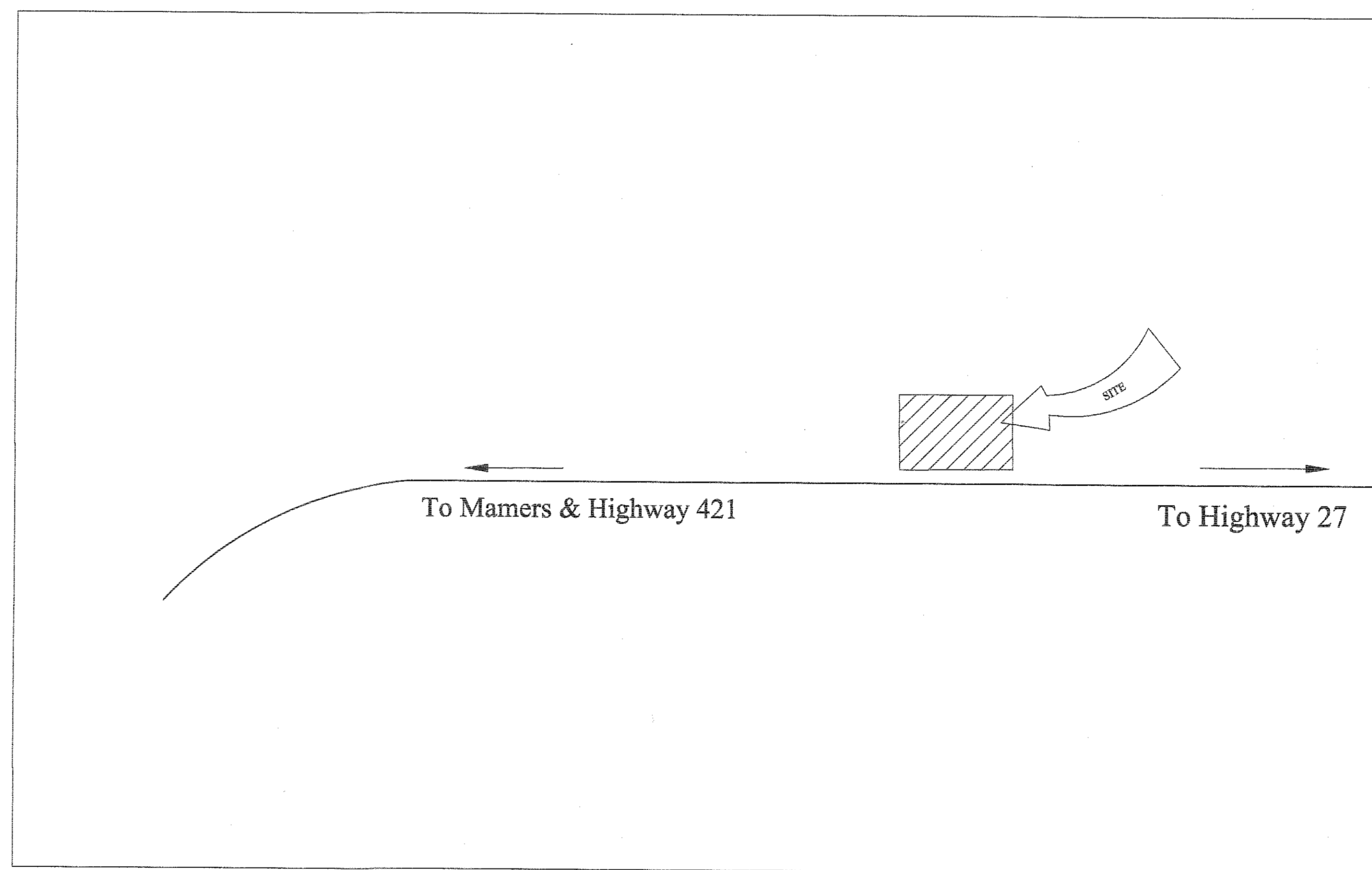


INTERIOR RENOVATIONS TO
SPRING HILL METHODIST CHURCH
1960 Spring Hill Church Road
Lillington, NC 27546



