIBER L.L.C. – IN5735, IN5745 and IN5760LD for use with wet or dry application. IN5531SD, IN5541SD, IN5735, IN5760LD, and IN5770LD are to be used for dry application only.

4B. Batts and Blankets* – (Required for use with Wall and Partition Facings and Accessories, Item 2A and Gypsum Board Item 2E) – Glass fiber insulation, nom 3 1/2 in. (91.4 mm) thick, mineral wool insulation, nom 3 1/2 in. (91.4 mm) thick, or mineral developed of 50 or less, friction fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names

of manufacturers.
4C. Fiber, Sprayed* – As an alternate to Batts and Blankets (Item 4) – Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³. INTERNATIONAL CELLULOSE CORP – Celbur-RL.

4D. Fiber, Sprayed* – As an alternate to Batts and Blankets (Item 4) – Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face of the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³. APPLIGATE HOLDINGS L.L.C. – Appligade Advanced Stabilized Cellulose Insulation

5. Steel Framing Members* – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:
A. Furring Channels – Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-21/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 8. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.
B. Steel Framing Members* – Used to attach furring channels (Item A) to studs (Item 1). Clips spaced 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center grommet. Furring channels are friction fitted into clips. RSC-1 clip for use with 2-9/16 in. wide furring channels. RSC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.

5A. Steel Framing Members* – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:
A. Furring Channels – Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 8. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 2.
B. Steel Framing Members* – Used to attach furring channels (Item A) to studs. Clips spaced 48 in. OC. Genie Clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. PLITCO INC. – Type Genie Clip

5B. Steel Framing Members* – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:
A. Furring Channels – Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 8. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.
B. Steel Framing Members* – Used to attach furring channels (Item 5Ba) to studs. Clips spaced 48 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips. STUDDCO BUILDING SYSTEMS – RESILMOUNT Sound Insulation Clips - Type A2ZFR

5C. Steel Framing Members* – (Optional, Not Shown) – Furring channels and Steel Framing Members as described below:
A. Furring Channels – Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 8. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 2.
B. Steel Framing Members* – Used to attach furring channels (Item 5Ca) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips. REGUPOL AMERICA – Type SomaClip

5D. Steel Framing Members* – (Optional, Not Shown) – Resilient channels and Steel Framing Members as described below:
a. Resilient Channels – Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item 8. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 1/2 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 2.
b. Steel Framing Members* – Used to attach resilient channels (Item 5Da) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw. KENSLE BUILDING PRODUCTS CO INC. – Type RC+ Assurance Clip

5E. Steel Framing Members* – (Optional, Not Shown) – Resilient channels and Framing Members as described below:
a. Resilient Channels – Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item 8B. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Two layers of gypsum board attached to furring channels as described in Item 2C.
b. Framing Members* – Used to attach resilient channels (Item 5Ea) to studs (Item 1). Batts secured to stud, spaced a maximum of 24 in. OC, horizontally, vertically spaced 1 in. from the top and bottom and 24 inch on center along each stud and secured with two 1-1/4 inch (No. 6) Type W drywall screws. One on each side of the core. Fasteners should not be placed closer than 1/4 inch to the edges of the mounts.

5F. Steel Framing Members* – (Optional, Not Shown) – Resilient channels and Framing Members as described below:
a. Resilient Channels – Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item 8B. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Two layers of gypsum board attached to furring channels as described in Item 2C.
b. Framing Members* – Used to attach resilient channels (Item 5Fa) to studs (Item 1). Batts secured to stud, spaced a maximum of 24 in. OC, horizontally, vertically spaced 1 in. from the top and bottom and 24 inch on center along each stud and secured with two 1-1/4 inch (No. 6) Type W drywall screws. One on each side of the core. Fasteners should not be placed closer than 1/4 inch to the edges of the mounts.

5G. Steel Framing Members* – (Optional, Not Shown) – Resilient channels and Framing Members as described below:
a. Resilient Channels – Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item 8B. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Two layers of gypsum board attached to furring channels as described in Item 2C.
b. Framing Members* – Used to attach resilient channels (Item 5Ga) to studs (Item 1). Batts secured to stud, spaced a maximum of 24 in. OC, horizontally, vertically spaced 1 in. from the top and bottom and 24 inch on center along each stud and secured with two 1-1/4 inch (No. 6) Type W drywall screws. One on each side of the core. Fasteners should not be placed closer than 1/4 inch to the edges of the mounts.

5H. Steel Framing Members* – (Optional, Not Shown) – Resilient channels and Framing Members as described below:
a. Resilient Channels – Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item 8B. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Two layers of gypsum board attached to furring channels as described in Item 2C.
b. Framing Members* – Used to attach resilient channels (Item 5Ha) to studs (Item 1). Batts secured to stud, spaced a maximum of 24 in. OC, horizontally, vertically spaced 1 in. from the top and bottom and 24 inch on center along each stud and secured with two 1-1/4 inch (No. 6) Type W drywall screws. One on each side of the core. Fasteners should not be placed closer than 1/4 inch to the edges of the mounts.

5I. Steel Framing Members* – (Optional, Not Shown) – Resilient channels and Framing Members as described below:
a. Resilient Channels – Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item 8B. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Two layers of gypsum board attached to furring channels as described in Item 2C.
b. Framing Members* – Used to attach resilient channels (Item 5Ia) to studs (Item 1). Batts secured to stud, spaced a maximum of 24 in. OC, horizontally, vertically spaced 1 in. from the top and bottom and 24 inch on center along each stud and secured with two 1-1/4 inch (No. 6) Type W drywall screws. One on each side of the core. Fasteners should not be placed closer than 1/4 inch to the edges of the mounts.

6. Furring Channel – Optional – Not Shown – For use on one side of the wall with Item 2B - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC. Flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped wood double lead Phillips head screws.
7. Non-Bearing Wall Partition Intersection – (Optional) – Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC, vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC, vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. stud. The wall partition wood studs are to be framed by two and a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC, vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.
8. Wall and Partition Facings and Accessories* – (Optional, Not Shown) – Nominal 1/2 in. thick, 4 ft. wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) are to be installed as indicated to a fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required level of UL Classification. PARCO BUILDING PRODUCTS L.L.C. DBA PARCO GYPSUM – Type QuietBlock 500 and QR-510

9. Mineral and Fiber Board* – (Optional, Not Shown) – For use with Item 9A-9D – For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft. wide with long dimension parallel and centered over studs. Attached to studs and top and bottom bearing plates with minimum 1-3/8 in. long ring shank nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC and 24 in. OC along all intermediate framing. The required UL Classified gypsum board layer (Item 9D) is to be installed over the Mineral and Fiber Boards. Class Fiber Insulation, Item 9A, or Batts and Blankets, Item 9B, and Adhesive, Item 9C, are required. HOMASOTE CO – Homasote Type 440-32

9A. Glass Fiber Insulation* – (For use with Item 9) 5-1/2 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to completely fill the interior of the wall. See Batts and Blankets (BKNV or BZZ) categories for names of Classified companies.

9B. Batts and Blankets* – (As an alternate to Item 9A. For use with Item 9), 5-1/2 in. thick mineral wool batts, placed to completely fill interior of wall. THERMAFIBER INC – Type SAFB, SAFB FF

9C. Adhesive – (For use with Item 9) – Construction grade adhesive applied in vertical, serpentine, nominal 3/8 in. wide beads down the length of both vertical edges of Mineral and Fiber Board (Item 9).

9D. Gypsum Board* – (For use with Item 9) – 5/8 in. thick, 4 ft. wide, applied vertically over Mineral and Fiber Board (Item 9) with vertical joints located anywhere over stud cavity. Secured to mineral and fiber boards with 1-1/2 in. Type G Screws spaced 8 in. OC along edges of each vertical joint and 12 in. OC in intermediate field of the Mineral and Fiber Board (Item 9). Secured to outermost studs and bearing plates with 2 in. long Type 5 screws spaced 8 in. OC. Gypsum board joints covered with paper tape and joint compound. Screw heads covered with joint compound. Finish Rating 30 min. AMERICAN GYPSUM CO – Type AG-C

CERTAINTED GYPSUM INC – Type C

CGC INC – Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L.L.C. – Type LGFC-G/A

GEORGIA-PACIFIC GYPSUM L.L.C. – Types 5, DAPC, TG-C

NATIONAL GYPSUM CO – Types eX-C, FSK-C, FSW-C

PARCO BUILDING PRODUCTS L.L.C. DBA PARCO GYPSUM – Type PG-C

PANEL REY S A – Type PRC

THAI GYPSUM PRODUCTS PCL – Type C

UNITED STATES GYPSUM CO – Types C, IP-X2, IPC-AR

USO MEXICO S A DE C V – Types C, IP-X2, IPC-AR

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

GENERAL PROJECT NOTES

GENERAL REGULATORY REQUIREMENTS

1. ALL WORK SHALL CONFORM TO:
 - CURRENT NORTH CAROLINA STATE BUILDING CODE (2018 IBC AND CURRENT NC AMENDMENTS)
 - CURRENT RULES AND REGULATIONS OF THE CITY OF ELIZABETH CITY, NORTH CAROLINA
 - RULES AND REGULATIONS OF APPLICABLE STATE AND/OR LOCAL PUBLIC UTILITIES
 - AMERICANS WITH DISABILITIES ACT, 26 JULY 1991 AND ANSI 117.1 (2009) WITH RESPECTIVE CURRENT AMENDMENTS
 - REQUIREMENTS OF THE SECRETARY OF THE INTERIOR STANDARDS FOR REHABILITATION, ESPECIALLY AS OUTLINED IN THE PART 2 APPLICATION AND APPROVAL FOR THIS PROJECT
2. THE BUILDING CODE COMPLIANCE SUMMARIES AND LIFE SAFETY PLANS ARE GENERAL GUIDES TO THE CONSTRUCTION CRITERIA DEVELOPED FOR THIS PROJECT. THEY ARE NOT INTENDED TO BE A COMPLETE LIST OF CODE REQUIREMENTS.
3. PENETRATIONS OF ALL PIPES, CONDUITS, SWITCHES, OUTLETS, AND ANY OTHER ITEMS AT RATED ASSEMBLIES SHALL BE FIRE-STOPPED.
4. THE INTEGRITY OF THE FIRE RESISTANCE RATING OF ALL RATED SHAFT ENCLOSURES, CEILINGS, AND PARTITIONS SHALL BE MAINTAINED BEHIND RECESSED WALL OR CEILING ACCESSORIES, INCLUDING FIRE EXTINGUISHER CABINETS, TOILET ACCESSORIES, ELECTRICAL JUNCTION BOXES, AND ANY OTHER ITEMS WHERE THEY OCCUR.

GENERAL COORDINATION REQUIREMENTS

1. THE CONTRACT DOCUMENTS INCLUDE THE DRAWINGS, PROJECT MANUAL, ANY ADDENDA, AND ANY RELATED REGULATORY DOCUMENTS PROVIDED BY THE ARCHITECT. EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, PART 2 HISTORIC TAX CREDIT APPLICATIONS AND LOCAL DESIGN OR HISTORIC APPROVALS. IN THE EVENT OF A CONFLICT BETWEEN THE VARIOUS ELEMENTS OF CONTRACT DOCUMENTS, THE MORE RESTRICTIVE PROVISION OR REQUIREMENT SHALL APPLY.
2. THE CONTRACT DOCUMENTS REPRESENT THE DESIGN INTENT FOR THE FINISHED STRUCTURE AND/OR SITE. UNLESS SPECIFICALLY NOTED, THEY DO NOT INDICATE THE MEANS OR METHOD OF INSTALLATION. THE GENERAL CONTRACTOR (OR CMAR) SHALL COORDINATE, SUPERVISE, AND DIRECT ALL WORK, SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE, AND SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS.
3. THE GENERAL CONTRACTOR (OR CMAR) AND ALL SUB-CONTRACTORS ARE RESPONSIBLE FOR REVIEWING AND COORDINATING THEIR WORK WITH ALL OF THE CONTRACT DOCUMENTS PRIOR TO BEGINNING ANY WORK ON SUBMITTALS, SHOP DRAWINGS, FABRICATION, OR INSTALLATION. OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BY THE GENERAL CONTRACTOR (OR CMAR) IN WRITING AND SHALL BE RESOLVED WITH THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK.
4. THE GENERAL CONTRACTOR (OR CMAR) AND ALL SUB-CONTRACTORS ARE RESPONSIBLE FOR COORDINATING THEIR WORK WITH ALL OWNER'S VENDORS INCLUDING, BUT NOT LIMITED TO, TELECOMMUNICATIONS, AUDIO/VISUAL AND SECURITY SYSTEMS. ANY CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF CONTRACT DOCUMENTS AND THE OWNER'S VENDORS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BY THE GENERAL CONTRACTOR (OR CMAR) IN WRITING AND SHALL BE RESOLVED WITH THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK.
5. EXISTING CONDITIONS FOR THE BUILDING AND/OR SITE AS REPRESENTED IN THE CONTRACT DOCUMENTS ARE NOT GUARANTEED. PRIOR TO BEGINNING ANY WORK ON SUBMITTALS, SHOP DRAWINGS, FABRICATION, OR INSTALLATION, THE GENERAL CONTRACTOR (OR CMAR) AND ALL SUB-CONTRACTORS ARE RESPONSIBLE FOR INVESTIGATING AND VERIFYING THE EXISTENCE AND LOCATION OF EXISTING CONSTRUCTION AFFECTING THE WORK INCLUDING, BUT NOT LIMITED TO, UNDERGROUND AND OVERHEAD UTILITIES, EXISTING BUILDING SYSTEMS, FLOOR ELEVATIONS, AND OTHER STRUCTURAL OR BUILDING DATUMS.

GENERAL DIMENSIONING REQUIREMENTS

1. DIMENSIONS ARE NOTED OR CAN BE DETERMINED FROM OTHER INFORMATION INCLUDED IN THE DRAWINGS. VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS. DO NOT PROCEED WITH AFFECTED WORK OR RELATED WORK UNTIL THE VARIATIONS OR OMISSIONS HAVE BEEN RESOLVED BY THE ARCHITECT. DO NOT SCALE DRAWINGS. DRAWING SHEETS LESS THAN 24"x36" MAY HAVE BEEN REDUCED FROM THE ORIGINALS.
2. DIMENSIONS TO NEW WALLS ARE TO STUD UNLESS OTHERWISE NOTED.
3. WALLS, BULKHEADS, AND/OR OTHER ARCHITECTURAL ELEMENTS SHOWN TO ALIGN ARE TO HAVE FINISH FACES ALIGN UNLESS OTHERWISE NOTED.
4. IF PROVIDED, REFER TO ENLARGED PLANS AND PLAN DETAILS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
5. ANY DIMENSIONS AND/OR ELEVATIONS OF OR TYING INTO EXISTING BUILDING COMPONENTS ARE TO BE FIELD-VERIFIED BY GENERAL CONTRACTOR (OR CMAR) PRIOR TO COMMENCEMENT OF SHOP DRAWINGS, FABRICATION, OR INSTALLATION. VERIFY ANY DISCREPANCIES W/ ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
6. REFER TO P/WH/E/FP DRAWINGS FOR QUANTITY AND DESIGN OF ALL FIXTURES / DEVICES / ETC. REFER TO ARCHITECTURAL ENLARGED PLANS AND ELEVATIONS FOR EXACT PLACEMENT OF ANY DEVICES INDICATED. LOCATIONS OF ALL PLUMBING, MECHANICAL, ELECTRICAL, FIRE ALARM, SPRINKLER, AND TELECOMMUNICATIONS DEVICES, FIXTURES, AND ACCESSORIES DIMENSIONED, NOTED, OR OTHERWISE DESCRIBED ON ARCHITECTURAL ENLARGED PLANS AND ELEVATIONS, ARE EXACT. ALL NEW FRAMING MUST ACCOMMODATE THESE LOCATIONS.
7. ALIGN ALL ELECTRICAL, MECHANICAL, FIRE ALARM, AND TELEDATA / CABLE DEVICES WHERE IN CLOSE PROXIMITY. COORDINATE WITH OTHER TRADES TO RESERVE PATHWAYS TO MULTIPLE DEVICES - THIS MAY REQUIRE PIPING TO THE SIDES OF JUNCTION BOXES OR DEVICES.

GENERAL MATERIAL REQUIREMENTS

1. PROVIDE GALVANIC ISOLATION AT ALL DISMILAR MATERIALS.
2. PROVIDE PRESSURE-TREATED MATERIAL AT LOCATIONS OF WOOD IN CONTACT WITH MASONRY.
3. MAINTAIN CONTINUITY OF AIR/WEATHER BARRIER AT ALL OPENINGS AND PENETRATIONS.
4. PROVIDE END DAMS AT ALL SILL CONDITIONS.

OTHER REQUIREMENTS

1. TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL BE INCORPORATED AT ALL APPROPRIATE LOCATIONS WHETHER OR NOT SPECIFICALLY REFERENCED AT EACH LOCATION.
2. THE GENERAL CONTRACTOR (OR CMAR) IS RESPONSIBLE FOR ANY REQUIRED DEMOLITION, TEMPORARY SUPPORT OF, AND/OR DAMAGE TO NEW OR EXISTING STRUCTURE DURING CONSTRUCTION. ANY UTILITY LINES, PIPING, EQUIPMENT, FINISHES, OR ANY OTHER PORTIONS OF THE EXISTING BUILDING OR NEW CONSTRUCTION DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED AT THE ARCHITECT'S DIRECTION AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR.
3. THE GENERAL CONTRACTOR (OR CMAR) IS TO COORDINATE, PROVIDE, AND INSTALL CONCEALED BLOCKING FOR ALL WALL- AND CEILING-MOUNTED ITEMS INCLUDING, BUT NOT LIMITED TO, HAND RAILS, GRAB BARS, CABINETS AND OTHER CASEWORK, EQUIPMENT, OWNER- AND/OR VENDOR-PROVIDED ITEMS, ETC. BLOCKING IS TO BE FIRE-RETARDANT WOOD OR 20ga METAL WITH A FLAME SPREAD AND SMOKE DEVELOPMENT RATING <25 IF THE PROJECT IS IDENTIFIED AS A TYPE 1 OR TYPE 2 BUILDING IN THE CODE SUMMARY.
4. CONDUIT, WIRING, OR PIPING SHALL BE ROUTED SUCH THAT IT MAY BE CONCEALED WHEREVER POSSIBLE UNLESS SPECIFICALLY NOTED OTHERWISE. ANY CONDUIT, WIRING, OR PIPING THAT CANNOT BE ROUTED IN A CONCEALED MANNER MUST BE IDENTIFIED BY THE GENERAL CONTRACTOR AND REVIEWED AND COORDINATED W/ ARCHITECT PRIOR TO COORDINATION DRAWINGS (IF REQUIRED) OR INSTALLATION (IF COORDINATION DRAWINGS ARE NOT REQUIRED).
5. IN AREAS OF HARD CEILING, BUILDING SYSTEMS SHALL BE CONFIGURED TO MINIMIZE REQUIRED ABOVE-CEILING ACCESS. THE LOCATION OF ALL ACCESS DOORS MUST BE COORDINATED WITH AND APPROVED BY THE ARCHITECT PRIOR TO THE INSTALLATION OF ANY ABOVE-CEILING EQUIPMENT, DAMPERS, VALVES, JUNCTION BOXES, ETC. ACCESS DOORS SHALL BE PROVIDED AND INSTALLED FOR ANY WORK THAT REQUIRES ABOVE-CEILING ACCESS. ADDITIONALLY, ANY ACCESS DOORS OR PANELS REQUIRED IN WALLS MUST BE COORDINATED WITH AND APPROVED BY THE ARCHITECT PRIOR TO THE INSTALLATION OF ANY EQUIPMENT REQUIRING ACCESS.
6. ALL FRAMING, SOUND ATTENUATION, AND GYP BOARD FOR NON-RATED SOUND- ATTENUATED WALLS SHALL CONTINUE TO THE UNDERSIDE OF DECK UNLESS SPECIFICALLY NOTED OTHERWISE. GYP BOARD SHALL BE SEALED TO DECK AT EACH FACE WITH JOINT COMPOUND, SEALANT, AND/OR EXPANDING FOAM (ACCEPTABLE - ONLY IN CONCEALED CONDITIONS) ANY REQUIRED PIPE, DUCT, OR WIRING PENETRATIONS SHALL BE SEALED AS DESCRIBED ABOVE.
7. ALL DEBRIS SHALL BE TRANSPORTED FROM THE SITE AND LEGALLY DISPOSED OF BY THE GENERAL CONTRACTOR UNLESS OTHERWISE NOTED.
8. ALL MATERIALS, COMPONENTS, AND SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION REQUIREMENTS/RECOMMENDATIONS AND WARRANTY REQUIREMENTS EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE REQUIRED BY THE CONTRACT DOCUMENTS OR APPLICABLE CODES OR REGULATIONS.

GENERAL NOTES

1. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL ACT CEILING GRIDS SHALL BE CENTERED WITHIN EACH ROOM OR SPACE WITH NO CUT PERIMETER TILES TO BE <6".
2. ALL ELECTRICAL, CATV, AND TELEDATA OUTLETS TO BE LOCATED 16" O.C. ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE. ALL ELECTRICAL FIXTURES AT KITCHEN COUNTERTOPS AND BATHROOM VANITIES TO BE LOCATED 46" O.C. ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. ALL ELECTRICAL SWITCHES, THERMOSTATS, AND OTHER CONTROL DEVICES TO BE CENTERED 46" O.C. ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
3. UNLESS DIMENSIONED OR OTHERWISE NOTED, SET THE NEAREST EDGE OF SWITCHPLATES 24" FROM THE CENTER OF DOOR OPENINGS. AT ALL LOCATIONS WHERE MULTIPLE SWITCHES ARE

ACCESSIBILITY SUMMARY

THE FOLLOWING ARE PERFORMANCE SPECIFICATIONS FOR ADHERENCE TO CHAPTERS 10 AND 11 OF THE 2018 NORTH CAROLINA STATE BUILDING CODE (NCSBC) AND ADHERENCE TO SECTION A117.1 OF THE 2009 INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES CODE. REFER TO THE BUILDING ACCESSIBILITY SUMMARY AND DRAWINGS FOR APPLICABILITY OF EACH SECTION AS WELL AS SPECIFIC DESIGN REQUIREMENTS.

2018 NCSBC

CHAPTER 10 - MEANS OF EGRESS

THE REQUIREMENTS OF THIS CODE ARE APPLICABLE FOR THIS PROJECT AND OCCUPANCY CLASSIFICATION. SEE SECTION 1009 FOR DEFINITIONS REGARDING THE MEANS OF EGRESS, REFER TO BUILDING CODE SUMMARY FOR OCCUPANT LOADS. SEE DRAWINGS FOR DESIGN AND DIMENSIONING OF MEANS OF EGRESS. WALKING SURFACES OF THE MEANS OF EGRESS SHALL HAVE A SLIP-RESISTANT SURFACE AND BE SECURELY ATTACHED.

SECTION 1009 - ACCESSIBLE MEANS OF EGRESS SEE DRAWINGS FOR DESIGN & DIMENSIONS OF ACCESSIBLE MEANS OF EGRESS, INCLUDING ONE OR MORE OF THE FOLLOWING: ACCESSIBLE ROUTES, EXIT STAIRWAYS, ACCESSIBLE ELEVATORS, PLATFORM LIFTS, HORIZONTAL EXITS, RAMPS, AND AREAS OF REFUGE. WHERE ELEVATORS ARE REQUIRED AS A MEANS OF EGRESS, THEY SHALL COMPLY TO SECTION 1009.2.1. PLATFORM LIFTS MUST COMPLY TO SECTION 1009.5.

1009.7.2 SEPARATION. Exterior walls separating the exterior area of assisted rescue from the interior of the building shall have a minimum fire-resistance rating of 1 hour, rated for exposure to fire from the inside. The fire-resistance-rated exterior wall construction shall extend horizontally 10 feet (3048 mm) beyond the landing on either side of the landing or equivalent fire-resistance-rated construction is permitted to extend out perpendicular to the exterior wall 4 feet (1220 mm) minimum on the side of the landing. The fire-resistance-rated construction shall extend vertically from the ground to a point 10 feet (3048 mm) above the floor level of the area for assisted rescue or to the roof line, whichever is lower. Openings within such fire-resistance-rated exterior walls shall be protected in accordance with Section 716.
EXCEPTION: Areas for assisted rescue that are located 10 feet (3048 mm) or more from the exterior face of a building are not required to be separated from the building by fire-resistance rated walls or protected openings.

1009.8. TWO-WAY COMMUNICATION. A two-way communication system complying with Section 1009.8.1 and 1009.8.2 shall be provided at the landing serving each elevator or bank of elevators on each accessible floor that is one or more stories above the level of exit discharge.

1. Two-way communication systems are not required at the landing serving each elevator or bank of elevators where the two-way communication system is provided within areas of refuge in accordance with Section 1009.6.5.
2. Two-way communication systems are not required on floors provided with ramps conforming to the provisions of Section 1012.

3. Two-way communication systems are not required at the landings serving only service elevators that are not designated as part of the accessible means of egress or serve as part of the required accessible route into a facility.
4. Two-way communication systems are not required at the landings serving only freight elevators.
5. Two-way communication systems are not required at the landing serving a private residence elevator.

1009.8.1 SYSTEM REQUIREMENTS. Two-way communication systems shall provide communication between each required location and the fire command center or central control point location approved by the fire department. Where the central control point is not a constantly attended location, a two-way communication system shall have a timed automatic telephone dial-out capability to a monitoring location or 9-1-1. The two-way communication system shall include both audible and visible signals.

1009.8.2 DIRECTIONS. Directions for the use of the two-way communication system, instructions for summoning assistance via the two-way communication system and written identification of the location shall be posted adjacent to the two-way communication system. Signage shall comply with the ICC A117.1 requirements for visual characters.

1009.9 SIGNAGE. SIGNAGE indicating special accessibility provisions shall be provided as shown:
1. Each door providing access to an area of refuge from an adjacent floor area shall be identified by a sign stating: AREA OF REFUGE.
2. Each door providing access to an exterior area for assisted rescue shall be identified by a sign stating: EXTERIOR AREA FOR ASSISTED RESCUE.
SIGNAGE shall comply with the ICC A117.1 requirements for visual characters and include the International Symbol of Accessibility. Where exit sign illumination is required by Section 1013.3, the signs shall be illuminated. Additionally, visual characters, raised character and braille signage complying with ICC A117.1 shall be located at each door to an area of refuge and exterior area for assisted rescue in accordance with Section 1013.4.

1009.10 DIRECTIONAL SIGNAGE. Direction signage indicating the location of the other means of egress and which of those are accessible means of egress shall be provided at the following:
1. At exits serving a required accessible space but not providing an approved accessible means of egress.
2. At elevator landings.
3. Within areas of refuge.

1009.11 INSTRUCTIONS. In areas of refuge and exterior areas for assisted rescue, instructions on the use of the area under emergency conditions shall be posted. Signage shall comply with the ICC A117.1 requirements for visual characters. The instructions shall include all of the following:
1. Persons able to use the exit stairway do so as soon as possible, unless they are assisting others.
2. Information on planned availability of assistance in the use of stairs or supervised operation of elevators and how to summon such assistance.
3. Directions for use of the two-way communications system where provided.

SEE DRAWINGS FOR DESIGN OF ANY REQUIRED EXTERIOR AREAS FOR ASSISTED RESCUE. THESE AREAS SHALL HAVE IDENTIFICATION AS REQUIRED FOR AREA OF REFUGE THAT COMPLIES WITH SECTION 1009.9.

CHAPTER 11 - ACCESSIBILITY

SECTION 1101 - SCOPE AND DESIGN THE REQUIREMENTS OF THIS CODE ARE APPLICABLE FOR THIS PROJECT AND OCCUPANCY CLASSIFICATION.

SECTION 1102 - DEFINITIONS SEE NCSBC SECTION 1102 & ANSI 117.1.106 FOR WORDS USED IN THESE SPECIFICATIONS.

SECTION 1103 - SCOPING REQUIREMENTS SEE NCSBC SECTION 1103 FOR EXCEPTIONS TO ACCESSIBILITY REQUIREMENTS.

SECTION 1104 - ACCESSIBLE ROUTE SEE SITE DRAWINGS FOR DESIGN OF SITE ACCESSIBILITY. SEE DRAWINGS FOR ALLOCATION OF INTERIOR ACCESSIBLE ROUTE.

SECTION 1105 - ACCESSIBLE ENTRANCES SEE DRAWINGS FOR LOCATIONS AND DESIGN OF ACCESSIBLE ENTRANCES.

SECTION 1106 - PARKING AND PASSENGER LOADING FACILITIES SEE SITE DRAWINGS FOR LOCATIONS AND DESIGN OF PARKING SPACES AND PASSENGER LOADING FACILITIES.

SECTION 1107 - DWELLING UNITS AND SLEEPING UNITS THIS SECTION DOES NOT APPLY TO THIS PROJECT.

SECTION 1108 - SPECIAL OCCUPANCIES THIS SECTION DOES NOT APPLY TO THIS PROJECT.

SECTION 1109 - OTHER FEATURES AND FACILITIES SEE DRAWINGS FOR LOCATIONS AND DESIGN OF ACCESSIBLE PLUMBING FIXTURES, ELEVATORS, LIFTS AND STORAGE.

SECTION 1111 - SIGNAGE
1111.1 SIGNS. Required accessible elements shall be identified by the International Symbol of Accessibility at the following locations:

1. Accessible parking spaces required by Section 1106.1. Location and design of signage shall comply with the requirements of North Carolina General Statute 20-37.6 and 136-30 and the NCDOT Manual on Uniform Traffic Control Devices.
2. Accessible passenger loading zones provided is four or less, identification of accessible parking spaces is not required.
3. Accessible parking spaces required by Section 1106.2. Location and design of signage shall comply with the requirements of N.C.G.S. 20-37.6 and 136-30, and the NCDOT Manual on Uniform Traffic Control Devices.
4. Exception: In Group I-1, R-2, R-3 and R-4 facilities, where parking spaces are assigned to specific dwelling units or sleeping units, identification of accessible parking space is not required.
5. Accessible passenger loading zones.
6. Accessible rooms where multiple single-user toilet or bathing rooms are clustered at a single location.
7. Accessible entrances where not all entrances are accessible. The sign, where provided, shall be above the check-out aisle in the same location as the check-out aisle number or type of check-out identification.
8. Family or assisted toilet and bathing rooms.
9. Accessible dressing, fitting and locker rooms where not all such rooms are accessible.
10. Accessible areas of refuge in accordance with Section 1009.9
11. Exterior areas for assisted rescue in accordance with Section 1009.9
12. In recreational facilities, lockers that are required to be accessible in accordance with Section 1109.9

1111.2 DIRECTIONAL SIGNAGE. Directional signage indicating the route to the nearest like accessible element shall be provided at the following locations. These directional signs shall include the International Symbol of Accessibility and sign characters shall meet the visual character requirements in accordance with ICC A117.1:

1. Inaccessible building entrances.
2. Inaccessible public toilets and bathing facilities.
3. Elevators not serving an accessible route.
4. At each separate-sex toilet and bathing room indicating the location of the nearest family or assisted-use toilet or bathing room where provided in accordance with Section 1109.2.1.
5. At exits and exit stairways serving a required accessible space, but not providing an approved accessible means of egress, signage shall be provided in accordance with Section 1009.10.

