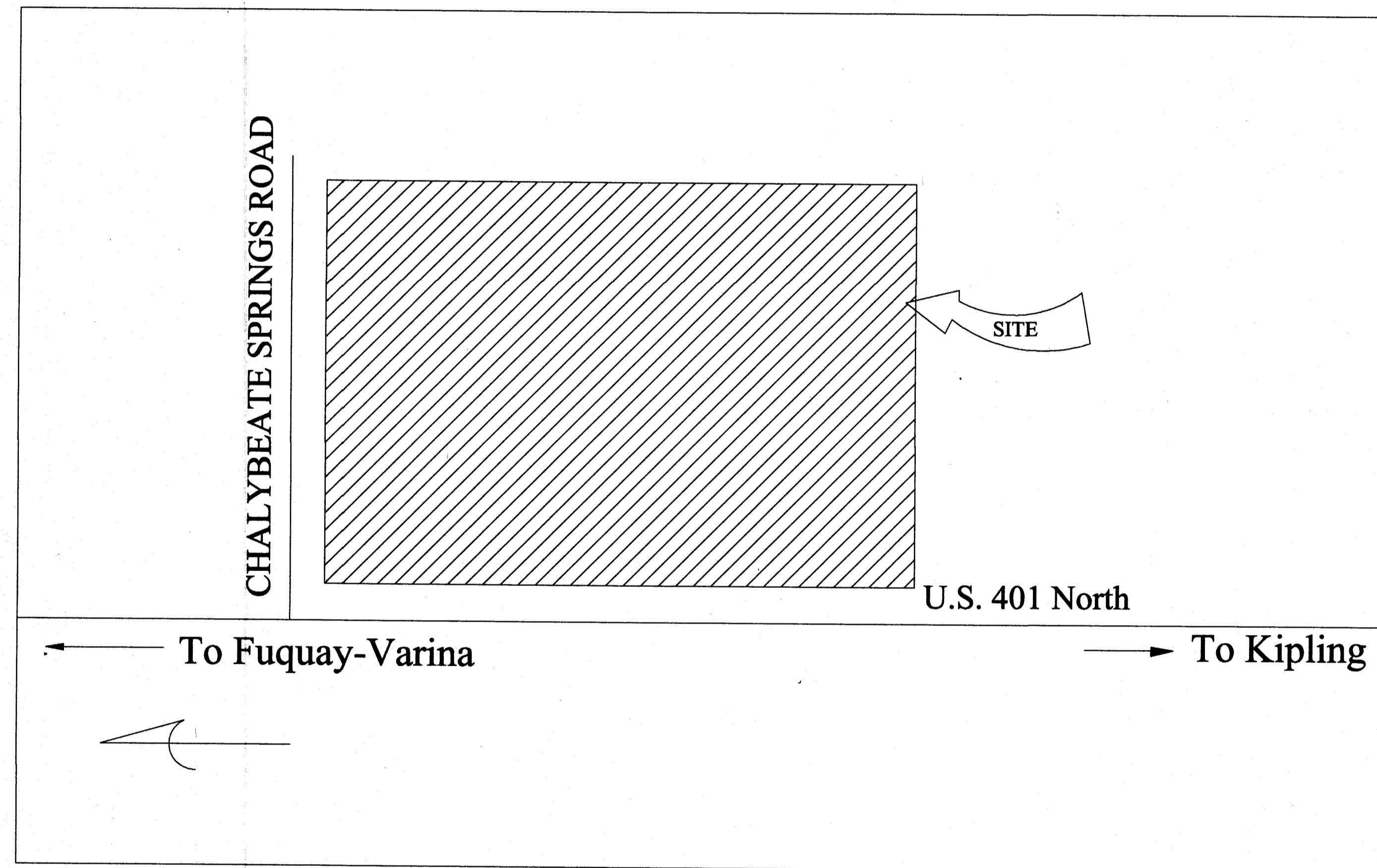


A NEW CHAMPS CONVENIENCE STORE
(8920)U.S. HWAY 401 NORTH
Fuquay-Varina, North Carolina 27526

CHAMPS CONVENIENCE STORE



VICINITY MAP

CONTENTS

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G-5	Room Finish Schedules
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E-2	Electrical Lighting Plan
E-3	Electric Panels
M-1	HVAC Layout
M-2	Roof Top Layout
P-1	Plumbing Plan
LS-1	Life Safety Plan

OWNER:
JAY AMBE SHAKTI, LLC
 2100 Weaver Forest Way
 Morrisville, NC 27560
 Phone: 910-980-6049
 E-Mail : kcp162Wgmail.com

ENGINEER:
ROBERT J. BRACKEN, P.E.
 3768 CARBONTON ROAD
 SANFORD, NC 27330

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**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)**

Name Of Project: New Champs Convenience Store

Address: 8920 US HWY 401 N Fuquay-Varina, NC Zip Code: 27526

Owner Or Authorized Agent: Ankit Patel Phe: 910-980-6049 Email: kcp162@gmail.com

Owned By: City / County Private State

Code Enforcement Jurisdiction: City County Harnett State

CONTACT: Robert J. Bracken, Jr. - P.E.

DESIGNER:	FIRM	NAME	LICENSE#	TELEPHONE#	E-MAIL
Civil	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bbracken@windstream.net
Electrical	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bbracken@windstream.net
Fire Alarm	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bbracken@windstream.net
Plumbing	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bbracken@windstream.net
Mechanical	RJB PE PA	RJ Bracken	NC 7291	(919) 774-6074	bbracken@windstream.net
Sprinkler - Standpipe					
Structural					
Retaining Wall > 5' High					
Other					

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

2018 NC CODE BUILDING CODE: New Building Addition Renovation

1st Time Interior Completion

Shell / Core - Contact the local inspection jurisdiction for possible additional procedures and requirements

Phased Construction - Shell / Core - Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14

Alteration: Level I Level II Level III

Historic Property Change Of Use

CONSTRUCTION: (Date) _____ CURRENT OCCUPANCY (S) (CH. 3): _____

RENOVATED: (Date) _____ PROPOSED OCCUPANCY (S) (CH. 3): _____

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

BASIC BUILDING DATA

Construction Type: I-A II-A III-A IV-A

I-B II-B III-B IV-B

Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D

Standpipes: No Yes Class I II III Wet Dry

Fire District: No Yes Flood Hazard Area: No Yes

Special Inspections Required: No Yes (Contact the local inspection jurisdiction for additional procedures and requirements)

FLOOR	Existing (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		6,600 sq ft	6,600 sq ft
Basement			
TOTAL			6,600 sq ft

Primary Occupancy (s): Select One

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 Combat H-4 Health H-5 HPM

Institutional: I-1 Condition I-2 I-2 Condition I-1 I-2 I-3 Condition I-1 I-2 I-3 I-4 I-4

Mercantile: 9,000 sq ft

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 and Miscellaneous:

Accessory Occupancy Classification (s): _____

Incidental Uses (Table 509): _____

Special Uses (Chapter 4 - List Code Section): _____

Special Provisions: (Chapter 5 - List Code Section): _____

Mixed Occupancy: Yes Separation: _____ Hr. Exception: _____

Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Use (509.4) - See below for area calculations for each story; the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area Of Occupancy A + Actual Area Of Occupancy B ≤ 1.00
Allowable Area Of Occupancy A + Allowable Area Of Occupancy B ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE 1.5	(D) ALLOWABLE AREA PER STORY OR UNLIMITED

- Frontage area increase from Section 506.2 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase = 100(F/P - 0.25) x W / 20 = _____ (%)
- Unlimited area applicable under conditions of Section 507.
- Maximum Building Area = total number of stories in building x D (maximum 3 stories) 506.2
- The maximum Area of open parking garages must comply with Table 406.5.4 The Maximum area of air traffic control towers must comply with Table 412.3.1.
- Frontage increase is based on the unsprinklered area value in Table 506.2

BUILDING HEIGHT	ALLOWABLE HEIGHT		CODE REFERENCE
	ALLOWABLE	SHOWN ON PLANS	
Building Height in Feet (Table 504.3)	40	25	T 504.3
Building Height in Stories (Table 504.4)	ONE	ONE	T 504.4

Provide code reference if the "Shows on Plans" quality is not based on Table 504.3 or 504.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders & trusses						
Bearing walls						
Exterior						
North	35'					
East	35'					
West	35'					
South	35'					
Interior						
Nonbearing walls and partitions						
Exterior Walls						
North						
East						
West						
South						
Interior walls & partitions						
Floor construction including supporting beams & joist						
Floor Ceiling Assembly						
Column Supporting Floors						
Roof construction including supporting beams & joist						
Roof Ceiling Assembly						
Column Supporting Roof						
Shaft Enclosures - Exit						
Shaft Enclosures - Other						
Corridor Separation	118'		W-L-1195	V-480		
Occupancy / Fire Barrier Separation						
Party / Fire Wall Separation						
Smoker Partition						
Tenant / Dwelling Unit						
Sleeping Unit Separation						
Incidental Use Separation						

* Indicates section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREES OF OPENING PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes

Exit Signs: No Yes

Fire Alarm: No Yes

Smoke Detection Systems: No Yes Partial

Panic Hardware: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # LS-1

Fire and / or smoke rated walls locations (Chapter 7)

Assumed and real property line locations. (If not on site plan)

Exterior wall opening area with respect to distance to assumed property line (705.8)

Occupancy Use for each area as it relates to occupant load calculations (Table 1004.1.2)

Occupant loads for each area.

Exit access travel distance (1017)

Dead end lengths (1020.4)

Clear exit widths for each door.

Maximum calculations 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 structures provided for purpose 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 (407.3)

Note any code exceptions or table notes that may have been utilized regarding the items above.

ACCESSIBLE DWELLING UNITS N/A (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

ACCESSIBLE PARKING SEE SITE PLAN (Section 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH FURNISHED ACCESSIBLE	SPACES WITH ACCESSIBLE	SPACES WITH ACCESSIBLE	

PLUMBING FIXTURE REQUIREMENTS (Table 2902.1)

USE	SPACE	Water Closets		Urinals		Lavatories		Showers		Drinking Fountains	
		Male	Female	Male	Female	Male	Female	Male	Female	Regular	Accessible
Existing											
New		2									
Required											

SPECIAL APPROVALS
Special Approval: (Local Jurisdiction, Department of Insurance, OSC, DPL, DHHS, etc. described below)
NONE

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attributes to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (The remainder of this is not applicable)

Exempt Building: No Yes (Provide code or statutory reference):

Climate Zone: 3A 4A 5A

Method of Compliance: Energy Code Performance Prescriptive ASHRAE 90.1 Performance Prescriptive (If "Other" specify source here)

ENERGY SUMMARY

HERMAL ENVELOPE (Prescriptive method only)

Roof / Ceiling (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing): _____
U-Value of assembly: _____
Solar heat gain coefficient: _____
Projection factor: _____
Door U-Value: _____

Wall below grade (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floor slab on grade
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal / vertical requirement: _____
Slab heated: _____

STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:
Importance Factor: Snow (1) 1.0
Seismic (1) 1.0

Live Loads: Roof 20 psf
Mezzanine psf
Floor 100 psf

Ground Snow Load: 15 psf

Wind Load: Basic Wind Speed 115 mph (ASCE-7)
Exposure Category B

SEISMIC DESIGN CATEGORY: A B C D

Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I II III IV
Special Response Acceleration 0.1 %
Site Classification (ASCE 7) A B C D E F

Data Source: Field Test Presumptive Historical Data

Basic structural system: Bearing Wall Dual w/ Special Moment Frame Building Frame Dual w/ Intermediate R/C or Special Steel Moment Frame Inverted Penetulum

Analysis Procedure: Simplified Equivalent Lateral Force Dynamic Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity 2000 psf
Pile size, type, and capacity _____

System No. W-L-1195
T Rating - 34 and 1-1/4 Hr (See Item 1)

SECTION A-A

- Wall Assembly - The 1 and 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. lumber spaced 16 in. OC, with non 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC.
B. Gypsum Board - Thickness, type, number of layers and fasteners as required in the individual Wall and Partition Design. Max diam of opening is 3-1/2 in.
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating in 34 and 1-1/4 hr is for 1 and 2 hr rated assemblies, respectively.
- Through Penetrating Product - Flexible Metal Piping - Nom 2 in. diam (or smaller) steel flexible metal piping. Max one flexible metal piping to be installed concentrically or eccentrically within opening. The annular space between piping and periphery of opening shall be both sides of wall assembly. Plastic covering on piping to be removed on both sides of wall assembly.
ONCE-A-FLEX INC. - Tie Pipe
- Fill, Void or Cavity Materials - Sealant - Min 5/8 in. non of fill material for 1 and 2 hr fire-rated wall assembly to be applied within the annulus. Flush with both surfaces. An additional 1/2 in. diam bead of fill material applied at board/penetum interface at point contact location on the wall.
JOHN MANVILLE INTERNATIONAL INC. - Pen
Marking the UL Classification Mark

MECHANICAL SUMMARY
(PROVIDE IN THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SYSTEMS, SERVICES AND EQUIPMENT

Thermal Zone 4A
winter dry bulb: 20°
summer dry bulb: 94°

Interior design conditions:
winter dry bulb: 72°
summer dry bulb: 78°
relative humidity: 60%

Building heating load: 63,379 Btu

Building cooling load: 150,307 Btu

Mechanical Spacing Conditioning System
Unitary

description of unit: _____
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____

Boiler
Size category: If oversized, state reason: _____

Chiller
Size category: If oversized, state reason: _____

List equipment efficiencies: _____

SEE SHEET M-1

ELECTRICITY SUMMARY
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code Performance Prescriptive ASHRAE 90.1 Performance Prescriptive

Lighting schedule (Each fixture type)
lamp type required in fixture: _____
number of lamps in fixture: _____
ballast type used in the fixture: _____
number of ballast in fixture: _____
total wattage per fixture: _____
total interior wattage specified vs allowed: Whole building or space by space

SEE SHEET E-2

Additional Efficiency Package Options
(When using the 2018 NEC, not required for ASHRAE 90.1)

C406.2 More Efficient HVAC Equipment Performance

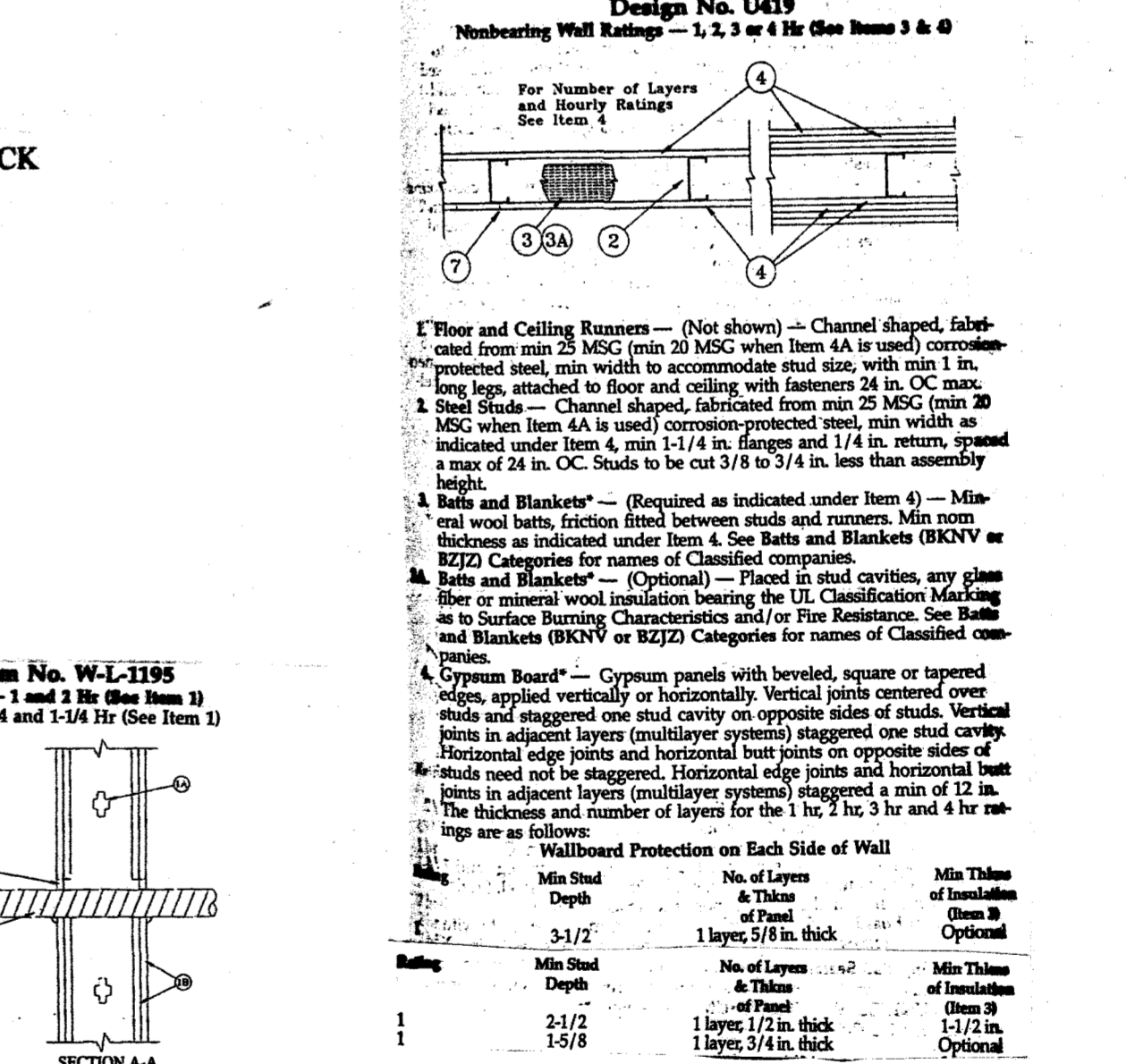
C406.3 Reduced Lighting Power Density

C406.4 Enhanced Digital Lighting Controls

C406.5 On-Site Renewable Energy

C406.6 Dedicated Outdoor Air Systems

C406.7 Reduced Energy Use in Service Water Heating



Appendix "B"