VICINITY MAP

CONTENTS

- Cover Sheet
- Appendix "B"
- LS- 1 - Life Safety Plan
- S-1 - Foundation Plan
- G-1 - Existing Floor Plan
- G-2 - Demolition Plan
- G-3 - Revised Floor Plan
- G-4 - Room Finish Schedule
- P -1 - Plumbing Plan
- M-1 - HVAC Plan
- E-1 - Power Plan
- E-2 - Lighting Plan

OWNER:
SPRING HILL METHODIST CHURCH
1960 Spring Hill Church Road
Lillington , NC 27546
919-893-4723

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

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

Name of Project: **Interior Renovations & Addition To Spring Hill Methodist Church**
 Address: **1960 Spring Hill Church Rd Lillington NC 27546**
 Owner Or Authorized Agent: **Brad Cummings Phone# 919-814-3232 E Mail: brad_cummings@yahoo.com**
 Owned By: City / County Private State
 Code Enforcement Jurisdiction: City County State
 CONTACT: **Robert J. Bracken, Jr. - P.E.**
 DESIGNER: FIRM **RJB PE PA** NAME **RJ Bracken** LICENSE# **NC 7291** TELEPHONE# **(919) 774-6074** E-MAIL **bjbracken@windstream.net**
 Civil **RJB PE PA** **RJ Bracken** **NC 7291** **(919) 774-6074** **bjbracken@windstream.net**
 Fire Alarm **RJB PE PA** **RJ Bracken** **NC 7291** **(919) 774-6074** **bjbracken@windstream.net**
 Plumbing **RJB PE PA** **RJ Bracken** **NC 7291** **(919) 774-6074** **bjbracken@windstream.net**
 Mechanical **RJB PE PA** **RJ Bracken** **NC 7291** **(919) 774-6074** **bjbracken@windstream.net**
 Sprinkler - Standpipe _____
 Structural _____
 Retaining Wall > 5' High _____
 Other _____

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): **Assembly**
 RENOVATED (Date) _____ PROPOSED OCCUPANCY (S) (CH. 3): **Assembly**
 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 V-A
 I-B II-B III-B V-B
 Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Yes Class I II III Wet Dry
 Fire District: No Yes Flood Hazard Area: No Yes
 Special Inspections Required: No Yes (Contact the local inspections jurisdiction for additional procedures and requirements)

FLOOR	Existing (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor	4387 ft ²	5804 ft ²	4967 ft ²
Basement			
TOTAL			4967 ft ²

ALLOWABLE AREA

Primary Occupancy (s): Select One
 Assembly A-1 A-2 A-3 A-4 A-5 **ALLOWABLE: 9,500 ft²**
 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 Condition I-3 Condition I-4
 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 and Miscellaneous:
 Accessory Occupancy Classification (s): _____
 Incidental Uses (Table 509): _____
 Special Uses (Chapter 4 - List Code Section): _____
 Special Provisions: (Chapter 5 - List Code Sections): _____
 Mixed Occupancy: Yes Separation: _____ Hr. Exemption: _____
 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.

$$\frac{\text{Actual Area Of Occupancy A}}{\text{Allowable Area Of Occupancy A}} + \frac{\text{Actual Area Of Occupancy B}}{\text{Allowable Area Of Occupancy B}} \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{3,5}

1 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 = $100 \left(\frac{F}{P} - 0.25 \right) \times \frac{W}{30}$ = _____ (%)
 2 Unlimited area applicable under conditions of Section 507.
 3 Maximum Building Area = total number of stories in building x D (maximum 3 stories) 506.2
 4 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.
 5 Frontage increase is based on the un sprinklered area value in Table 506.2