1111.3 OTHER SIGNS. Signage indicating special accessibility provisions shall be provided as shown:
1. Each assembly area required to comply with Section 1108.2.7 shall provide a sign notifying patrons of the availability of assistive listening systems. The sign shall comply with ICC A117.1 requirements for visual characters and include the International Symbol of Access for Hearing Loss.
Exception: Where ticket offices or windows are provided, signs are not required at each assembly area provided that signs are displayed at each ticket office or window informing patrons of the availability of assistive listening systems.
2. At each door to an area of refuge, an exterior area for assisted rescue, an egress stairway, exit passageway and exit discharge, signage shall be provided in accordance with Section 1013.4
3. At areas of refuge, signage shall be provided in accordance with Sections 1009.11
4. At areas for assisted rescue, signage shall be provided in accordance with Section 1009.11.
5. At two-way communication systems, signage shall be provided in accordance with Section 1009.8.2.
6. In interior exit stairways and ramps, floor level signage shall be provided in accordance with Section 1023.9
7. Signs identifying the type of access provided on amusement rides required to be accessible by Section 1110.4.8 shall be provided at entries to queues and waiting lines. In addition, where accessible unload areas also serve as accessible load areas, signs indicating the location of the accessible load and unload areas shall be provided at entries to queues and waiting lines. These directional sign characters shall meet the visual character requirements in accordance with ICC A117.1.

APPENDIX E - SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS

E103 - ACCESSIBLE ROUTE SEE DRAWINGS FOR DESIGN AND DIMENSIONS OF ANY RAISED PLATFORMS

E104 - SPECIAL OCCUPANCIES THIS SECTION DOES NOT APPLY TO THIS PROJECT.

E105 - OTHER FEATURES AND FACILITIES ALL PORTABLE TOILETS AND BATHING ROOMS, LAUNDRY EQUIPMENT, VENDING MACHINES, MAILBOXES, ATMs, AND TWO-WAY COMMUNICATION SYSTEMS SHALL COMPLY WITH SECTION E105.

E106 - TELEPHONES WHERE TELEPHONES ARE PROVIDED, ACCESSIBLE TELEPHONES SHALL BE PROVIDED ACCORDING TO SECTION E106.

E107 - SIGNAGE
E107.1 SIGNS. Required accessible portable toilets and bathing facilities shall be identified by the International Symbol of Accessibility.

E107.2 DESIGNATIONS. Interior and exterior signs identifying permanent rooms and spaces shall be visual characters, raised characters and braille complying with ICC A117.1. Where pictograms are provided as designations of interior rooms and spaces, the pictograms shall have visual characters, raised characters and braille complying with ICC A117.1.

- Exceptions:
1. Exterior signs that are not located at the door to the space they serve are not required to comply.
 2. Building directories, menus, seat and row designations in assembly areas, occupant names, building addresses and company names and logos are not required to comply.
 3. Signs in parking facilities are not required to comply.
 4. Temporary (seven days or less) signs are not required to comply.
 5. In detention and correctional facilities, signs not located in public areas are not required to comply.

E107.3 DIRECTIONAL AND INFORMATIONAL SIGNS. Signs that provide direction to, or information about, permanent interior spaces of the site and facilities shall contain visual characters complying with ICC A117.1.

Exception: Building directories, personnel names, company or occupant names and logos, menus and temporary (seven days or less) signs are not required to comply with ICC A117.1.

E107.4 OTHER SIGNS. Signage indicating special accessibility provisions shall be provided as follows:
1. At bus stops and terminals, signage must be provided in accordance with Section E108.4.
2. At fixed facilities and stations, signage must be provided in accordance with Sections E109.2.2 through E109.2.3.
3. At airports, terminal information systems must be provided in accordance with Section E110.3.

E108 - BUS STOPS THIS SECTION DOES NOT APPLY TO THIS PROJECT.

E109 - TRANSPORTATION FACILITIES AND STATIONS THIS SECTION DOES NOT APPLY TO THIS PROJECT.

E110 - AIRPORTS THIS SECTION DOES NOT APPLY TO THIS PROJECT.

2009 ICC/ANSI A117.1

CHAPTER 1 - APPLICATION AND ADMINISTRATION SEE SECTION 103 FOR COMPLIANCE ALTERNATIVES PROVISION. SEE SECTION 106 FOR DEFINITIONS OF WORDS USED IN THESE SPECIFICATIONS.

CHAPTER 2 - SCOPING THE REQUIREMENTS OF CHAPTERS 1 THROUGH 9 OF THIS CODE ARE APPLICABLE FOR THIS PROJECT AND OCCUPANCY CLASSIFICATION.

CHAPTER 3 - BUILDING BLOCKS SEE DIAGRAMS BELOW AND DRAWINGS FOR DESIGN/INCORPORATION OF ALL REQUIRED TURNING SPACES, CLEAR FLOOR SPACES, KNEE AND TOE CLEARANCES, PROTRUDING OBJECTS, AND REACH RANGES. ALL FLOOR SURFACES TO COMPLY WITH SECTION 302. ALL CHANGES IN LEVEL TO COMPLY WITH SECTION 303. ALL REQUIRED ACCESSIBLE OPERABLE PARTS SHALL HAVE A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305. SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SECTION 308. SHALL BE OPERABLE WITH ONE HAND. SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND SHALL NOT REQUIRE MORE THAN 5.0 POUNDS TO ACTIVATE. ALL PROTRUDING OBJECTS ON CIRCULATION PATHS TO COMPLY WITH SECTION 307.

CHAPTER 4 - ACCESSIBLE ROUTES SEE DRAWINGS AND DOOR SCHEDULE FOR DESIGN, DIMENSIONS OF ACCESSIBLE ROUTES, WALKING SURFACES, DOORS AND DOORWAYS, RAMPS, ELEVATORS AND LIFTS. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20, AND THE CROSS SLOPE OF ALL WALKING SURFACES AND RAMP RUNS SHALL NOT BE STEEPER THAN 1:48. FLOOR SURFACES WITHIN REQUIRED MANEUVERING CLEARANCES AT DOORS AND DOORWAYS AND FLOOR SURFACES AT RAMP LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL COMPLY WITH SECTION 302. DOOR AND DOORWAY THRESHOLDS SHALL COMPLY WITH SECTION 404.2.4. DOOR SURFACES, HARDWARE, CLOSERS, SPRING HINGES, OPENING FORCE, AND VISION LITES SHALL COMPLY WITH SECTION 404.2. ALL AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH SECTION 404.3. RAMP EDGE PROTECTION SHALL COMPLY WITH SECTION 405.9.1 OR 405.9.2. ALL CURB RAMPS SHALL COMPLY WITH SECTION 406. ELEVATORS SHALL COMPLY WITH SECTION 407 OR 408, AS APPLICABLE, AS WELL AS ASME A17.1 LISTED IN SECTION 105.2.5. ELEVATORS SHALL BE PASSENGER ELEVATORS AS CLASSIFIED BY ASME A17.1. ELEVATOR OPERATION SHALL BE AUTOMATIC. PLATFORM LIFTS SHALL COMPLY WITH SECTION 410, AS WELL AS ASME ANSI A18.1 LISTED IN SECTION 105.2.6. PLATFORM LIFTS SHALL NOT BE ATTENDANT OPERATED AND SHALL PROVIDE UNASSISTED ENTRY AND EXIT FROM THE LIFT.

CHAPTER 5 - GENERAL SITE AND BUILDING ELEMENTS SEE DRAWINGS FOR DESIGN AND DIMENSIONS OF ALL PARKING, LOADING ZONES, STAIRWAYS, RAILINGS, AND WINDOWS. ALL PARKING AND LOADING MARKING, IDENTIFICATION, FLOOR SURFACES, AND VERTICAL CLEARANCES SHALL COMPLY WITH SECTIONS 502 AND 503. STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER. STAIR LIGHTING AND STAIR LEVEL IDENTIFICATION SHALL COMPLY WITH SECTIONS 504.8 AND 504.9. HANDRAIL GRIPPING SURFACES OF HANDRAILS SHALL COMPLY WITH SECTION 505.6. HANDRAILS, AND ANY WALL OR OTHER SURFACES ADJACENT TO THEM, SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS, AND ALL EDGES SHALL BE ROUNDED. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS. ACCESSIBLE WINDOWS SHALL HAVE OPERABLE PARTS COMPLYING WITH SECTION 309.

CHAPTER 6 - PLUMBING ELEMENTS AND FACILITIES SEE DRAWINGS AND DIAGRAMS BELOW FOR DESIGN AND DIMENSIONS OF PLUMBING ELEMENTS, FACILITIES AND ACCESSORIES. OPERABLE PARTS SHALL COMPLY WITH SECTION 309. SPOUT LOCATIONS AND WATER FLOW OF DRINKING FOUNTAINS SHALL COMPLY WITH SECTION 602. COAT HOOKS IN TOILET AND BATHING ROOMS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN SECTION 308. SHELVES IN TOILET AND BATHING ROOMS SHALL BE 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR. IN NON-AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH SECTION 604.9, ACCESSIBLE TOILET FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET. TOILET PAPER DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY, OR DO NOT ALLOW CONTINUOUS PAPER FLOW. ACCESSIBLE TOILET PARTITION TOE CLEARANCE SHALL COMPLY WITH SECTION 604.9.5. WHEEL CHAIR ACCESSIBLE AND AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH SECTIONS 604.8 AND 604.9, RESPECTIVELY. ALL WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN USE SHALL COMPLY WITH SECTION 604.11. LAVATORY AND SINK FAUCETS WITH HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM. LAVATORIES WHICH REQUIRE ENHANCED REACH RANGE SHALL COMPLY WITH 606.5. WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS. OPERABLE PARTS ON TOWEL DISPENSERS AND HAND DRYERS SHALL COMPLY WITH TABLE 603.6. GRAB BARS SHALL COMPLY WITH SECTION 609. SEATS IN ACCESSIBLE BATHTUBS AND SHOWER COMPARTMENTS SHALL COMPLY WITH SECTION 610. ACCESSIBLE WASHING MACHINES AND CLOTHES DRYERS SHALL COMPLY WITH SECTION 611.

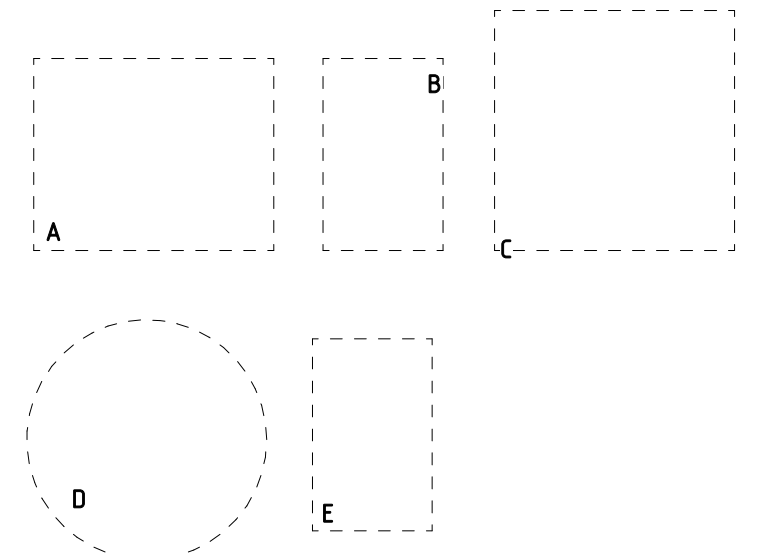
CHAPTER 7 - COMMUNICATION ELEMENTS AND FEATURES COMMUNICATIONS ELEMENTS AND FEATURES REQUIRED TO BE ACCESSIBLE BY THE 2012 NCSBC SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF CHAPTER 7.

CHAPTER 8 - SPECIAL ROOMS AND SPACES SEE DRAWINGS FOR DESIGN AND DIMENSIONS OF KITCHENS OR KITCHENETTES. ALL APPLICABLE APPLIANCES SHALL COMPLY WITH SECTION 804.5. SECTIONS WHICH DO NOT APPLY TO THIS PROJECT ARE: 802, 805, 806 AND 807.

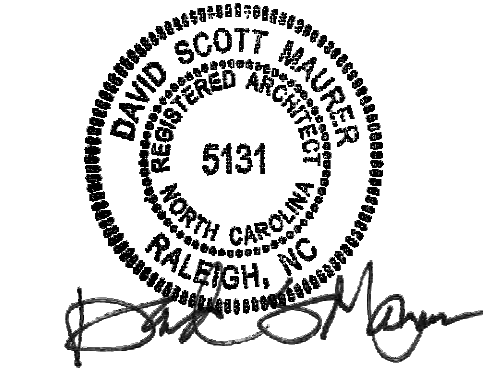
CHAPTER 9 - BUILT-IN FURNISHINGS AND EQUIPMENT SEE DRAWINGS FOR CONFIGURATION AND DIMENSIONS CABINETS. ALL ACCESSIBLE BENCHES SHALL COMPLY WITH SECTION 903. ALL ACCESSIBLE SALES AND SERVICE COUNTERS SHALL COMPLY WITH SECTION 904 AS APPLICABLE. SEE DRAWINGS FOR DESIGN OF ACCESSIBLE STORAGE FACILITIES. ACCESSIBLE STORAGE ELEMENTS SHALL COMPLY WITH AT LEAST ONE OF THE REACH RANGES SPECIFIED IN SECTION 308, AND ALL OPERABLE PARTS OF STORAGE FACILITIES SHALL COMPLY WITH SECTION 309.

CHAPTER 10 - DWELLING UNITS AND SLEEPING UNITS THIS SECTION DOES NOT APPLY TO THIS PROJECT.

TOILET ROOM NOTES	
1. REAR WALL GRAB BAR TO BE 36" MIN. LONG & EXTEND 12" MIN. TO CLOSEST WALL AND 24" MIN. TO TRANSFER SIDE FROM CENTERLINE OF TOILET.	
2. SIDE WALL GRAB BAR TO BE 42" LONG & 12" MAX FROM REAR WALL, EXTENDING 54" MIN. FROM REAR WALL W/HORIZONTAL CENTERLINE 33"-36" AFF. IN ADDITION 18" MIN. VERTICAL GRAB BAR TO BE MOUNTED WITH BOTTOM OF BAR 39"-41" AFF AND CENTERLINE 39"-41" FROM REAR WALL.	
3. GRAB BARS DIAMETER TO BE 1 1/4" TO 1 1/2" W/ 1 1/2" HANG CLEARANCE FROM FACE OF BAR TO WALL FINISH SURFACE.	
4. PROVIDE ALL NECESSARY BLOCKING FOR GRAB BARS. GRAB BARS & FASTENERS TO BE CAPABLE OF SUPPORTING A 250# LOAD AT ANY POINT ALONG ITS LENGTH.	
5. HANDICAP TOILETS SHALL HAVE A RIM HEIGHT OF 17" TO 19" AFF.	
6. WALL HUNG LAVATORIES SHALL HAVE A TOP HEIGHT OF 34" AFF & A MIN CLEAR HEIGHT BELOW OF 29".	
7. PROVIDE S.S. TOILET PAPER DISPENSER CENTER AT 19" AFF; PAPER TOWEL DISPENSER W/OPERATING MECHANISM AT 48" MAX AFF & MIN. 18"x24" MIRROR W/BOTTOM EDGE AT 40" MAX AFF.	
8. ALL GRAB BARS TO HAVE CONCEALED FASTENERS	
9. VERIFY ALL ACCESSORIES WITH CLIENT.	
A. DOOR - 60" x 54" FRONT APPROACH - PULL SIDE.	
B. SINK - 30" x 48" CLEAR FLOOR SPACE CENTERED ON SINK.	
C. TOILET - 60" x 60" CLEAR SPACE.	
D. 5' DIAMETER TURNING CIRCLE.	
E. CLEAR FLOOR SPACE - 30" x 48".	



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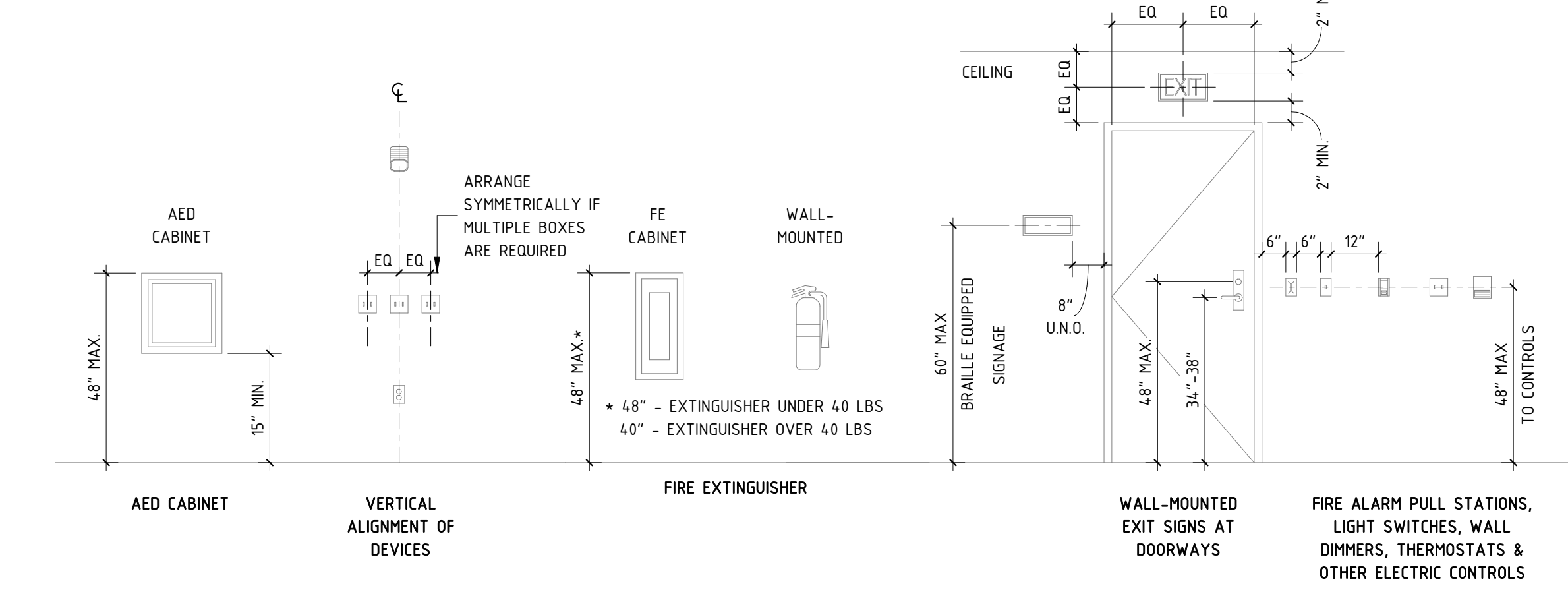
10.12.20

INTERIOR ALTERATION
606-610 FEARING ST
ELIZABETH CITY, NC

DATE	10.12.20
DR.	ELM
CH.	DSM
PROJ. #	20013.2
REVISIONS	DATE

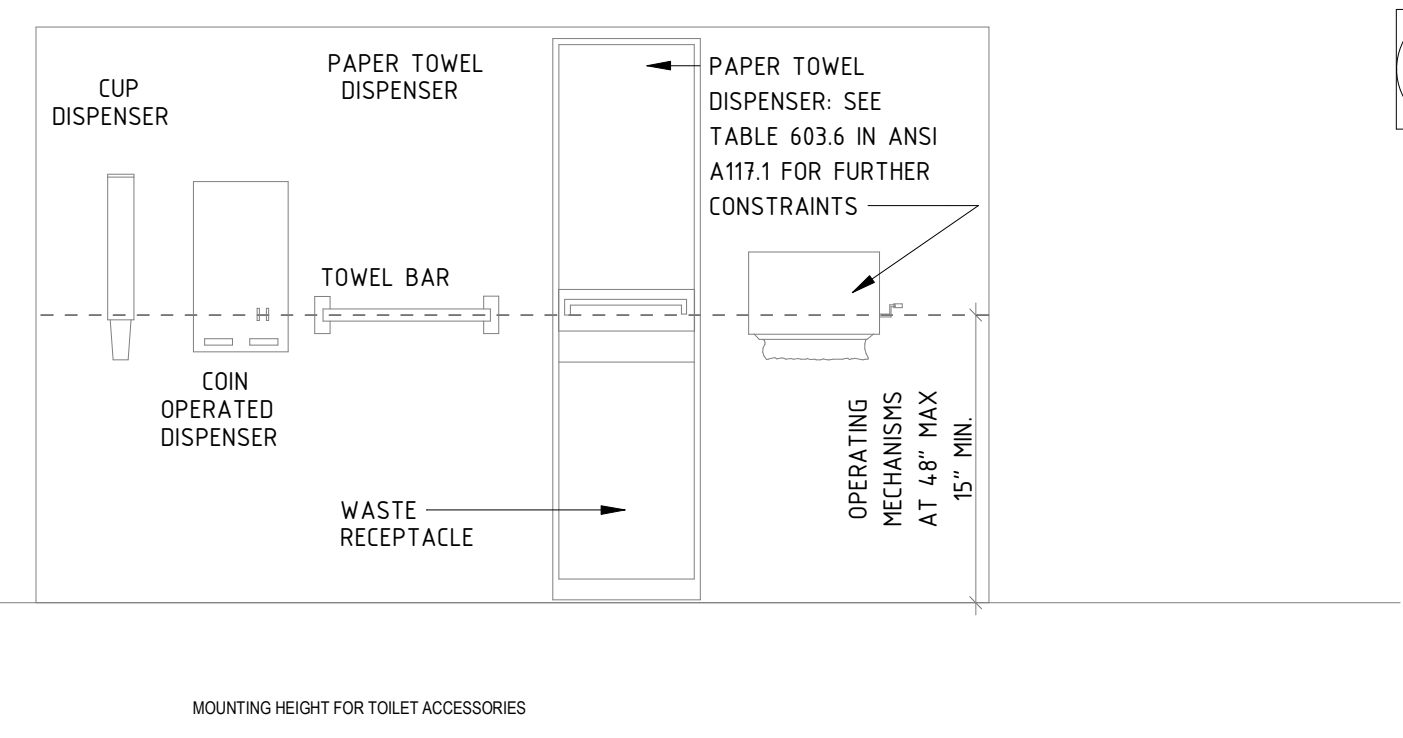
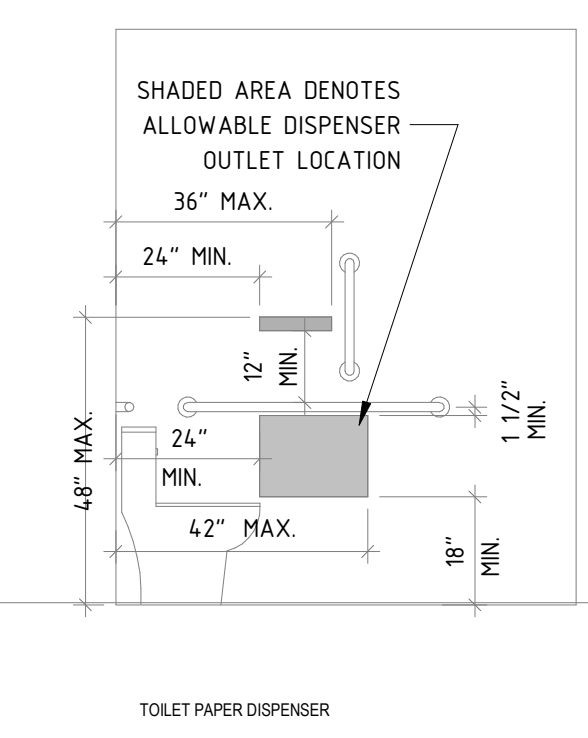
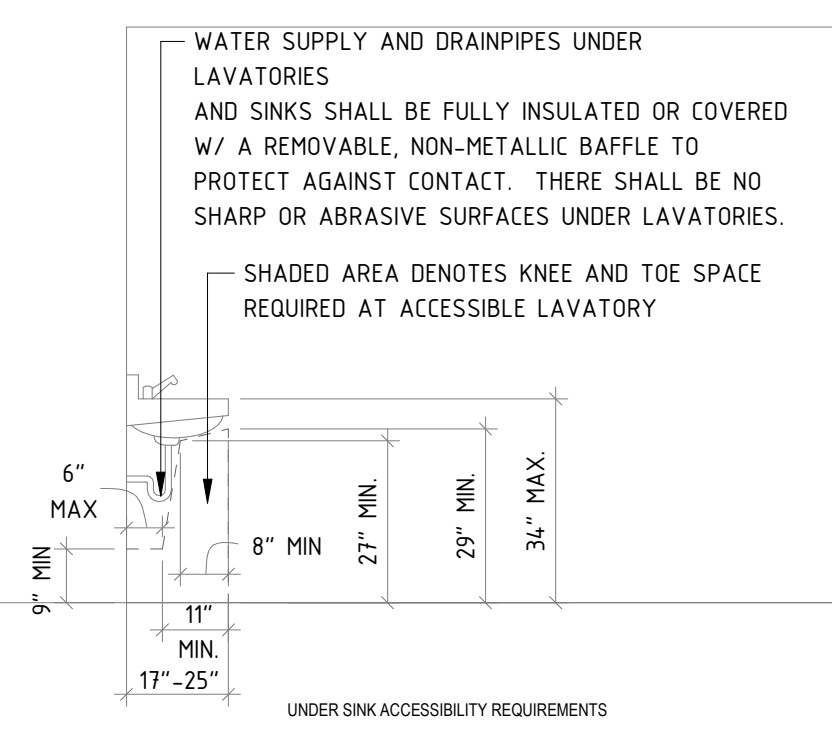
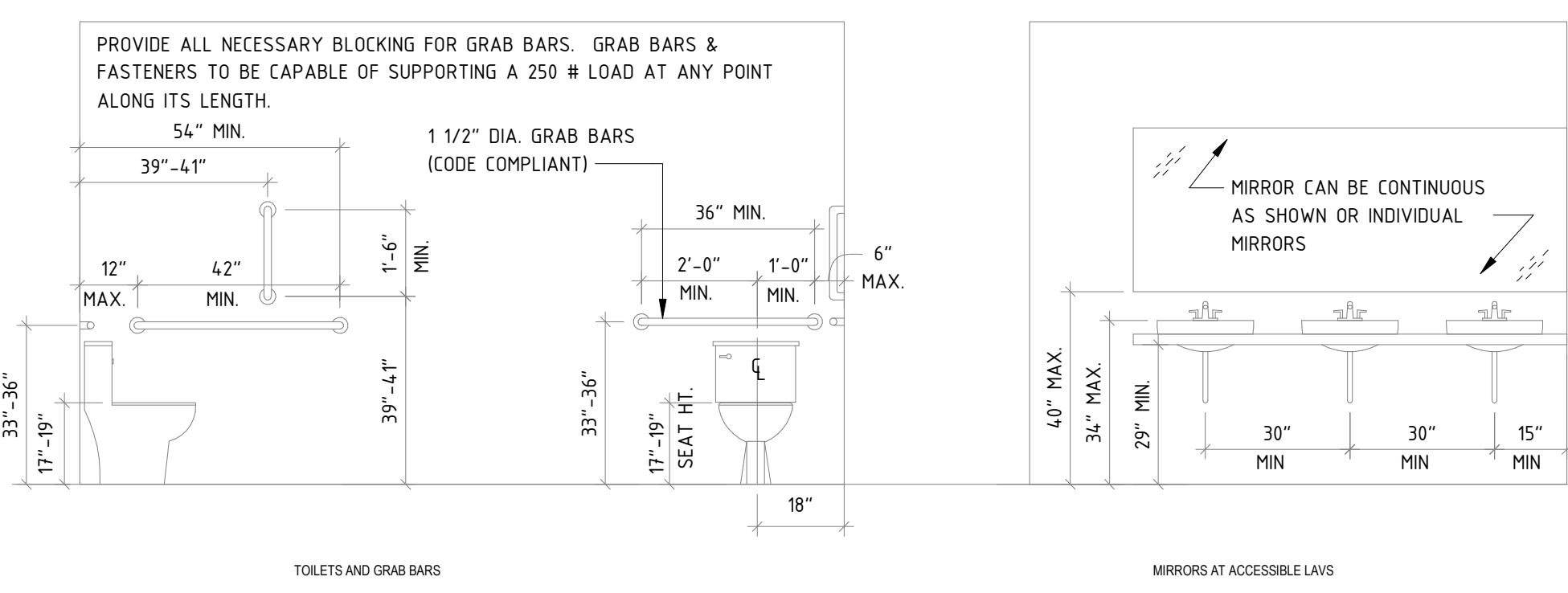
ACCESSIBILITY DIAGRAMS

T0.3

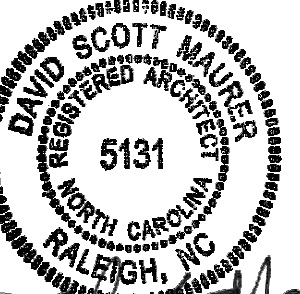


MOUNTING HEIGHTS & ALIGNMENTS NOTES:

1. GRAB BARS TO HAVE 1-1/2" CLEARANCE FROM WALL, TYP.
2. ALIGN ALL ADJACENT DEVICES, SWITCHES, OUTLETS, ETC. AS SHOWN U.N.O. ON INTERIOR ELEVATIONS.
3. WHERE MULTIPLE SWITCHES ARE INDICATED IN CLOSE PROXIMITY, THEY SHALL BE GANGED INTO A SINGLE BOX.
4. ALIGN THERMOSTATS AND OTHER CONTROLS VERTICALLY WITH ADJACENT SWITCHES.