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

DRAWN BY: WRJ

DATE: _____

CHECKED BY: RJB

DWG. NUMBER: _____

JOB NUMBER: _____

SHEET NO: _____

APPENDIX 'B'

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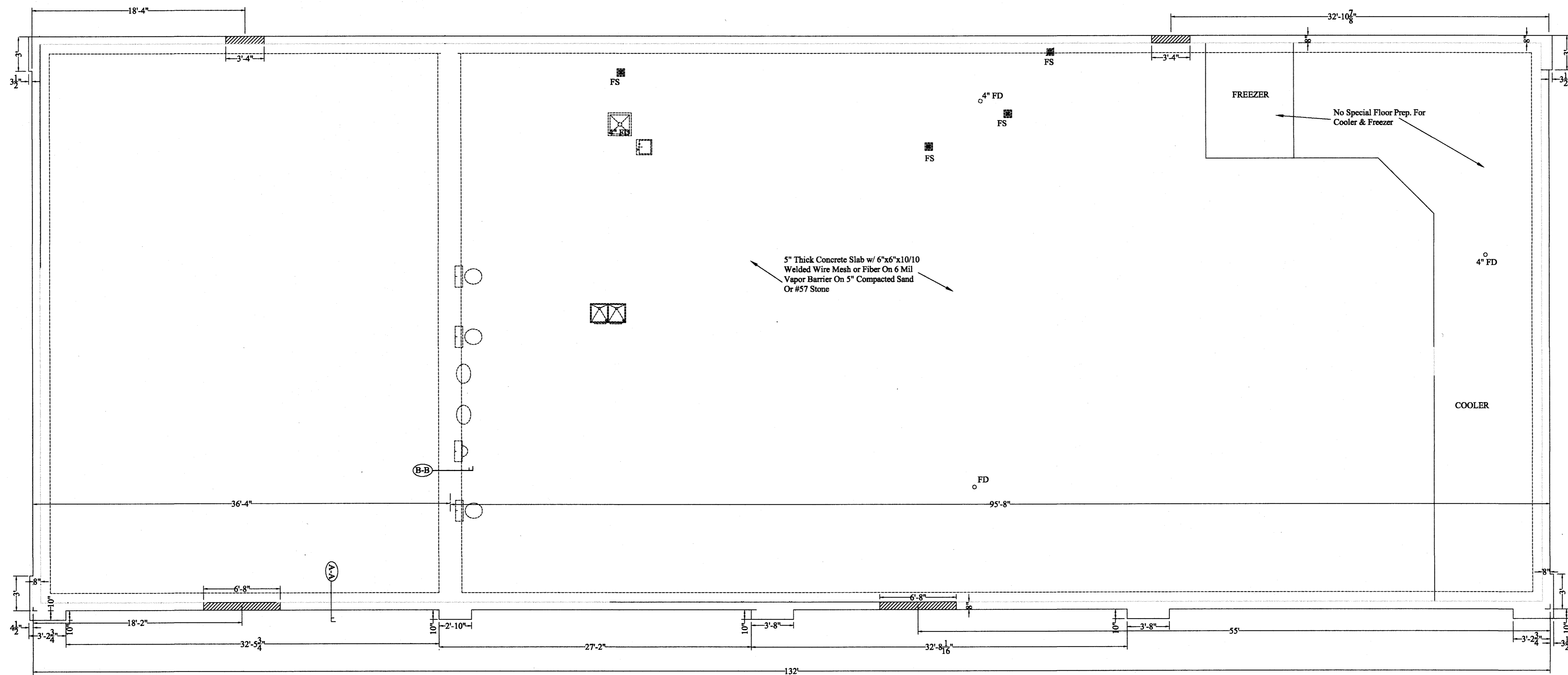
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Fuquay-Varina, North Carolina 27526

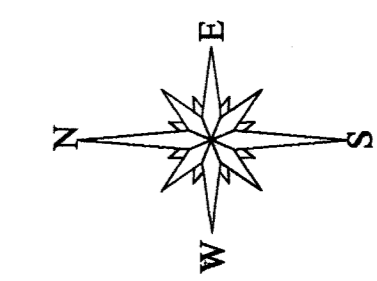
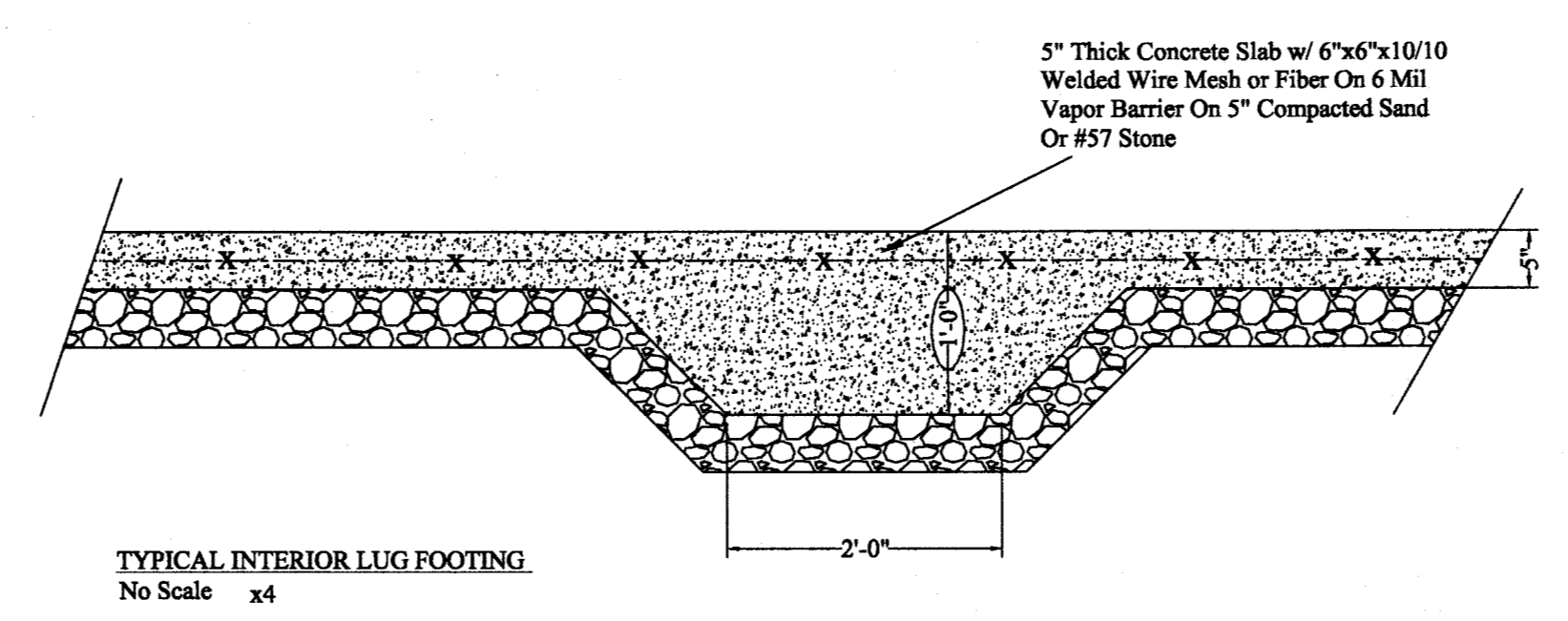
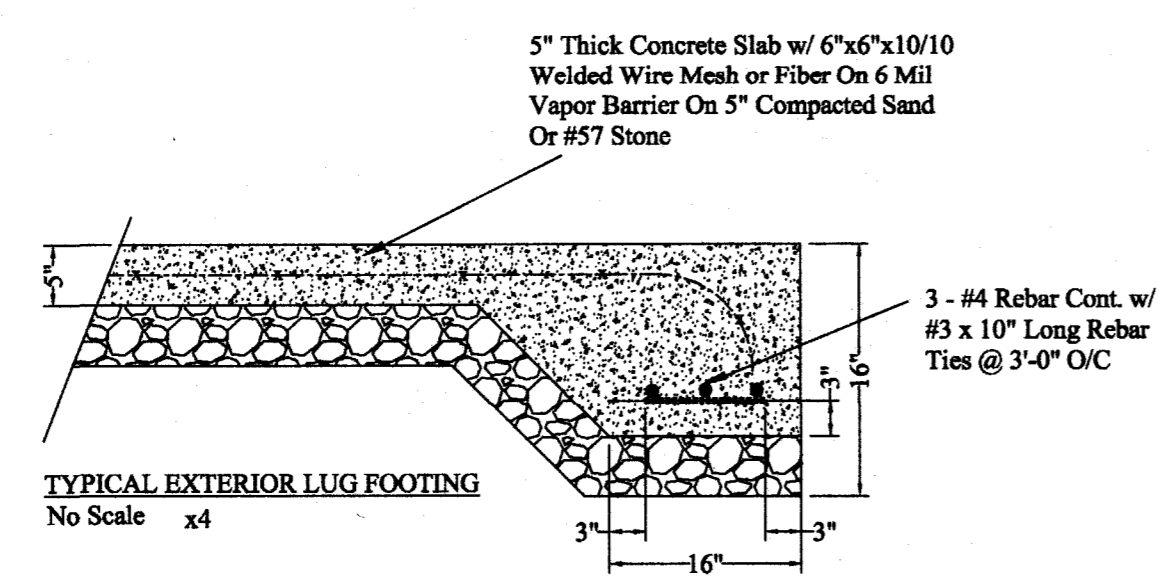
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C-0269
Robert J. Bracken
ENGINEERING • SURVEYING
3768 Carabotton Road • Sanford, NC 27330

JOHN MANVILLE INTERNATIONAL INC. SEAL
FEB 20 2024
ROBERT J. BRACKEN



FOUNDATION PLAN
Scale: 3/16" = 1'-0"

NOTE: See Electrical Power Plan & Equipment Plan & Plumbing Plan To Verify Locations Of Plumbing & Electrical In Floor Slab.



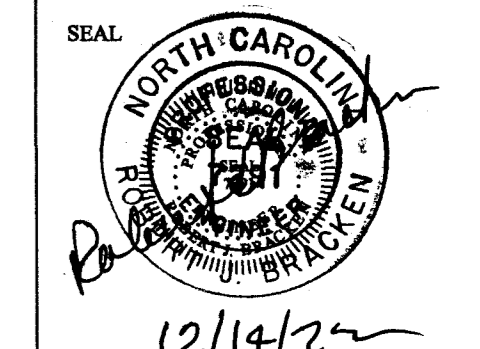
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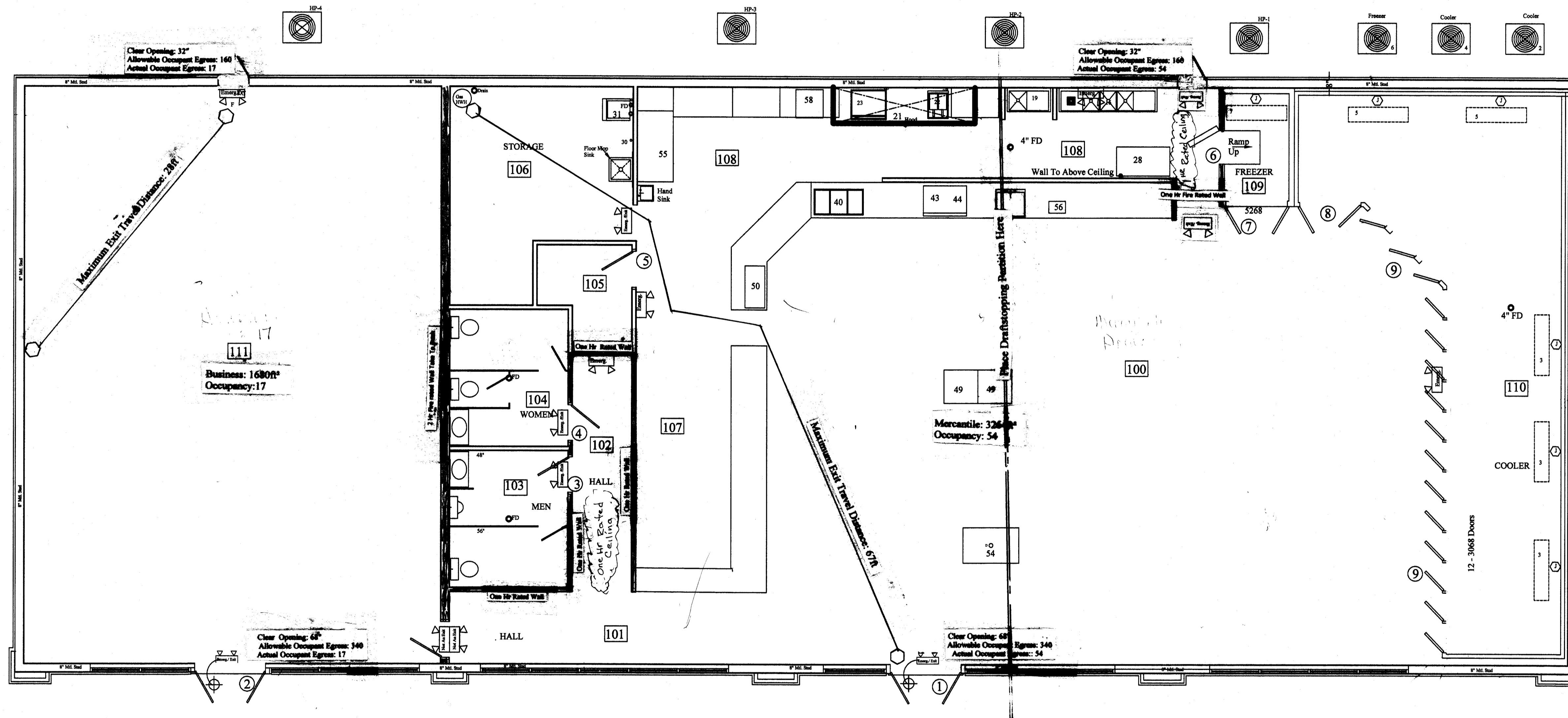
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LIFE SAFETY PLAN
Scale: 3/16" = 1'-0"