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	55'	70	T 504.3
Building Height in Stories (Table 504.4)	2	1	T 504.4

1 Provide code reference if the "Shown 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
		REQ'D	PROVIDED (W/ REDUCTION)				
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							
Fire resistance including supporting beams & joist							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof construction including supporting beams & joist							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy / Fire Barrier Separation							
Party / Fire Wall Separation							
Smoke Partition							
Tenant / Dwelling Unit							
Sleeping Unit Separation							
Incidental Use Separation							

* Indicates section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS N/A

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREES OF OPENINGS 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)
 Common path of travel distance ((Tables 1006.2.1 & 1006.3.2.(1))
 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 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above.

ACCESSIBLE DWELLING UNITS NONE
(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 EXISTS
(Section 1106)

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

PLUMBING FIXTURE REQUIREMENTS
(Table 2902.1)

USE	Water Closets		Urinals	Lavatories		Showers	Drinking Fountains
	Male	Female		Male	Female		
Existing	2	2	1	1	1		
New	2	3	1	1	1		
Required	2	2	1	1	1		

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

ENERGY SUMMARY

ENERGY REQUIREMENTS:
 The following data shall be considered minimum and any special attribute 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.
 NEW 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)

THERMAL 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 skylights: _____
 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 R-Value: _____
 Wall below grade (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Floors over unconditional 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 (I_s) **1.0**
 Seismic (I_s) **1.0**
 Live Loads: Roof **20** psf
 Mezzanine **50** 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 S_s _____ % S_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 Pendulum
 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 _____

MECHANICAL SUMMARY
(PROVIDE IN THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SYSTEMS, SERVICES AND EQUIPMENT

Thermal Zone **4A**
 winter dry bulb: **27°**
 summer dry bulb: **94°**
 Interior design conditions:
 winter dry bulb: **70°**
 summer dry bulb: **75°**
 relative humidity: **50%**
 Building heating load: **110,901.5**
 Building cooling load: **179,934**
 Mechanical Spacing Conditioning System Unitary
 description of unit: **Heat Pump**
 heating efficiency: **60000 BTU**
 cooling efficiency: **60000 BTU**
 size category of unit: **5T** **NEW ADDITION**
 Boiler
 Size category: If oversized, state reason: _____
 Chiller
 Size category: If oversized, state reason: _____
 List equipment efficiencies: _____

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: _____
 total wattage per fixture: _____
 total interior wattage specified vs allowed: (whole building) or space by space
 Allowed: **4167 w**
 Actual: **5034 w**
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