3 ENLARGED TOILET PLAN
SCALE: 1/2" = 1'-0"



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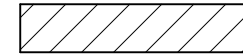

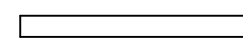
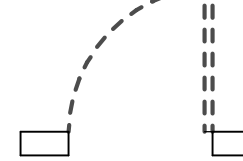
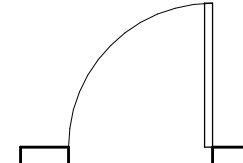
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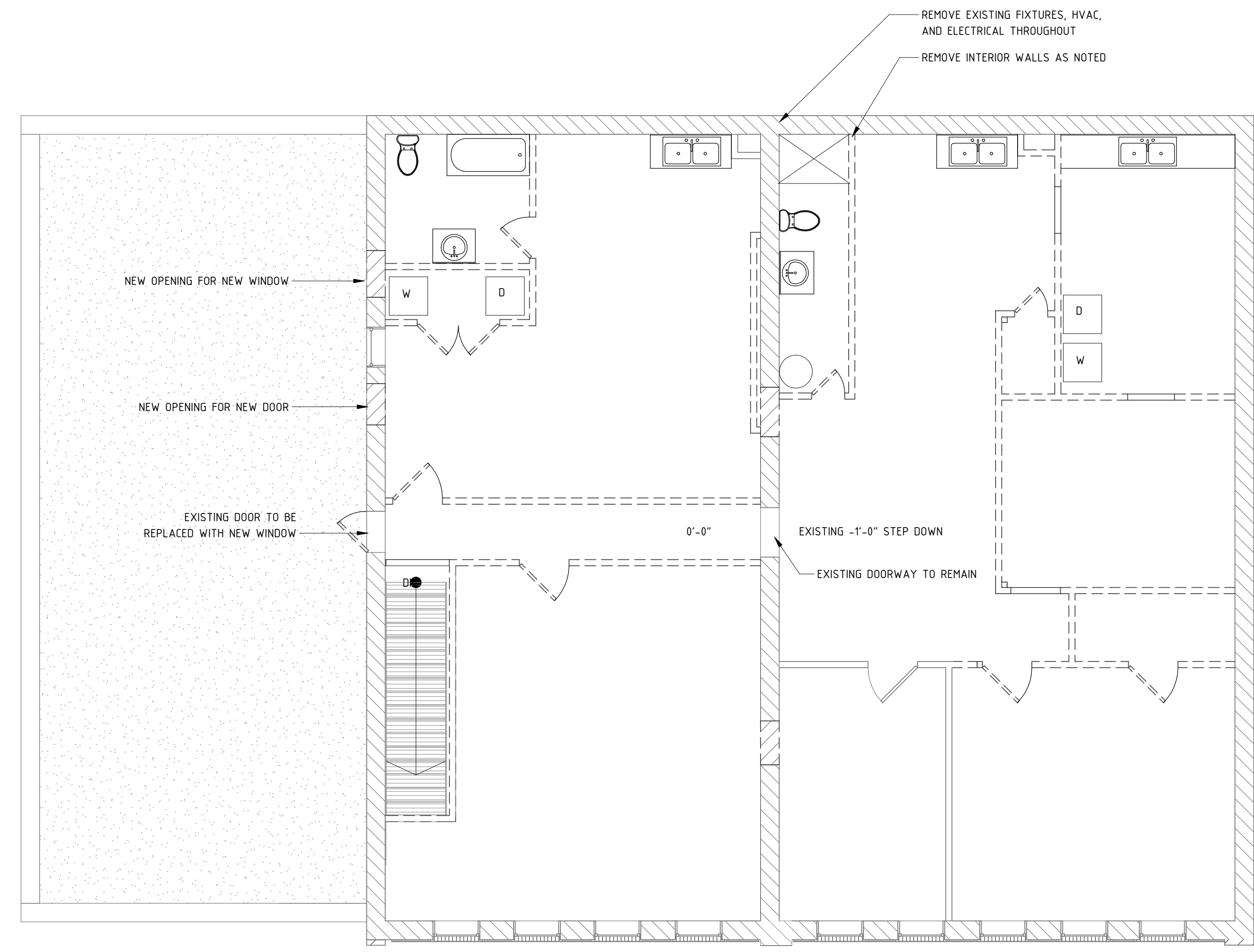
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DEMOLITION
PLAN

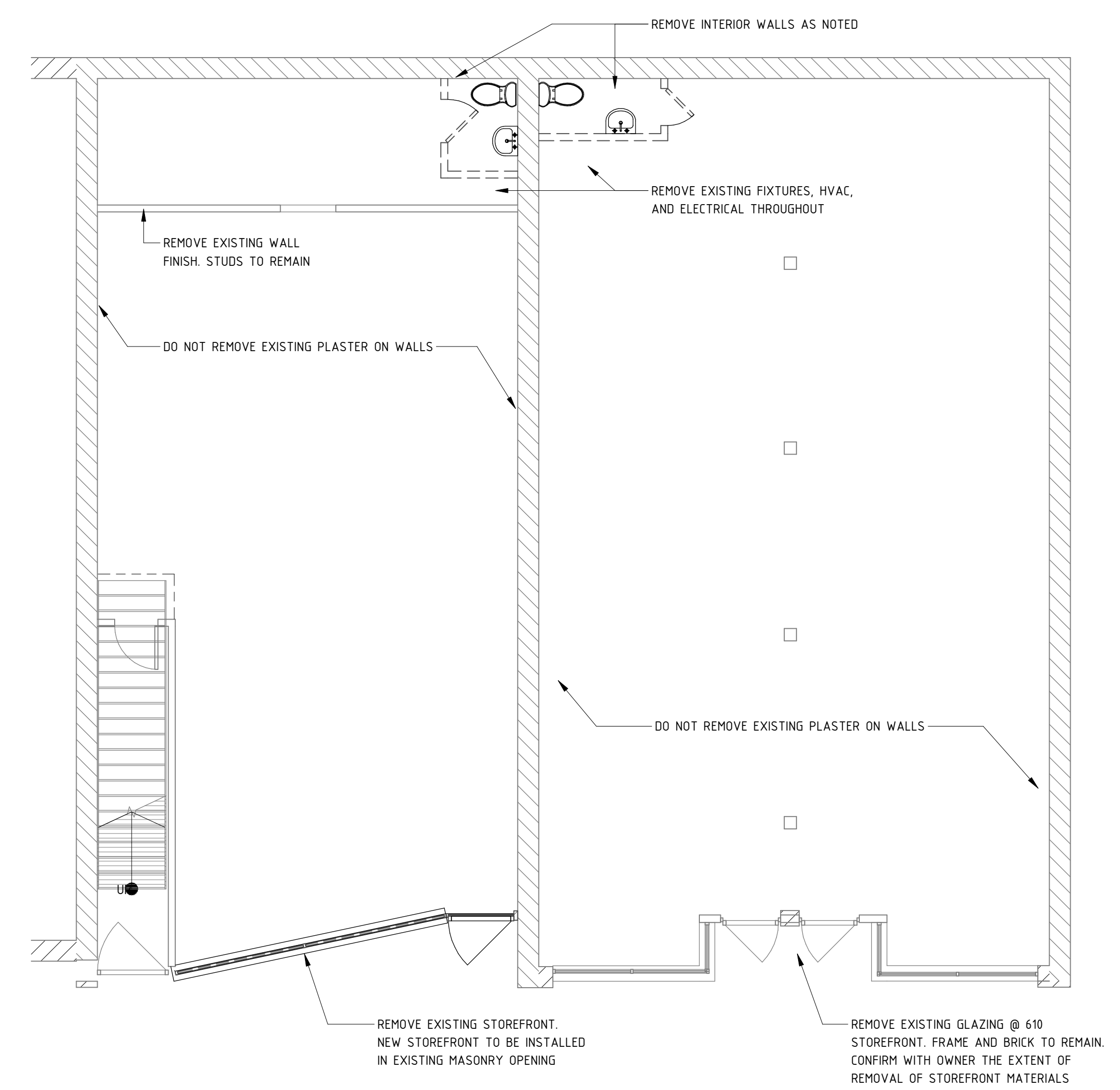
AD1.0

DEMOLITION LEGEND

-  EXISTING MASONRY WALL TO REMAIN
-  EXISTING PARTITION TO BE REMOVED
-  EXISTING PARTITION TO REMAIN
-  EXISTING DOOR TO BE REMOVED
-  EXISTING DOOR TO REMAIN



2 SECOND FLOOR DEMOLITION PLAN
SCALE: 3/16" = 1'-0"



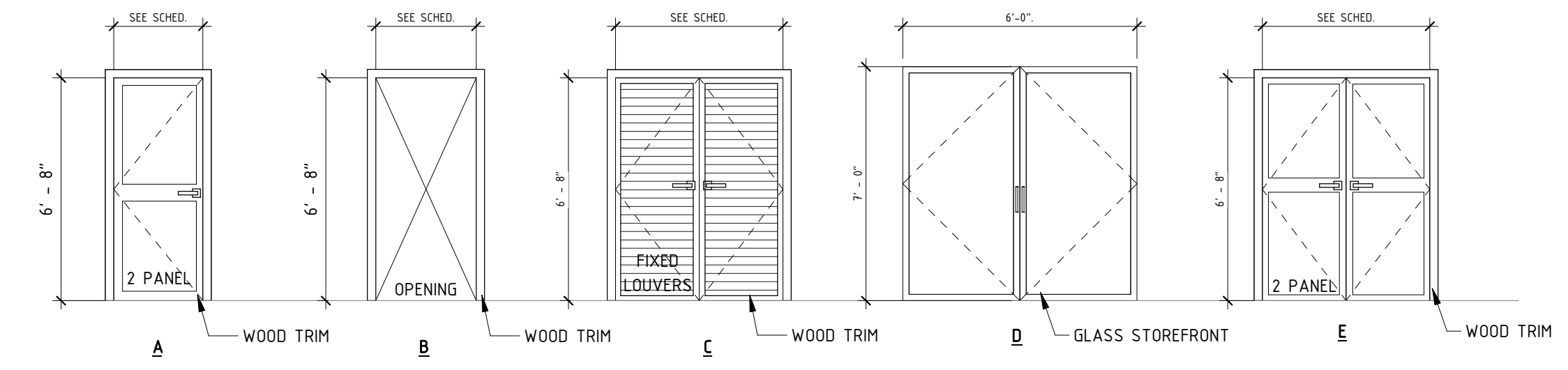
1 FIRST FLOOR DEMOLITION PLAN
SCALE: 3/16" = 1'-0"

FINISH SCHEDULE 1ST FLOOR						
ROOM #	ROOM NAME	FLOOR	BASE	WALL	CEILING	CLG HEIGHT
100	STAIR	WD	WD	GWB,PT	WD	
101	TENANT AREA	WD	WD	GWB,PT	WD	10' - 9"
102	STORAGE	WD	WD	GWB,PT	WD	10' - 9"
103	RESTROOM	TILE	WD	GWB,PT	ACT	8' - 0"
110	TENANT AREA	WD	WD	GWB,PT	WD	10' - 7"
112	RESTROOM	TILE	WD	GWB,PT	ACT	8' - 0"

*CONFIRM ALL FINISHES WITH OWNER
*FIELD VERIFY EXISTING CEILING HEIGHTS

DOOR SCHEDULE 1ST FLOOR										
Mark	Phase Created	Door		Material	Finish	Frame Type	Elevation	Fire Rating	Hardware	
		Width	Height						LEVER, DEADBOLT, CLOSER	LEVER
100	Existing	3' - 10"	8' - 0"	MTL/GLASS	EXISTING	MTL	EXISTING	--	--	LEVER, DEADBOLT, CLOSER
102	Existing	3' - 0"	7' - 0"	OPENING	--	WD	EXISTING	--	--	--
104	Existing	2' - 4"	7' - 0"	WD	EXISTING	WD	EXISTING	--	--	--
110A	Existing	3' - 0"	7' - 6"	MTL/GLASS	PT	MTL	EXISTING	--	--	--
110B	Existing	3' - 0"	7' - 6"	MTL/GLASS	PT	MTL	EXISTING	--	--	--
101	New Construction	6' - 0"	8' - 0"	MTL/GLASS	--	MTL	D	--	--	PUSH/PULL, CLOSERS
103	New Construction	3' - 0"	7' - 0"	WD	PT	WD	A	--	--	LEVER
112	New Construction	3' - 0"	7' - 0"	WD	PT	WD	A	--	--	LEVER

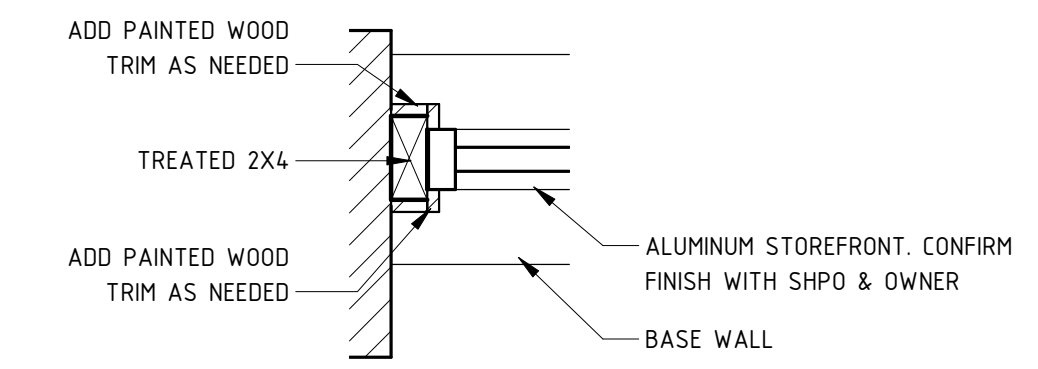
*CONFIRM ALL NEW DOOR TYPES & FINISHES WITH OWNER



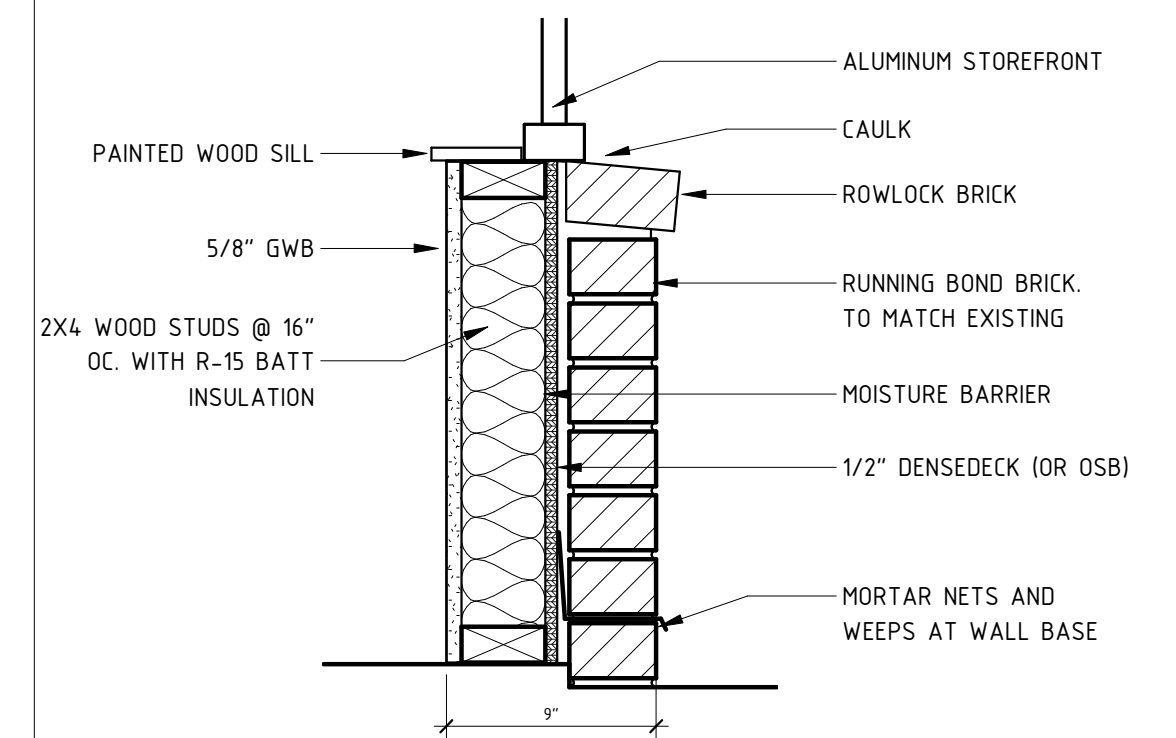
WALL LEGEND

Symbol	Description
[Hatched Box]	EXISTING WALL TO REMAIN
[Dashed Box]	EXISTING WALL TO BE REMOVED
[Solid Box]	NEW WALL
1.1E	EXISTING MASONRY WALL WITH INTERIOR PLASTER FINISH
1.2	NEW STOREFRONT BASE WALL - 2X4 WOOD STUD WITH 5/8" INTERIOR AND 1/2" AIR GAP WITH 1 WYTHE RUNNING BOND BRICK. NEW BRICK TO MATCH EXISTING - 8 3/4" THICK.
2.1E	EXISTING INTERIOR STUD WALL
2.2	NEW INTERIOR WALL - 2X4 STUDS @ 16" OC WITH 1/2" GWB EACH SIDE. TO CEILING ABOVE. ALL TOILET ROOM WALLS TO HAVE 3 1/2" SOUND BATT INSULATION. 4 1/2" THICK.
3.1R	NEW INTERIOR 1 HOUR RATED FIRE PARTITION - 2X4 STAGGERED STUDS @ 16" OC ON 2X6 TOP AND BOTTOM PLATES WITH 5/8" TYPE "X" GWB EACH SIDE. TO DECK ABOVE. UL U340. 6 3/4" THICK.
3.2	NEW INTERIOR WALL - 2X6 WOOD STUDS @ 16" OC WITH 1/2" GWB EACH SIDE. TOILET ROOMS WALLS TO HAVE 3 1/2" SOUND BATT INSULATION. 6 1/2" THICK.
4.1	NEW FURRING - 2X4 WOOD STUDS TURNED FLAT WITH 1/2" GWB ONE SIDE. 2" THICK.
4.2	NEW FURRING - 2X4 WOOD STUDS WITH 1/2" GWB ONE SIDE. 4" THICK.

*CONFIRM DIMENSIONS OF EXISTING WALLS.
*FURR WALLS AS NEEDED.
*DIMENSIONS TAKEN AT EXISTING WALLS ARE TO EXISTING FINISH FACE WALL
*DIMENSIONS TAKEN AT NEW WALLS ARE TO FACE OF STUD

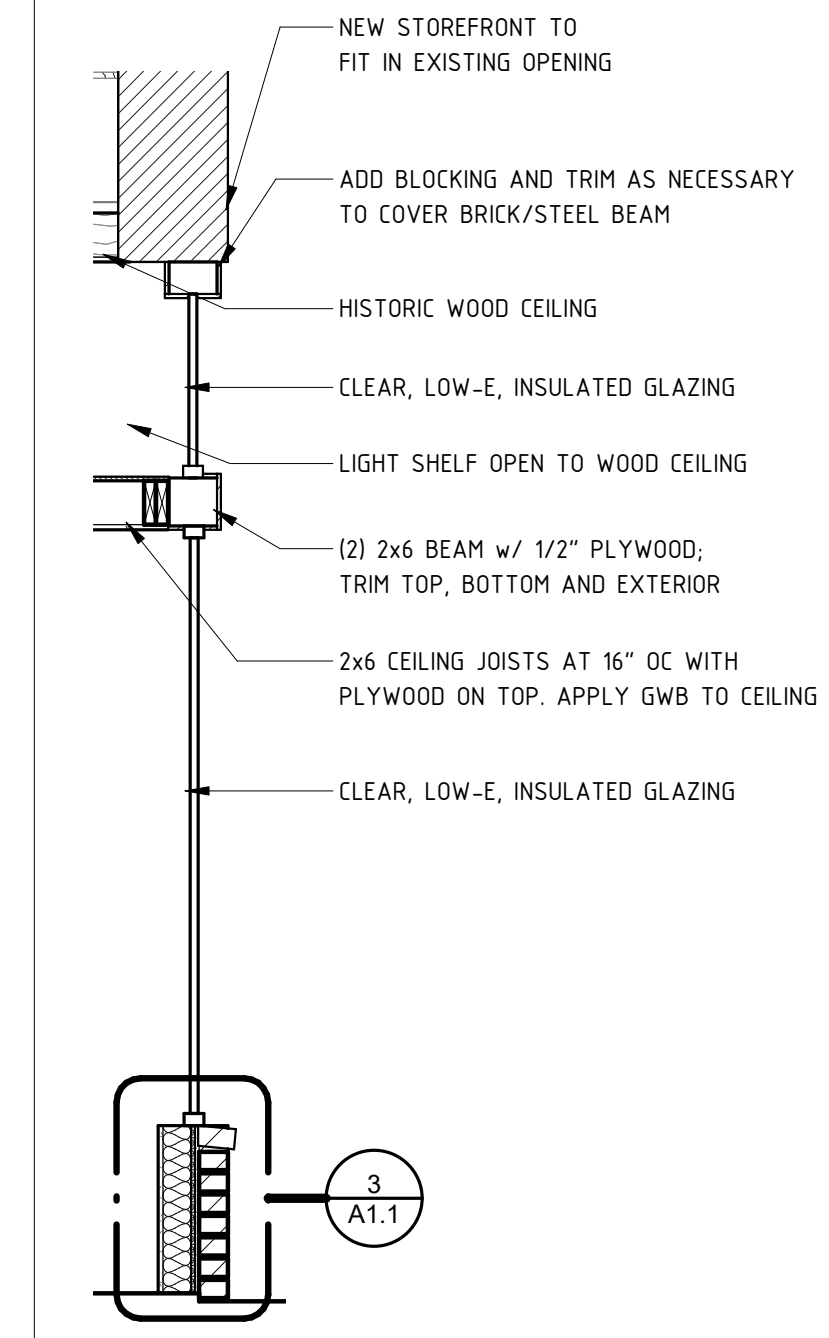


7 STOREFRONT LEFT JAMB DETAIL
SCALE: 1 1/2" = 1'-0"

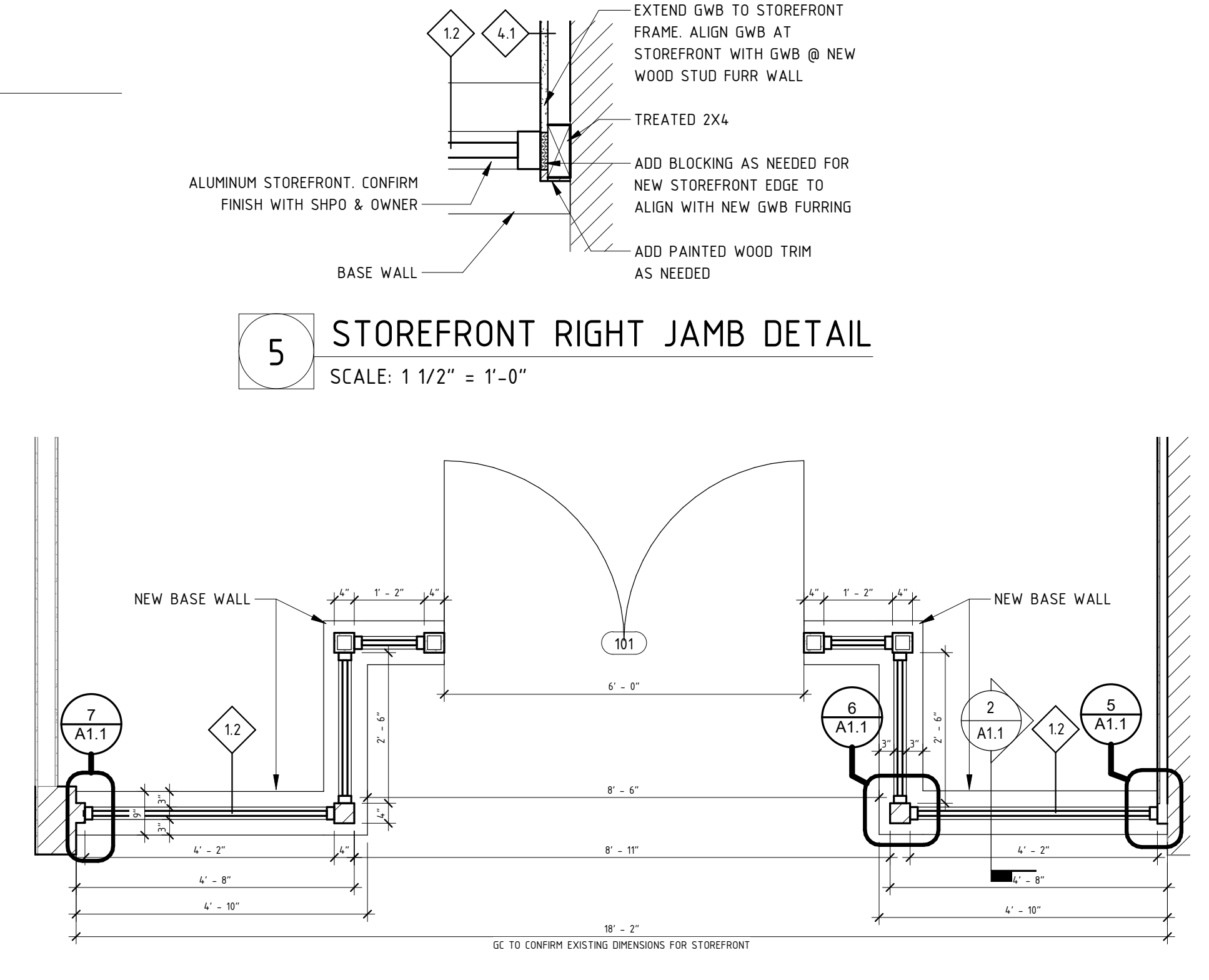


6 TYP. STOREFRONT CORNER DETAIL
SCALE: 1 1/2" = 1'-0"

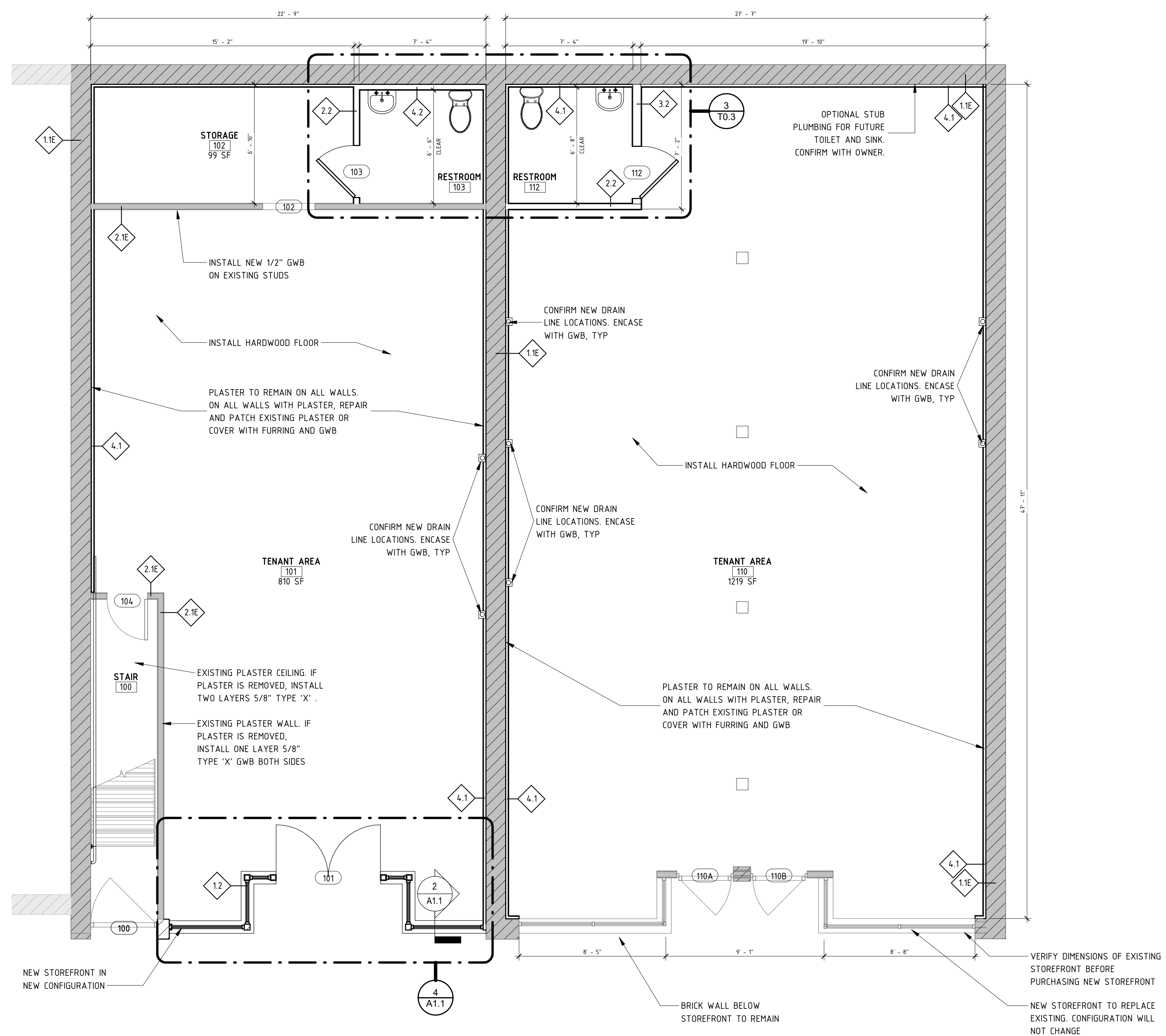
3 BASE WALL SECTION
SCALE: 1 1/2" = 1'-0"



2 STOREFRONT SECTION
SCALE: 1/2" = 1'-0"



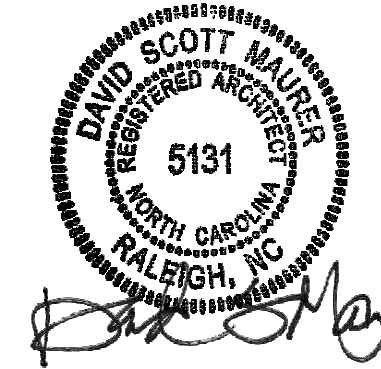
4 ENLARGED STOREFRONT PLAN
SCALE: 1/2" = 1'-0"