Total Area: 6,600ft²
Total Occupancy: 71

Life Safety Plan

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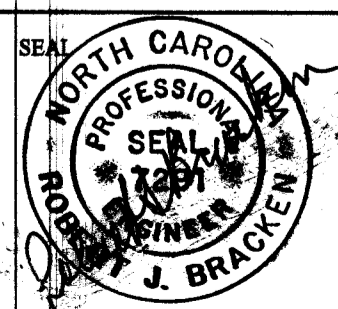
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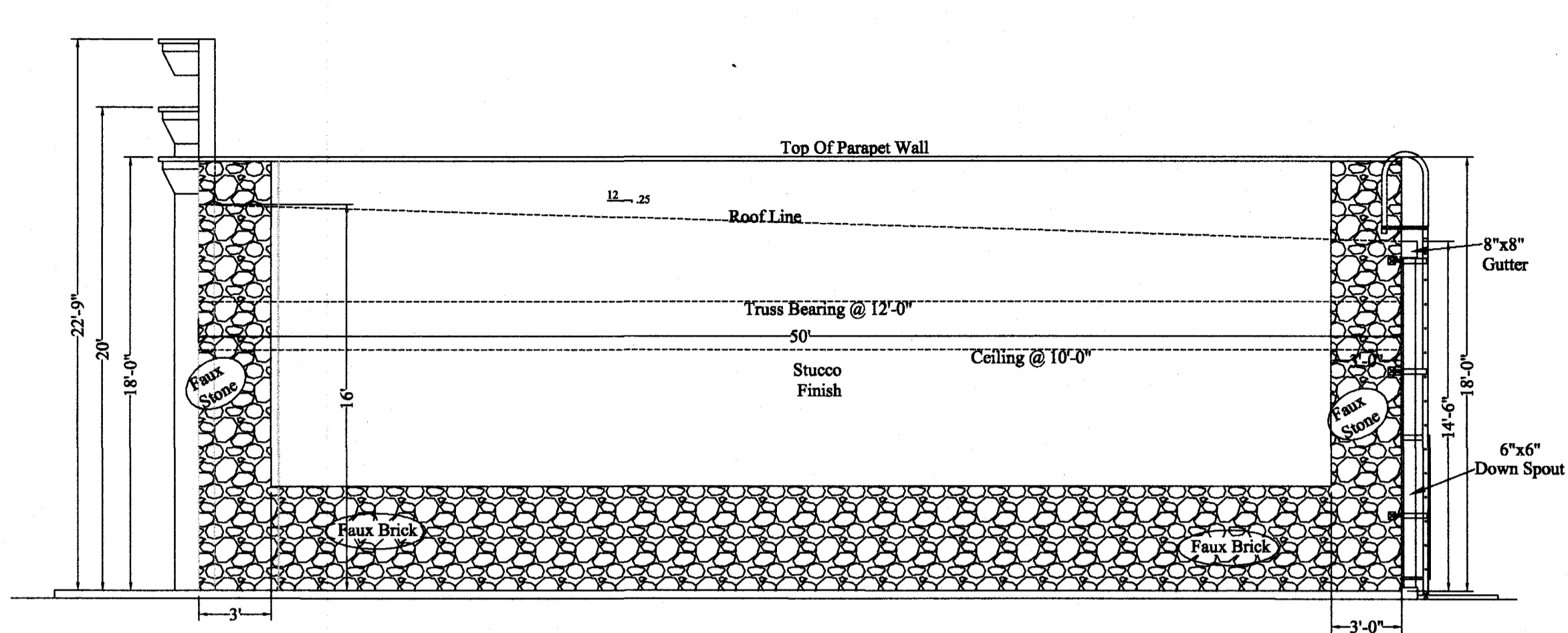
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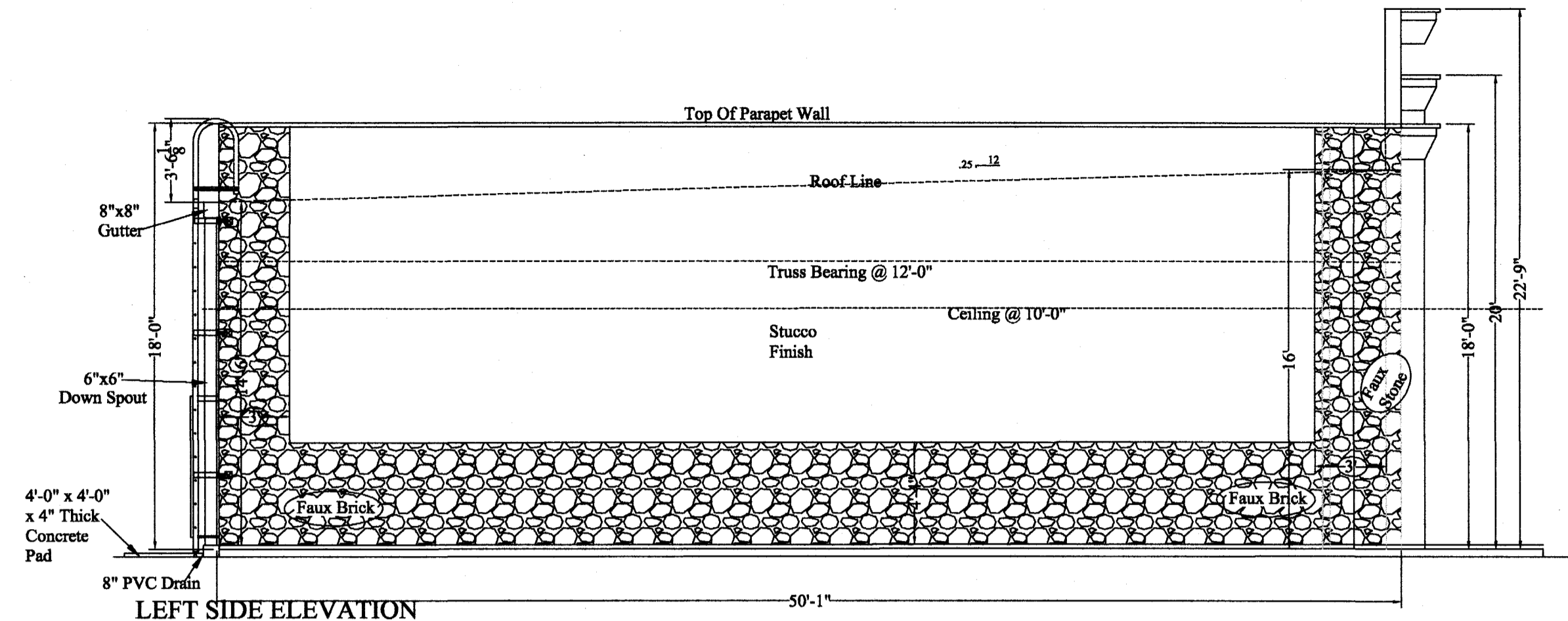
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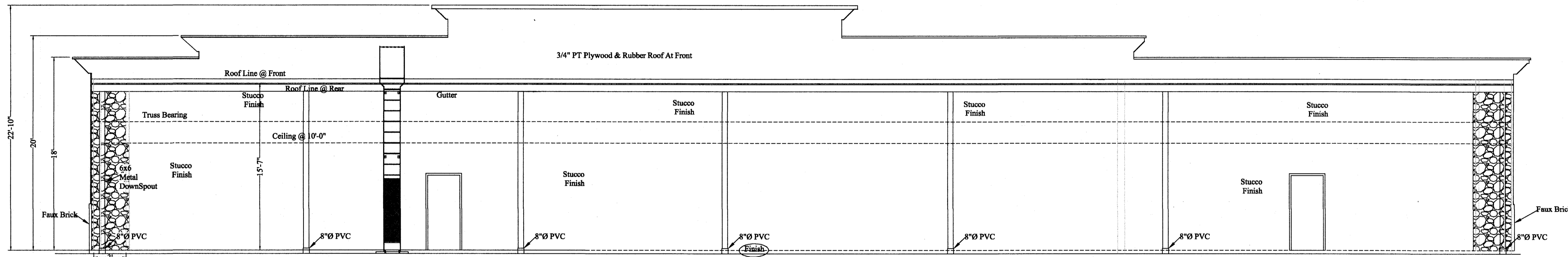
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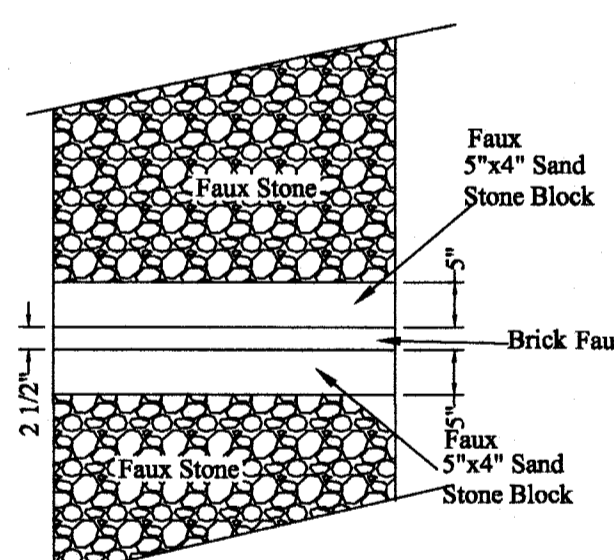
RIGHT SIDE ELEVATION
Scale: 3/16" = 1'-0"



LEFT SIDE ELEVATION
Scale: 3/16" = 1'-0"



REAR ELEVATION
Scale: 3/16" = 1'-0"



INSET DETAIL
No Scale



FRONT ELEVATION
Scale: 3/16" = 1'-0"

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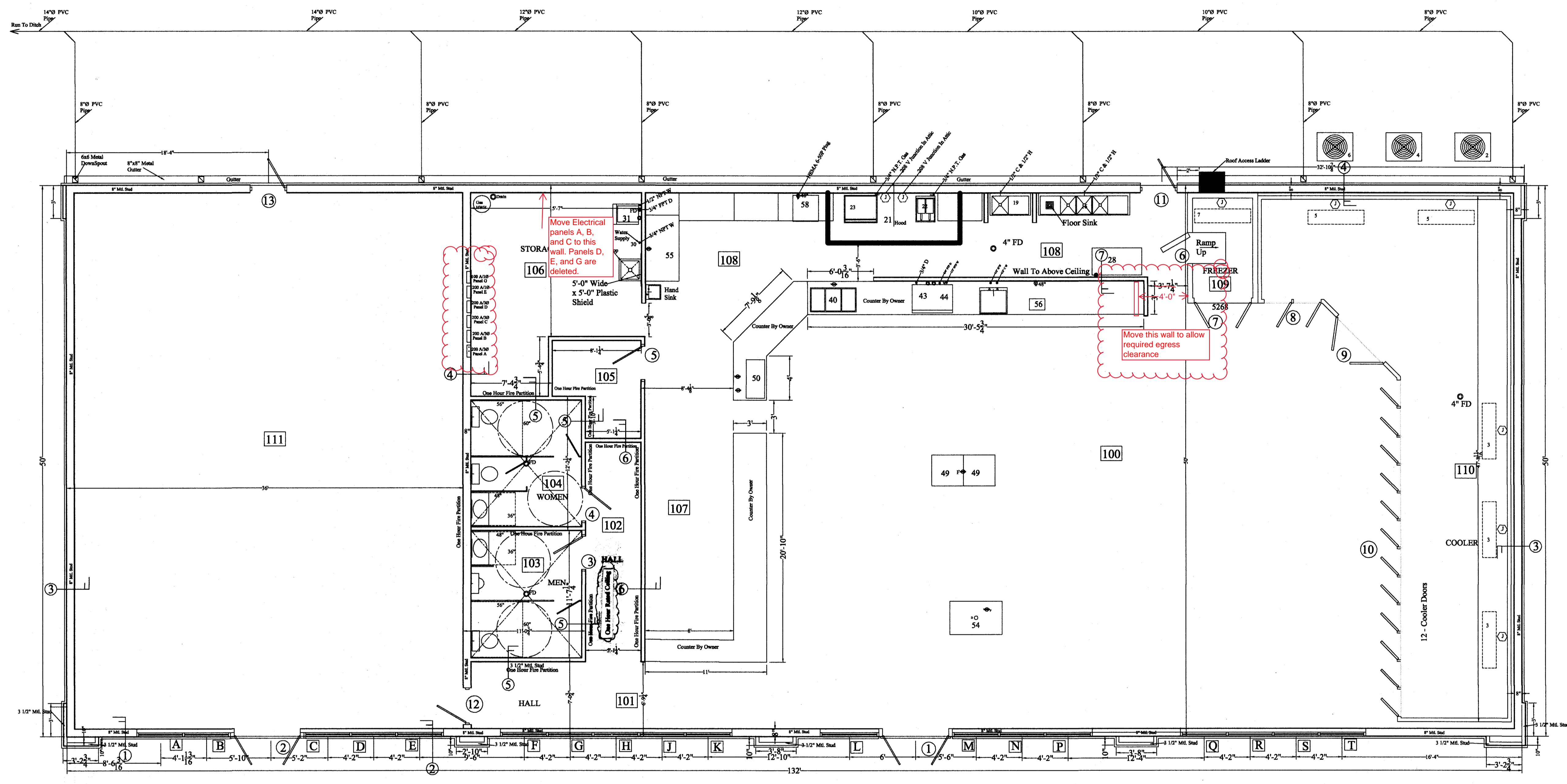
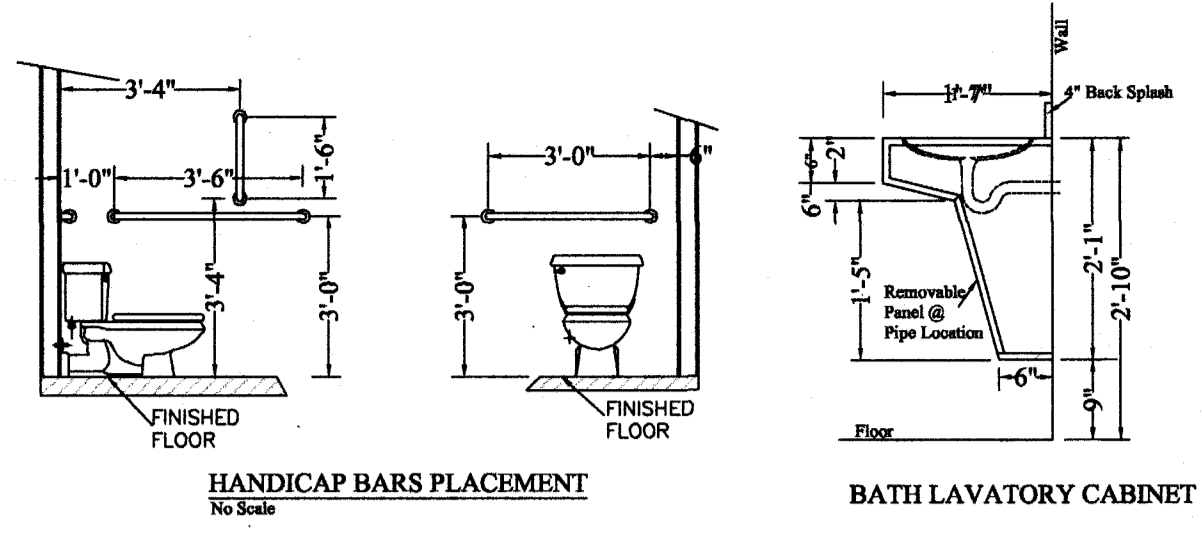
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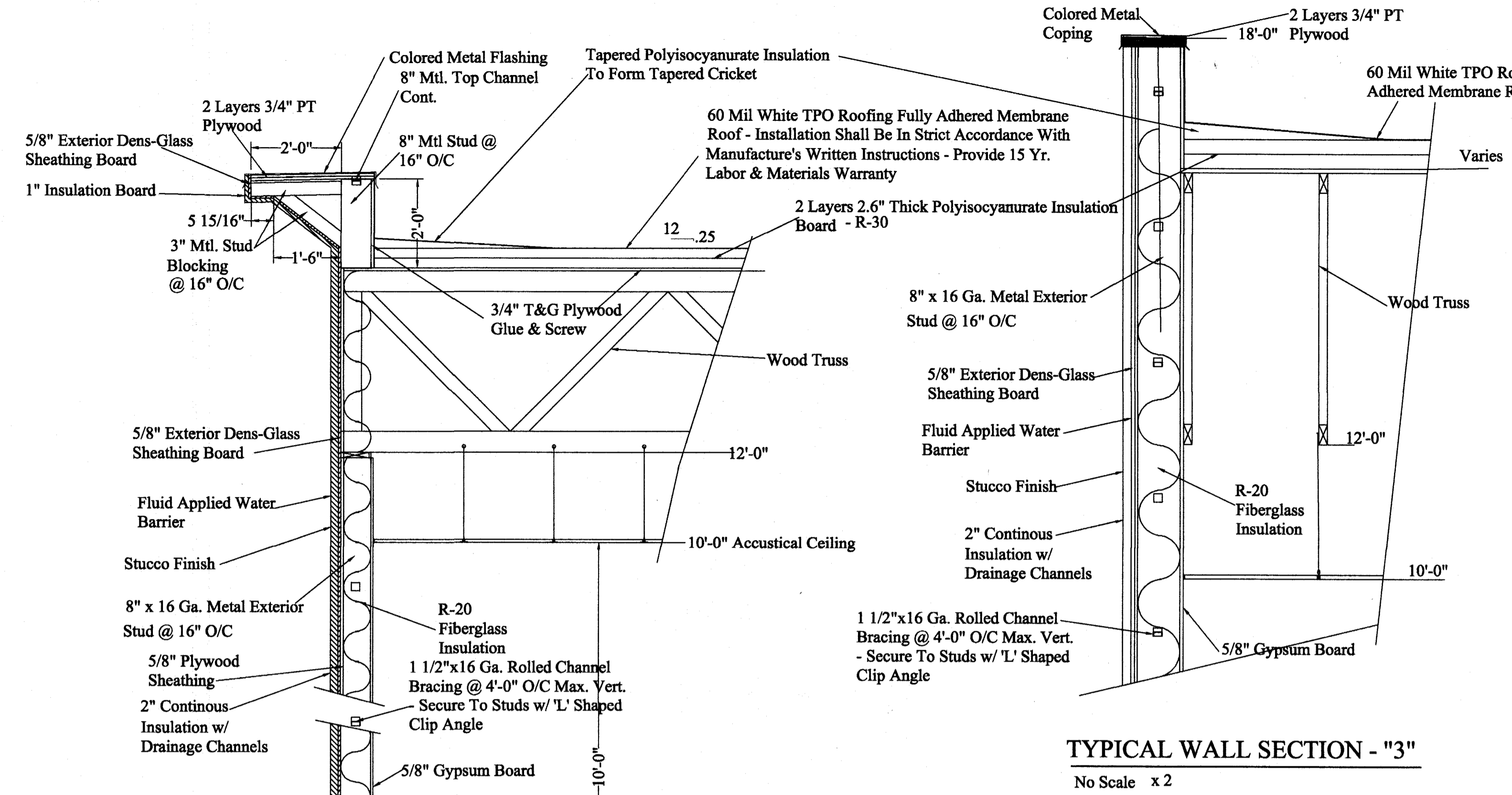
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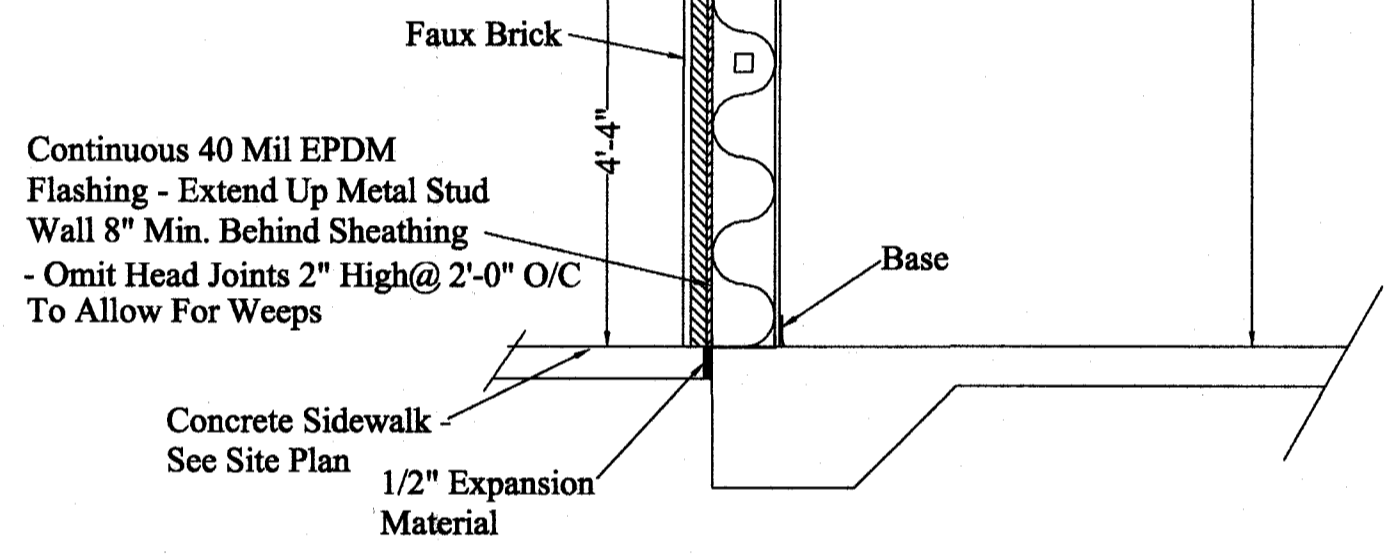
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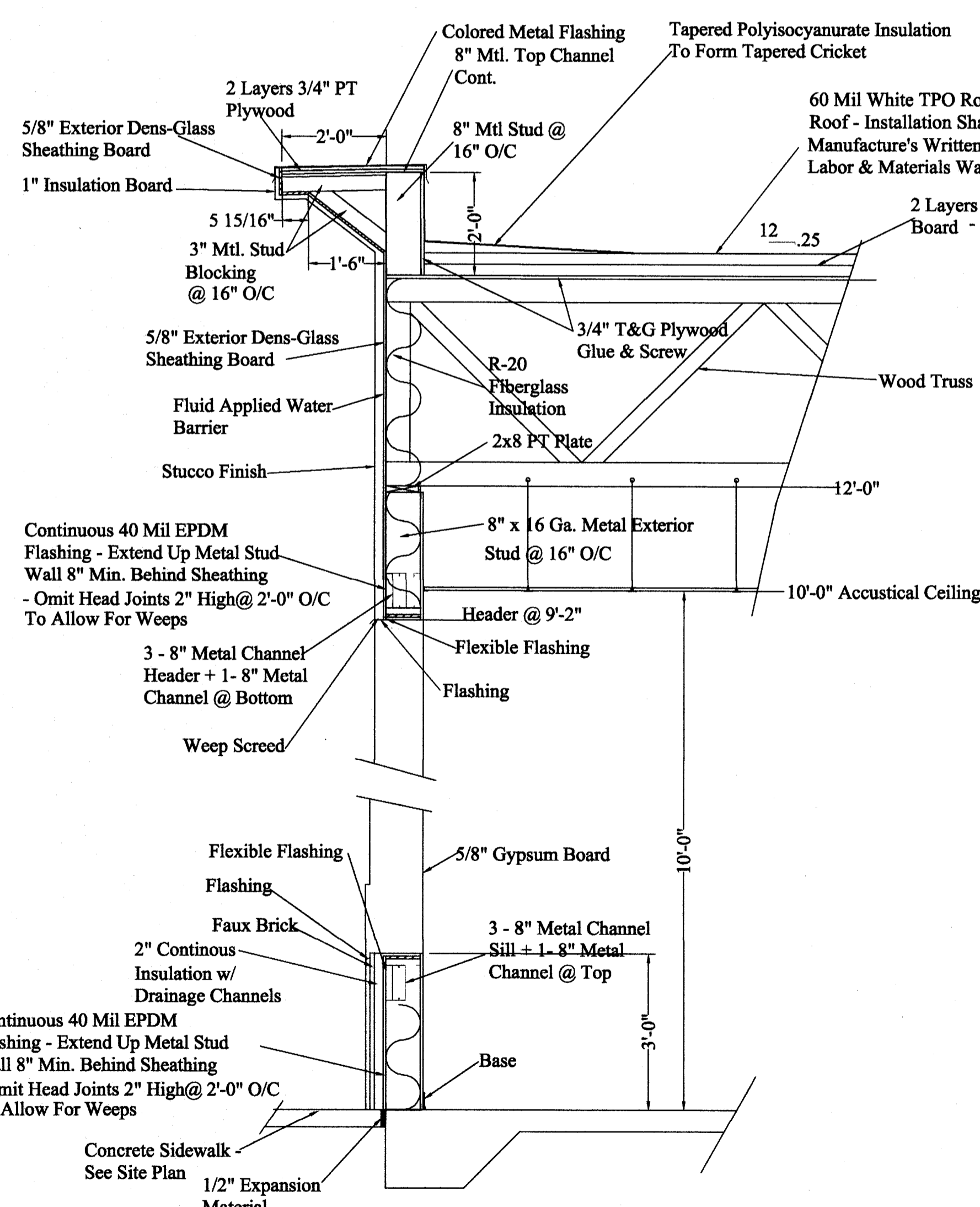