REVISIONS

NO.	DATE

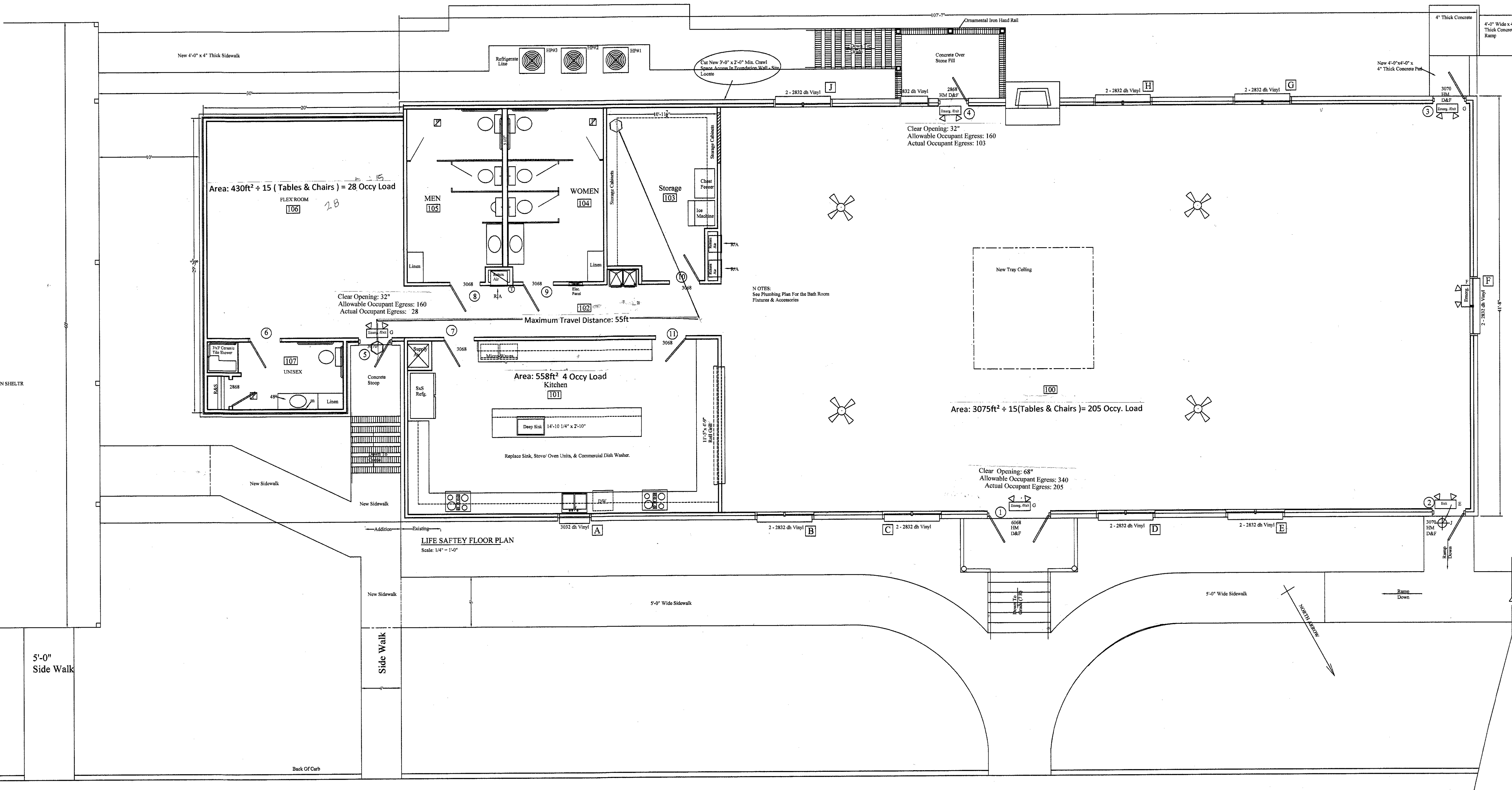
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1960 Spring Hill Church Road
Lillington, NC 27546**

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

SCALE: 1/4" = 1'-0"
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 DWG. NUMBER: _____
 JOB NUMBER: _____
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**APPENDIX
'B'**

SEAL
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 7291
 ENGINEER
 ROBERT J. BRACKEN
 8/15/22



LIFE SAFETY FLOOR PLAN
Scale: 1/4" = 1'-0"