1 FIRST FLOOR PROPOSED
SCALE: 1/4" = 1'-0"



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10.12.20

INTERIOR ALTERATION
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ELIZABETH CITY, NC

DATE 10.12.20
DR. ELM
CH. DSM
PROJ. # 20013.2
REVISIONS DATE

1ST FLOOR PLAN

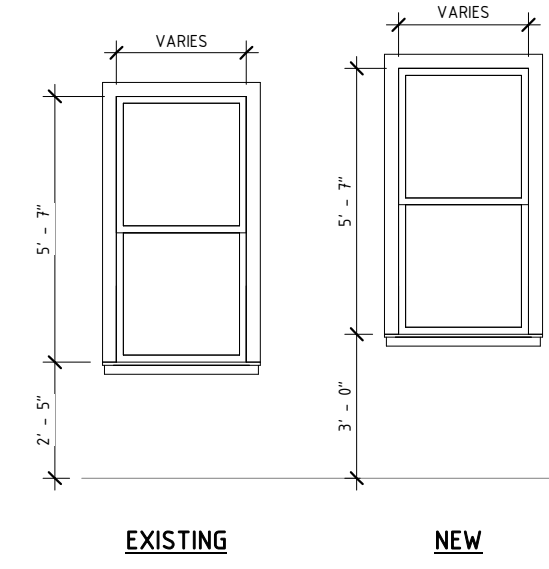
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FINISH SCHEDULE 2ND FLOOR						
ROOM #	ROOM NAME	FLOOR	BASE	WALL	CEILING	CLG HEIGHT
200	HALL	WD	WD	GWB,PT	WD	10'-9"
201	HALL	WD	WD	GWB,PT	WD	10'-9"
210	UNIT 1	WD	WD	GWB,PT	WD	10'-9"
211	CLOSET	WD	WD	GWB,PT	WD	10'-9"
212	UTILITY	WD	WD	GWB,PT	WD	10'-9"
213	BEDROOM	WD	WD	GWB,PT	WD	10'-9"
214	CLOSET	WD	WD	GWB,PT	WD	10'-9"
215	BATHROOM	TILE	WD	GWB,PT	GWB	10'-9"
220	UNIT 2	WD	WD	GWB,PT	WD	10'-9"
221	HALL	WD	WD	GWB,PT	WD	10'-9"
222	BATHROOM	TILE	WD	GWB,PT	GWB	10'-8"
223	WD	WD	WD	GWB,PT	GWB	10'-8"
224	BEDROOM	WD	WD	GWB,PT	WD	10'-9"
225	CLOSET	WD	WD	GWB,PT	WD	10'-9"
226	CLOSET	WD	WD	GWB,PT	WD	10'-9"
227	WD	WD	WD	GWB,PT	GWB	10'-8"
230	UNIT 3	WD	WD	GWB,PT	WD	10'-9"
231	CLOSET	WD	WD	GWB,PT	WD	10'-9"
232	BATHROOM	TILE	WD	GWB,PT	GWB	10'-8"
233	BEDROOM	WD	WD	GWB,PT	WD	10'-9"
234	CLOSET	WD	WD	GWB,PT	WD	10'-9"
235	CLOSET	WD	WD	GWB,PT	WD	10'-9"

*CONFIRM ALL FINISHES WITH OWNER

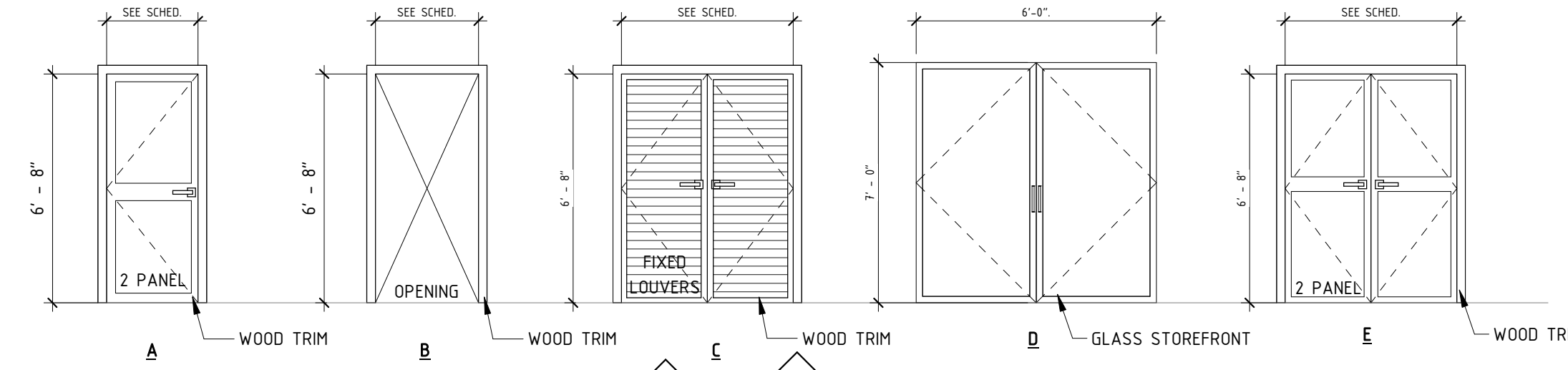
WINDOW SCHEDULE						
#	OPENING		SILL HEIGHT	DESCRIPTION	MATL	FINISH
	W	HT				
E1	2' - 10"	5' - 8"	2' - 5"	Double Hung with Trim	WD	PT
E2	2' - 5"	5' - 8"	3' - 0"	Double Hung with Trim	WD	PT
W1	2' - 10"	5' - 8"	3' - 0"	Double Hung with Trim	WD	PT
W2	2' - 6"	5' - 8"	3' - 0"	Double Hung with Trim	WD	PT

*CONFIRM SIZE, LOCATION, AND HEIGHT OF NEW WINDOWS WITH OWNER



DOOR SCHEDULE 2ND FLOOR										
Mark	Phase Created	Door			Finish	Frame Type	Elevation	Fire Rating	Hardware	
		Width	Height	Material					Opening	Finish
200	Existing	3'-0"	7'-0"	OPENING	---	WD	EXISTING	---	---	---
201E	Existing	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	EXISTING	---	FLIP SWING, PRIVACY	PASSAGE, DEADBOLT, HINGE CLOSER
201	New Construction	3'-0"	6'-8"	WD	PT	WD	A	45 MIN	DUMMY W/ MAG CATCH	PASSAGE, DEADBOLT, HINGE CLOSER
201A	New Construction	5'-0"	6'-8"	WD-LOUVER	PT	WD	C	---	DUMMY W/ MAG CATCH	PASSAGE
201B	New Construction	2'-6"	6'-8"	WD	PT	WD	A	---	---	---
201C	New Construction	2'-6"	6'-8"	WD	PT	WD	A	---	---	---
201D	New Construction	4'-0"	6'-8"	WD	PT	WD	E	---	DUMMY W/ MAG CATCH	PASSAGE, DEADBOLT, HINGE CLOSER
202	New Construction	3'-0"	6'-8"	WD	PT	WD	A	45 MIN	---	---
202B	New Construction	3'-0"	6'-8"	OPENING	---	WD	B	---	---	---
202C	New Construction	2'-6"	6'-8"	WD	PT	WD	A	---	---	---
202D	New Construction	5'-0"	6'-8"	WD-LOUVER	PT	WD	C	---	---	---
202E	New Construction	2'-6"	6'-8"	WD	PT	WD	A	---	---	---
202F	New Construction	5'-0"	6'-8"	WD	PT	WD	E	---	DUMMY W/ MAG CATCH	PASSAGE, DEADBOLT, HINGE CLOSER
203	New Construction	3'-0"	6'-8"	WD	PT	WD	A	45 MIN	---	---
203A	New Construction	2'-0"	6'-8"	WD	PT	WD	A	---	---	---
203B	New Construction	2'-6"	6'-8"	WD	PT	WD	A	---	---	---
203C	New Construction	5'-0"	6'-8"	WD-LOUVER	PT	WD	C	---	DUMMY W/ MAG CATCH	PASSAGE
203D	New Construction	2'-8"	6'-8"	WD	PT	WD	A	---	---	---
203E	New Construction	5'-0"	6'-8"	WD	PT	WD	E	---	DUMMY W/ MAG CATCH	PASSAGE
204	New Construction	2'-6"	6'-8"	WD	PT	WD	A	---	---	---

*CONFIRM ALL NEW DOOR TYPES WITH OWNER

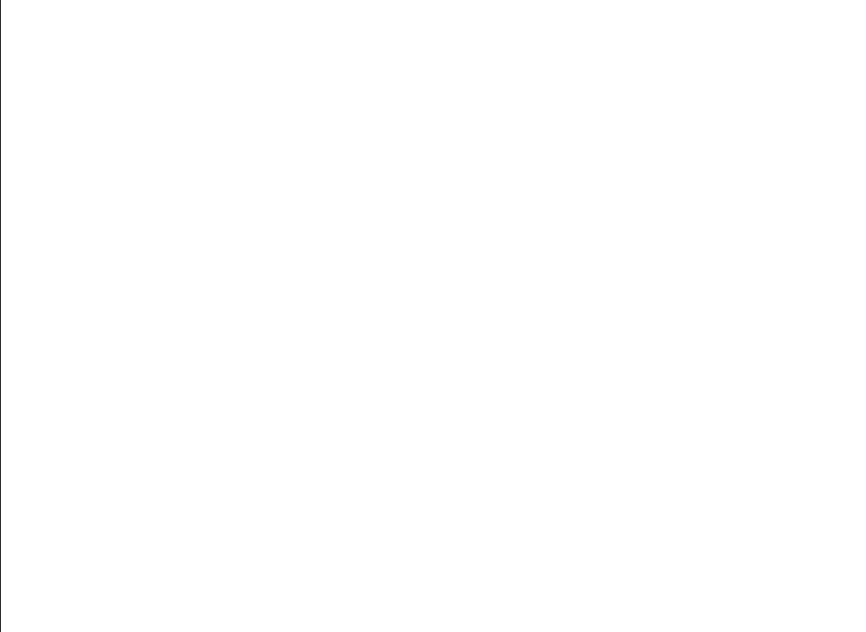


WALL LEGEND

Symbol	Description
[Hatched Box]	EXISTING MASONRY WALL WITH INTERIOR PLASTER FINISH
[Hatched Box]	EXISTING WALL TO BE REMOVED
[Solid Line]	NEW WALL
[Symbol 1.1E]	EXISTING INTERIOR STUD WALL
[Symbol 1.2]	NEW STOREFRONT BASE WALL - 2X4 WOOD STUD WITH 5/8" INTERIOR AND 1/2" AIR GAP WITH 1 WYTHE RUNNING BOND BRICK. NEW BRICK TO MATCH EXISTING - 8 3/4" THICK.
[Symbol 2.1E]	NEW INTERIOR WALL - 2X4 STUDS @ 16" OC WITH 1/2" GWB EACH SIDE. TO CEILING ABOVE. ALL TOILET ROOM WALLS TO HAVE 3 1/2" SOUND BATT INSULATION. 4 1/2" THICK.
[Symbol 3.1R]	NEW INTERIOR 1 HOUR RATED FIRE PARTITION - 2X4 STAGGERED STUDS @ 16" OC ON 2X6 TOP AND BOTTOM PLATES WITH 5/8" TYPE "X" GWB EACH SIDE. TO DECK ABOVE. UL U340. 6 3/4" THICK.
[Symbol 3.2]	NEW INTERIOR WALL - 2X6 WOOD STUDS @ 16" OC WITH 1/2" GWB EACH SIDE. TOILET ROOMS WALLS TO HAVE 3 1/2" SOUND BATT INSULATION. 6 1/2" THICK.
[Symbol 4.1]	NEW FURRING - 2X4 WOOD STUDS TURNED FLAT WITH 1/2" GWB ONE SIDE. 2" THICK.
[Symbol 4.2]	NEW FURRING - 2X4 WOOD STUDS WITH 1/2" GWB ONE SIDE. 4" THICK.

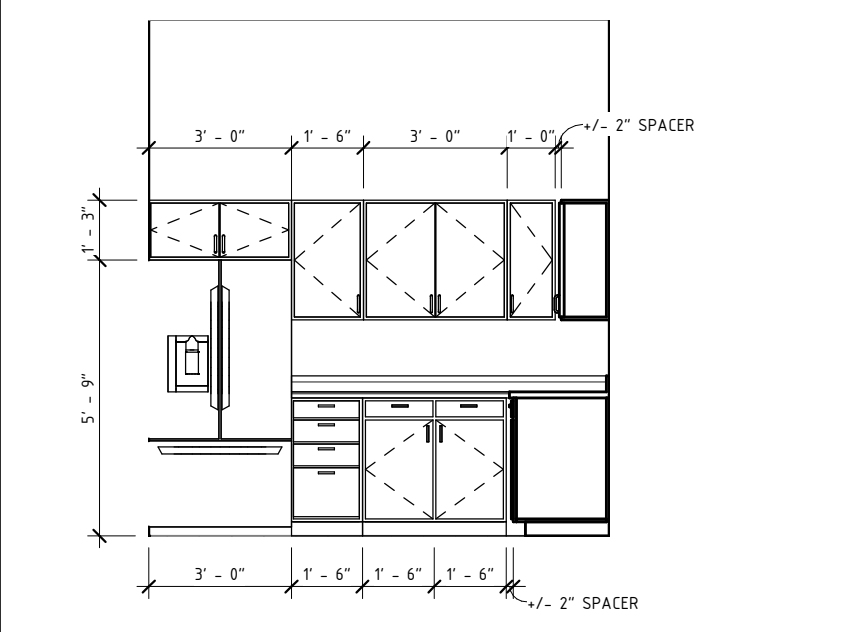
*CONFIRM DIMENSIONS OF EXISTING WALLS.
*FURR WALLS AS NEEDED.

*DIMENSIONS TAKEN AT EXISTING WALLS ARE TO EXISTING FINISH FACE WALL
*DIMENSIONS TAKEN AT NEW WALLS ARE TO FACE OF STUD



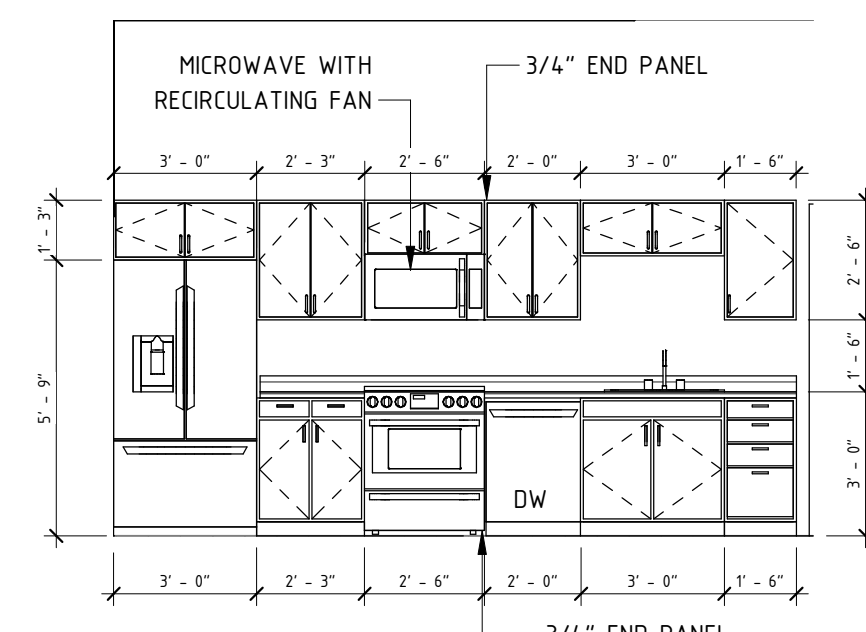
*CONFIRM ALL CABINET SIZES WITH FIELD CONDITIONS AND OWNER

6 UNIT 3 KITCHEN
SCALE: 1/4" = 1'-0"



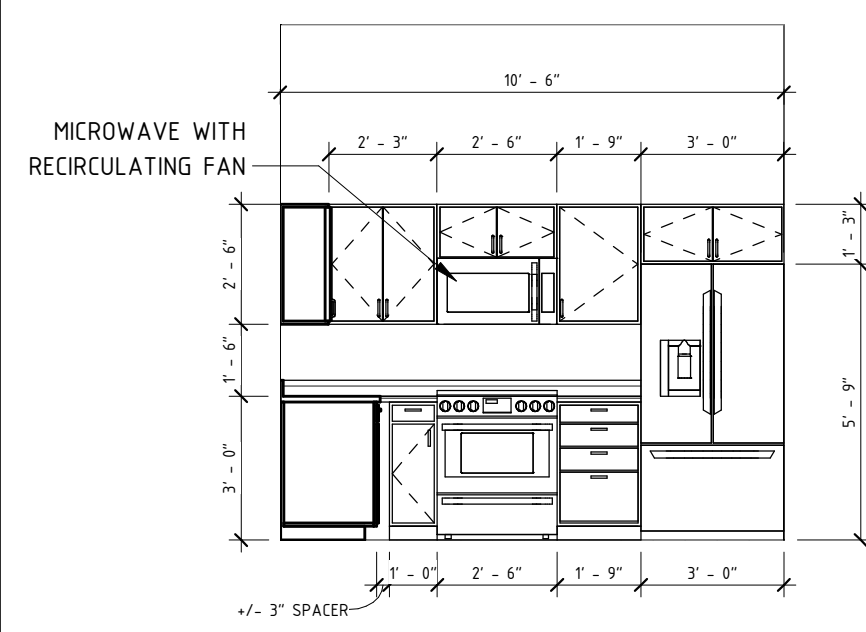
*CONFIRM ALL CABINET SIZES WITH FIELD CONDITIONS AND OWNER

5 UNIT 3 KITCHEN
SCALE: 1/4" = 1'-0"



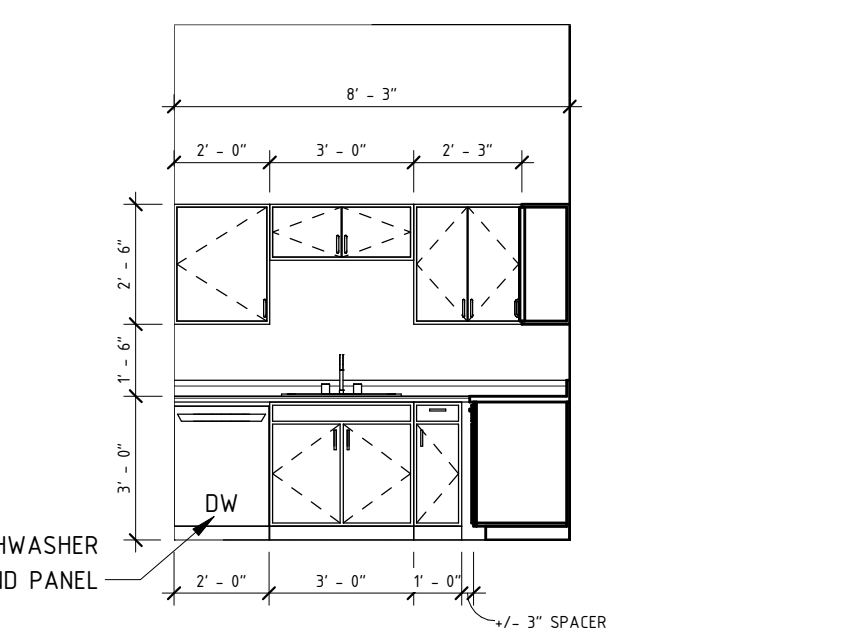
*CONFIRM ALL CABINET SIZES WITH FIELD CONDITIONS AND OWNER

4 UNIT 2 KITCHEN
SCALE: 1/4" = 1'-0"



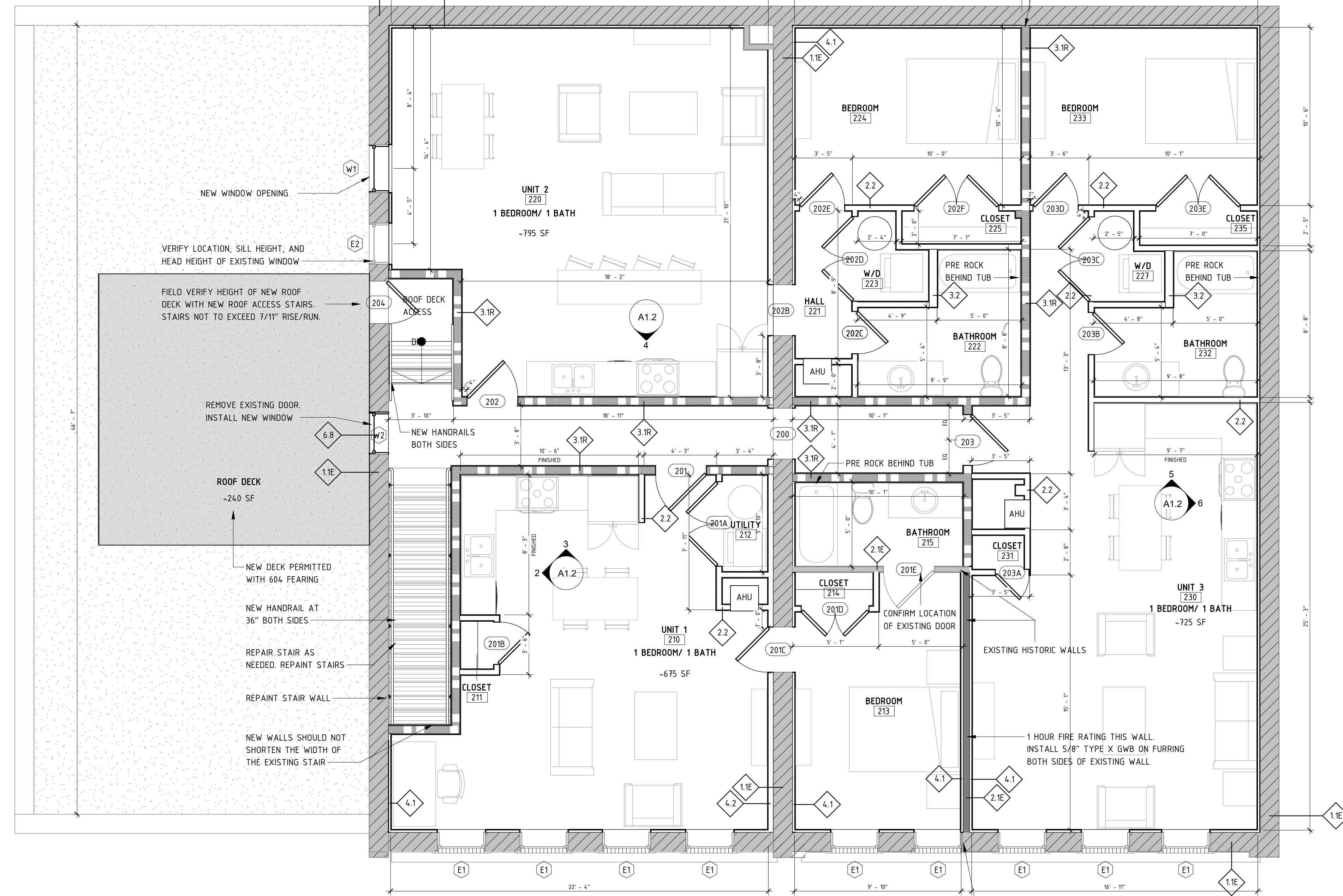
*CONFIRM ALL CABINET SIZES WITH FIELD CONDITIONS AND OWNER

3 UNIT 1 KITCHEN
SCALE: 1/4" = 1'-0"



*CONFIRM ALL CABINET SIZES WITH FIELD CONDITIONS AND OWNER

2 UNIT 1 KITCHEN
SCALE: 1/4" = 1'-0"



1 SECOND FLOOR PROPOSED
SCALE: 1/4" = 1'-0"



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10.12.20

INTERIOR ALTERATION
606-610 FEARING ST
ELIZABETH CITY, NC

DATE 10.12.20
DR. ELM
CH. DSM
PROJ. # 20013.2
REVISIONS DATE

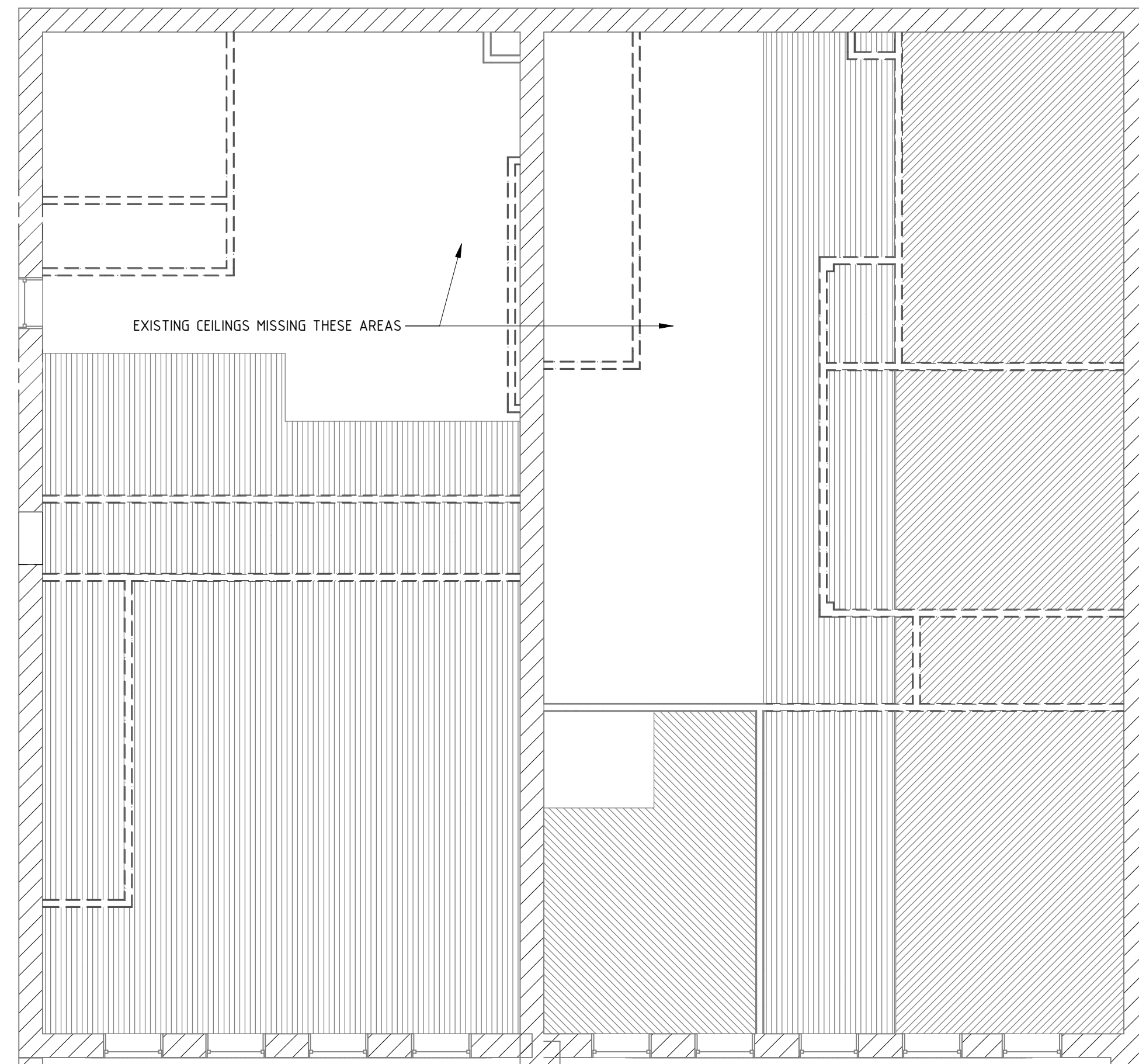
2ND FLOOR PLAN

A1.2

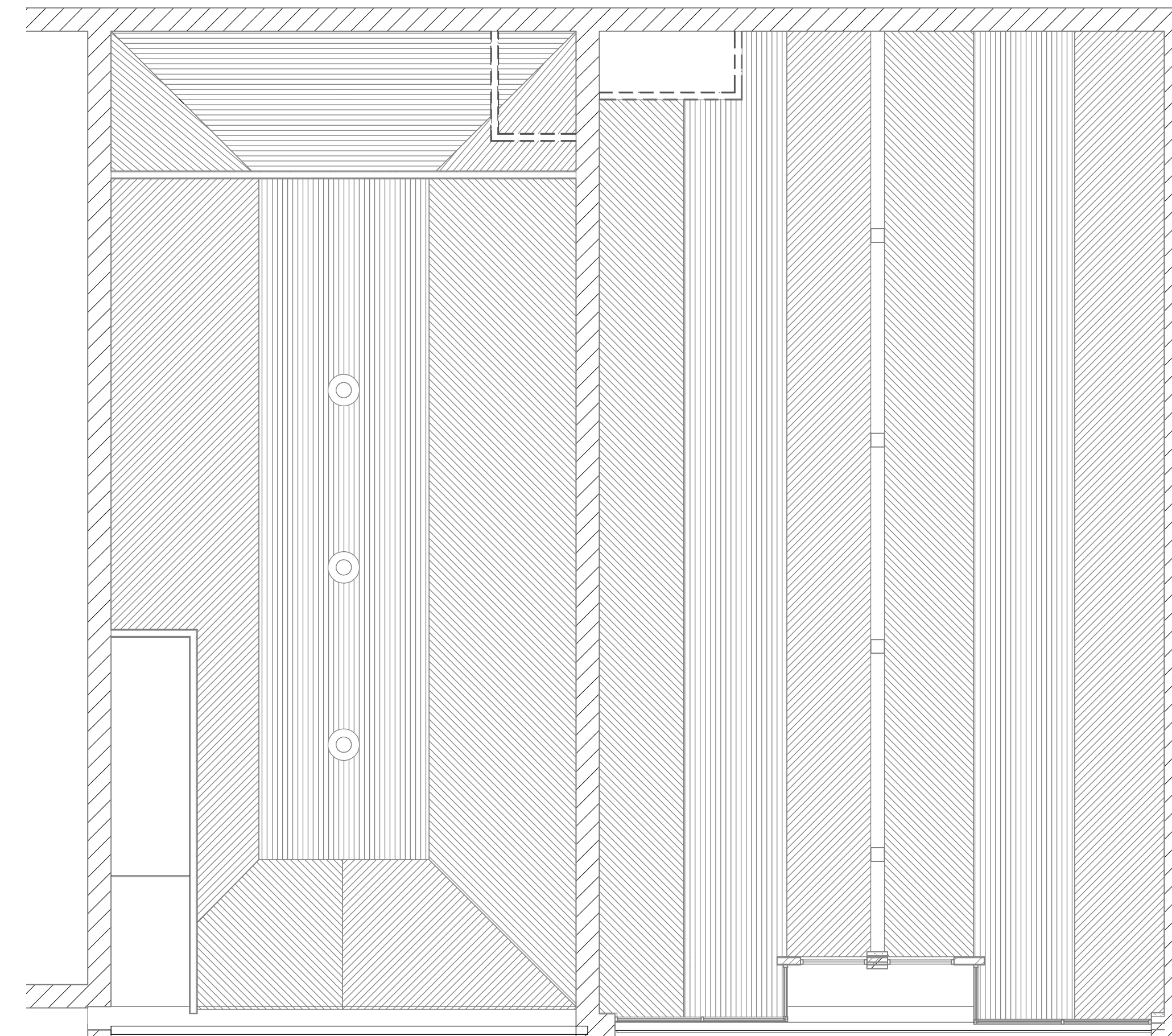
REFLECTED CEILING PLAN LEGEND

- X##-##** CEILING TYPE & HEIGHT AFF
- A - 2X2 ACOUSTIC CEILING TILE
- B - HISTORIC T&G WOOD CEILING
- C - NEW T&G WOOD CEILING (TO MATCH EXISTING)
- D - GYPSUM BOARD CEILING
- CEILING FAN
- RECESSED LED CAN LIGHT
- PUCK LIGHT
- PENDANT LIGHT
- RESIDENTIAL PENDANT LIGHT
- SURFACE MOUNTED LIGHT
- WALL MOUNTED EXTERIOR LIGHT
- LINEAR STRIP LIGHT
- VANITY LIGHT
- EXHAUST FAN
- ACCESS DOOR
- EXIT LIGHT - SEE ELEC DRAWINGS
- EMERGENCY WALL LIGHT