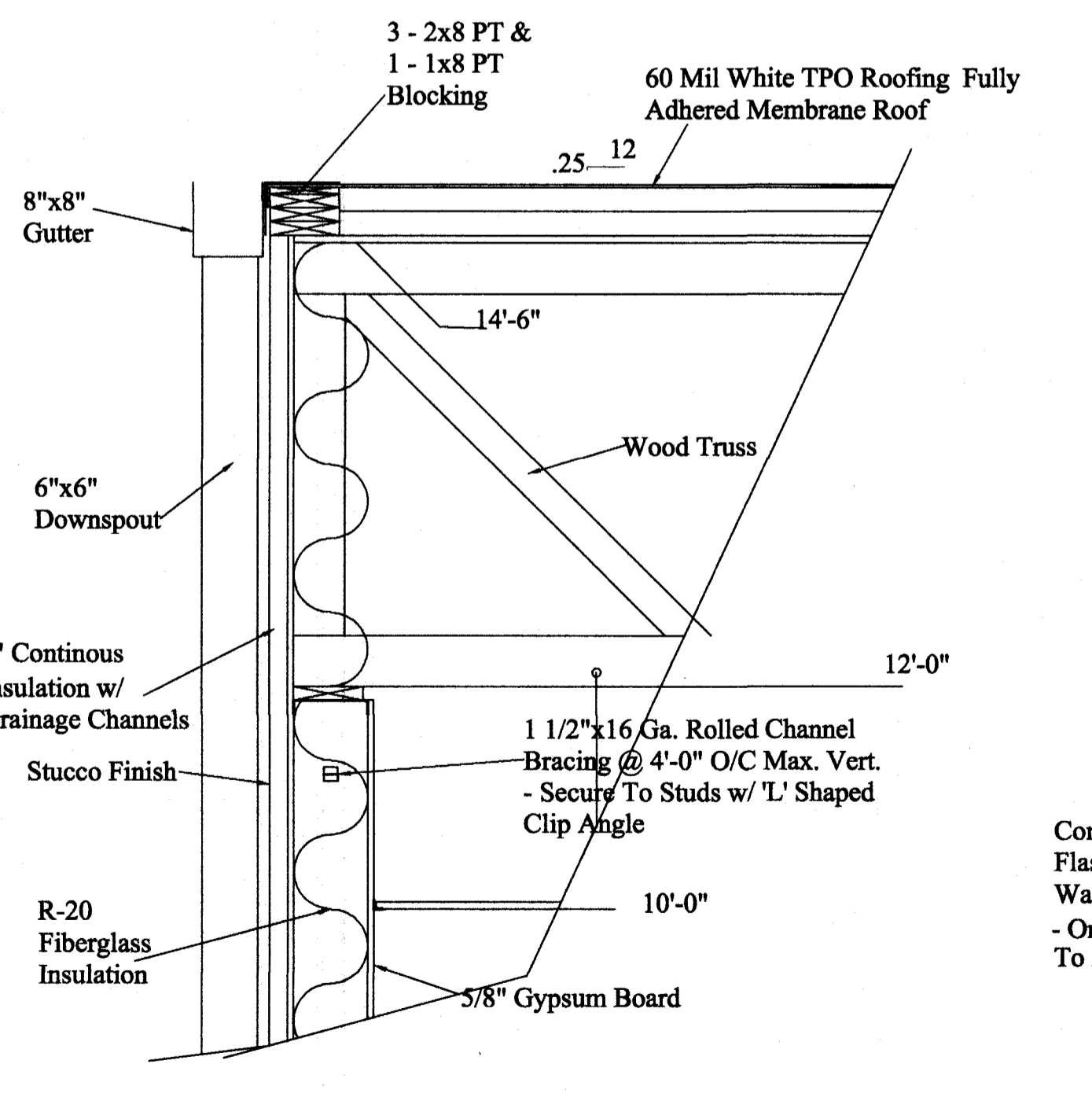
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No Scale x 2



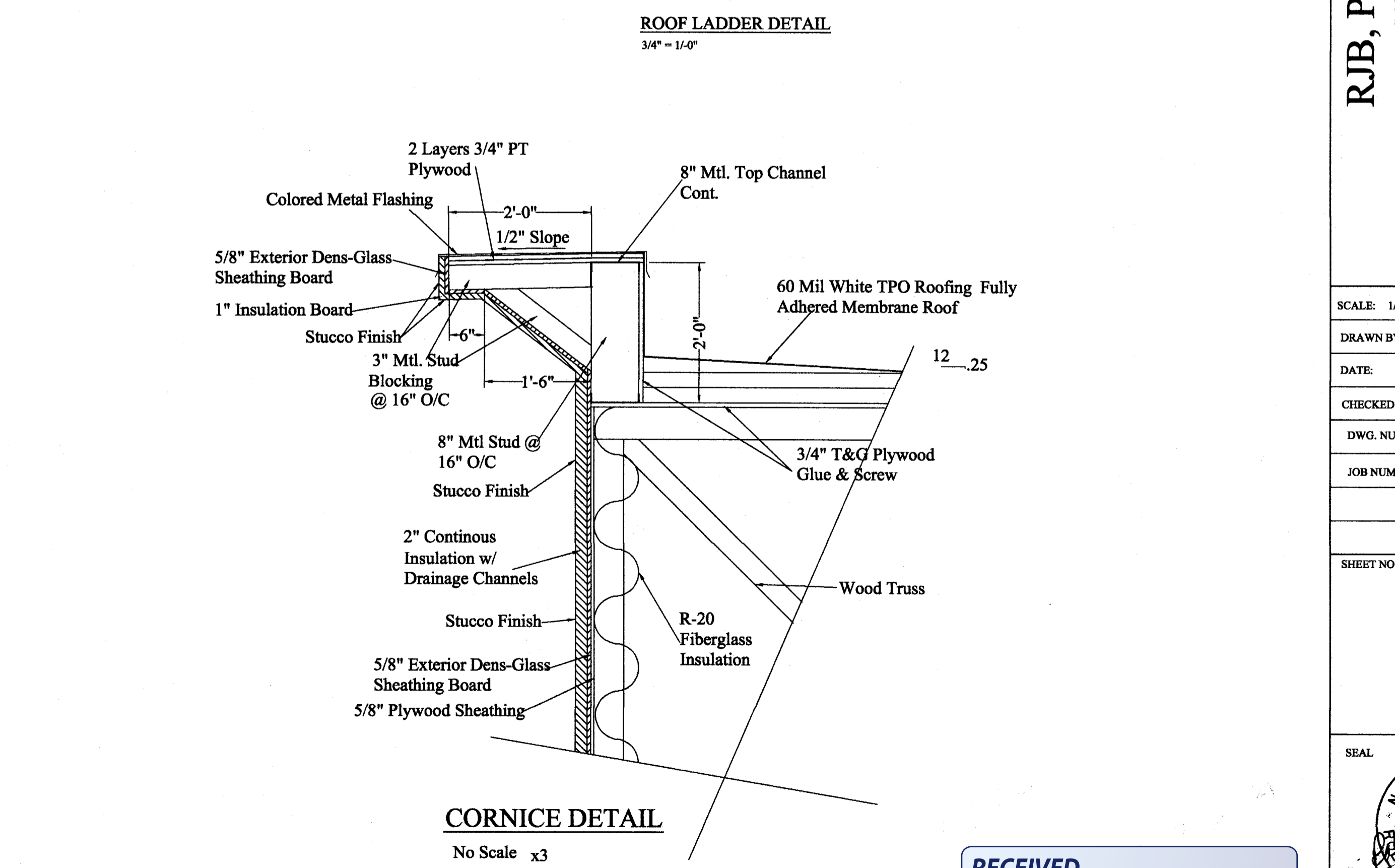
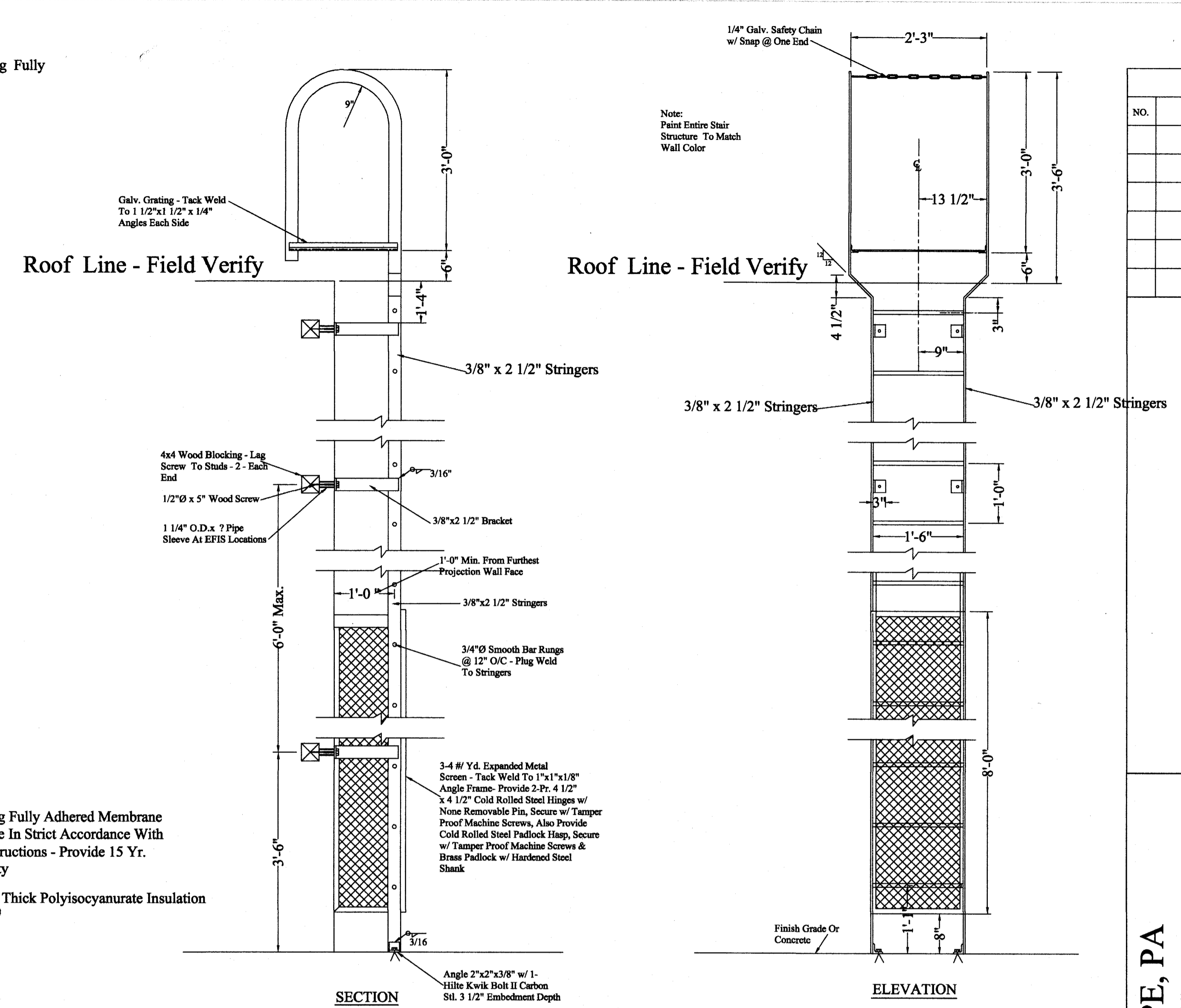
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TYPICAL WALL SECTION - "2"
No Scale x 2