Total Area: 4967ft²
Total Occupancy: 237

Life Safety Sheet

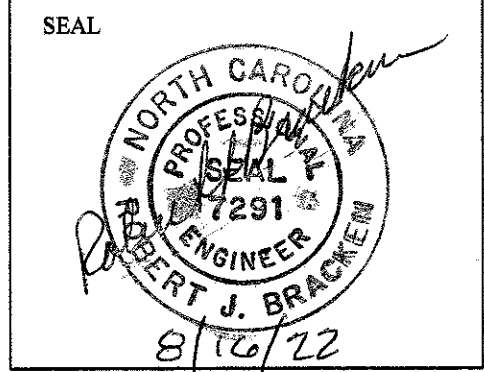
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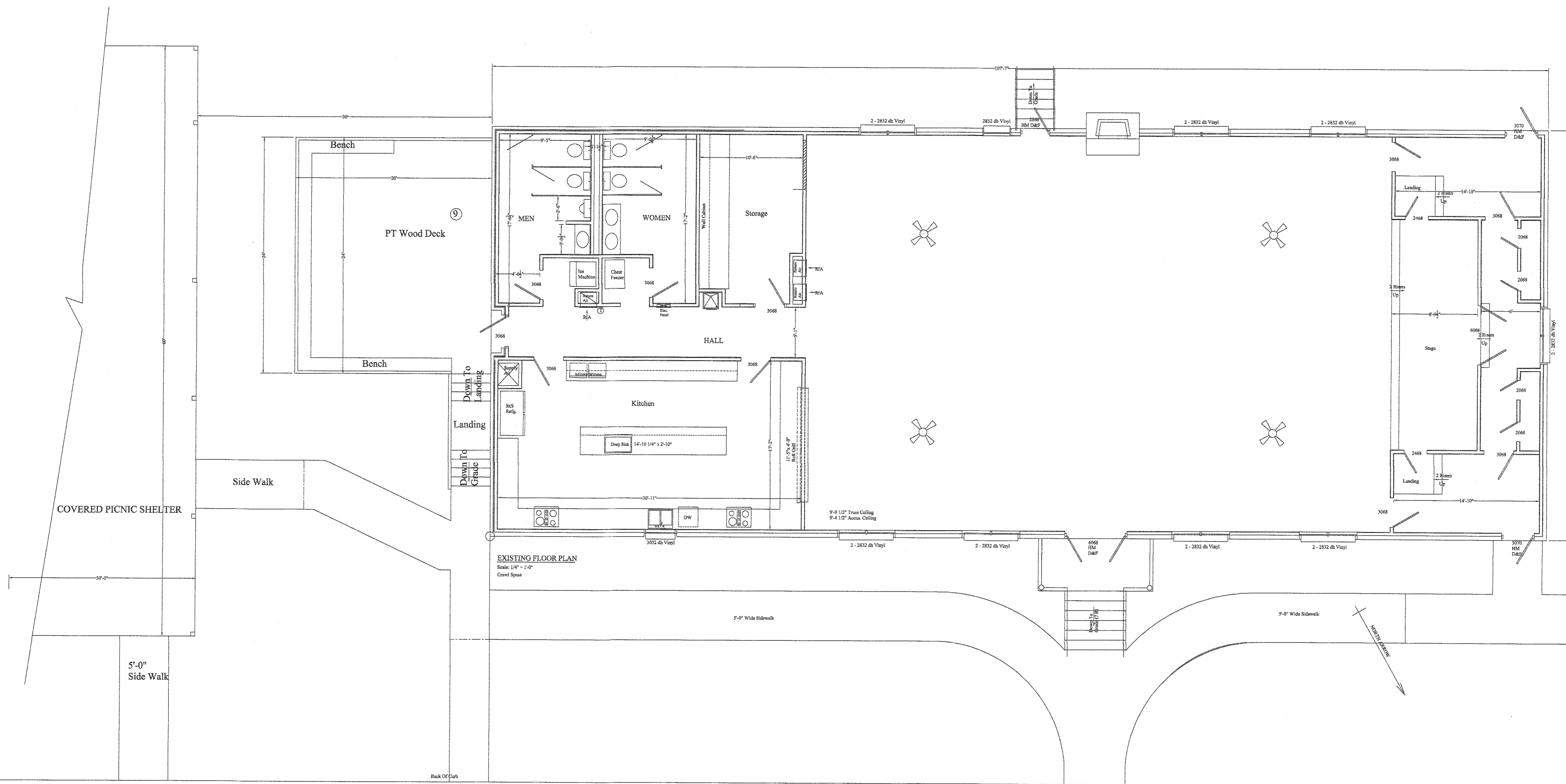
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LS - 1