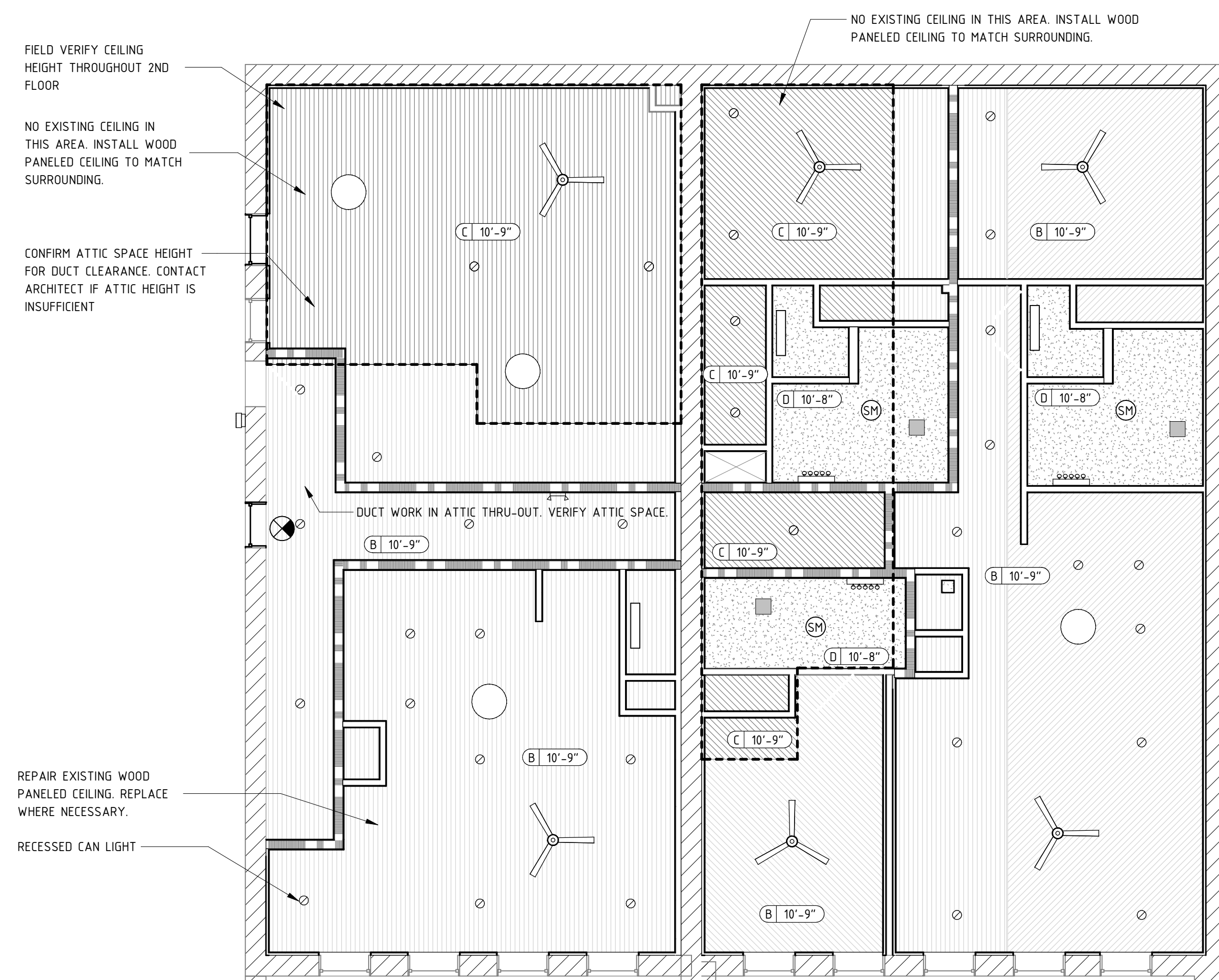
NOTE: REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SPECIFICATIONS



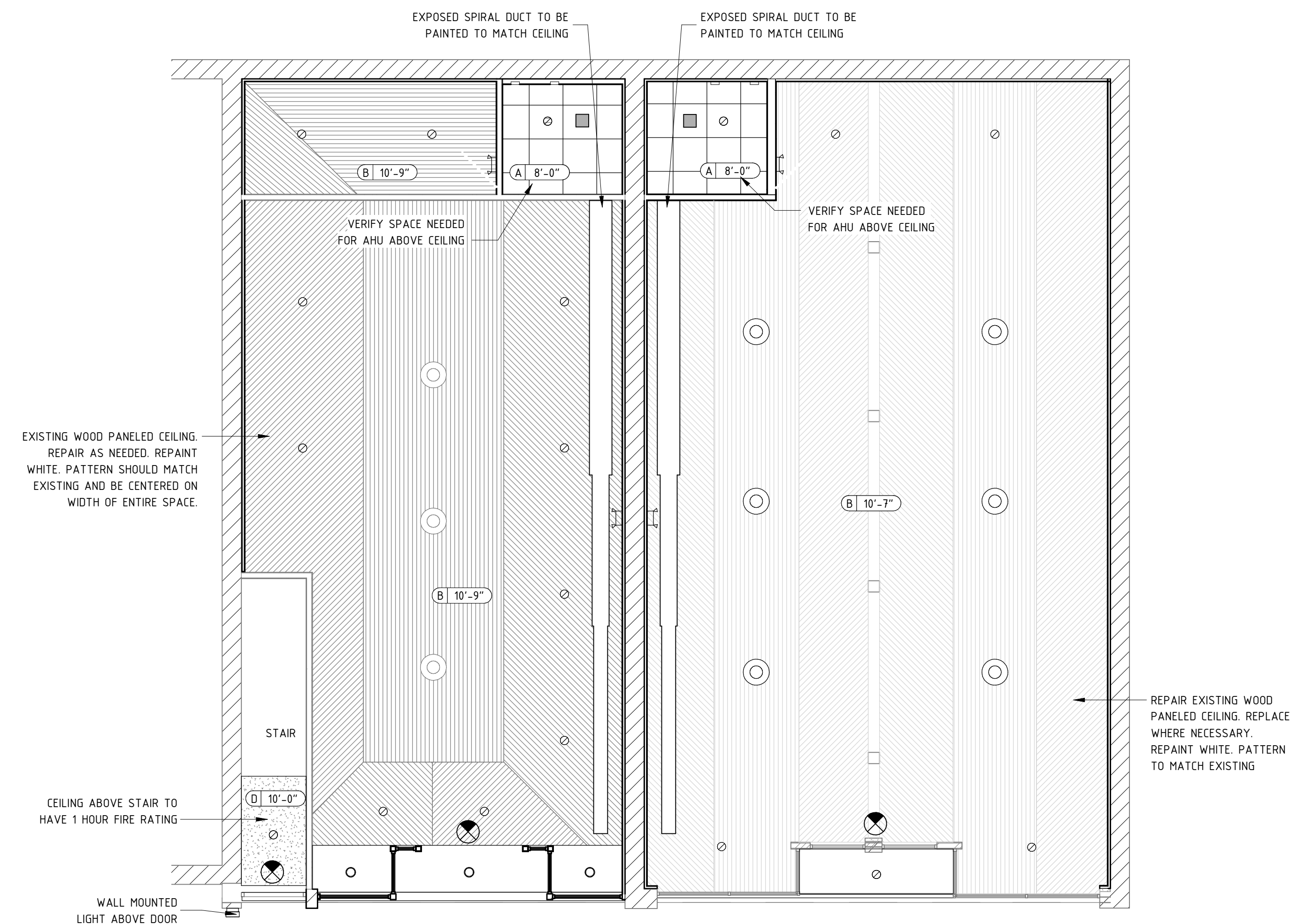
4 SECOND FLOOR DEMO RCP
SCALE: 3/16" = 1'-0"



3 FIRST FLOOR DEMO RCP
SCALE: 3/16" = 1'-0"



2 SECOND FLOOR PROPOSED RCP
SCALE: 3/16" = 1'-0"



1 FIRST FLOOR PROPOSED RCP
SCALE: 3/16" = 1'-0"



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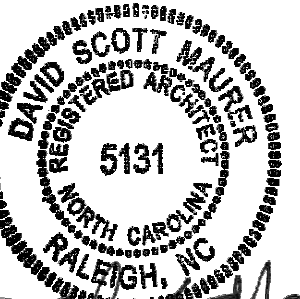
10.12.20

INTERIOR ALTERATION
606-610 FEARING ST
ELIZABETH CITY, NC

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PROJ. #	20013.2
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REFLECTED
CEILING PLANS

A1.3



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10.12.20

INTERIOR ALTERATION

606-610 FEARING ST

ELIZABETH CITY, NC

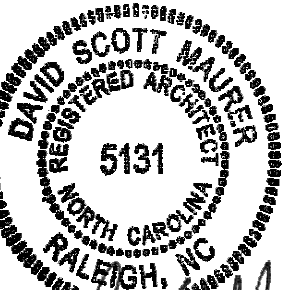
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1 ROOF
SCALE: 1/4" = 1'-0"

ROOF PLAN

A1.10



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INTERIOR ALTERATION

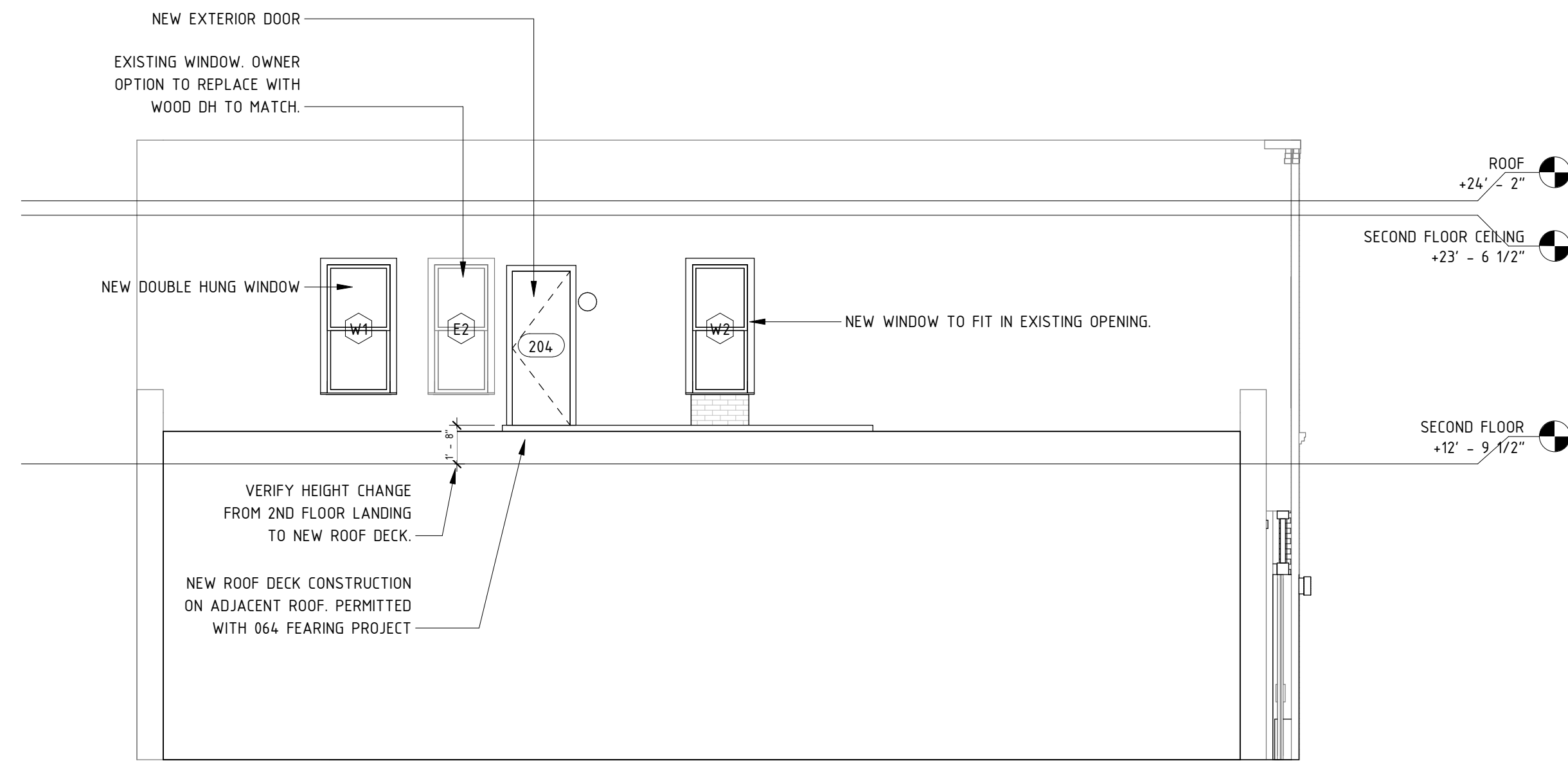
606-610 FEARING ST

ELIZABETH CITY, NC

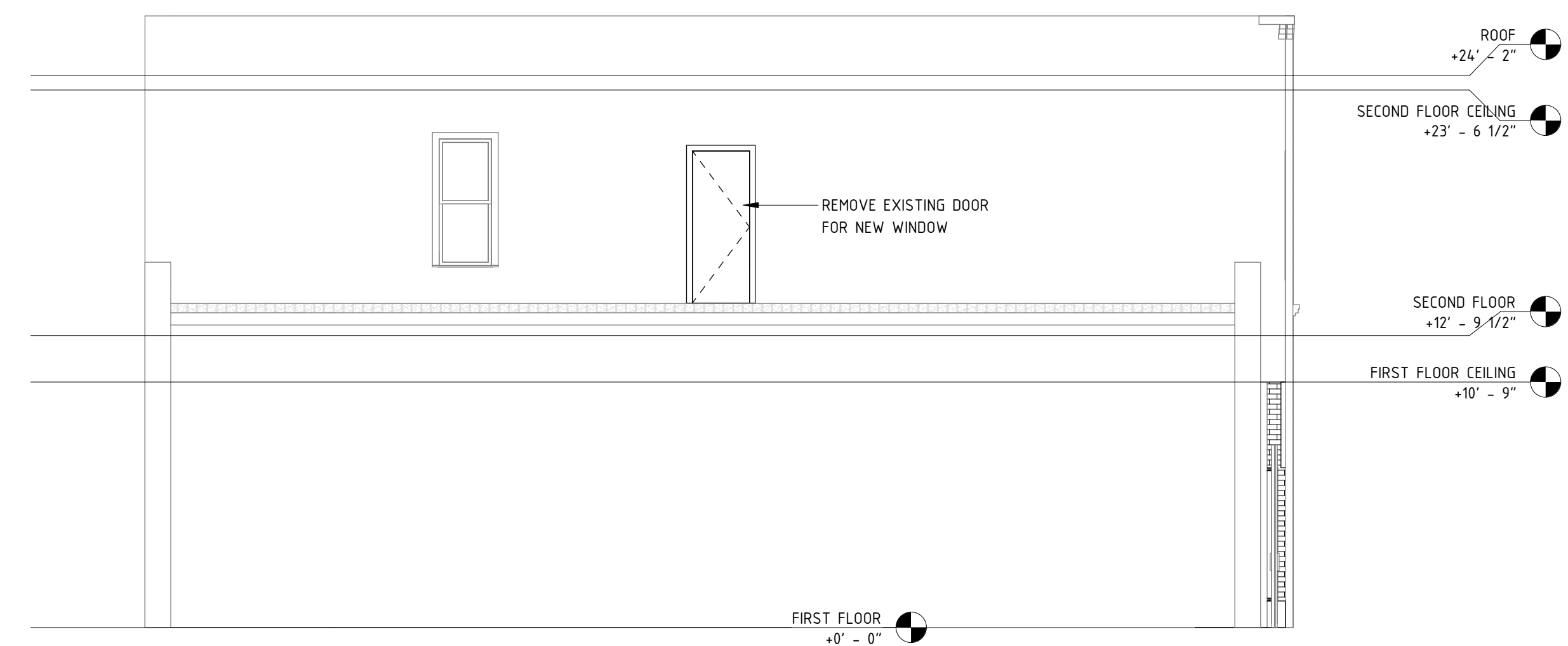
DATE	10.12.20
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PROJ. #	20013.2
REVISIONS	DATE

ELEVATIONS

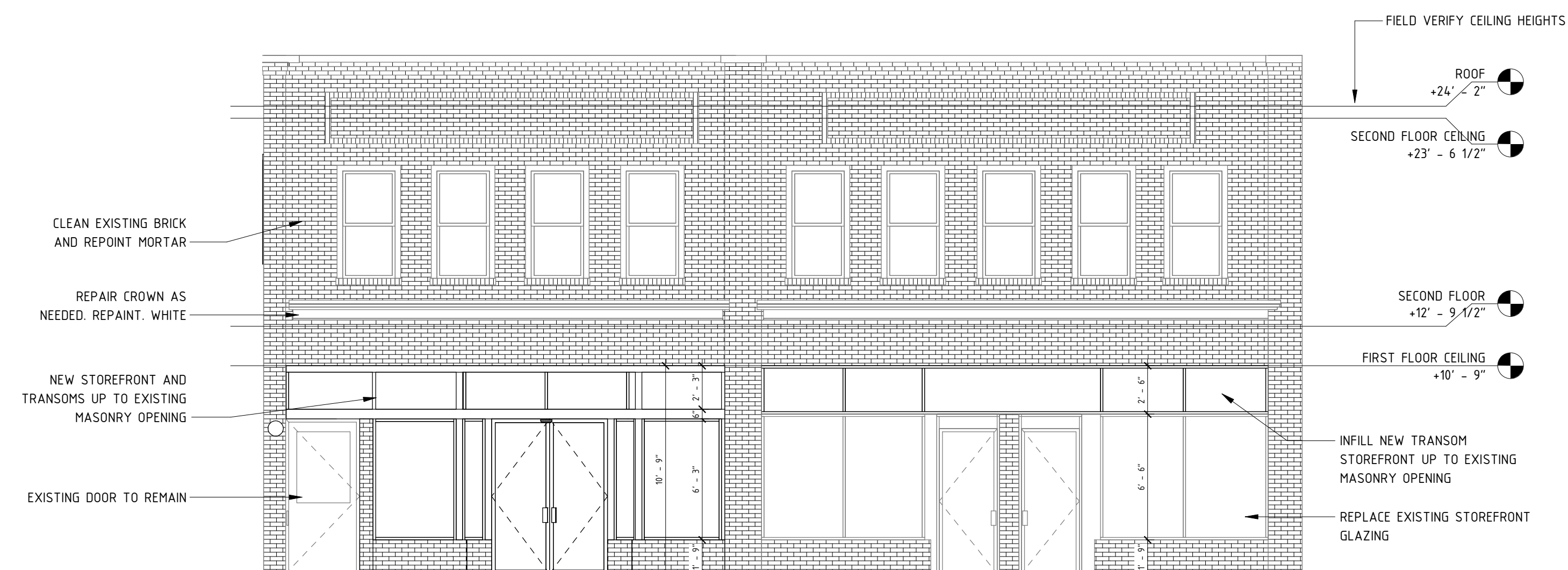
A2.0



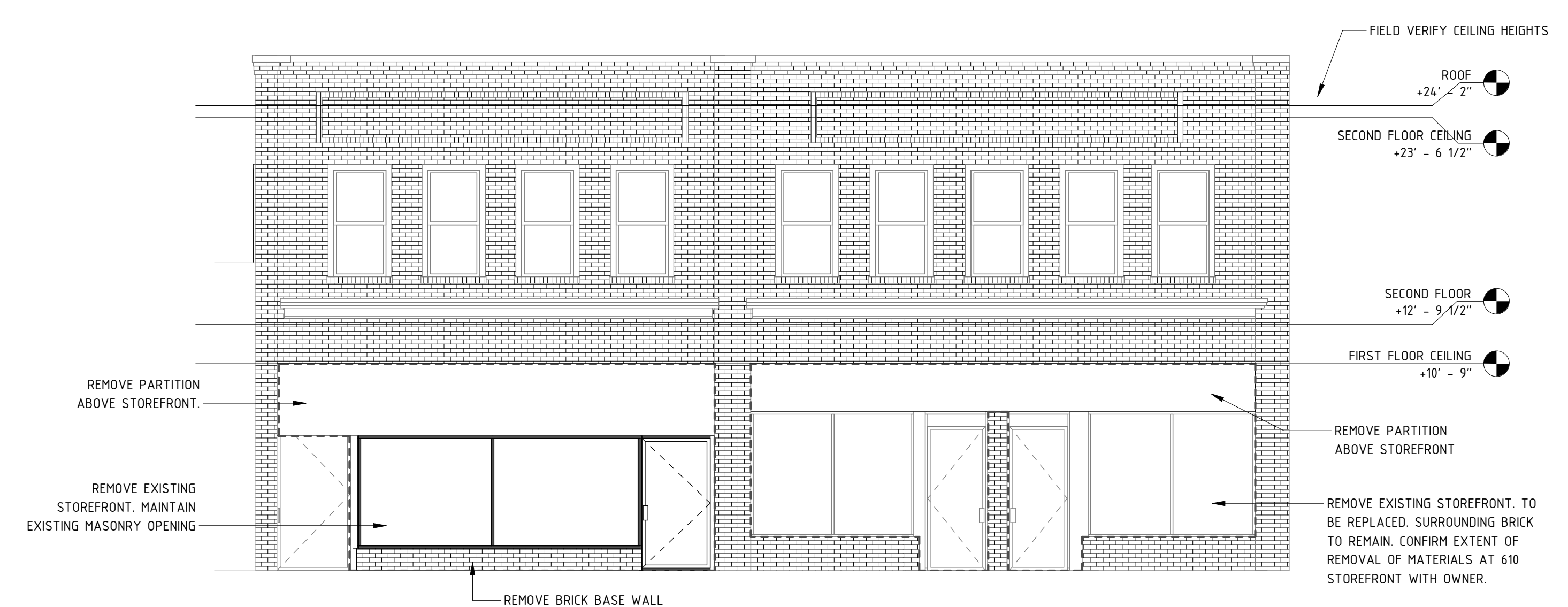
4 WEST ELEVATION NEW
SCALE: 3/16" = 1'-0"



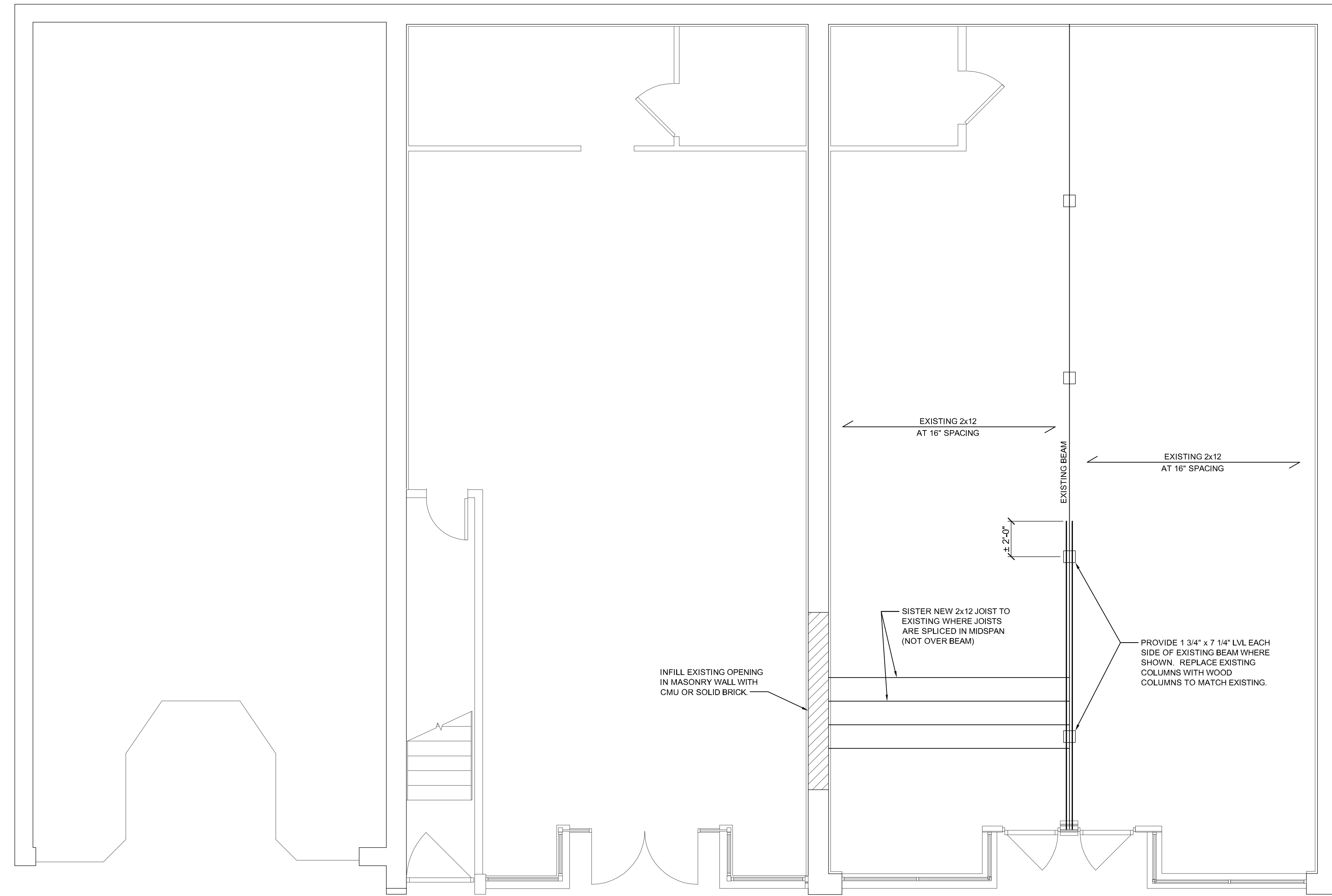
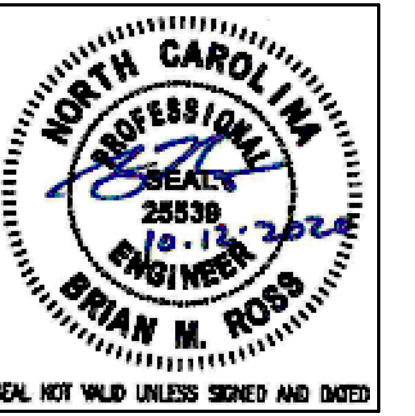
3 WEST ELEVATION DEMO
SCALE: 3/16" = 1'-0"



2 SOUTH ELEVATION NEW
SCALE: 3/16" = 1'-0"



1 SOUTH ELEVATION DEMO
SCALE: 3/16" = 1'-0"



1 STRUCTURAL RENOVATION PLAN - 2ND FLOOR FRAMING
S1 1/4" = 1'-0"



DATE	10/12/2020
DR.	BR
CH.	BR/DM
PROJ. #	C200905
REVISIONS	DATE

STRUCTURAL
RENOVATION PLAN

S1

STRUCTURAL NOTES

I. GENERAL

1. DESIGN CODES
 - NORTH CAROLINA BUILDING CODE, 2018 EDITION (AMENDED 2015 INTERNATIONAL BUILDING CODE)
 - ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
 - AISC MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN NINTH EDITION
 - ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
2. DESIGN LOADS
 - LIVE LOADS: FIRST FLOOR: 100 PSF
SECOND FLOOR: 40 PSF
ROOF: 20 PSF
 - ULTIMATE DESIGN WIND SPEED: 122 MPH
 - GROUND SNOW LOAD 10 PSF
 - SEISMIC DESIGN CATEGORY B
SITE CLASS D
S_s = 0.092
S₁ = 0.049
3. ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION OF 0'-0". SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. DETAILED SHOP DRAWINGS SHALL BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
5. ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY.
6. ROSS LINDEN ENGINEERS PC ASSUMES NO LIABILITY FOR CHANGES OR MODIFICATIONS MADE TO THESE DRAWINGS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THESE DRAWINGS.