TYPICAL WALL SECTION - "4"
No Scale x 2



CORNICE DETAIL
No Scale x3

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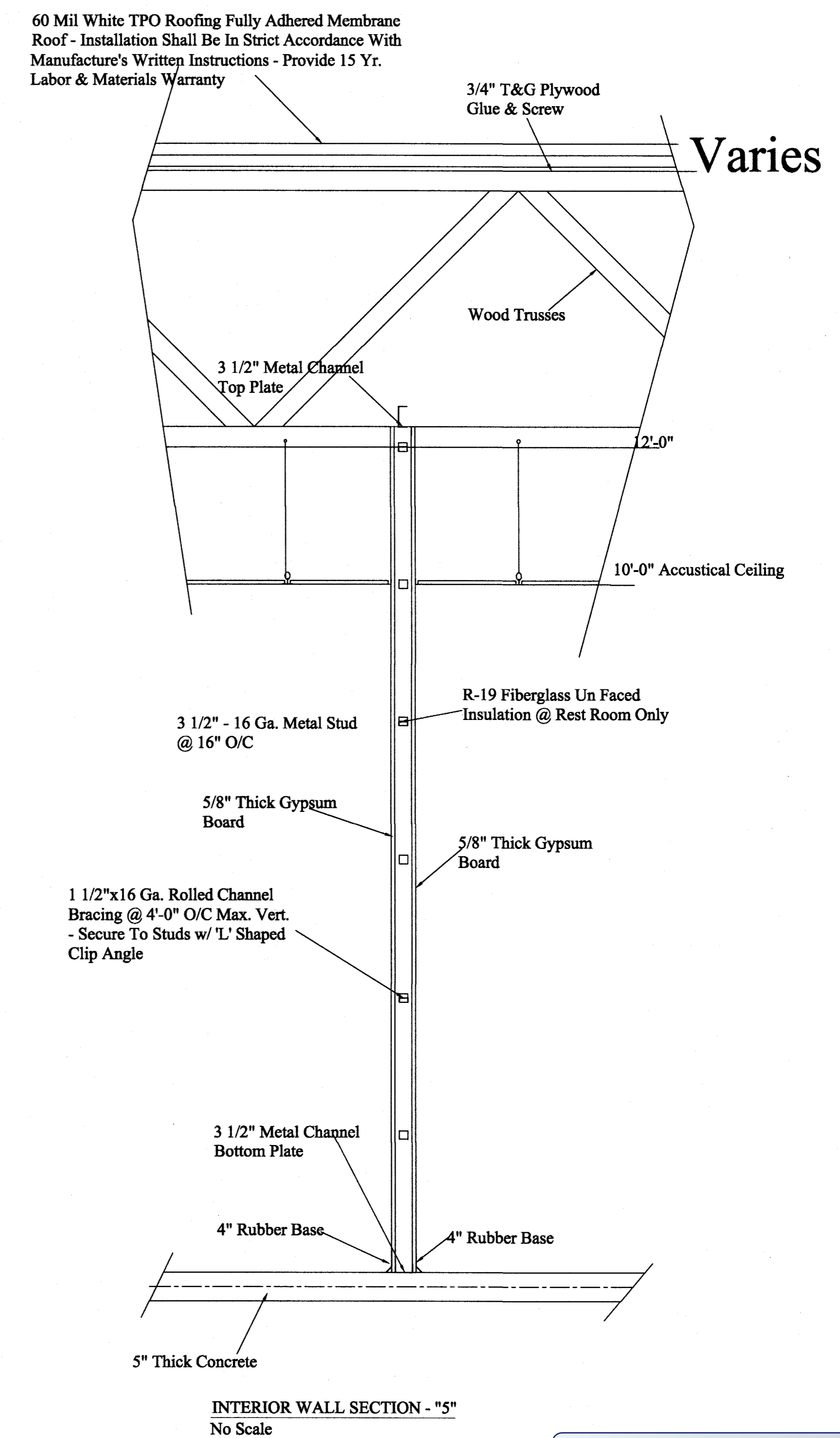
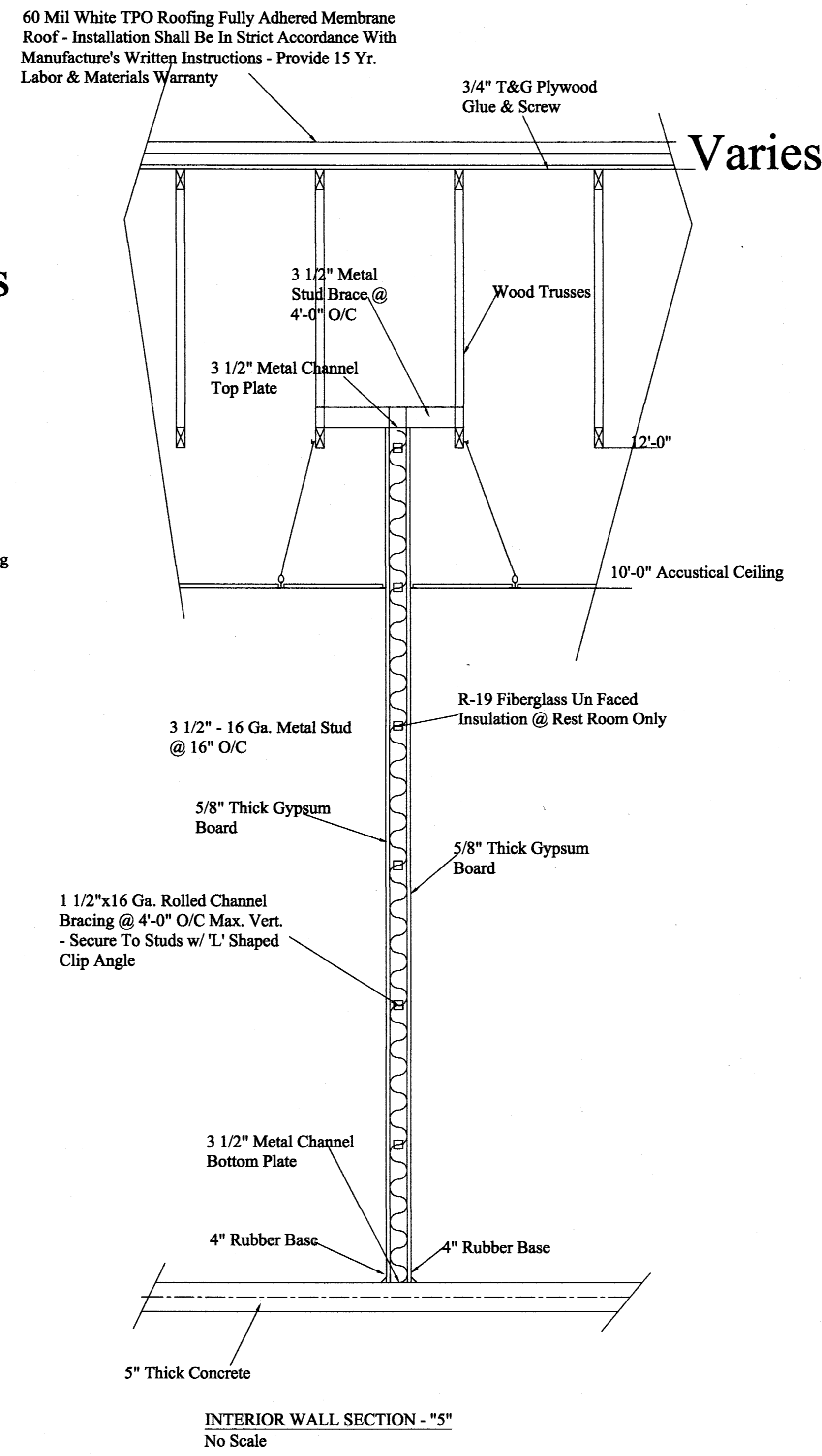
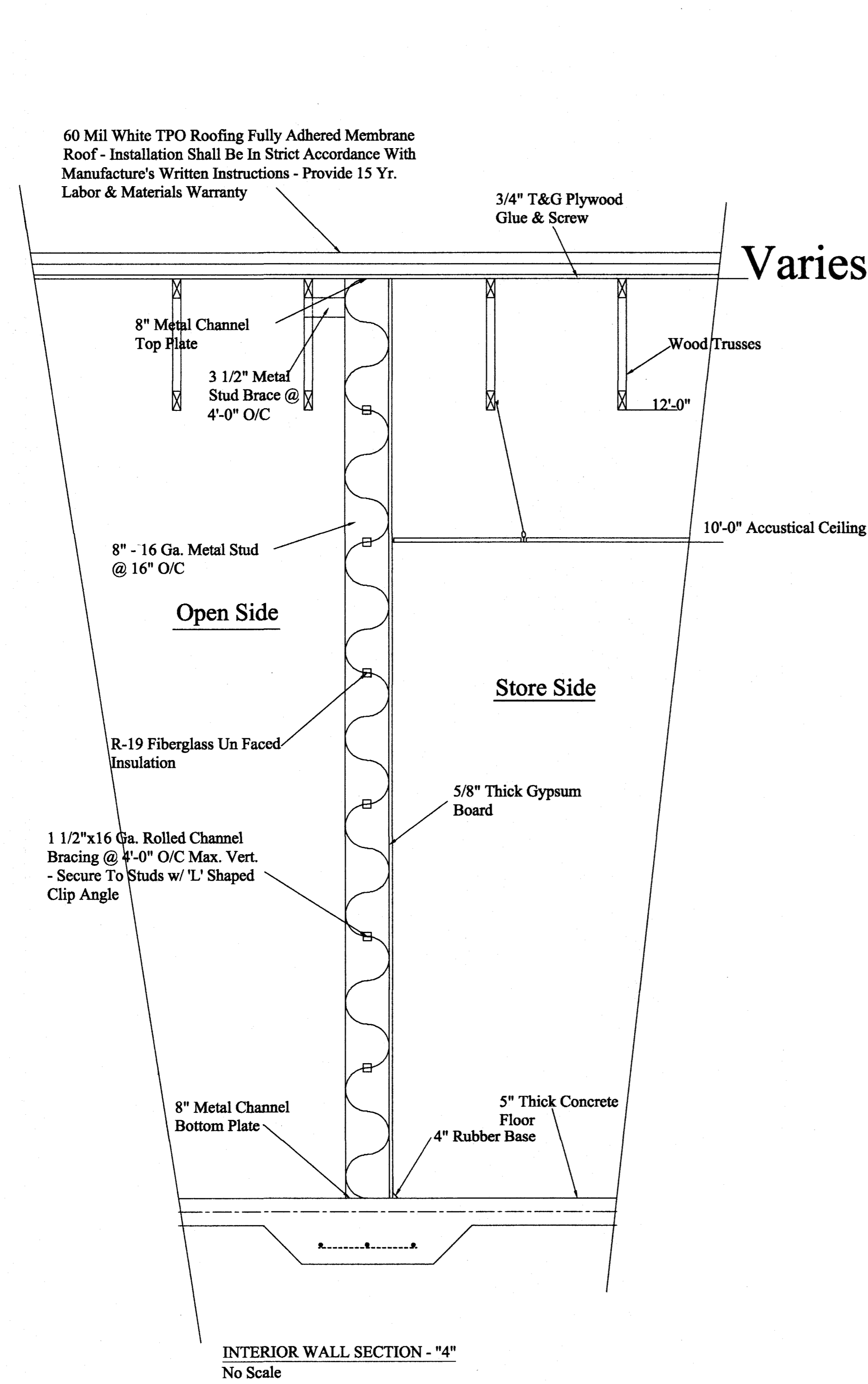
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C-0289
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3768 Carbondon Road • Sanford, NC 27330

SCALE: 1/4" = 1'-0"
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JOB NUMBER:

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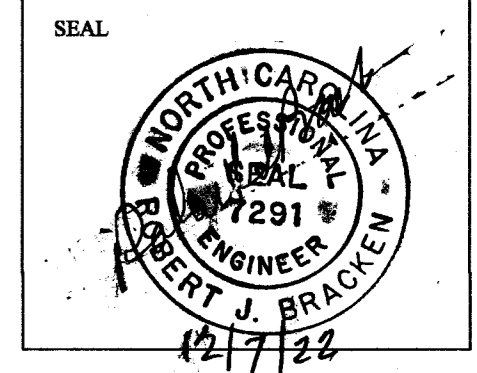
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A NEW CHAMPS CONVENIENCE STORE
 U.S. HWAY 401 NORTH
 Fuquay-Varina, North Carolina 27526

RJB, PE, PA
 C-0269
 Robert J. Bracken
 ENGINEERING • SURVEYING
 3768 Carabontion Road • Sanford, NC 27330

SCALE: 1/4" = 1'-0"
 DRAWN BY: WRJ
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 DWG. NUMBER:
 JOB NUMBER:

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G - 4



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INTERIOR ROOM FINISH									DOOR SCHEDULE								
ROOM NO.	ROOM NAME	FLOORS		WALLS		CEILING		REMARKS	MARK	SIZE	TYPE	FRAME	LIGHTS	REMARKS	PAINT / STAIN	HWD. NO.	
		BASE	FINISH	MATERIAL	FINISH	BASE	TYPE										HEIGHT
100	Main Store	Concrete	24"x24" Porcelain Tile	5/8" Gypsum	Epoxy Paint	4" Rubber	2x4 Lay-in	10'-0"		6070	Store Front	Alum.	Full	W/ 60110 Transom	Factory	A	
101	Store Hall	Concrete	24"x24" Porcelain Tile	5/8" Gypsum	Epoxy Paint	4" Rubber	2x4 Lay-in	10'-0"		6070	Store Front	Alum.	Full	W/ 60110 Transom	Factory	A	
102	Bath Hall	Concrete	24"x24" Porcelain Tile	5/8" Gypsum	Epoxy Paint	4" Rubber	2x4 Lay-in Fire Code	10'-0"		3070	SC Wood	HM	None	Paint HM Frame	Stain	H	
103	Men Rest Rooms	Concrete	24"x24" Porcelain Tile	5/8" Gypsum FRP White Board	PVC Wall Panels (PVC)**	4" Rubber	2x4 Lay-in Fire Code	10'-0"		3070	SC Wood	HM	None	Paint HM Frame	Stain	H	
104	Women Rest Room	Concrete	24"x24" Porcelain Tile	5/8" Gypsum FRP White Board	PVC Wall Panels (PVC)**	4" Rubber	2x4 Lay-in Fire Code	10'-0"		3070	SC Wood	HM	None	Paint HM Frame	Stain	C	
105	Office	Concrete	24"x24" Porcelain Tile	5/8" Gypsum	Epoxy Paint	4" Rubber	2x4 Lay-in	10'-0"		34"x78"	Freezer Panel	Freezer Panel	None		Factory	G	
106	Storage	Concrete	24"x24" Porcelain Tile	5/8" Gypsum	Epoxy Paint	4" Rubber	2x4 Lay-in	10'-0"		2 - 30"x79"	Freezer Panel	Freezer Panel	None		Factory	G	
107	Behind Counter	Concrete	24"x24" Porcelain Tile	5/8" Gypsum FRP White Board	PVC Wall Panels (PVC)**	4" Rubber	2x4 Lay-in	10'-0"		Unit 5'-2 7/16"	Cooler Panel	Cooler Panel	Full		Factory	G	
108	Cooking & Washing	Concrete	24"x24" Porcelain Tile	5/8" Gypsum FRP White Board	PVC Wall Panels (PVC)**	4" Rubber	2x4 Lay-in Fire Code	10'-0"		Unit 73 5/8"	Cooler Panel	Cooler Panel	Full		Factory	G	
109	Freezer	Concrete	Freezer Panel	Freezer Panel	Freezer Panel	None	Freezer Panel	8'-0"		12 - Unit Cooler Doors	Cooler Panel	Cooler Panel	Full		Factory	G	
110	Beer & Drinks Cooler	Concrete	Smooth Finish	Cooler Panel	Cooler Panel	None	Cooler Panel	8'-0"		3070	HM	HM	None	Paint HM Frame	Paint	E	
111	Empty Space	Concrete	Smooth Finish	Bare Studs	None	None	Open To Trusses	16'-0"		3070	SC Wood	HM	None	Paint HM Frame	Stain	E	
										3070	HM	HM	None	Paint HM Frame	Paint	E	

20min Rating
20min Rating

WINDOW SCHEDULE				
MK	TYPE	SIZE	FRAME	REMARKS
A,B,C,D,E,F,G,H,I,K,M,N,P,Q,R,S,T	Store Front	40x510	Alum.	Fixed Glass
L,M	Store Front	50x510	Alum.	Fixed Glass

Thermal Windows, INC Series 4150 "u" Factor .42

HARDWARE SCHEDULE	
A	6 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Cylinder Lock, 2-Pull Handle, 2-Push Plate, 2-Closer, Threshold, Weatherstripping, Panic Hardware, Supplied By Manufacturer
B	3 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Cylinder Lock, Pull Handle, Push Plate, Kick Plate, Closer, Threshold, Weatherstripping, Panic Hardware, Supplied By Manufacturer
C	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Entrance Lock Set, Kick Plate
D	3 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Cylinder Lock, Pull Plate, Kick Plate, Closer, Threshold, Weatherstripping, Panic Hardware
E	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Entrance Lock Set, Closer, Threshold, Weatherstripping, Panic Hardware
F	3 Pr. 4 1/2" x 4 1/2" Hinges, Pull Handle, Push Plate, Kick Plate, Closer, Threshold, Panic Hardware
G	Supplied By Manufacturer
H	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges, Pull Handle, Push Plate, Kick Plate, Closer, 2" x 12" Brown Plastic Sign (Men / Women)
J	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges, Entrance Set, Kick Plate, Closer
	3 Pr. 4 1/2" x 4 1/2" Hinges, Passage Set, Kick Plate
	All Hardware To Be Handicap Accessible

NOTES: Door Locks & Passage Sets To Be By Corbin - Russwin
Door Hardware To Be By Von Duprin
Chrome Finish - 26 D

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SCALE: 3/16" = 1'-0"
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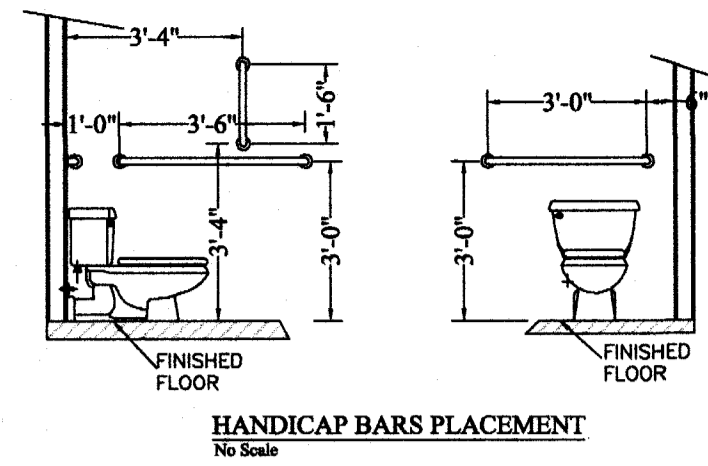
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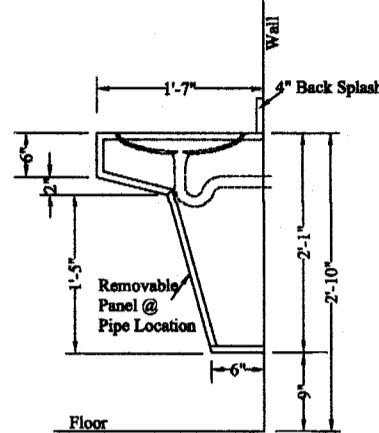
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LEGEND