EXISTING FLOOR PLAN
 Scale: 1/4" = 1'-0"
 Civil Space

Existing Floor Plan

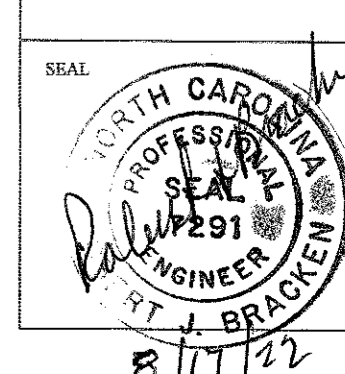
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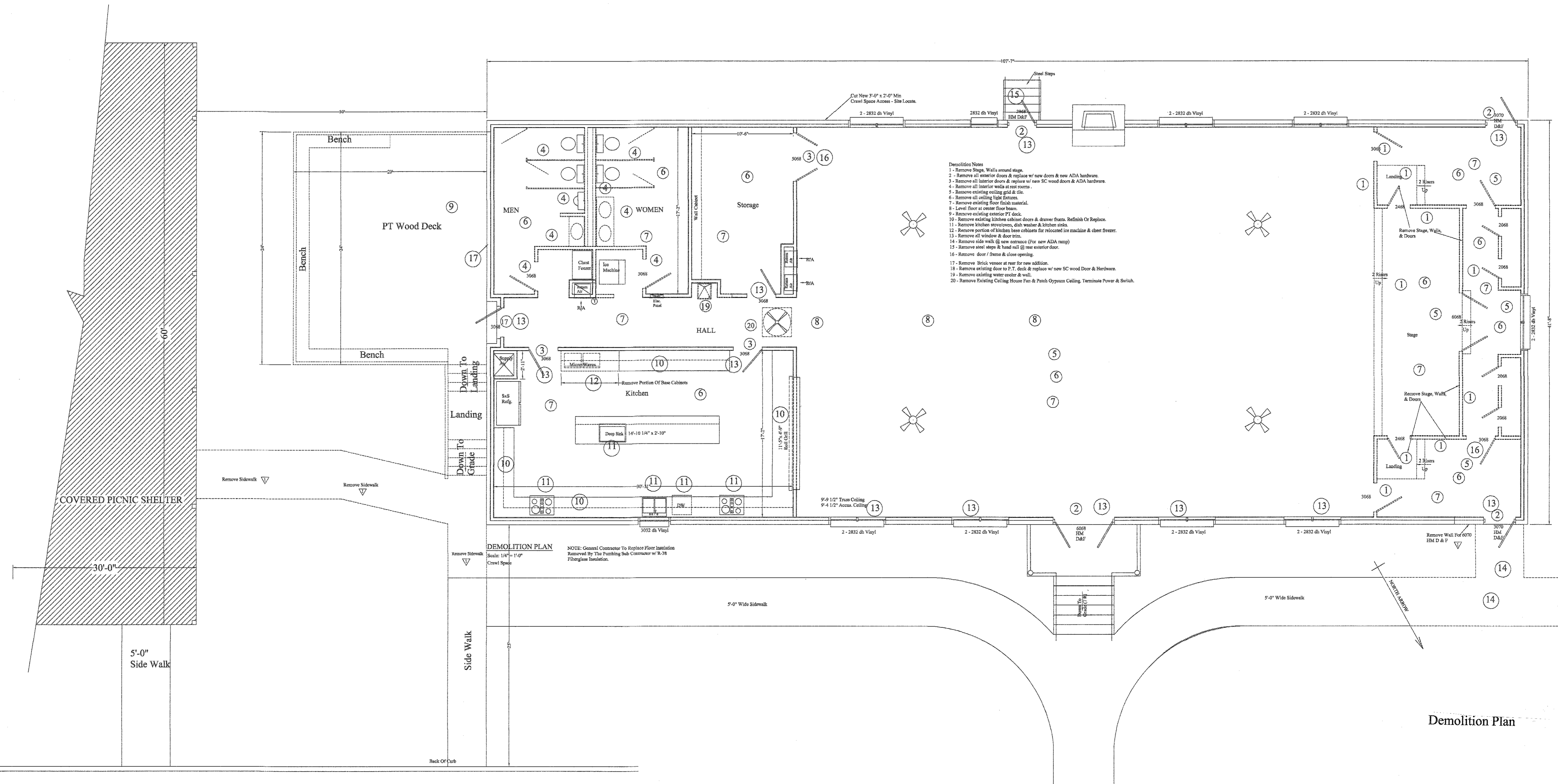
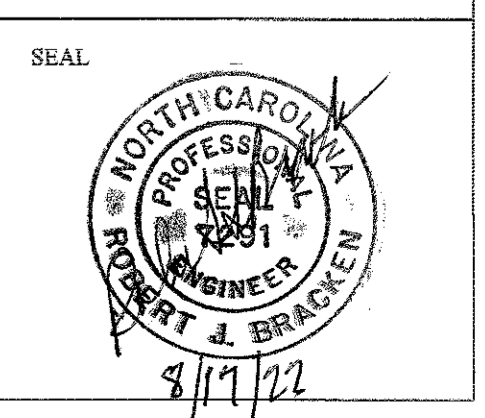
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