II. MASONRY

1. MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530.1-02/ASCE 6-02 "SPECIFICATION FOR MASONRY STRUCTURES."
2. ASSUMED MASONRY PROPERTIES: UNIT COMPRESSIVE STRENGTH 1900 PSI, TYPE S MORTAR, PARTIAL GROUT, RUNNING BOND.
3. ALL DOWELS WHICH ARE TO BE DRILLED AND GROUTED INTO EXISTING CONCRETE OR MASONRY SHALL BE DONE WITH AN EPOXY GROUT. DRILL HOLE WITH DIAMETER 1/8" LARGER THAN DOWEL OR AS RECOMMENDED BY GROUT SUPPLIER. USE HIT HY 270 BY HILTI OR APPROVED EQUAL.

III. STRUCTURAL STEEL

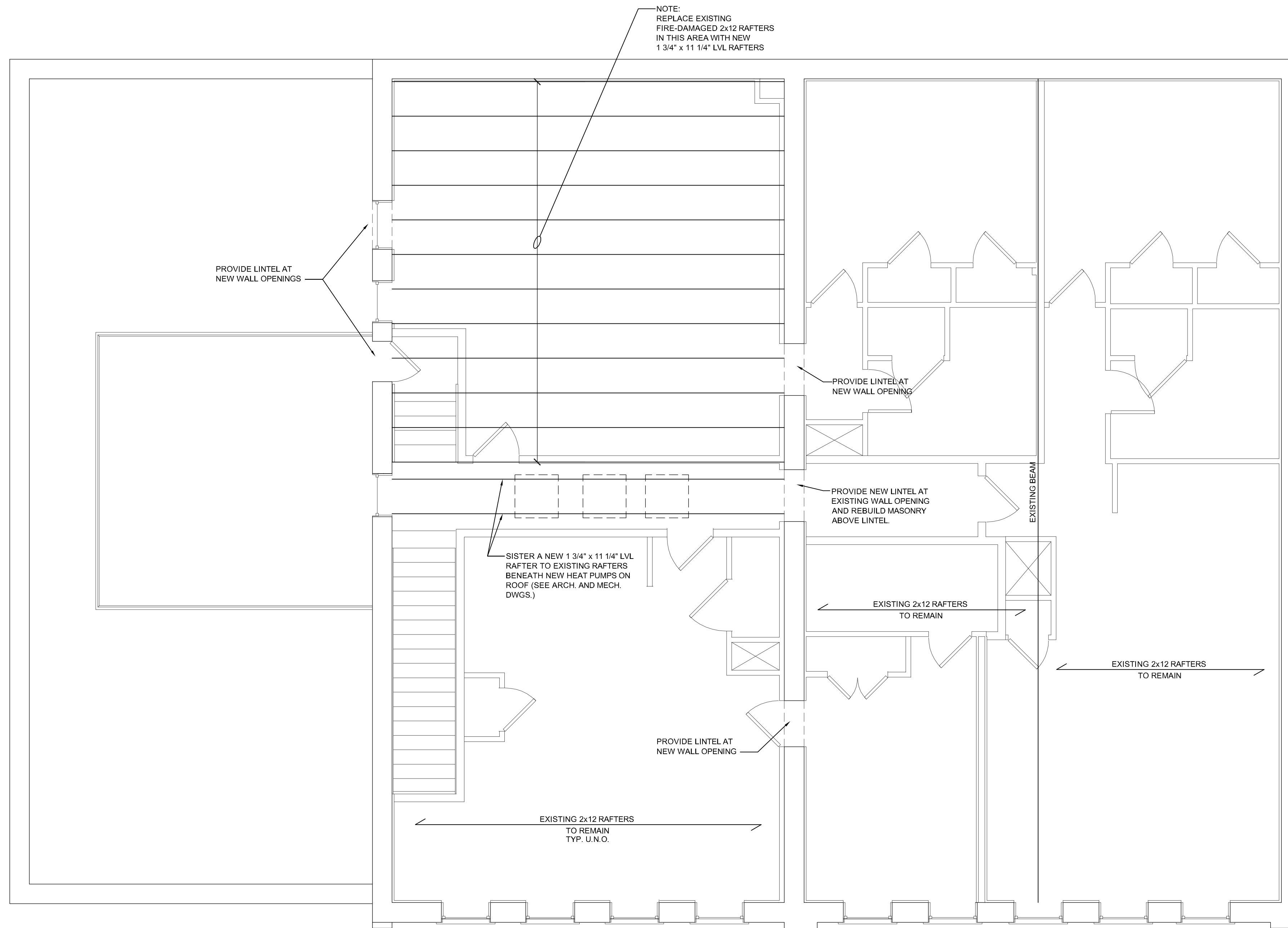
1. ALL STRUCTURAL STEEL WIDE FLANGE BEAMS AND COLUMNS, UNLESS NOTED, SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992 OR ASTM A572, GRADE 50. ANGLES AND CHANNELS SHALL CONFORM TO ASTM A36. TUBES SHALL CONFORM TO ASTM A500, GRADE B.
2. ALL DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SPECIFICATIONS FOR BUILDINGS, LATEST EDITION.
3. UNLESS OTHERWISE NOTED, ALL SHOP CONNECTIONS SHALL BE MADE BY WELDING OR HIGH STRENGTH BOLTING. (3/4" DIAMETER BOLTS, MINIMUM)
4. WELDS SHALL BE MADE WITH E-70XX ELECTRODES BY CERTIFIED WELDERS.
5. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATIONS ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND THEREFORE REQUIRES ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.

IV. WOOD

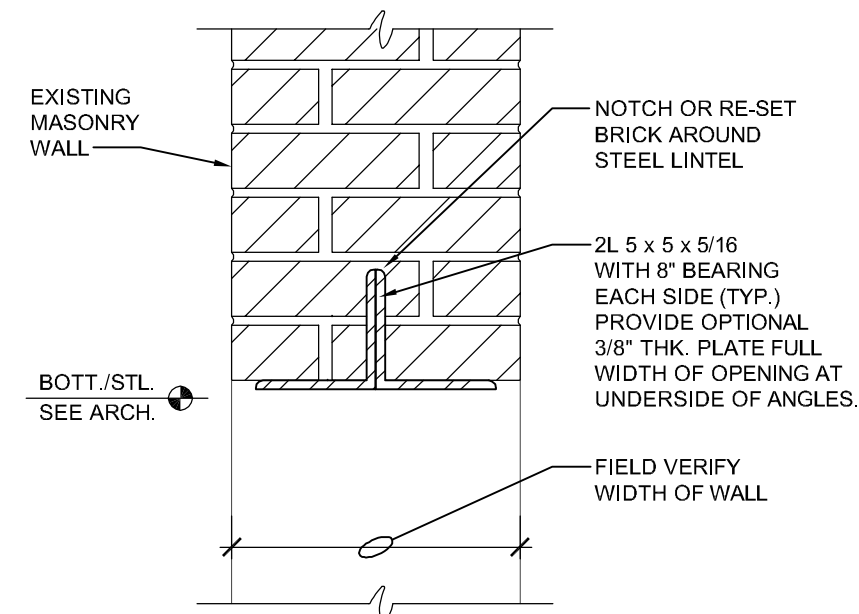
1. FRAMING LUMBER SHALL BE #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES:
F_b = 800 PSI F_v = 175 PSI E = 1,466 PSI
2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #2 SOUTHERN YELLOW PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN PROPERTIES:
F_b = 800 PSI F_v = 175 PSI E = 1,466 PSI
3. ENGINEERED WOOD BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL) WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
F_b = 2600 PSI F_v = 285 PSI E = 1,966 PSI
4. ENGINEERED WOOD BEAMS SHALL BE INSTALLED WITH ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

ABBREVIATIONS

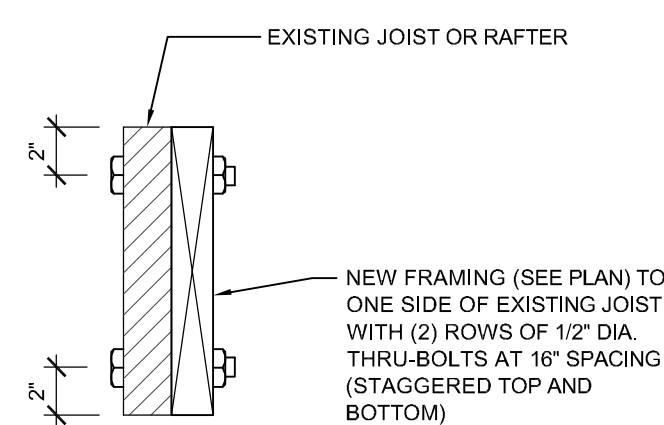
CONC	CONCRETE
CONT	CONTINUOUS
DBL	DOUBLE
DJ	DOUBLE JOIST
DSP	DOUBLE STUD POCKET
EA	EACH
FL PT	FLAT PLATE
FTG	FOOTING
HGR	HANGER
LVL	LAMINATED VENEER LUMBER
NTS	NOT TO SCALE
OC	ON CENTER
PT	PRESSURE TREATED
RS	RAFTER SUPPORT
SC	STUD COLUMN
SP	STUD POCKET
TJ	TRIPLE JOIST
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
XJ	EXTRA JOIST



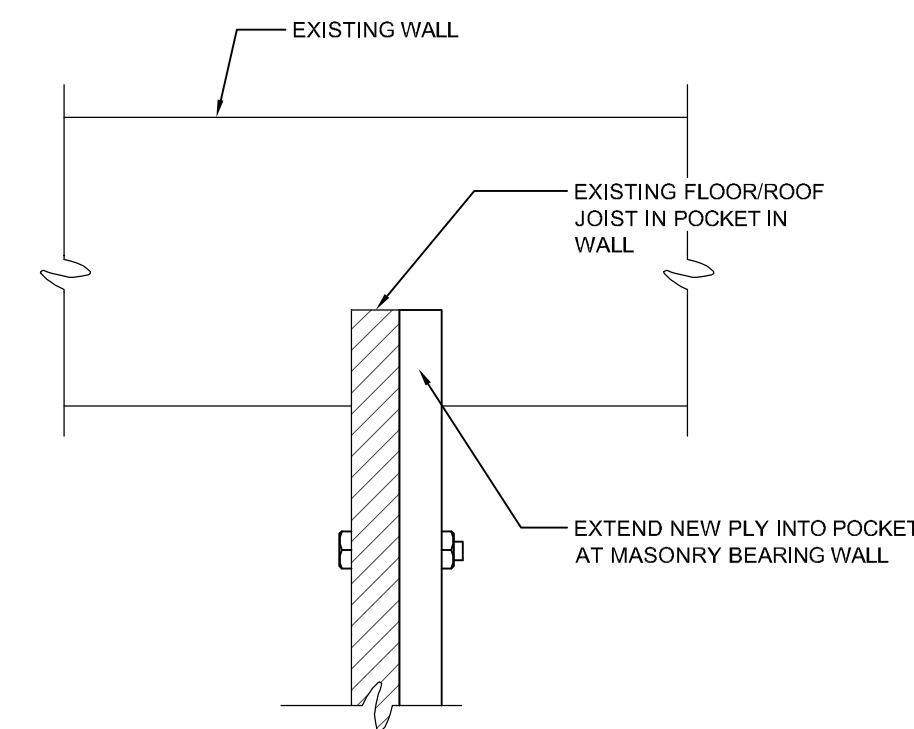
1 STRUCTURAL RENOVATION PLAN - ROOF FRAMING
S2 1/4" = 1'-0"



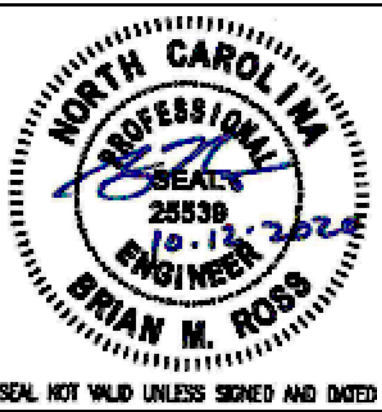
2 TYP. LINTEL DETAIL
S2 1 1/2" = 1'-0" MAX. 3'-0" OPENING AT SECOND FLOOR



3 JOIST/RAFTER REINFORCEMENT DETAIL
S2 1 1/2" = 1'-0"



4 JOIST/RAFTER BEARING DETAIL
S2 1 1/2" = 1'-0"



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WALL LEGEND

	EXISTING WALL TO REMAIN	EXISTING WALL TO BE REMOVED	NEW WALL	
1.1E				EXISTING MASONRY WALL WITH INTERIOR PLASTER FINISH
1.2				NEW STOREFRONT BASE WALL - 2X4 WOOD STUD WITH 5/8" INTERIOR AND 1/2" AIR GAP WITH 1 WYTHE RUNNING BOND BRICK. NEW BRICK TO MATCH EXISTING. - 8 3/4" THICK.
2.1E				EXISTING INTERIOR STUD WALL
2.2				NEW INTERIOR WALL - 2X4 STUDS @ 16" OC WITH 1/2" GWB EACH SIDE. TO CEILING ABOVE. ALL TOILET ROOM WALLS TO HAVE 3 1/2" SOUND BATT INSULATION. 4 1/2" THICK.
3.1R				NEW INTERIOR 1 HOUR RATED FIRE PARTITION - 2X4 STAGGERED STUDS @ 16" OC ON 2X6 TOP AND BOTTOM PLATES WITH 5/8" TYPE "X" GWB EACH SIDE. TO DECK ABOVE. UL U340. 6 3/4" THICK.
3.2				NEW INTERIOR WALL - 2X6 WOOD STUDS @ 16" OC WITH 1/2" GWB EACH SIDE. TOILET ROOMS WALLS TO HAVE 3 1/2" SOUND BATT INSULATION. 6 1/2" THICK
4.1				NEW FURRING - 2X4 WOOD STUDS TURNED FLAT WITH 1/2" GWB ONE SIDE. 2" THICK.
4.2				NEW FURRING - 2X4 WOOD STUDS WITH 1/2" GWB ONE SIDE. 4" THICK.

+CONFIRM DIMENSIONS OF EXISTING WALLS.
+FURR WALLS AS NEEDED.

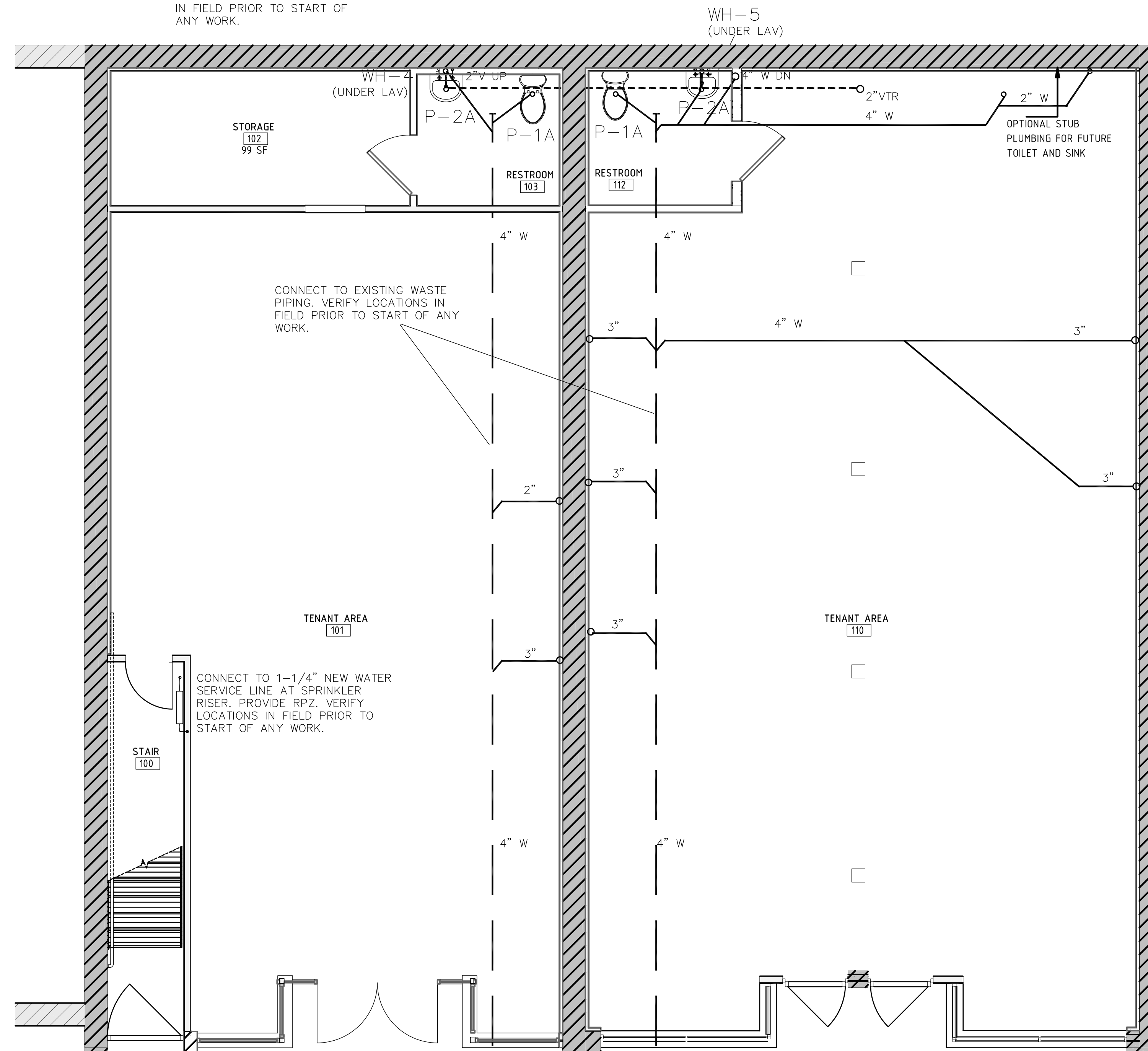
+DIMENSIONS TAKEN AT EXISTING WALLS ARE TO EXISTING FINISH FACE WALL
+DIMENSIONS TAKEN AT NEW WALLS ARE TO FACE OF STUD

VERIFY WITH OWNER PRIOR TO PURCHASE. ALL FIXTURES OR EQUAL.

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE	DESCRIPTION	COLD WATER	HOT WATER	WASTE	VENT
P-1	WATER CLOSET	VITREOUS CHINA, BOTTOM OUTLET, FLOOR MOUNTED, CLOSED-COUPLED TANK, ELONGATED BOWL, COMPLETE WITH WATER SAVER TRIM, OPEN SEAT, SUPPLIES, AND STOPS. MANSFIELD 135-160 OR EQUAL.	1/2"	-	3"	2"
P-1A	WATER CLOSET	VITREOUS CHINA, BOTTOM OUTLET, FLOOR MOUNTED, CLOSED-COUPLED TANK, ELONGATED BOWL, COMPLETE WITH WATER SAVER TRIM, OPEN SEAT, SUPPLIES, AND STOPS. MANSFIELD 137-160 OR EQUAL.	1/2"	-	3"	2"
P-2	LAVATORY	BRIGGS NO. 6534 "ALTIMA" 20" x 17" VITREOUS CHINA, SELF RIM LAVATORY, WHITE WITH SAYCO 484 SINGLE LEVER FAUCET AND POP-UP DRAIN. OR EQUAL.	1/2"	1/2"	1 1/2"	1 1/2"
P-2A	LAVATORY	VITREOUS CHINA, WALL HUNG LAVATORY, FRONT OVERFLOW, SOAP DEPRESSIONS, DRILLED FOR 4" CENTER SET, SINGLE LEVER HANDLE, AERATOR, TAILPIECE WITH P-TRAP, POP-UP DRAIN, AND SUPPLIES AND ESCUTCHEONS. BRIGGS 6620 WITH MOEN 8414 OR EQUAL.	1/2"	1/2"	1 1/2"	1 1/2"
P-3	TUB/ SHOWER UNIT	AMER STD 6030Y2AK, WHITE MOLDED FIBERGLASS UNIT W/ INTEGRAL GRAB BARS WITH DELTA 1688 SINGLE LEVER PRESSURE BALANCE VALVE / SHOWER AND MODEL RP391 BATH WASTE DRAIN, CHROME FINISH. OR EQUAL.	1/2"	1/2"	2"	1 1/2"
P-4	KITCHEN SINK	ELKAY "GOURMET" NO. LRAD3319 STAINLESS STEEL 18 GA. WITH DELTA 400 SINGLE LEVER DECK FAUCET W/ SPRAY ATTACHMENT. OR EQUAL. PROVIDE HOT WATER AND WASTE CONNECTIONS TO DISHWASHER.	1/2"	1/2"	1 1/2"	1 1/2"
P-5	WASHER CONN. BOX	PLASTIC, RECESSED W/ HOT & COLD WATER SUPPLY AND STANDPIPE DRAIN BY GUY GREY ASSE 1010 WH ARRESTOR IF COPPER PIPING	1/2"	1/2"	3"	1 1/2"
P-6	ICE MAKER	PLASTIC, RECESSED WITH SHUT-OFF VALVE ASSE 1010 WH ARRESTOR IF COPPER PIPING	1/2"	-	-	-
WH1 WH2 WH3	HOT WATER HEATER	RHEEM MODEL #RHES-PRO-40-2, 40 GALLON ELECTRIC WITH DUAL 4500 WATT ELEMENTS, SHORT. OR EQUAL.	3/4"	3/4"	-	-
WH4 WH5	HOT WATER HEATER	INSTANTANEOUS WATER HEATER: 1500KW, 120V, 12.5A, TEMPERATURE AND PRESSURE RELIEF VALVE. ARISTON 24 OR APPROVED EQUAL.	1/2"	1/2"	-	-

LEGEND	
COLD WATER PIPING	
HOT WATER PIPING	
SANITARY SEWER PIPING	
VENT PIPING	
SANITARY SEWER PIPING	
VENT THROUGH ROOF	VTR
CLEAN OUT	CO
PLUMBING FIXTURE	P-1
APPLIANCE BACKFLOW PREVENTOR	

CONNECT TO EXISTING CW AND WASTE PIPING. VERIFY LOCATIONS IN FIELD PRIOR TO START OF ANY WORK.



1 FIRST FLOOR PLAN
P1.1

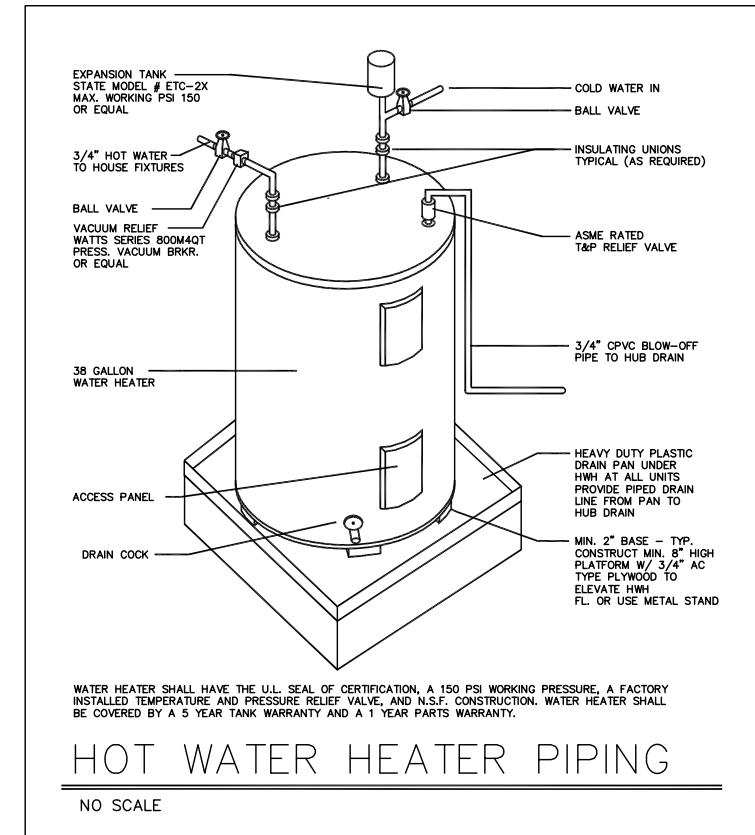
1/4" = 1'-0"



DATE	08.25.2020
DR.	EDV
CH.	DSM
PROJ. #	20013.2
REVISIONS	DATE

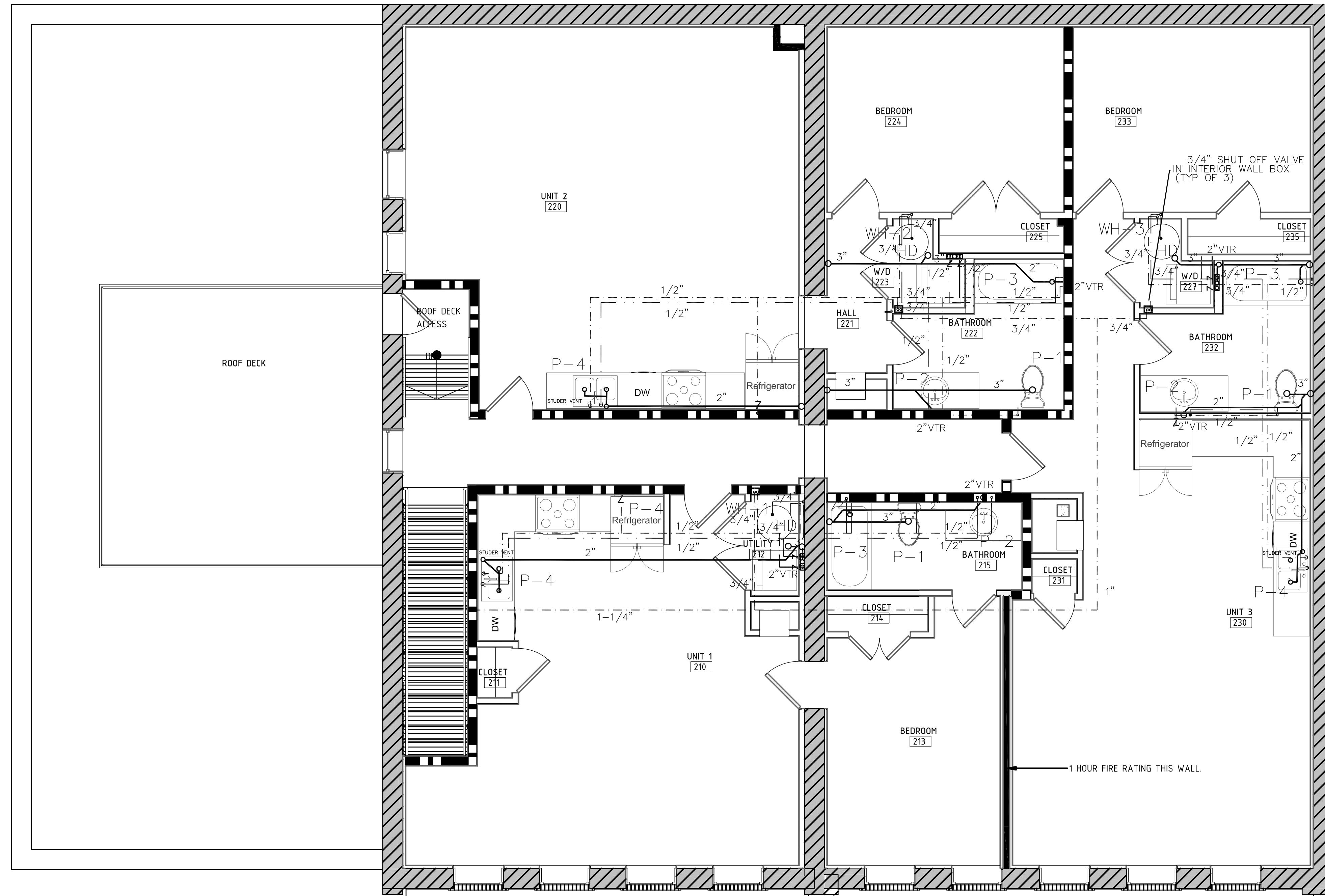


ALL PIPING SERVING THE SECOND FLOOR TO BE INSTALLED WITH THE REMOVAL OF FLOOR BOARDS. VERIFY EXISTING FLOOR STRUCTURE LOCATIONS FOR BEST PIPING ROUTES. FIRST FLOOR CEILING TO REMAIN UNDISTURBED. ALL WATER AND SEWER DROPS TO BE INSTALLED IN WALLS. VERIFY LOCATIONS IN FIELD PRIOR TO START OF ANY WORK.



PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL STATE AND LOCAL PLUMBING AND BUILDING CODES.
2. ALL EXCAVATION, BACKFILL, CUTTING AND PATCHING OF SURFACES TO BE BY PLUMBING CONTRACTOR. ALL WORK TO BE PERFORMED SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
3. PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NC PLUMBING CODE. WATER TEST FOR 1 HOUR AT 150 PSI. APPLY 10 FEET OF HYDROSTATIC HEAD TO ALL PARTS OF DRAINAGE SYSTEM. WATER SUPPLY SYSTEM SHALL BE STERILIZED WITH A CHLORINE SOLUTION.
4. PROVIDE ARCHITECT WITH SUBMITTAL DATA ON ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE.
5. THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO INSTALLATION OF ANY OF HIS PLUMBING SYSTEM.
6. THE PLUMBING CONTRACTOR SHALL GUARANTEE AND WARRANT FOR A PERIOD OF TWELVE MONTHS AGAINST FAULTY WORKMANSHIP OR MATERIAL.
7. INSTALL PLUMBING SYSTEM IN ACCORDANCE WITH PLANS WHEREVER POSSIBLE. IF BETTER PIPE ROUTING BECOMES EVIDENT DURING CONSTRUCTION, INSTALL AT LOCATIONS MOST ECONOMICAL AND PRACTICAL. COORDINATE WITH ENGINEER IF NECESSARY.
8. WATER PIPING ABOVE GRADE SHALL BE TYPE L COPPER WITH WROUGHT COPPER FITTINGS. WATER PIPING BELOW GRADE SHALL BE TYPE K SOFT COPPER WITH NO JOINTS BELOW GRADE. ALL JOINTS MADE WITH 95-5 TIN ANTIMONY LEAD FREE SOLDER. VALVES SHALL BE EQUAL TO APOLLO 70-200 SERIES WITH SOLDER ENDS. ALL WATER SUPPLY LINES SHALL BE SECURELY FASTENED TO FRAMING MEMBERS AT 6" O.C. MAX. WATER PIPING MAY BE CROSS LINKED POLYETHYLENE (PEX) TYPE PLASTIC W/ COPPER CRIMP RINGS AS APPROVED BY LOCAL OFFICIALS. NO JOINTS SHALL OCCUR BELOW GRADE. PEX PIPING SHALL MEET ALL ASTM, NSF AND CSA STANDARDS.
9. WASTE AND VENT PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC-DWV PIPE AND FITTINGS CONFORMING TO ASTM D-2665-87.
10. INSULATION SHALL BE EQUAL TO ARMAFLEX FLEXIBLE ELASTOMIC THERMAL INSULATION, BLACK IN COLOR, FLAME SPREAD RATING OF 25 OR LESS AND SMOKE RATING OF 50 OR LESS. HOT WATER: 1"; COLD WATER: 1". ALL PIPING LOCATED IN EXTERIOR WALLS OR UNINSULATED SPACES SHALL BE INSULATED. PROVIDE SHEET METAL SHIELD BETWEEN INSULATION AND HANGERS. FITTINGS AND VALVE BODIES SHALL BE INSULATED WITH MITRED SECTIONS OF SAME MATERIAL AS PIPING. DO NOT USE PVC ZIP JACKETS.
11. PLUMBING CONTRACTOR SHALL CAREFULLY LAYOUT ALL PIPING TO AVOID INVERT CONFLICTS. SEE SITE PLANS.
12. A WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK CLOSING VALVES ARE UTILIZED. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010 AND BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
13. IF WATER PRESSURE AT ENTRANCE TO THE BUILDING EXCEEDS 80 PSI, THE PLUMBING CONTR. SHALL PROVIDE AND INSTALL A PRESSURE REDUCING VALVE.
14. PROVIDE 2" MINIMUM GAP BETWEEN DRAIN PIPE FROM EQUIPMENT TO RIM OF WASTE PIPE OR INSTALL A VACUUM BREAKER



1 SECOND FLOOR PLAN
PT. 2

1/4" = 1'-0"

INTERIOR ALTERATION
606-610 FEARING ST
ELIZABETH CITY, NC

DATE	08.25.2020
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PLUMBING
SECOND FLOOR
PLAN & DETAILS

P1.2



DATE	08.25.2020
DR.	EDV
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WALL LEGEND

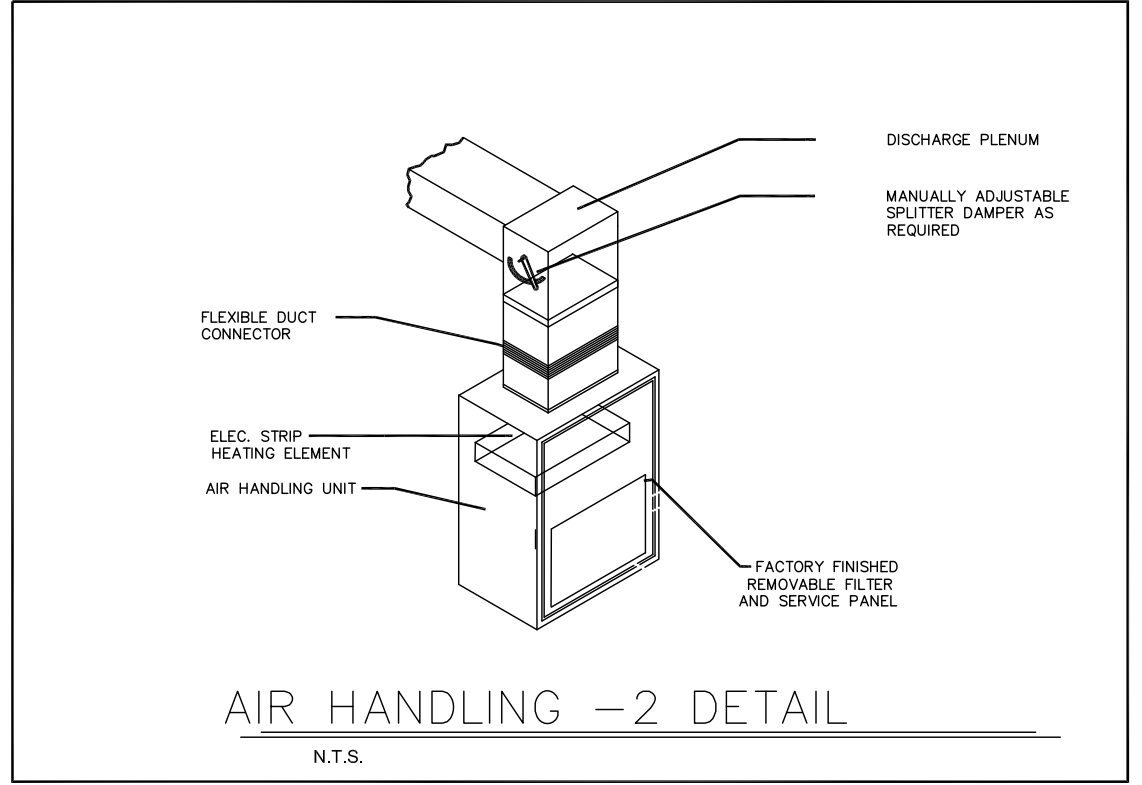
	EXISTING WALL TO REMAIN		EXISTING WALL TO BE REMOVED		NEW WALL
1.1E	EXISTING MASONRY WALL WITH INTERIOR PLASTER FINISH				
1.2	NEW STOREFRONT BASE WALL - 2X4 WOOD STUD WITH 5/8" INTERIOR AND 1/2" AIR GAP WITH 1 WYTHE RUNNING BOND BRICK. NEW BRICK TO MATCH EXISTING. - 8 3/4" THICK.				
2.1E	EXISTING INTERIOR STUD WALL				
2.2	NEW INTERIOR WALL - 2X4 STUDS @ 16" OC WITH 1/2" GWB EACH SIDE. TO CEILING ABOVE. ALL TOILET ROOM WALLS TO HAVE 3 1/2" SOUND BATT INSULATION. 4 1/2" THICK.				
3.1R	NEW INTERIOR 1 HOUR RATED FIRE PARTITION - 2X4 STAGGERED STUDS @ 16" OC ON 2X6 TOP AND BOTTOM PLATES WITH 5/8" TYPE "X" GWB EACH SIDE. TO DECK ABOVE. UL U340. 6 3/4" THICK.				
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4.1	NEW FURRING - 2X4 WOOD STUDS TURNED FLAT WITH 1/2" GWB ONE SIDE. 2" THICK.				
4.2	NEW FURRING - 2X4 WOOD STUDS WITH 1/2" GWB ONE SIDE. 4" THICK.				

*CONFIRM DIMENSIONS OF EXISTING WALLS.
*FURR WALLS AS NEEDED.

*DIMENSIONS TAKEN AT EXISTING WALLS ARE TO EXISTING FINISH FACE WALL
*DIMENSIONS TAKEN AT NEW WALLS ARE TO FACE OF STUD

LEGEND

AIR HANDLER MARK	AHU-1
HEAT PUMP UNIT MARK	HP-1
SUPPLY REGISTER MARK	
RETURN GRILLE MARK	
DIFFUSER TYPE/CFM	A 200
RIGID DUCTWORK	
FLEXIBLE DUCTWORK	
THERMOSTAT	T
EXHAUST FAN MARK	EF-1



- GENERAL NOTES:**
- ALL DUCT SIZES ARE FREE AREA SIZES. ALLOW FOR INTERNAL INSULATION.
 - ALL FLEXIBLE DUCT CONNECTIONS TO HAVE MANUFACTURED SPIN-IN FITTINGS WITH DAMPER, EXTRACTOR, AND MANUAL LOCKING QUADRANT.
 - PROVIDE A PROGRAMMABLE HEAT/COOL THERMOSTAT FOR EACH UNIT WITH SUBBASE.
 - THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS EQUIPMENT, DUCTWORK, OR PIPING.
 - ALL WORK SHALL CONFORM TO ALL LOCAL, STATE, AND NATIONAL CODES. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
 - THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK.
 - THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT EQUIPMENT. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
 - ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER THIS CONTRACT. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING FOR HIS EQUIPMENT.
 - DUCTWORK AS SHOWN ON THE DRAWINGS IS STRICTLY DIAGRAMMATIC. COORDINATE EXACT LOCATION WITH THE BUILDING STRUCTURE.
 - PROVIDE A COMPLETE 1-YEAR WARRANTY OF ALL LABOR AND MATERIALS. ALSO PROVIDE MANUFACTURER'S PUBLISHED 5-YEAR NON PRO-RATED COMPRESSOR WARRANTY.
 - THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS PRIOR TO INSTALLATION OF ANY MECHANICAL SYSTEMS AND SHALL RESOLVE ANY CONFLICTS WITH THE ENGINEER.
 - IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. BE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE TRUE INTENT AND MEANING OF THE DRAWINGS.
 - EACH UNIT SHALL BE PROPERLY TESTED AND BALANCED TO WITHIN +/- 10% PROVIDE WRITTEN REPORT TO ENGINEER PRIOR TO FINAL INSPECTION.
 - REPLACE ALL FILTERS JUST PRIOR TO ACCEPTANCE BY THE OWNER.
 - INSTALL FLEXIBLE DUCT CONNECTIONS AT THE SUPPLY AND RETURN DUCTWORK CONNECTIONS TO UNITS.
 - ALL DUCT TO BE CONSTRUCTED OF GALVANIZED STEEL SHEETS, IN ACCORDANCE WITH SMACNA GAGES AND STANDARDS. EXPOSED ROUND SUPPLY SHALL BE FACTORY FABRICATED PF 28-GAUGE MIN. WITH SPIRAL LOCKSEAM. ALL DUCTS JOINTS SHALL BE SEALED AIRTIGHT. ALL SQUARE BENDS OR ELBOW FITTINGS SHALL HAVE TURNING VANES. PROVIDE SPITTER DAMPERS AT SUPPLY TEES AND EXTRACTORS AT ALL SUPPLY AIR BRANCHES AND RIGID TAKEOFFS. PROVIDE MANUAL BALANCING DAMPERS IN ALL DUCTS WHERE REQUIRED FOR SYSTEM BALANCING OR AS SHOWN.
 - FLEXIBLE DUCT SHALL BE INSULATED, SOUND ATTENUATING, LOW VELOCITY TYPE AND SHALL COMPLY WITH NFPA 90A AND 90B. FLEXIBLE DUCT SHALL BE UL LISTED, CLASS 1 INSULATED TYPE, RATED FOR A MINIMUM OF 4" POSITIVE STATIC AND A MINIMUM OF 1" NEGATIVE STATIC PRESSURE. FLEXIBLE DUCT SHALL BE FACTORY-FORMED, COMPOSED OF SPIRAL WOUND, CORROSION RESISTANT WIRE BONDED TO AN INNER FABRIC LINER, COVERED WITH INSULATION WITH A VAPOR BARRIER. INSULATION R-VALUES PER THE NC ENERGY CODE.
 - INSULATION SHALL BE 1 LB. DENSITY GLASS FIBER WITH FIRE-RETARDANT FOIL-SCRIM KRAFT JACKET THERMAL CONDUCTIVITY SHALL NOT EXCEED 0.29 AT 75 DEGREES F INSULATION. R-VALUES SHALL BE IN COMPLIANCE WITH NC ENERGY CODE.
 - PROVIDE 1" DRAIN LINE FROM AHUS TO OUTSIDE DRYWELL. PROVIDE WITH TRAP AS RECOMMENDED BY UNIT MANUFACTURER. PROVIDE WITH 2" AIR GAP, INSECT SCREEN, ELBOW DOWN. DRAIN LINE SHALL BE PVC. PROVIDE CONDENSATE REMOVAL PUMPS AS NEEDED.

OUTDOOR AIR REQUIREMENTS

RETAIL 101:
PEOPLE: 976 FT. ² X 15 PEOPLE/1000FT. ² = 15 PEOPLE
AREA: 7.5 CFM/PERSON X 15 PEOPLE = 112.5 CFM
976 FT. ² X .12 CFM/FT. ² = 117 CFM
TOTAL MIN O.A. REQUIRED: 230 CFM
RETAIL 110:
PEOPLE: 1315 FT. ² X 15 PEOPLE/1000FT. ² = 20 PEOPLE
AREA: 7.5 CFM/PERSON X 20 PEOPLE = 150 CFM
1315 FT. ² X .12 CFM/FT. ² = 158 CFM
TOTAL MIN O.A. REQUIRED: 308 CFM

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
METHOD OF COMPLIANCE: TENANT SPACE 101

X Prescriptive Energy Cost Budget

Thermal Zone 3A

Exterior design conditions
winter dry bulb 18 degrees
summer dry bulb 93 degrees

Interior design conditions
winter dry bulb 70 degrees
summer dry bulb 75 degrees
relative humidity 50 %

Building heating load 21,500 BTUH
Building cooling load 36,600 BTUH

Mechanical Spacing Conditioning System
Unitary

THE CONDITIONED AREA IS TO BE HEATED AND COOLED BY ONE HEAT PUMP UNIT WITH AIR HANDLER/STRIP HEATERS. EFFICIENCIES AND OUTPUTS FOR HEATING AND COOLING ARE LISTED IN THE SCHEDULES.

DESIGNER STATEMENT:
To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Building Code, ENERGY.

SIGNED: Elizabeth D. Van Noordt

NAME: Elizabeth D. Van Noordt, PE
TITLE: Design Engineer

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
METHOD OF COMPLIANCE: TENANT SPACE 110

X Prescriptive Energy Cost Budget

Thermal Zone 3A

Exterior design conditions
winter dry bulb 18 degrees
summer dry bulb 93 degrees

Interior design conditions
winter dry bulb 70 degrees
summer dry bulb 75 degrees
relative humidity 50 %

Building heating load 28,300 BTUH
Building cooling load 48,800 BTUH

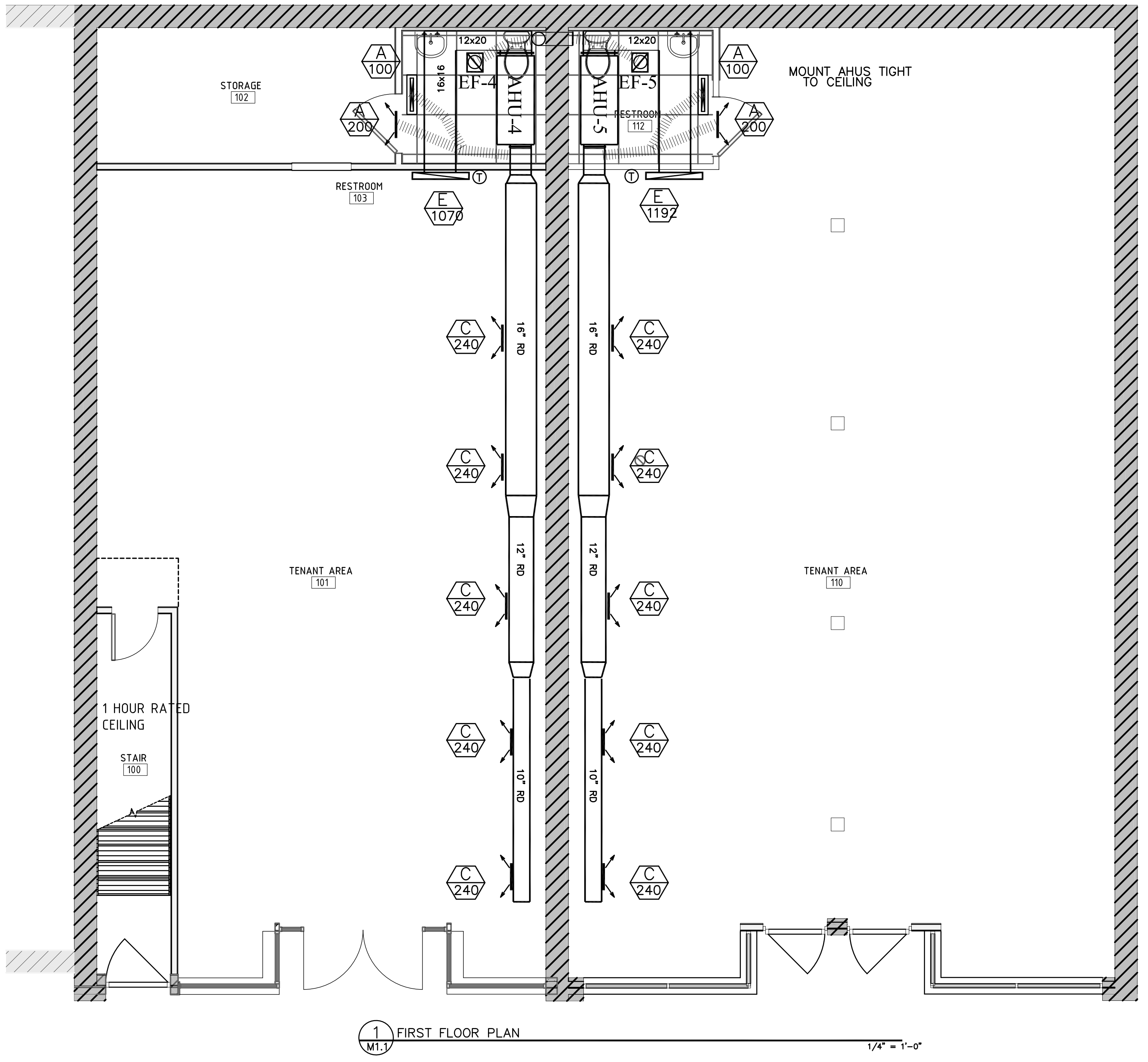
Mechanical Spacing Conditioning System
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SIGNED: Elizabeth D. Van Noordt

NAME: Elizabeth D. Van Noordt, PE
TITLE: Design Engineer



1 FIRST FLOOR PLAN
M1.1



HEAT PUMP UNIT SCHEDULE

TAG	COOLING	HIGH HEATING	MANF/MODEL	SEER	COP	ELECTRICAL	NOTES
HP-1	18.0	18.0	GOODMAN GSZ16181AA	16.0	4.0	240V/1PHASE-12.2 MCA-20 A FUSE	①
HP-2	18.0	18.0	GOODMAN GSZ16181AA	16.0	4.0	240V/1PHASE-12.2 MCA-20 A FUSE	①
HP-3	18.0	18.0	GOODMAN GSZ16181AA	16.0	4.0	240V/1PHASE-12.2 MCA-20 A FUSE	①
HP-4	45.5	47.5	GOODMAN GSZ16421AA	16.0	3.75	240V/1PHASE-22.3 MCA-35 A FUSE	②
HP-5	45.5	47.5	GOODMAN GSZ16481AA	16.0	3.75	240V/1PHASE-26.2 MCA-45 A FUSE	②

- ① PROVIDE WITH, COMPRESSOR START ASSIST, ISOLATION RELAY, CRANKCASE HEATER, FREEZESTAT.
- ② PROVIDE WITH LOW-AMBIENT PRESSURE SWITCH KIT, COMPRESSOR START ASSIST, ISOLATION RELAY, CRANKCASE HEATER, FREEZESTAT. PROVIDE LONG-LINE KIT, IF NECESSARY.

AIR HANDLING UNIT SCHEDULE

TAG	SUPPLY CFM	OA CFM	COOLING		HEATING		ELECTRICAL	MANF/MODEL	NOTES
			TOT MBH	SEN MBH	TOT MBH	KW			
AHU-1	600	N/A	15.3	11.7	32.7	5	240/1 PHASE-26.6 MCA-30 A FUSE	GOODMAN AWUF180516B	
AHU-2	600	N/A	15.3	11.7	32.7	5	240/1 PHASE-26.6 MCA-30 A FUSE	GOODMAN AWUF180516B	
AHU-3	600	N/A	15.3	11.7	32.7	5	240/1 PHASE-26.6 MCA-30 A FUSE	GOODMAN AWUF180516B	
AHU-4	1300	230	38.6	26.2	21.5	8	240/1 PHASE-46 MCA-50A FUSE	GOODMAN ARUF43B14	①
AHU-5	1500	308	48.8	32.1	28.3	10	240/1 PHASE-54 MCA-60 A FUSE	GOODMAN ARUF49B14	②

- ① INCLUDES HKSX08CBAA 8 KW/240V/1 PH HEATER WITH SINGLE LINE POWER
- ② INCLUDES HKSX10CBAA 10 KW/240V/1 PH HEATER WITH SINGLE LINE POWER

FAN SCHEDULE

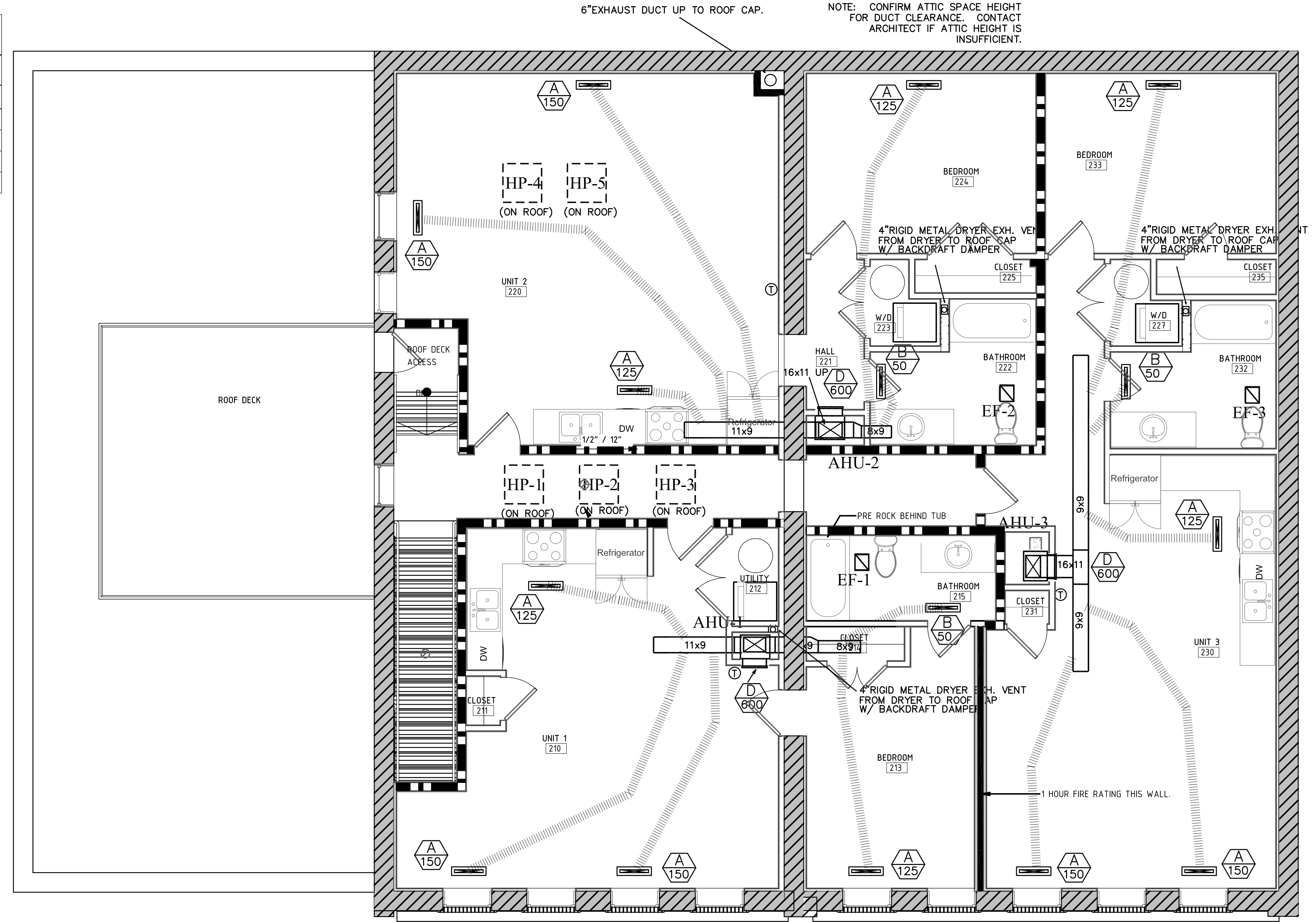
TAG	CFM	EXT. S.P.	DRIVE	WATTS	VOLTS/PH	MANF/MODEL	NOTES
EF-1	70	. 2"	DIRECT	25	120/1	NUTONE 671	① ②
EF-2	70	. 2"	DIRECT	25	120/1	NUTONE 671	① ②
EF-3	70	. 2"	DIRECT	25	120/1	NUTONE 671	① ②
EF-4	110	. 2"	DIRECT	25	120/1	NUTONE QTXEN110	① ②
EF-5	110	. 2"	DIRECT	25	120/1	NUTONE QTXEN110	① ②

- ① PROVIDE WITH FACTORY ROOF CAP, BACKDRAFT DAMPER AND DISCONNECT
- ② PROVIDE WITH RIGID DUCT TO MATCH FAN SIZE.

AIR DISTRIBUTION SCHEDULE

TAG	TYPE	FACE SIZE	FINISH	NECK	BASIS OF DESIGN	NOTES
A	SUPPLY	13.75 X 7.75	WHITE	12 X 6	H & C 683	① ②
B	SUPPLY	13.75 X 5.75	WHITE	12 X 4	H & C 683	① ②
C	SUPPLY	13.75 X 7.75	WHITE	12 X 6	H & C SVH	① ② ③
D	RETURN	13.75 X 13.75	WHITE	14 X 18	H & C RH45	④
E	RETURN	31.75 X 19.75	WHITE	30 X 18	H & C RH45	④ ⑤

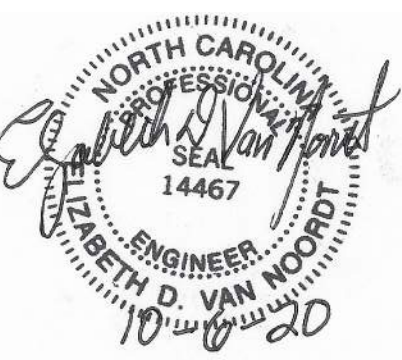
- ① TWO-WAY, CEILING DIFFUSER
- ② PROVIDE WITH OBD
- ③ SPIRAL DUCT SURFACE MOUNTED
- ④ SIDEWALL RETURN
- ⑤ FILTER GRILLE



1 SECOND FLOOR PLAN
1/4" = 1'-0"

INTERIOR ALTERATION
606-610 FEARING ST
ELIZABETH CITY, NC

DATE	08.25.2020
DR.	EDV
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WALL LEGEND

Symbol	Description
	EXISTING WALL TO REMAIN
	EXISTING WALL TO BE REMOVED
	NEW WALL
1.1E	EXISTING MASONRY WALL WITH INTERIOR PLASTER FINISH
1.2	NEW STOREFRONT BASE WALL - 2X4 WOOD STUD WITH 5/8" INTERIOR AND 1/2" AIR GAP WITH 1 WYTHE RUNNING BOND BRICK. NEW BRICK TO MATCH EXISTING. - 8 3/4" THICK.
2.1E	EXISTING INTERIOR STUD WALL
2.2	NEW INTERIOR WALL - 2X4 STUDS @ 16" OC WITH 1/2" GWB EACH SIDE. TO CEILING ABOVE. ALL TOILET ROOM WALLS TO HAVE 3 1/2" SOUND BATT INSULATION. 4 1/2" THICK.
3.1R	NEW INTERIOR 1 HOUR RATED FIRE PARTITION - 2X4 STAGGERED STUDS @ 16" OC ON 2X6 TOP AND BOTTOM PLATES WITH 5/8" TYPE "X" GWB EACH SIDE. TO DECK ABOVE. UL U340. 6 3/4" THICK.
3.2	NEW INTERIOR WALL - 2X6 WOOD STUDS @ 16" OC WITH 1/2" GWB EACH SIDE. TOILET ROOMS WALLS TO HAVE 3 1/2" SOUND BATT INSULATION. 6 1/2" THICK
4.1	NEW FURRING - 2X4 WOOD STUDS TURNED FLAT WITH 1/2" GWB ONE SIDE. 2" THICK.
4.2	NEW FURRING - 2X4 WOOD STUDS WITH 1/2" GWB ONE SIDE. 4" THICK.

*CONFIRM DIMENSIONS OF EXISTING WALLS.
*FURR WALLS AS NEEDED.