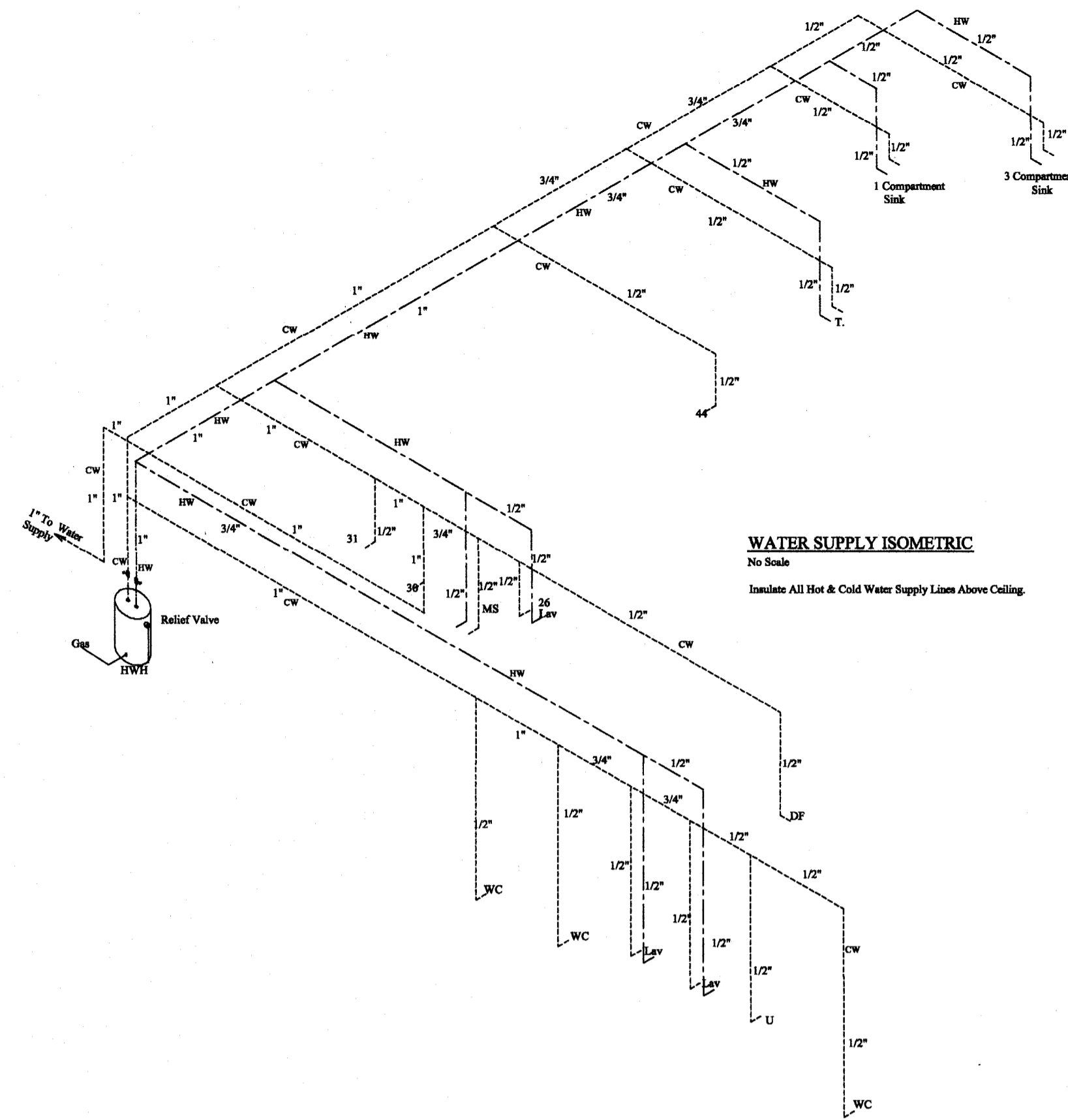
- DF - Drinking Fountain
- CO - Clean Out
- FD - Floor Drain
- LAV - Lavatory
- WC - Water Closet
- U - Wall Urinal
- VTR - Vent Through Roof
- CW - Cold Water
- HW - Hot Water
- FWH - Frost Proof Hose Bibb
- HB - Regular Hose Bibb
- KS - Single Kitchen Sink
- MS - Floor Map Sink



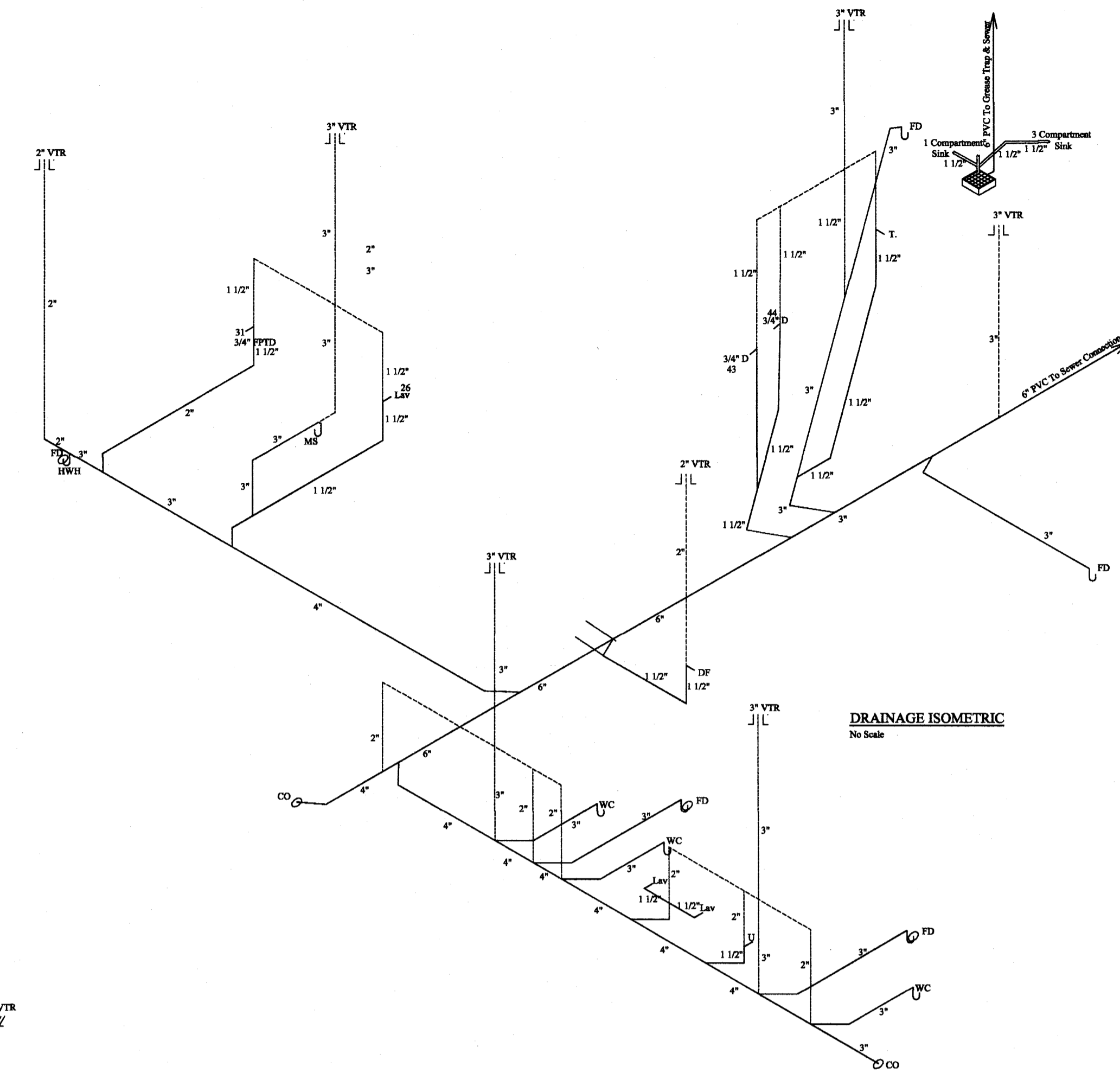
HANDICAP BARS PLACEMENT
No Scale



BATH LAVATORY CABINET



WATER SUPPLY ISOMETRIC
No Scale
Insulate All Hot & Cold Water Supply Lines Above Ceiling.



DRAINAGE ISOMETRIC
No Scale

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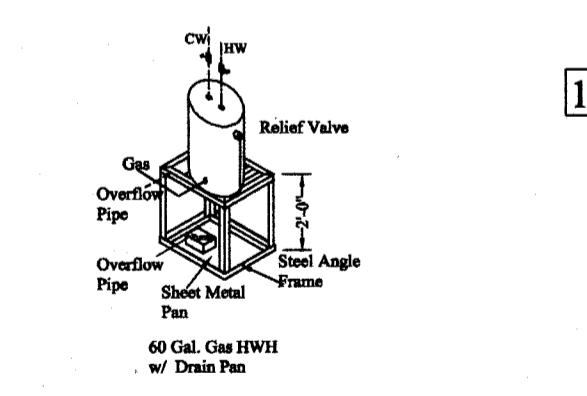
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P - 1
SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER REG. NO. 2911 ROBERT J. BRACKEN

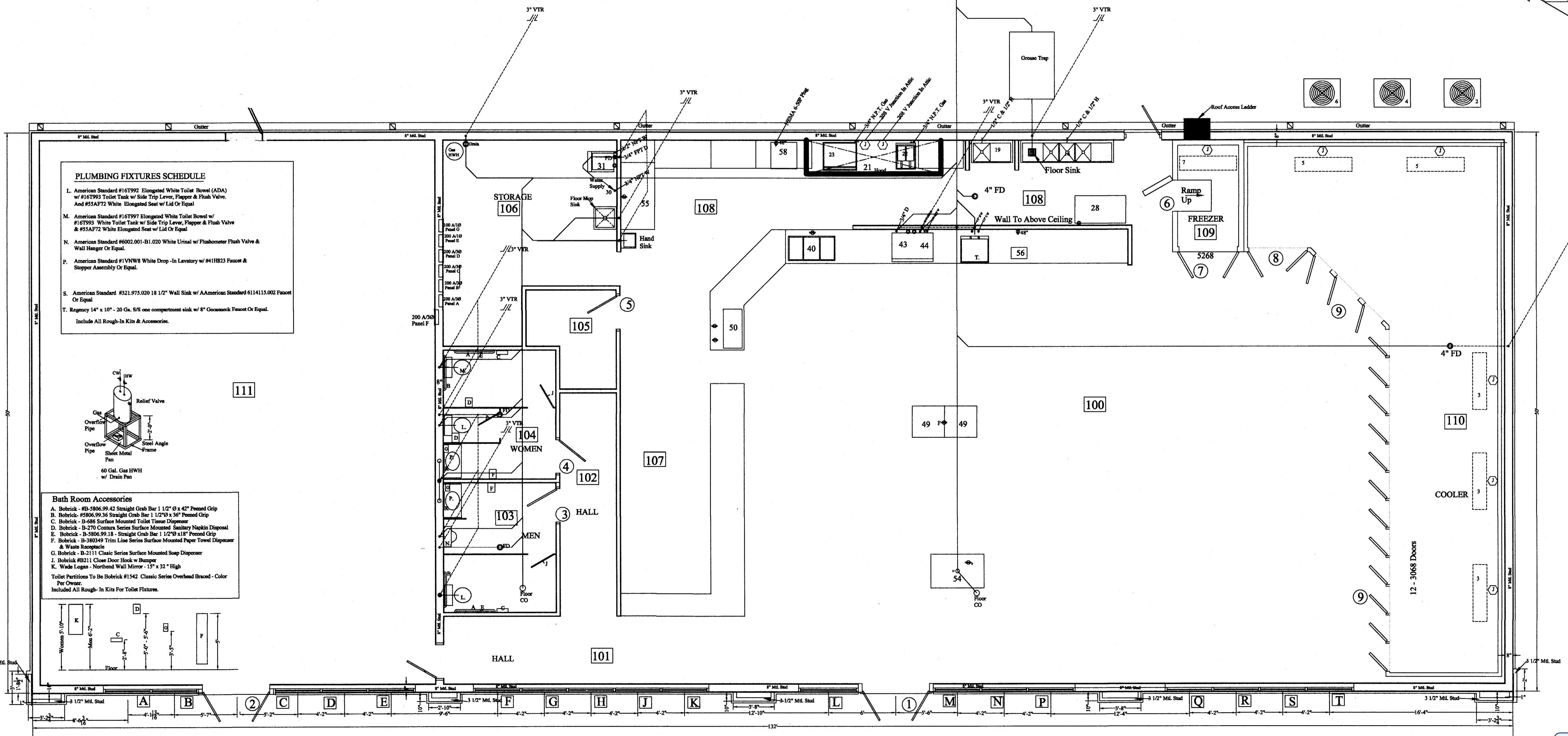
PLUMBING FIXTURES SCHEDULE

- I. American Standard #161992 Elongated White Toilet Bowl (ADA) w/ #161993 Toilet Tank w/ Side Trip Lever, Flapper & Flush Valve. ADA #S4772 White Elongated Seat w/ Lid Or Equal.
- M. American Standard #161997 Elongated White Toilet Bowl w/ #161993 White Toilet Tank w/ Side Trip Lever, Flapper & Flush Valve & #S4772 White Elongated Seat w/ Lid Or Equal.
- N. American Standard #6002-001-811-020 White Urinal w/ Flushometer Flush Valve & Wall Hanger Or Equal.
- Z. American Standard #1VNW6 White Drop-In Lavatory w/ #418823 Faucet & Stopper Assembly Or Equal.
- S. American Standard #321.975.020 18 1/2" Wall Sink w/ American Standard #114115.002 Faucet Or Equal.
- T. Regency 14" x 10" - 20 Ga. 5/8" rim compartment sink w/ 8" Chromastil Faucet Or Equal.

Include All Rough-In Kits & Accessories.



- Bath Room Accessories**
- A. Bobrick - #B-2806-99-42 Straight Grab Bar 1 1/2" x 42" Permed Grip
 - B. Bobrick - #B-2806-99-36 Straight Grab Bar 1 1/2" x 36" Permed Grip
 - C. Bobrick - #B-486 Surface Mounted Toilet Tissue Dispenser
 - D. Bobrick - #B-290 Counter Series Surface Mounted Sanitary Napkin Dispenser
 - E. Bobrick - #B-5006-99-18 - Straight Grab Bar 1 1/2" x 18" Permed Grip
 - F. Bobrick - #B-30549 Trim Line Series Surface Mounted Paper Towel Dispenser & Waste Receptacle
 - G. Bobrick - #B-2311 Classic Series Surface Mounted Soap Dispenser
 - J. Bobrick #B211 Close Door Hook w/ Bumper
 - K. Wade Logan - Northend Wall Mirror - 15" x 12" High
- Toilet Partitions To Be Bobrick #1542 Classic Series Overhead Inwood - Color Per Owner.
Included All Rough-In Kits For Toilet Fixtures.



PLUMBING PLAN
Scale: 3/16" = 1'-0"

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EQUIPMENT SCHEDULE						
TAG	MODEL	HEATING BTU @ 17°F	LOW C.O.P.	COOLING BTU	SEER RATING	VOLTS / PHASE
RTU #1		90,000		42,000	14.25	208/230 / 1Ø
RTU #2		90,000		48,500	14.2	208/230 / 1Ø
RTU #3		90,000		48,500	12	208/230 / 1Ø
RTU #4		90,000		48,500	12	208/230 / 1Ø

AIR DISTRIBUTION SCHEDULE						
TAG	MODEL	TYPE	SIZE	FINISH	DUCT SIZE	CFM
A		Lay-In	24"x24"	White	6"	
B		Lay-In	24"x24"	White	8"	
C		Lay-In	24"x24"	White	9"	
H		Lay-In	24"x24"	White	10"	
J		Lay-In	24"x24"	White	20"x20"	

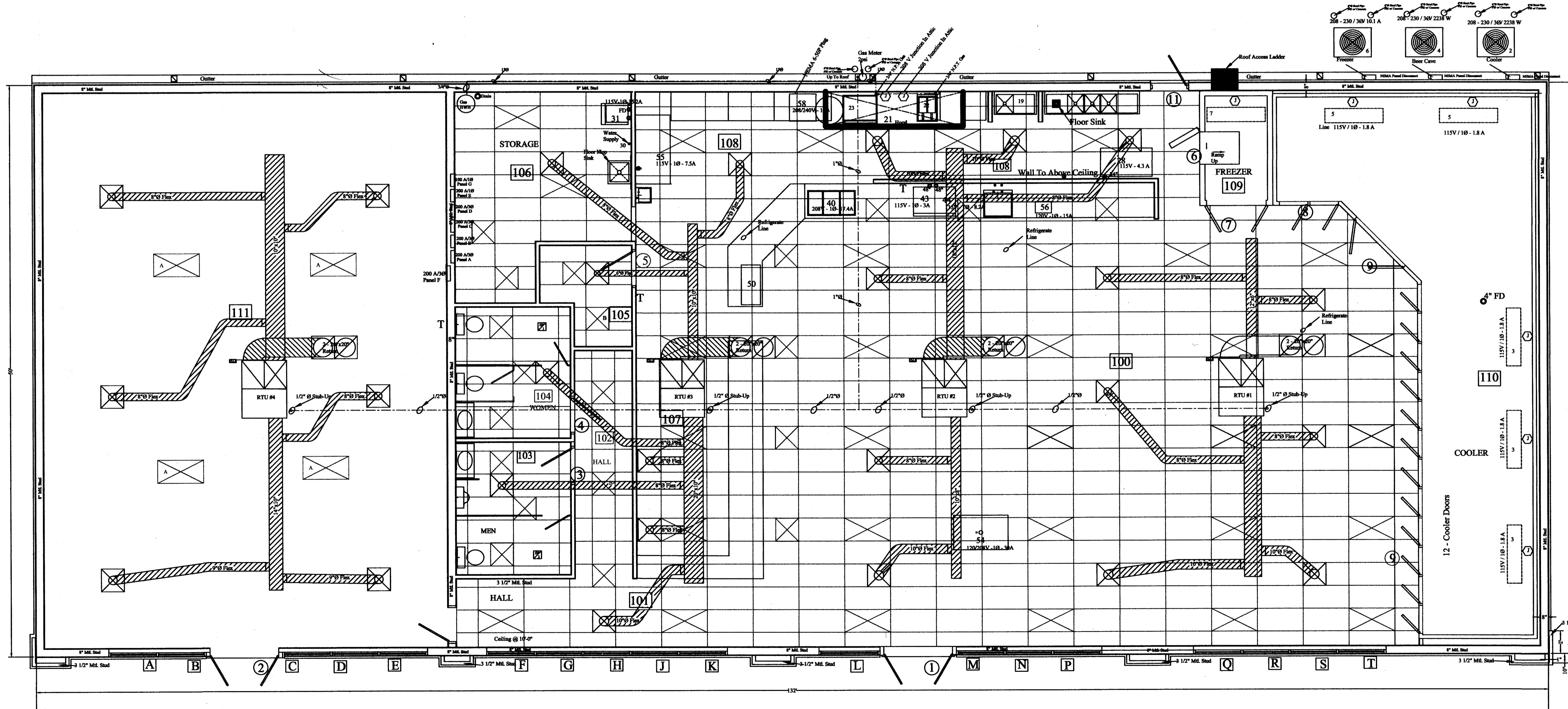
FAN SCHEDULE						
TAG	MODEL	TYPE	CFM	RPM	VOLTS	SONES
EF #1		Ceiling Exhaust Fan	200	900	110 V / 1Ø	2.3
EF #2		Ceiling Exhaust Fan	200	900	110 V / 1Ø	2.3

MECHANICAL NOTES

Control wiring by Mechanical Contractor.
 Power wiring from fused disconnects by Mechanical Contractor.
 Manual thermostat w/ 18/10 thermostat wire.
 Condensate unit to be bolted to floor.
 Galvanized duct work w/ 1 1/2" fiberglass insulation w/ leading edge cover.
 Fiberglass liner to be buttered at all joints w/ adhesive.
 Duct joints to receive sealer at all penetrations.
 Rectangular duct measurements are external.
 Flexible fiberglass branch lines to be class #1.
 Branch take-offs to be gasket type w/ manual damper.
 Branch line connections to be banded.
 18" or larger duct to be cross-braced.
 Canvas connections at all air handlers.
 Adjust air quantities to those shown on plans.
 Fresh air duct gets 2" insulated wrap.
 Wall sleeves & refrigerant lines by Mechanical Contractor.
 Smoke detectors in return plenums.
 Toilet exhaust fans supplied by Mechanical Contractor & wired by Electrical Contractor.
 Gas piping to be schedule 40 black iron.
 Liner to be glued-full coverage - spot pins @ 12" O/C horizontal & vertical.
 Turning vanes in rectangular ductells.
 Use wall sleeves for gas piping & refrigerate lines.
 Emergency drain pan for all A/C coils.
 No refrigerate line joints in wall cavity.
 Duct hangers attached horizontally or vertically.
 Mount equipment w/ moving parts on isolation pads.
 Do not use stamped registers or grills.
 Fresh air duct wrapped externally.