*DIMENSIONS TAKEN AT EXISTING WALLS ARE TO EXISTING FINISH FACE WALL
*DIMENSIONS TAKEN AT NEW WALLS ARE TO FACE OF STUD

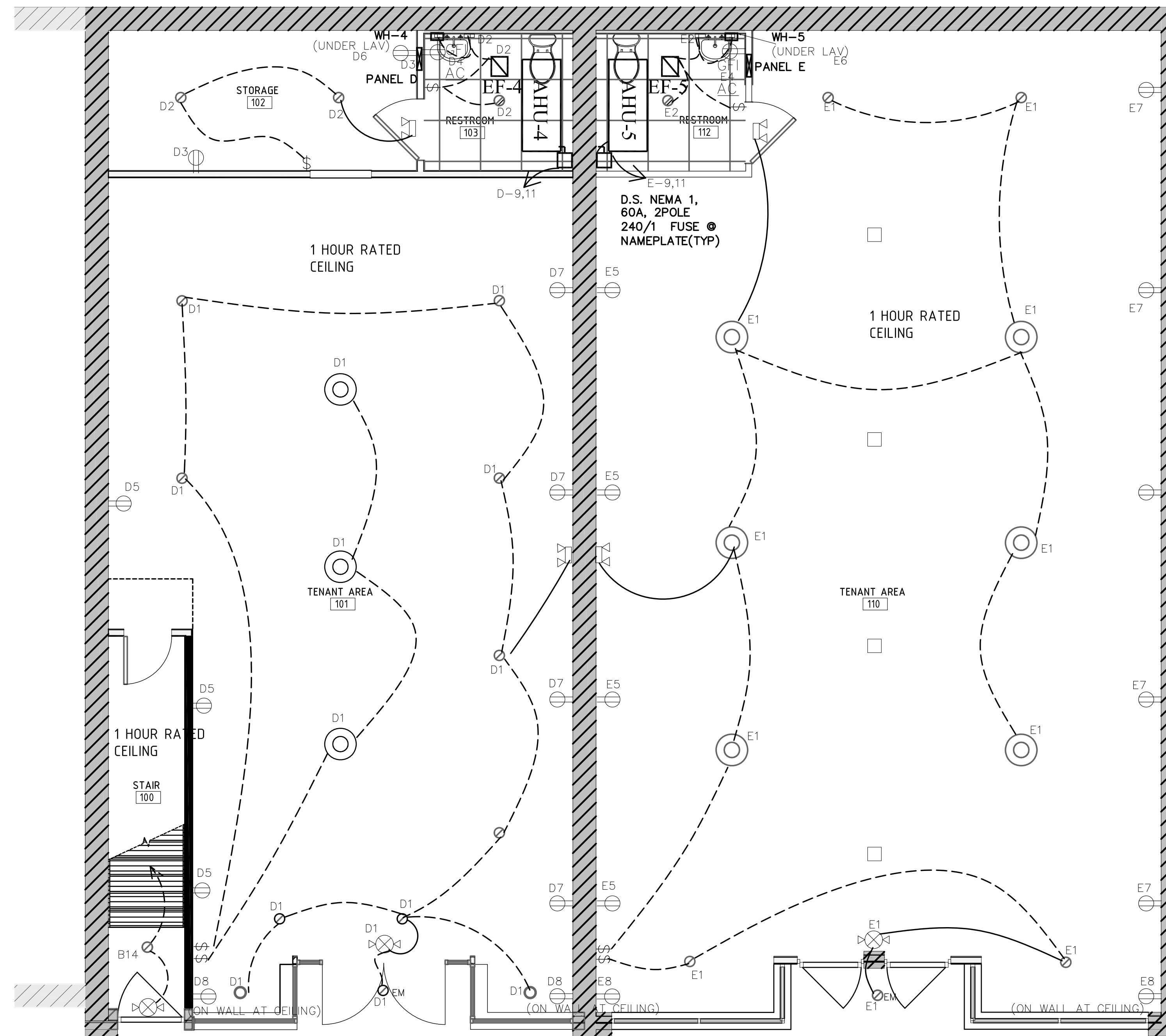
ELECTRICAL LEGEND

	LIGHT SWITCH, MOUNT AT 48" AFF U.N.O.		WALL MOUNTED LIGHT
	3 WAY LIGHT SWITCH, MOUNT AT 48" AFF U.N.O.		LINEAR STRIP LIGHT
	DUPLEX OUTLET, MOUNT AT 18" AFF U.N.O.		N/L NIGHT LIGHT TO REMAIN ON AT ALL TIMES. CIRCUIT BEFORE SWITCHING
	GROUND FAULT INTERRUPTED DUPLEX OUTLET, MOUNT AT 18" AFF U.N.O.		INDICATES "WATERPROOF"
	PENDANT LIGHT		DISCONNECT SWITCH
	PENDANT LIGHT RESIDENTIAL		RECESSED ELECTRICAL PANEL
	RECESSED DOWNLIGHT		RECESSED EMERGENCY DOWNLIGHT, ALWAYS ON WITH BATTERY BACKUP
	PUCK LIGHT		EMERGENCY LIGHT, WALL MTD. DUAL HEAD, W/90 MIN STANDBY BATTERY, 1.5W LED LAMPS
	WALL MOUNTED VANITY LIGHT		EMERGENCY/EXIT LIGHT, WALL MTD. DUAL HEAD
	WALL MOUNTED EXTERIOR LIGHT		EXHAUST FAN
	SURFACE MOUNTED LIGHT		SWITCHED CIRCUIT
	CEILING FAN		UNSWITCHED CIRCUIT

NOTE: ALL ELECTRICAL INCLUDING LIGHT FIXTURES, CATV, PHONE TO BE VERIFIED WITH OWNER/BUILDER PRIOR TO ROUGH-IN

ELECTRICAL NOTES:

- THE INTENT OF THESE PLANS AND SPECIFICATIONS IS TO PROVIDE A COMPLETE OPERABLE ELECTRICAL DISTRIBUTION SYSTEM. ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES. ELECTRICAL CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CODE CONFLICTS IN WRITING PRIOR TO RECEIPT OF BIDS.
- THIS CONTRACT INCLUDES COMPLETE SERVICE FROM UTILITY POINT OF DELIVERY. ALL EQUIPMENT TO BE SERVICE ENTRY RATED AND LABELED, UNLESS OTHERWISE INDICATED. ALL EQUIPMENT TO BE RATED FOR EXPECTED MAXIMUM AIC FAULT CURRENT.
- THIS CONTRACT INCLUDES ALL NECESSARY PERMIT FEES AND TAX.
- THIS CONTRACT INCLUDES COMPLETE ONE-YEAR WARRANTY ON ALL MATERIAL AND WORKMANSHIP FROM DATE OF COMPLETION.
- FEEDERS TO PANELS ARE TO BE RUN IN EMT WHERE OVERHEAD OR SCHEDULE 40 PVC WHERE UNDERGROUND OR UNDERSLAB. GROUNDING ELECTRODE IN RIGID METALLIC CONDUIT.
- SERVICE CONDUCTORS AND FEEDERS TO BE THWN OR THHN COPPER. ALL WIRE TERMINATIONS AND EQUIPMENT TO BE RATED FOR 75 DEGREE C WIRE.
- BRANCH CIRCUITS TO BE A MINIMUM #14-2G TYPE NM OR TYPE SE COPPER.
- MAXIMUM WATTAGE OF FLUORESCENT OR INCANDESCENT LIGHTING PER 120V, 20A BRANCH CIRCUIT-1440 WATTS. MAXIMUM NUMBER OF 120V RECEPTACLES PER 20A CIRCUIT-EIGHT.
- IN ALL INSTANCES, WIRE CAPACITIES AND DEVICE RATINGS ARE TO EQUAL OR EXCEED BREAKER OR FUSE RATINGS.
- FUSED DISCONNECTS ARE REQUIRED FOR MULTI-MOTOR CONDENSING UNITS AND PACKAGED UNITS.
- PROVIDE 120V W/P GFI SERVICING RECEPTACLE WITHIN 15 FEET OF HVAC EQUIPMENT.
- PROVIDE GFI RECEPTACLES IN RESTROOMS, OUTDOORS AND COUNTER TOPS AS REQUIRED BY N.E.C. AND N.C. BUILDING CODE.
- DO NOT INSTALL ANY ELECTRICAL EQUIPMENT, ACCESSORIES, OR FIXTURES WITHOUT PROPER CODE-REQUIRED CLEARANCES OR WITHOUT MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.
- ALL PENETRATIONS IN FIRE RATED ASSEMBLIES TO BE SEALED AS SHOWN ON RATED DETAILS.
- GROUNDING CONDUCTOR AT MAIN SWITCHGEAR SHALL BE CONNECTED TO EQUIPMENT GROUNDING CONDUCTOR USING A BONDING JUMPER, SIZED PER N.E.C. TABLE 250-94.
- PROVIDE SMOKE DETECTORS AT LOCATIONS AS SHOWN AND AS REQUIRED BY NEC 210-71, AND NFPA 72. MAKE CONNECTION AHEAD OF ALL SWITCHING DEVICES ON NEAREST LIGHTING CIRCUIT. PROVIDE WITH BATTERY BACKUP. TIE ALL ALARMS TOGETHER SO EACH WILL SOUND ALARM.
- RECEPT. ON OPPOSITE SIDES OF RATED WALL SHALL BE SPACED A MINIMUM OF 24" OF HORIZONTAL SEPARATION.
- PER NEC 410-8, A SURFACE-MOUNTED OR RECESSED INCAND. FIXTURE WITH A COMPLETELY ENCLOSED LAMP OR A SURFACE-MOUNTED OR RECESSED FLUOR. FIXTURE MAY BE PROVIDED IN CLOSET AREAS. SURFACE MOUNTED INCAN. FIXTURES SHALL BE LOCATED A MINIMUM OF 12 INCHES BETWEEN FIXTURE AND NEAREST POINT OF STORAGE SPACE. ALL OTHER FIXTURES SHALL BE 6 INCHES FROM SPACE.
- ALL CIRCUITS INSTALLED IN FAMILY ROOM, DINING ROOM, BEDROOMS, CLOSETS, HALLWAYS, SHALL HAVE ARC FAULT PROTECTION PER NEC 210-12.
- RECEPTS SHALL BE LOCATED IN ACCORDANCE WITH NEC 210.52.
- PROVIDE COMPLETE TELEPHONE SYSTEM AS INDICATED INCLUDING OUTLETS, CONDUITS, WIRING AND ASSOCIATED EQUIPMENT TO POINT OF SERVICE CONNECTION BY TELEPHONE COMPANY.
- PROVIDE TV OUTLETS COMPLETE WITH COVER PLATE, BOX AND COAX OR CAT 5 WIRING TO CENTRALIZED LOCATION OUTSIDE BUILDING FOR CONNECTION BY LOCAL CABLE COMPANY. COORDINATE OUTSIDE LOCATION WITH CABLE COMPANY.
- UNIT ELECTRICAL SYSTEM SHALL SERIES RATED WITH SERVICE ENTRANCE FUSES. VERIFY FUSES ARE CLF.
- PROVIDE DOOR CHIME, TRANSFORMER AND PUSH BUTTON AT EACH UNIT.
- AT HWH LOCATION IN CRAWLSPACE PROVIDE RECEPTACLE AND KEYLESS LAMPHOLDER AT LOCATION. PROVIDE SWITCH AT ENTRANCE TO SPACE. CIRCUIT C-15 AT RPZ LOCATION IN CRAWLSPACE PROVIDE KEYLESS LAMPHOLDER AT LOCATION. PROVIDE SWITCH AT ENTRANCE TO SPACE. CIRCUIT C-15
- PROVIDE WATERPROOF, NEMA 3R, JUNCTION BOXES WITH SWITCHING FOR FUTURE RAILING LIGHTING.



1 FIRST FLOOR PLAN

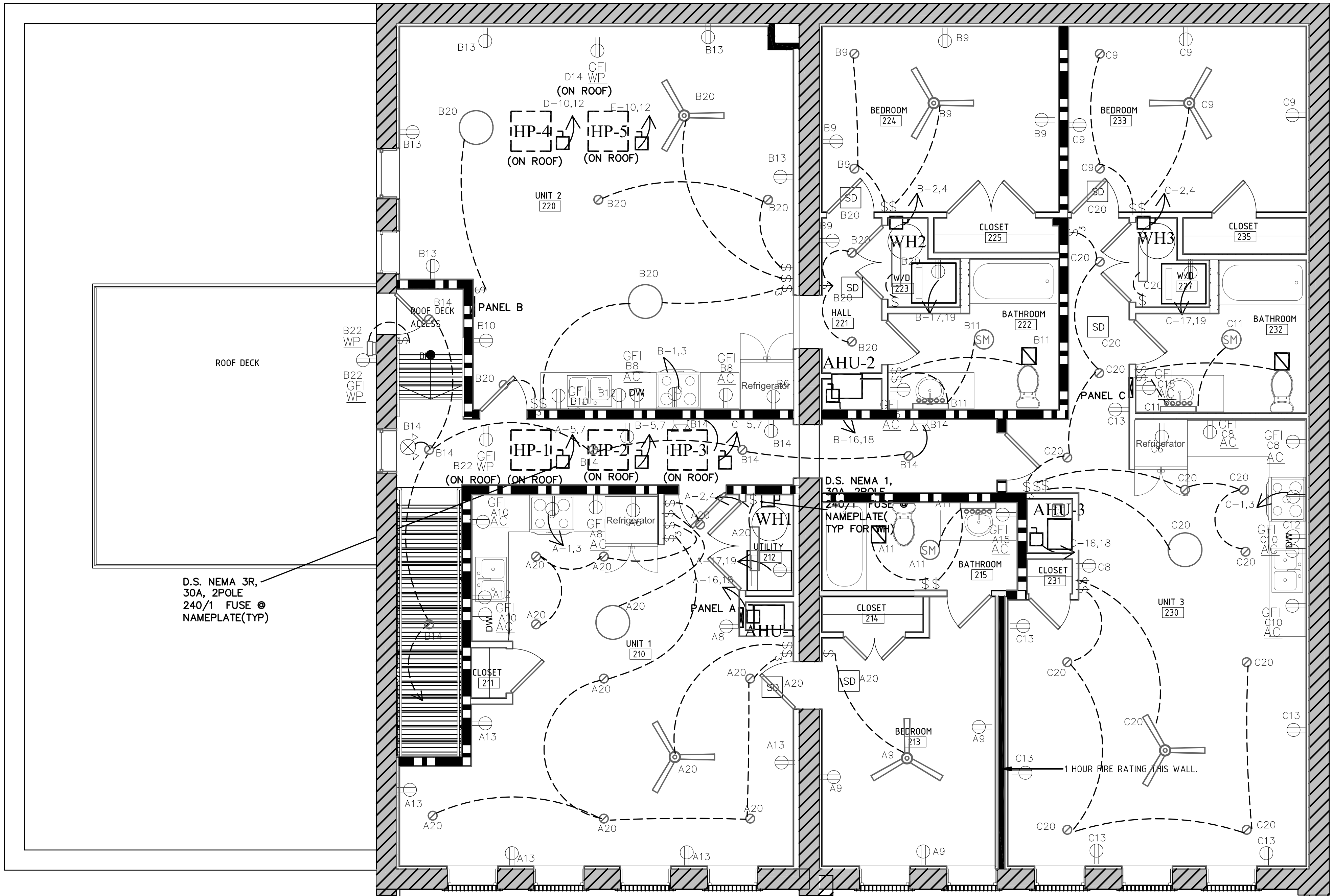
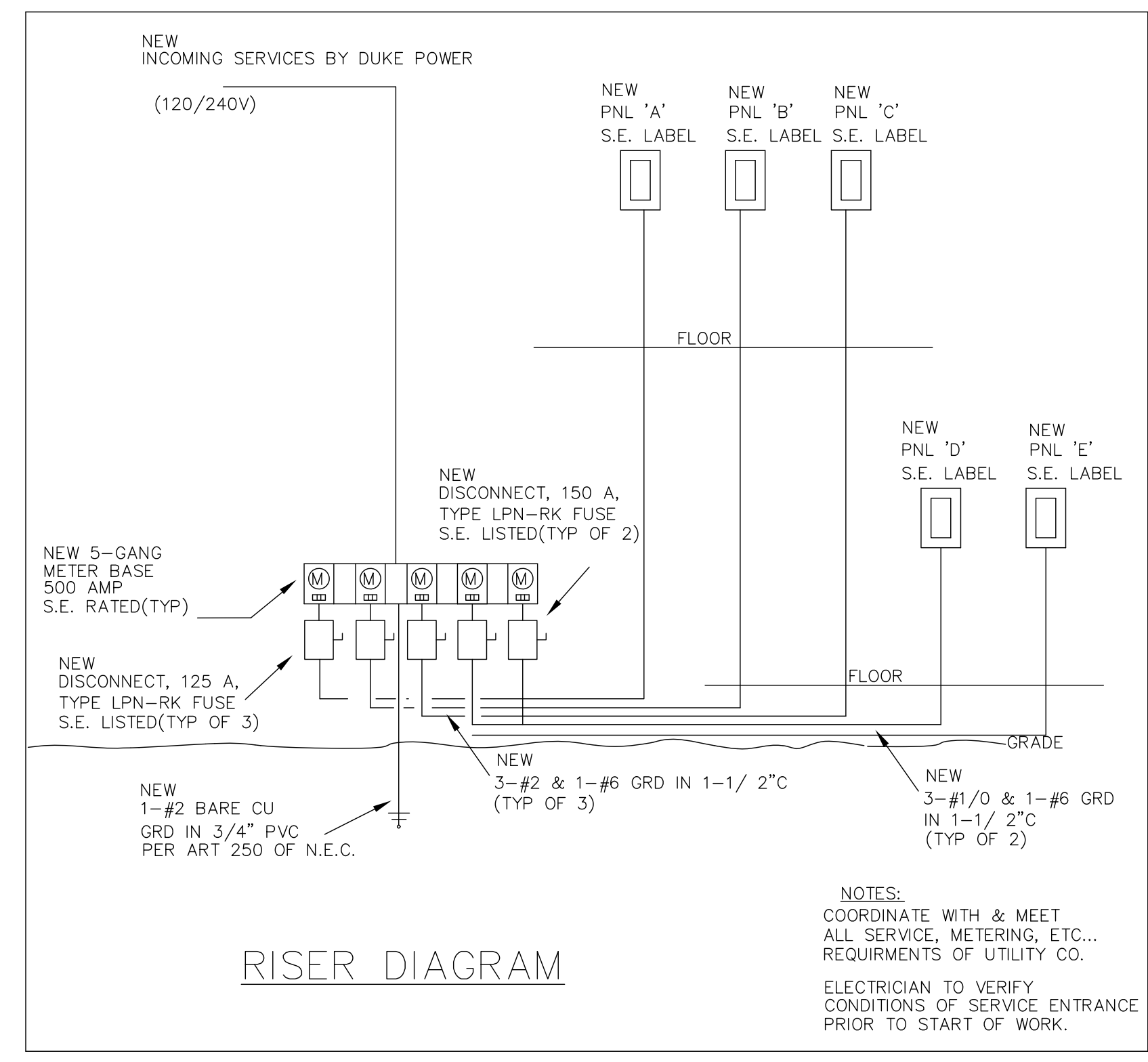
1/4" = 1'-0"



PANELS A, B & C SERVICE

ITEM	WATTS
a. HEAT PUMP/ELEC HEAT:100% OF NAMEPLATE RATING	7.2 KW
b. AIR COND. :100% OF NAMEPLATE RATING	3.3 KW
LARGER OF a OR b	A. 7.2 KW
OTHER LOADS	
INDIVIDUALLY CONTROLLED HEATERS	0 W
795 SQ. FT. X 3 W/SQ. FT.	2385 W
2 -20 AMP APPLIANCE CKT.(S)	3000 W
HOT WATER HEATER	4500 W
RANGE	8000 W
DRYER	5000 W
TOTAL OTHER LOAD:	22885 W
FIRST 10 KW at 100% B. 10 KW	22.9 KW
REMAINDER at 45% C. 5.81 KW	
REQUIRED DEMAND LOAD(A + B + C)	23 KW
SERVICE CAPACITY REQUIRED:	
KW X 1000W / 240V =	96 AMPS

NOTE: ALL ELECTRICAL INCLUDING LIGHT FIXTURES, CATV, PHONE, PANELS TO BE VERIFIED WITH OWNER/BUILDER PRIOR TO ROUGH-IN



INTERIOR ALTERATION
606-610 FEARING ST
ELIZABETH CITY, NC

DATE	08.25.2020
DR.	EDV
CH.	DSM
PROJ. #	20013.2
REVISIONS	DATE

ELECTRICAL
SECOND FLOOR
PLAN & DETAILS

E1.2

LOAD SERVED	WIRE			NEUTRAL		CIR.			LOAD SERVED
	SIZE	BKR.	NO.	AB	NO.	BKR.	NO.		
LIGHTS	12	20/1	1			2	20/1	12	LIGHTS
STORAGE RECEPT	12	20/1	3			4	20/1	12	TOILET GFI
RECEPT TENANT	12	20/1	5			6	20/1	12	WATER HEATER WH-4
RECEPT TENANT	12	20/1	7			8	20/1	12	SHOW WINDOWS
AHU-4	6	50/2	9			10	35/2	10	HP-4
			11			12			
			13			14	20/1	12	EXTERIOR GFI
			15			16			
			17			18			
			19			20			
			21			22			
			23			24			
			25			26			
			26			28			
			29			30			

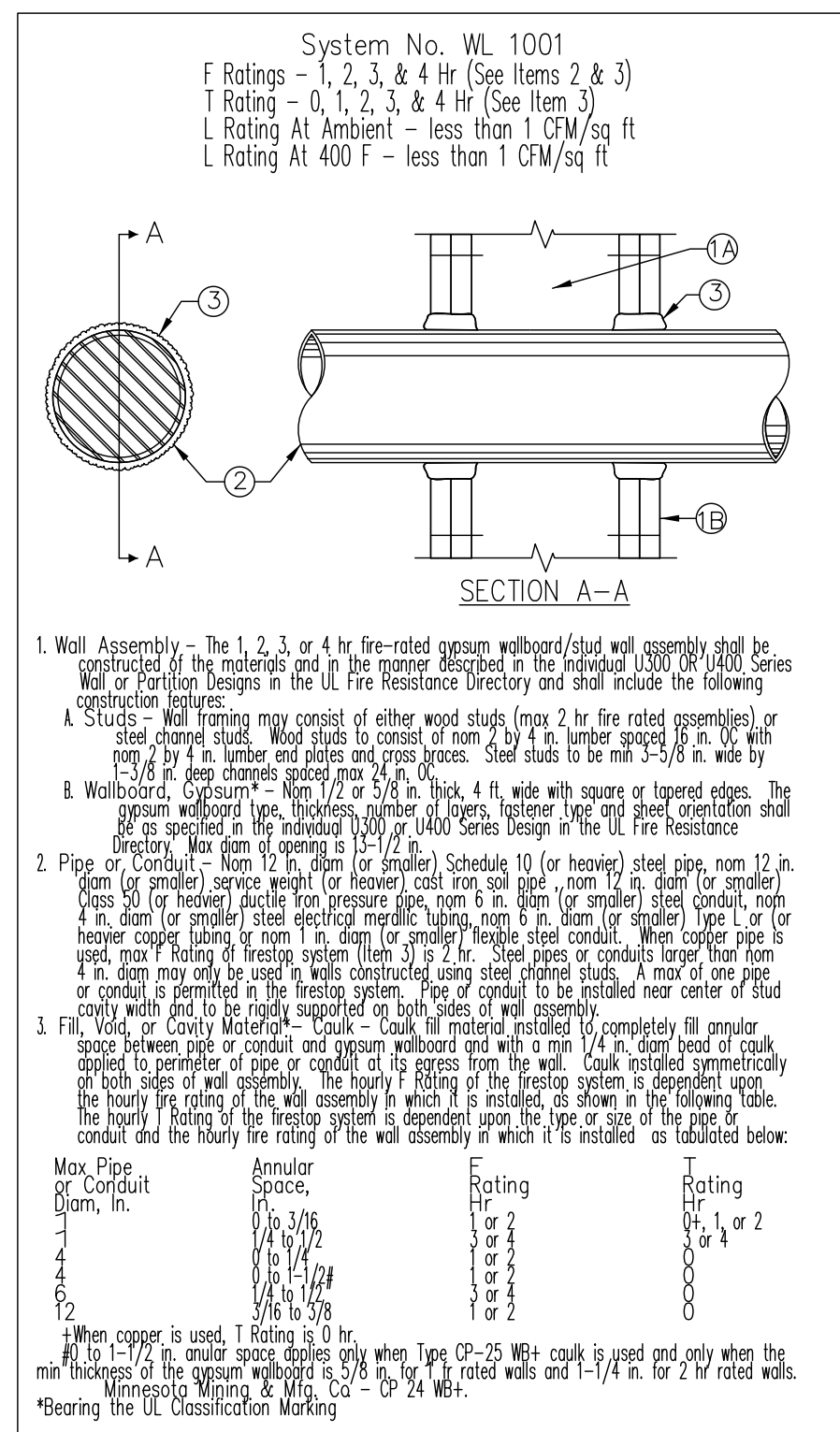
AIC ** AMPS
RATING 240 V 1 ϕ 3 w
MOUNTING SURFACE GROUNDING YES NO SN _____
MAIN CIRCUIT BREAKER RATING MLO AMPS
MAIN BUS RATING 150 AMPS, MFG. --- MODEL ---
** - PANEL BOARD AND CIRCUIT BREAKERS SHALL BE RATED FOR 22K

PANEL D

LOAD SERVED	WIRE			NEUTRAL		CIR.			LOAD SERVED
	SIZE	BKR.	NO.	AB	NO.	BKR.	NO.		
LIGHTS	12	20/1	1			2	20/1	12	LIGHTS
STORAGE RECEPT	12	20/1	3			4	20/1	12	TOILET GFI
RECEPT TENANT	12	20/1	5			6	20/1	12	WATER HEATER WH-5
RECEPT TENANT	12	20/1	7			8	20/1	12	SHOW WINDOWS
AHU-5	6	50/2	9			10	35/2	10	HP-5
			11			12			
			13			14			
			15			16			
			17			18			
			19			20			
			21			22			
			23			24			
			25			26			
			26			28			
			29			30			

AIC ** AMPS
RATING 240 V 1 ϕ 3 w
MOUNTING SURFACE GROUNDING YES NO SN _____
MAIN CIRCUIT BREAKER RATING MLO AMPS
MAIN BUS RATING 150 AMPS, MFG. --- MODEL ---
** - PANEL BOARD AND CIRCUIT BREAKERS SHALL BE RATED FOR 22K

PANEL E



LOAD SERVED	WIRE			NEUTRAL		CIR.			LOAD SERVED
	SIZE	BKR.	NO.	AB	NO.	BKR.	NO.		
RANGE	8	40/2	1			2	30/2	10	WATER HEATER
			3			4			3-#10,1-#10g
HP-1	12	20/2	5			6	20/1	12	REFRIG
			7			8	20/1	12	APPLIANCE
RECEPT BED/LTS	12	20/1	9			10	20/1	12	APPLIANCE
BATH FAN/LTS	12	20/1	11			12	20/1	12	DISHWASHER
RECEPT LIVING	12	20/1	13			14	20/1	12	SPARE
BATH GFI	12	20/1	15			16	30/2	10	AHU-1
DRYER	10	30/2	17			18			
			19			20	20/1	12	LIGHTS
			21			22			
			23			24			

AIC ** AMPS
RATING 240 V 1 ϕ 3 w
MOUNTING SURFACE GROUNDING YES NO SN _____
MAIN CIRCUIT BREAKER RATING MLO AMPS
MAIN BUS RATING 125 AMPS, MFG. --- MODEL ---
** - PANEL BOARD AND CIRCUIT BREAKERS SHALL BE RATED FOR 10K

PANEL A

LOAD SERVED	WIRE			NEUTRAL		CIR.			LOAD SERVED
	SIZE	BKR.	NO.	AB	NO.	BKR.	NO.		
RANGE	8	40/2	1			2	30/2	10	WATER HEATER
			3			4			3-#10,1-#10g
HP-2	12	20/2	5			6	20/1	12	REFRIG
			7			8	20/1	12	APPLIANCE
RECEPT BED/LTS	12	20/1	9			10	20/1	12	APPLIANCE
BATH FAN/LTS	12	20/1	11			12	20/1	12	DISHWASHER
RECEPT LIVING	12	20/1	13			14	20/1	12	HALLWAY LIGHTS
BATH GFI	12	20/1	15			16	30/2	10	AHU-2
DRYER	10	30/2	17			18			
			19			20	20/1	12	LIGHTS
			21			22	20/1	12	EXTERIOR GFI
			23			24			

AIC ** AMPS
RATING 240 V 1 ϕ 3 w
MOUNTING SURFACE GROUNDING YES NO SN _____
MAIN CIRCUIT BREAKER RATING MLO AMPS
MAIN BUS RATING 125 AMPS, MFG. --- MODEL ---
** - PANEL BOARD AND CIRCUIT BREAKERS SHALL BE RATED FOR 10K

PANEL B

LOAD SERVED	WIRE			NEUTRAL		CIR.			LOAD SERVED
	SIZE	BKR.	NO.	AB	NO.	BKR.	NO.		
RANGE	8	40/2	1			2	30/2	10	WATER HEATER
			3			4			3-#10,1-#10g
HP-3	12	20/2	5			6	20/1	12	REFRIG
			7			8	20/1	12	APPLIANCE
RECEPT BED/LTS	12	20/1	9			10	20/1	12	APPLIANCE
BATH FAN/LTS	12	20/1	11			12	20/1	12	DISHWASHER
RECEPT LIVING	12	20/1	13			14	20/1	12	SPARE
BATH GFI	12	20/1	15			16	30/2	10	AHU-3
DRYER	10	30/2	17			18			
			19			20	20/1	12	LIGHTS
			21			22			
			23			24			

AIC ** AMPS
RATING 240 V 1 ϕ 3 w
MOUNTING SURFACE GROUNDING YES NO SN _____
MAIN CIRCUIT BREAKER RATING MLO AMPS
MAIN BUS RATING 125 AMPS, MFG. --- MODEL ---
** - PANEL BOARD AND CIRCUIT BREAKERS SHALL BE RATED FOR 10K

PANEL C

PANEL D SERVICE

ITEM	KVA
A. HEATING LOAD : 100% OF NAMEPLATE RATING(MCA) (MCA PLUS 25% OF LARGEST MOTOR LOAD)	11.2 KVA
B COOLING LOAD : 100% OF NAMEPLATE RATING(MCA)	5.8 KVA
LARGER OF A OR B	11.2 KVA
OTHER LOADS	
RECP.T. 11 X 180 VA	2.0 KVA
INTERIOR LIGHTS: 976 SQ.FT. X 2.0W/SQ.FT. X 1.25	2.44 KVA
WATER HEATER 1.5KVA X 1.25	2.0 KVA
SHOW WINDOWS	
TOTAL OTHER LOAD:	8.34 KVA
REQUIRED DEMAND LOAD	19.5 KVA
SERVICE CAPACITY REQUIRED:	
KVA X 1000W / 240V =	82 AMPS

PANEL E SERVICE

ITEM	KVA
A. HEATING LOAD : 100% OF NAMEPLATE RATING(MCA) (MCA PLUS 25% OF LARGEST MOTOR LOAD)	13.1 KVA
B COOLING LOAD : 100% OF NAMEPLATE RATING(MCA)	6.4 KVA
LARGER OF A OR B	13.1 KVA
OTHER LOADS	
RECP.T. 10 X 180 VA	1.8 KVA
INTERIOR LIGHTS: 1315 SQ.FT. X 2.0W/SQ.FT. X 1.25	3.29 KVA
WATER HEATER 1.5KVA X 1.25	1.9 KVA
SHOW WINDOWS	2.0 KVA
TOTAL OTHER LOAD:	8.99 KVA
REQUIRED DEMAND LOAD	22.1 KVA
SERVICE CAPACITY REQUIRED:	
KVA X 1000W / 240V =	92 AMPS

BUILDING DEMAND

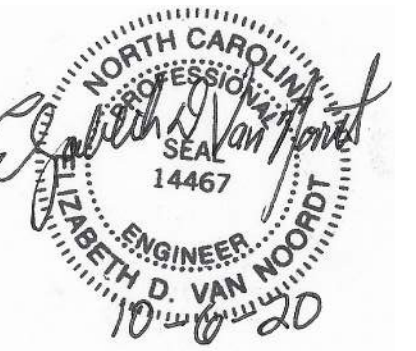
PANEL A: 23 KVA
PANEL B: 23 KVA
PANEL C: 23 KVA
PANEL D: 19.5 KVA
PANEL E: 22.1 KVA

TOTAL = 110.6 KVA

110.6 KVA AT 240V 1P = 461 AMPS



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ELECTRICAL
DETAILS

E1.3