Symbols:
 T - Thermostat □ - Manual Damper S.D. - Smoke Detector
 F.D. - Fire Damper SP.D - Splitter Damper

Spot Weld 26 Ga. Galvanized
 Air Flow 1 1/2" Insulation
 Spot Weld 26 Ga. Galvanized
 Duct Work Insulation
 Leading Edge Cover
 No Scale



HVAC PLAN
 Scale: 3/16" = 1'-0"
 Gas Piping To Be Black Iron Pipe
 Gas Piping To Go Up Rise Wall & Go Into Attic & Stub Up At Each Roof Top Unit.

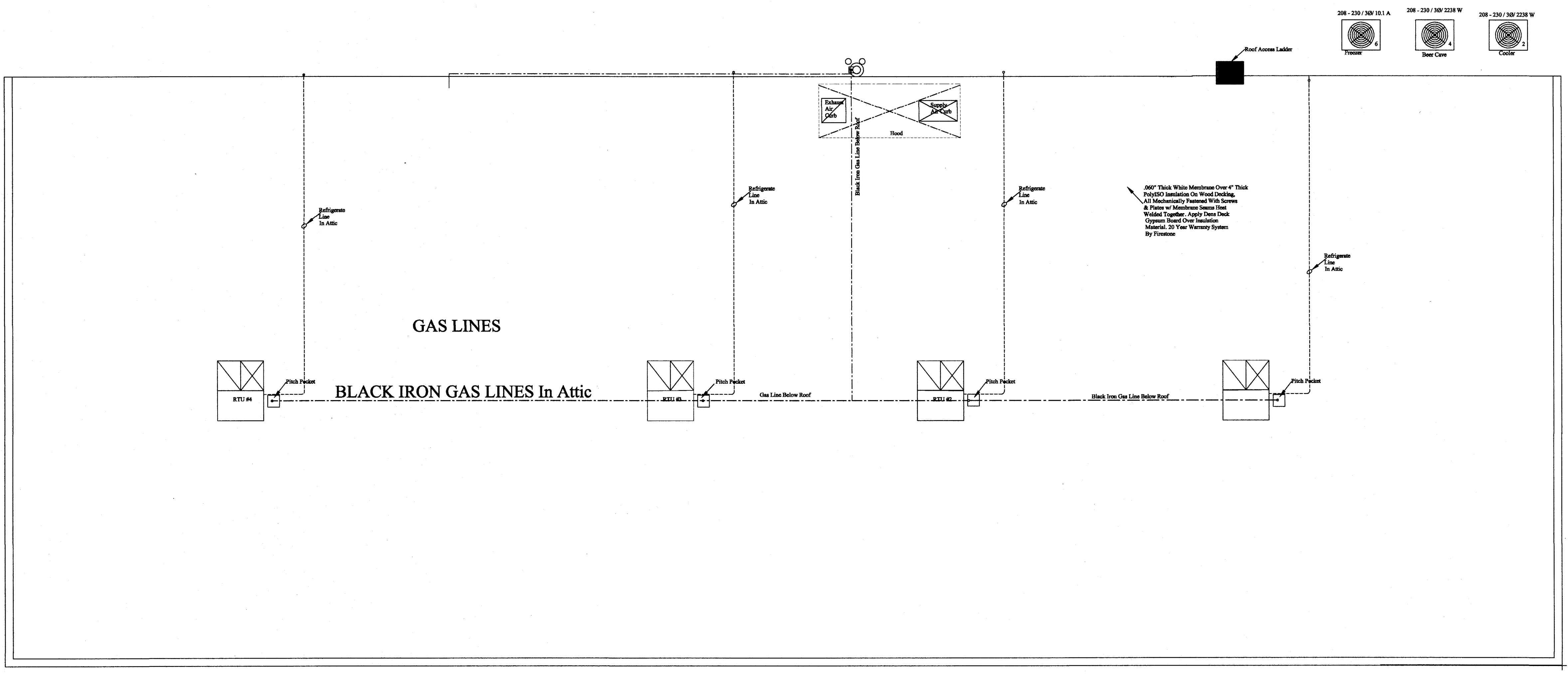
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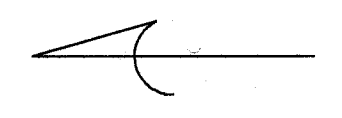
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ROOF TOP LAYOUT
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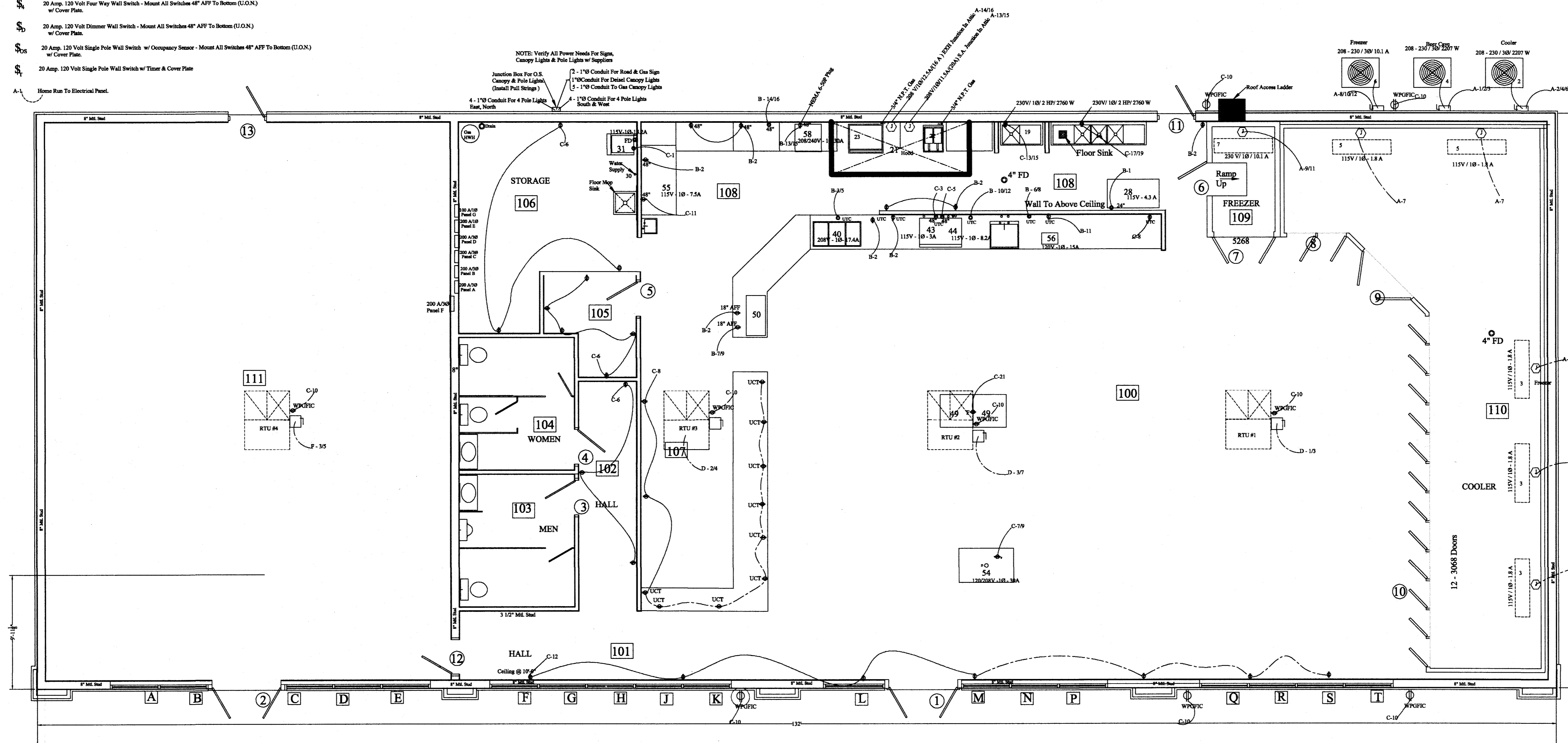
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NORTH CAROLINA
PROFESSIONAL ENGINEER
ROBERT J. BRACKEN
12/7/22

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ELECTRICAL LEGEND

- ⊗ Egress Light
- ⊕ Wall Packs
- ⊕ Emergency Light
- ⊕ Emergency/Exit Light
- ⊕ Exit Light
- UTC 20 Amp 120 Volt Duplex Wall Receptacle w/ Plastic Cover Plate. Dedicated Circuits To Have 20 Amp 120 Volt Receptacle. @18" AFF UNO - Under Top Counter
- ⊕ 20 Amp 120 Volt Duplex Wall Receptacle w/ Plastic Cover Plate. Dedicated Circuits To Have 20 Amp 120 Volt Receptacle. @18" AFF UNO
- ⊕ 20 Amp 120 Volt Duplex Wall Receptacle w/ Plastic Cover Plate. Dedicated Circuits To Have 20 Amp 120 Volt Receptacle. @18" AFF UNO
- ⊕ 20 Amp 120 Volt Duplex Wall Receptacle w/ Plastic Cover Plate. Dedicated Circuits To Have 20 Amp 120 Volt Receptacle. @18" AFF UNO
- ⊕ 15 Amp 120 Volt Weather Proof Ground Fault Receptacle w/ Weather Proof Cover. @18" AFF UNO
- ⊕ 30 Amp 220 Volt Wall Receptacle w/ Appropriate Cover Plate - (See Appliance For Proper Ampage). @18" AFF UNO
- ⊕ 30 A - 208-240V - 1 Ø - Floor Receptacle
- ⊕ Disconnect Switch - See Electrical Plans & HVAC Plans For Locations And Ampage.
- ⊕ Telephone Outlet: Electrical Contractor To Provide Box And Install Pull String And Proper Plate
- ⊕ Computer Outlet: Electrical Contractor To Provide Box And Install Pull String And Proper Plate.
- JUNCTION BOX: PROVIDE BOC & COVER AS REQUIRED TO SERVE EQUIPMENT.
- ⊕ Junction Box: Provide Box & Cover As Required To Serve Equipment.
- ⊕ 20 Amp 120 Volt Single Pole Wall Switch - Mount All Switches 48" AFF To Bottom (U.O.N) w/ Cover Plate.
- ⊕ 20 Amp 120 Volt Three Way Wall Switch - Mount All Switches 48" AFF To Bottom (U.O.N) w/ Cover Plate.
- ⊕ 20 Amp 120 Volt Four Way Wall Switch - Mount All Switches 48" AFF To Bottom (U.O.N) w/ Cover Plate.
- ⊕ 20 Amp 120 Volt Dimmer Wall Switch - Mount All Switches 48" AFF To Bottom (U.O.N) w/ Cover Plate.
- ⊕ 20 Amp 120 Volt Single Pole Wall Switch w/ Occupancy Sensor - Mount All Switches 48" AFF To Bottom (U.O.N) w/ Cover Plate.
- ⊕ 20 Amp 120 Volt Single Pole Wall Switch w/ Timer & Cover Plate
- Home Run To Electrical Panel.



ELECTRICAL POWER PLAN
Scale: 3/16" = 1'-0"

ELECTRICAL PANEL: 12" In For O.S. Area Pole Lights & Lights & Gas Pump Island.
Lights & Conduit Wire & Circuit Breakers By Others

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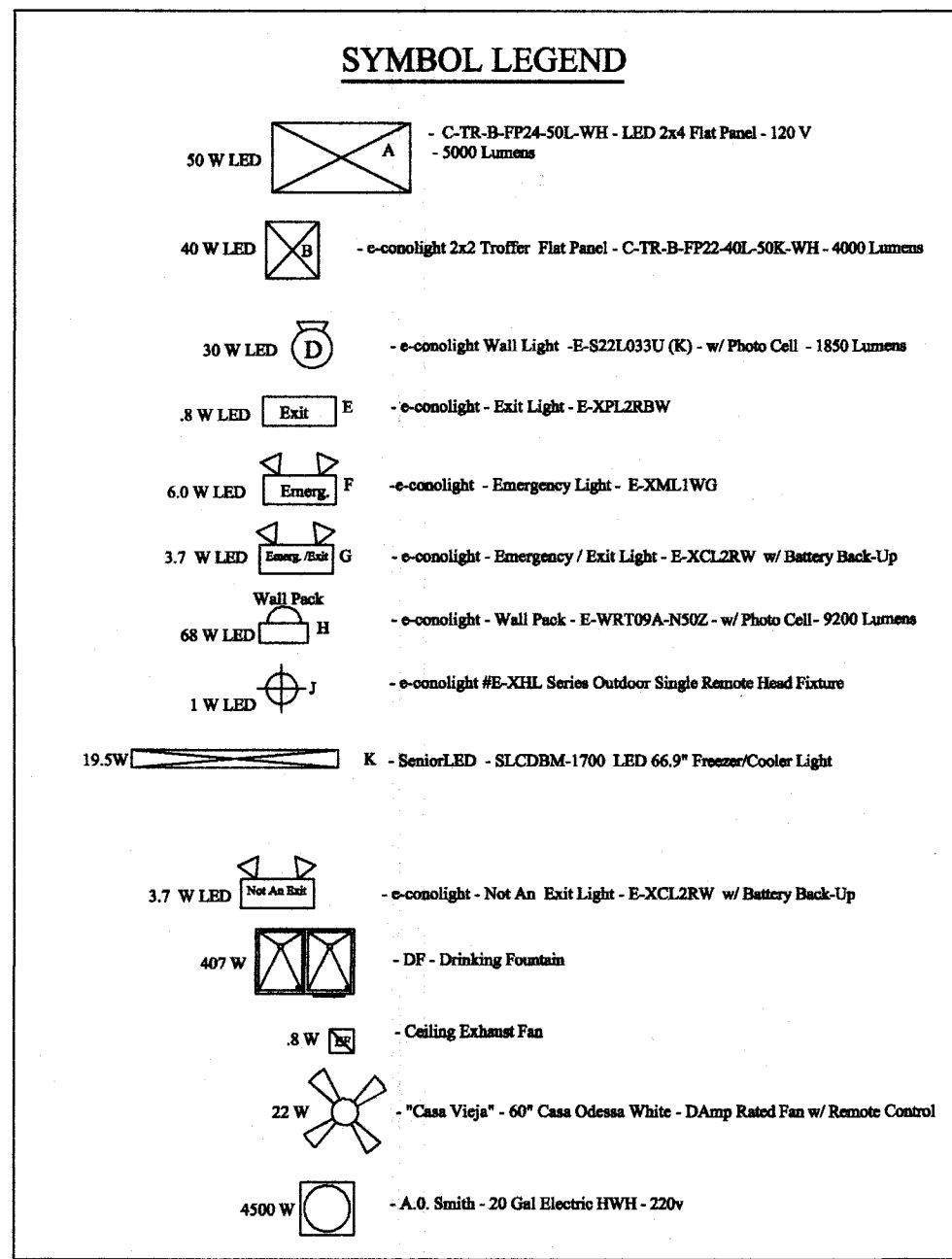
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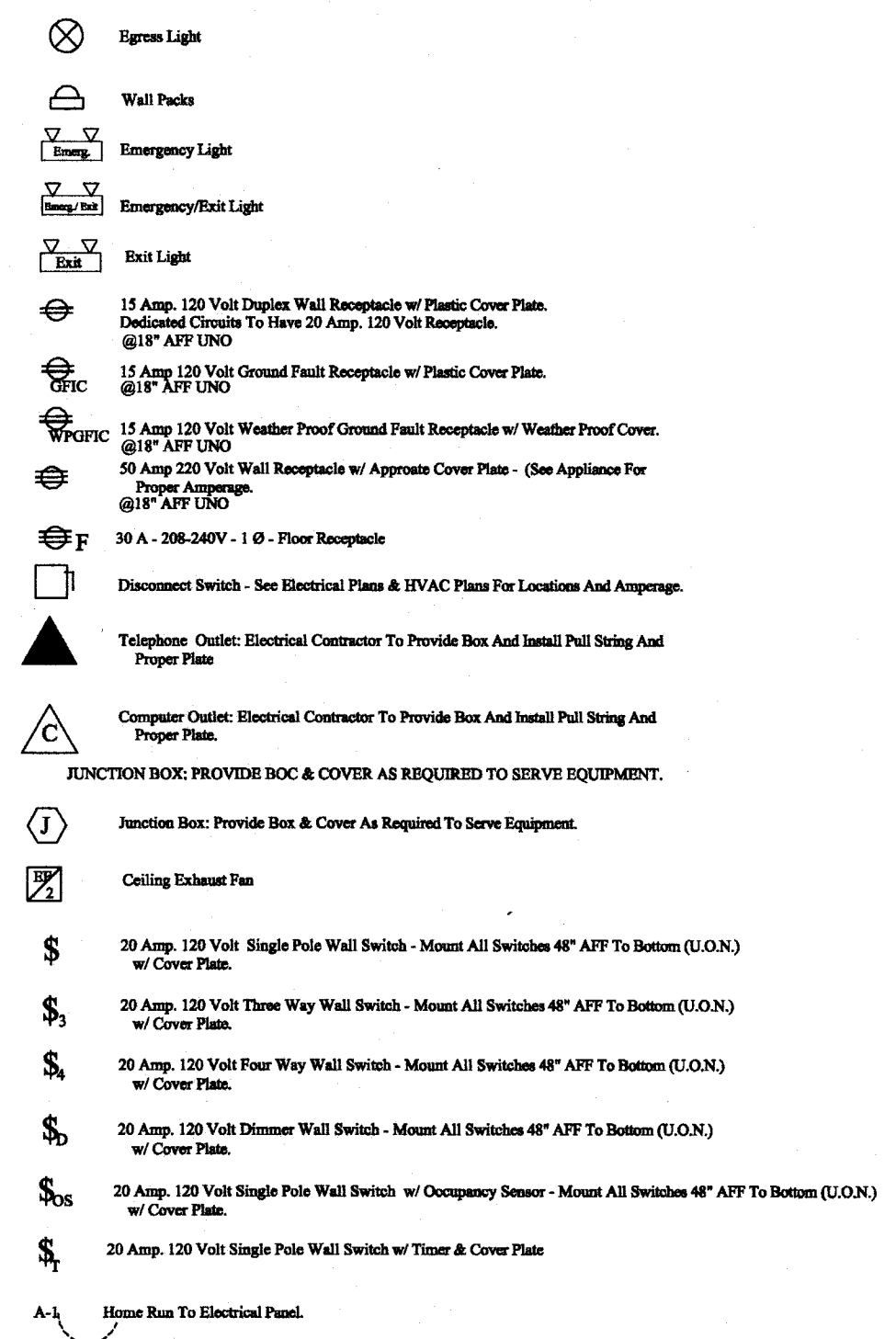
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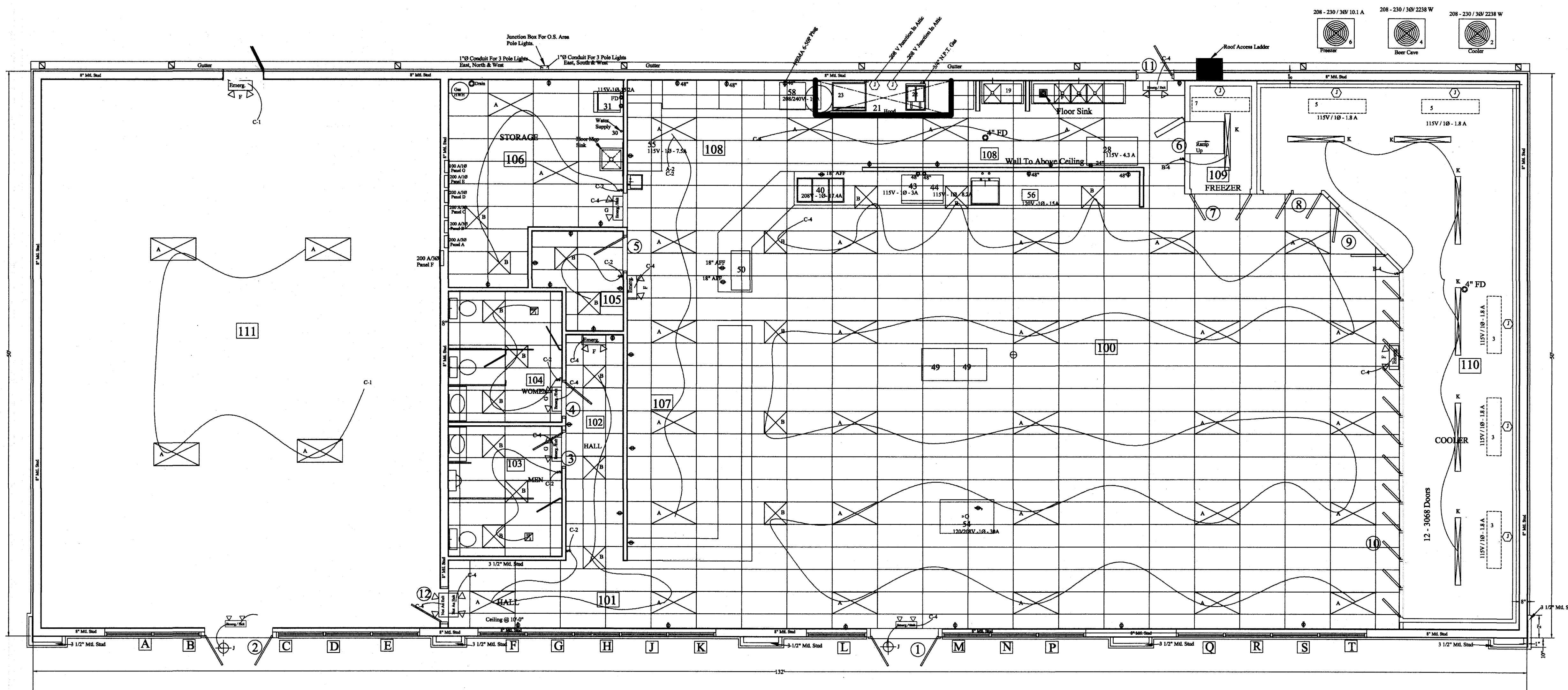


ELECTRICAL LEGEND



ELECTRICAL NOTES

- All Electrical Work Shall Be In Accordance w/ The National Electrical Code, Latest Edition, All State And Local Codes Having Jurisdiction, And The Requirements Of The Local Electrical Inspector.
- The Electrical Contractor Shall Be Responsible For Obtaining All Permits, And Paying All Fees, Including Any Connection And Inspection Fees Associated With The Electrical Portion Of The Project.
- All Circuits Shall Be Copper, THHN Or THW.
- All Circuits Shall Have Breaker Size As Indicated On Electrical Panel Diagrams.
- All Wiring For Circuits Shall Have The Same Ampacity As The Breaker Serving It.
- The Electrical Contractor Shall Legibly Identify (Typewritten) Each Circuit In The Panels.
- All Locations Where Multiple Switches Are Shown, They Shall Be Installed In Multi-Cong Boxes w/ Multi-Cong Cover Plates.



ELECTRICAL LIGHTING PLAN
Scale: 3/16" = 1'-0"

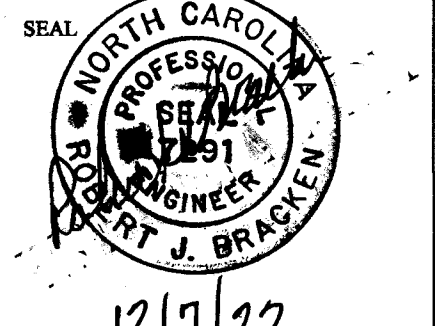
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PANEL BOARD SCHEDULE												
PANELBOARD DESIGNATION - MDP			TYPE OF PANEL - MAIN DISTRIBUTION PANEL				MOUNTING - SURFACE					
VOLTAGE : 208/120/3 PH/4WIRE			BUS SIZE (AMPS) : 100A				MAIN SWITCH - MSB					
POLES - 3PHN			TOTAL SPACE REQUIRED : 42				NOTES :					
FEEDER - FROM EXISTING PANEL			AMPS INTERRUPTING RATING : 22 KA				MANUFACTURER : SQUARE D OR EQUAL					
C	K	T	WIRE SIZE	LOAD (WATTS)	LOAD DESCRIPTION	LOAD DESCRIPTION	LOAD (WATTS)	WIRE SIZE	C	K	T	
#	#	#	A Ø	B Ø	C Ø		A Ø	B Ø	C Ø	#	#	#
1	200	4	4	41,600		Panel 'A' 200 A	41,600			4	200	4
3	200	4	4	41,600		Panel 'W'	41,600			4	200	4
5	200	4	4	41,600		Panel 'A'	41,600			4	200	4
7	200	4	4	41,600		Panel 'C' 200 A	41,600			4	200	4
9	200	4	4	41,600		Panel 'C'	41,600			4	200	4
11	200	4	4	41,600		Panel 'C'	41,600			4	200	4
13	200	4	4	41,600		Panel 'T' 200 A	41,600			4	200	4
15	200	4	4	41,600		Panel 'T'	41,600			4	200	4
17	200	4	4	41,600		Panel 'T'	41,600			4	200	4
19												
21												
23												
25												
27												
29												
31												
33												
35												
37												
39												
41												

NOTE: Electrical Contractor Responsible To Check w/ Local Electrical Supplier On Amps Interrupting Rating.
 General Contractor And Electrical Contractor Shall Walk Through the Space With Owner Prior To Beginning Electrical Rough-In To Verify Fixture And Device Location.
 General Contractor Shall Provide Owner With Cut Sheets Of Proposed Fixtures And Devices For Review And Approval Prior To Ordering.

PANEL BOARD SCHEDULE												
PANELBOARD DESIGNATION - A			TYPE OF PANEL - CIRCUIT BREAKER				MOUNTING - FLUSH					
VOLTAGE : 208/120/3 PH/4WIRE			BUS SIZE (AMPS) : 200A				MAIN SWITCH - MSB					
POLES - 3PHN			TOTAL SPACE REQUIRED : 42				NOTES :					
FEEDER - FROM EXISTING PANEL			AMPS INTERRUPTING RATING : 22 KA				MANUFACTURER : SQUARE D OR EQUAL					
C	K	T	WIRE SIZE	LOAD (WATTS)	LOAD DESCRIPTION	LOAD DESCRIPTION	LOAD (WATTS)	WIRE SIZE	C	K	T	
#	#	#	A Ø	B Ø	C Ø		A Ø	B Ø	C Ø	#	#	#
1	40	8	8	2207	#4 - Beer Cans O.S. Unit (10.6A)	#2 - Cooler O.S. Unit (10.6A)	2207			8	40	8
3	40	8	8	2207	#4 - Beer Cans O.S. Unit (10.6A)	#2 - Cooler O.S. Unit (10.6A)	2207			8	40	8
5	40	8	8	2207	#4 - Beer Cans O.S. Unit (10.6A)	#2 - Cooler O.S. Unit (10.6A)	2207			8	40	8
7	20	12	10	1035	#3 & #5 - Beer Cans & Cooler I.S. Units (1.8A)	#6 - Freezer O.S. Unit (10.1A)	1839			8	40	8
9	20	12	10	2323	#7 - Freezer I.S. Unit (10.1A)	#6 - Freezer O.S. Unit (10.1A)	1839			8	40	8
11	20	12	10	2323	#7 - Freezer I.S. Unit (10.1A)	#6 - Freezer O.S. Unit (10.1A)	1839			8	40	8
13	20	12	10	1893	#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	14
15	20	12	10	1893	#21 - Hood Supply Air (9.1A)	#21 - Hood Exhaust Air (16A)	3328			8	40	14
17												
19												
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NOTE: Electrical Contractor Responsible To Check w/ Local Electrical Supplier On Amps Interrupting Rating.
 General Contractor And Electrical Contractor Shall Walk Through the Space With Owner Prior To Beginning Electrical Rough-In To Verify Fixture And Device Location.
 General Contractor Shall Provide Owner With Cut Sheets Of Proposed Fixtures And Devices For Review And Approval Prior To Ordering.

PANEL BOARD SCHEDULE												
PANELBOARD DESIGNATION - B			TYPE OF PANEL - CIRCUIT BREAKER				MOUNTING - FLUSH					
VOLTAGE : 208/120/3 PH/4WIRE			BUS SIZE (AMPS) : 200A				MAIN SWITCH - MSB					
POLES - 3PHN			TOTAL SPACE REQUIRED : 42				NOTES :					
FEEDER - FROM EXISTING PANEL			AMPS INTERRUPTING RATING : 22 KA				MANUFACTURER : SQUARE D OR EQUAL					
C	K	T	WIRE SIZE	LOAD (WATTS)	LOAD DESCRIPTION	LOAD DESCRIPTION	LOAD (WATTS)	WIRE SIZE	C	K	T	
#	#	#	A Ø	B Ø	C Ø		A Ø	B Ø	C Ø	#	#	#
1	20	12	10	500	#28 - 2 Door Cooler (4.3A)	Recept. 100 - E, 100 - 6N/W	1260			12	20	2
3	40	8	8	3619	#40 - Hot Wall (17.4A)	Freezer & Cooler Lights	137			12	20	4
5	40	8	8	3619	#40 - Hot Wall (17.4A)	Freezer & Cooler Lights	137			12	20	4
7	30	10	10	2122	#60 - Hot Wall (17.4A)	#60 - Hot Wall (17.4A)						
9	30	10	10	2122	#60 - Hot Wall (17.4A)	#60 - Hot Wall (17.4A)						
11	20	12	10	2122	#60 - Hot Wall (17.4A)	#60 - Hot Wall (17.4A)						
13	20	12	10	2122	#60 - Hot Wall (17.4A)	#60 - Hot Wall (17.4A)						
15	50	6	6	9600	#55 - Ventless Dbl. Oven (46A)	#55 - Ventless Dbl. Oven (46A)	3600			10	30	18
17	50	6	6	9600	#55 - Ventless Dbl. Oven (46A)	#55 - Ventless Dbl. Oven (46A)	3600			10	30	18
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 General Contractor And Electrical Contractor Shall Walk Through the Space With Owner Prior To Beginning Electrical Rough-In To Verify Fixture And Device Location.
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PANEL BOARD SCHEDULE												
PANELBOARD DESIGNATION - C			TYPE OF PANEL - CIRCUIT BREAKER				MOUNTING - FLUSH					
VOLTAGE : 208/120/3 PH/4WIRE			BUS SIZE (AMPS) : 200A				MAIN SWITCH - MSB					
POLES - 3PHN			TOTAL SPACE REQUIRED : 42				NOTES :					
FEEDER - FROM EXISTING PANEL			AMPS INTERRUPTING RATING : 22 KA				MANUFACTURER : SQUARE D OR EQUAL					
C	K	T	WIRE SIZE	LOAD (WATTS)	LOAD DESCRIPTION	LOAD DESCRIPTION	LOAD (WATTS)	WIRE SIZE	C	K	T	
#	#	#	A Ø	B Ø	C Ø		A Ø	B Ø	C Ø	#	#	#
1	20	12	12	1748	#71 - Ice Machine	Lights - 101, 102, 103, 104, 105, 106	760			12	20	2
3	20	12	12	345	#43 - Disp. OA)	Lights Behind Counter, 100, Beverage, Dish, Storage	1680			12	20	4
5	20	12	12	943	#44 - Ice Machine (8.2A)	Recept. - 102, 105, 106	1980			12	20	6
7	10	10	10	6240	#54 - Self Serv. Refg.	Recept. - 101 W/W, 107	1800			12	20	8
9	30	10	10	6240	#54 - Self Serv. Refg.	Recept. - O.S. - W/S/E	1440			12	20	10
11	20	12	12	863	#55 - 9 Pan Pizza Prep. Unit (7.5A)							
13	8	8	8	2760	#19 - Single Comp. Sink Disposal							
15	40	8	8	2760	#19 - Single Comp. Sink Disposal							
17	40	8	8	2760	#16 - 3 Comp. Sink Disposal							
19	40	8	8	2760	#16 - 3 Comp. Sink Disposal							
21	20	12	12	180	#49 - Island Counter							
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PANEL BOARD SCHEDULE												
PANELBOARD DESIGNATION - D			TYPE OF PANEL - CIRCUIT BREAKER				MOUNTING - FLUSH					
VOLTAGE : 208/120/3 PH/4WIRE			BUS SIZE (AMPS) : 200A				MAIN SWITCH - MSB					
POLES - 3PHN			TOTAL SPACE REQUIRED : 42				NOTES :					
FEEDER - FROM EXISTING PANEL			AMPS INTERRUPTING RATING : 22 KA				MANUFACTURER : SQUARE D OR EQUAL					
C	K	T	WIRE SIZE	LOAD (WATTS)	LOAD DESCRIPTION	LOAD DESCRIPTION	LOAD (WATTS)	WIRE SIZE	C	K	T	
#	#	#	A Ø	B Ø	C Ø		A Ø	B Ø	C Ø	#	#	#
1	30	6	6	7363	4 Ton RTU #1 (35.4A)	4 Ton RTU #1 (35.4A)	7363			6	30	2
3	30	6	6	7363	4 Ton RTU #1 (35.4A)	4 Ton RTU #1 (35.4A)	7363			6	30	2
5	30	6	6	7363	4 Ton RTU #2 (35.4A)	4 Ton RTU #2 (35.4A)	7363			6	30	2
7	30	6	6	7363	4 Ton RTU #2 (35.4A)	4 Ton RTU #2 (35.4A)	7363			6	30	2
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