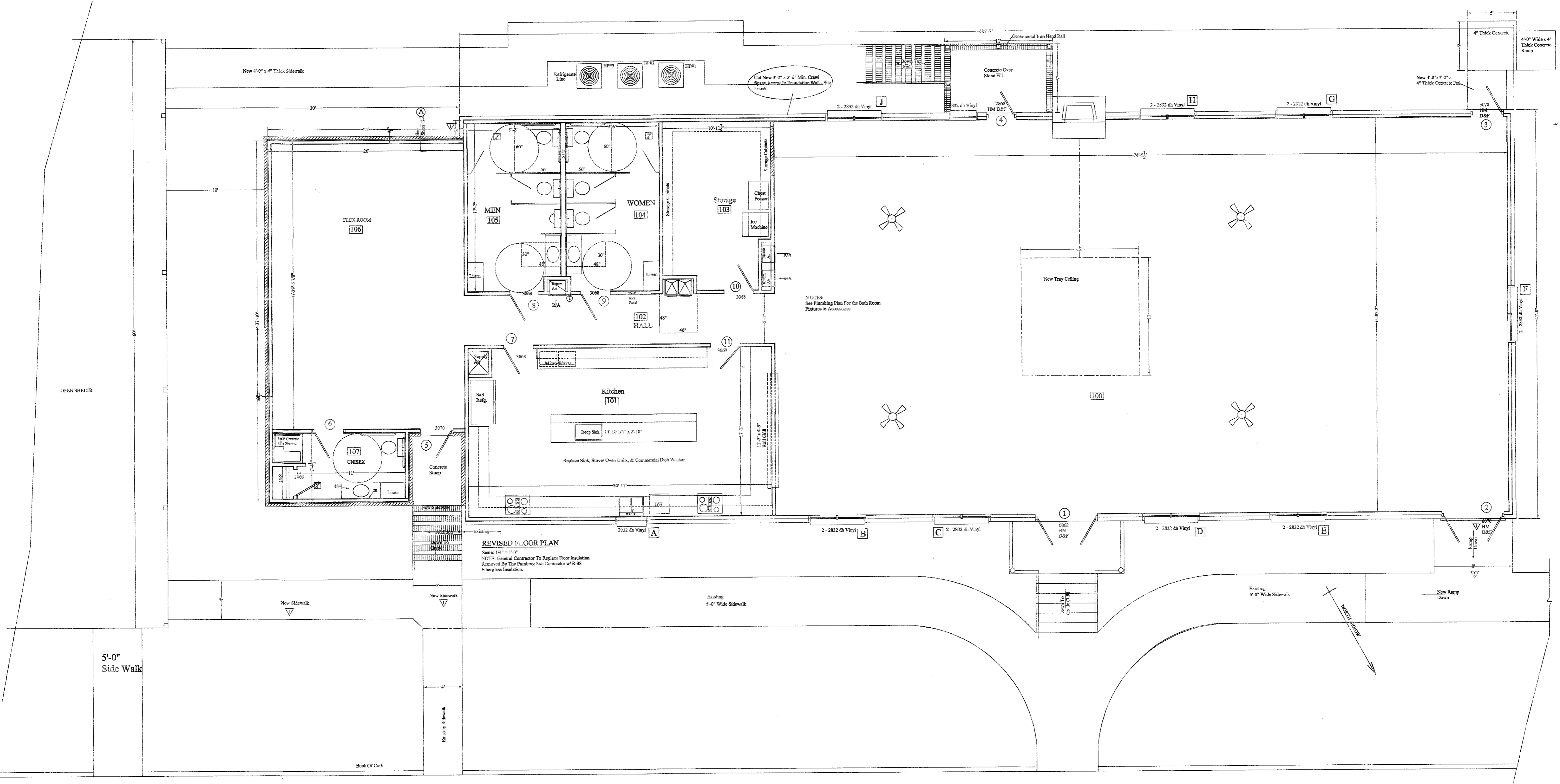
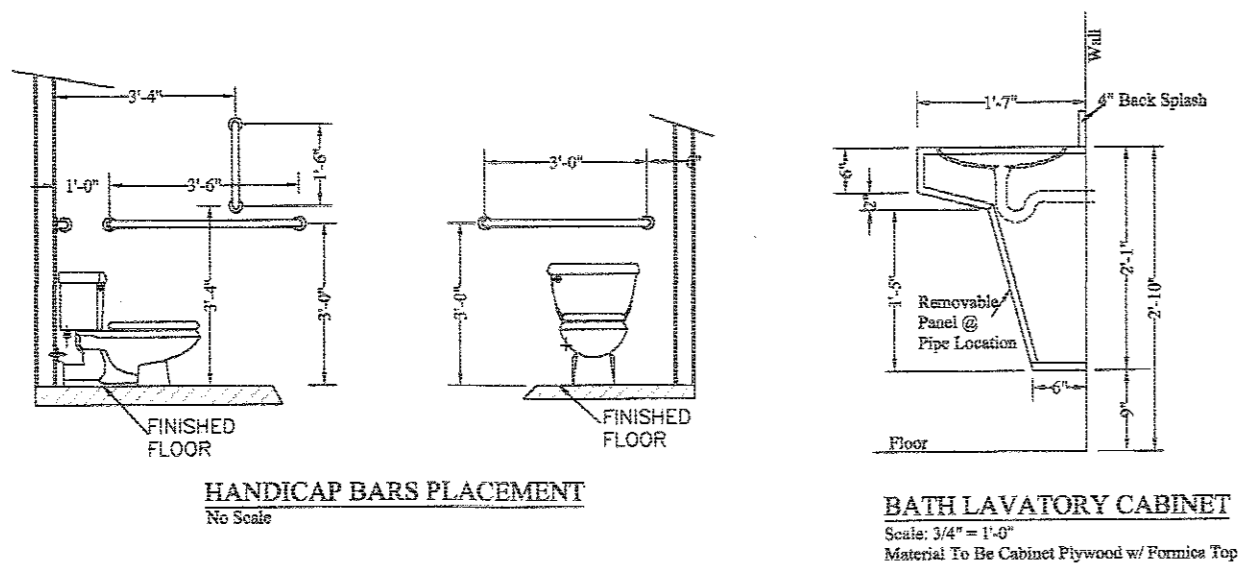
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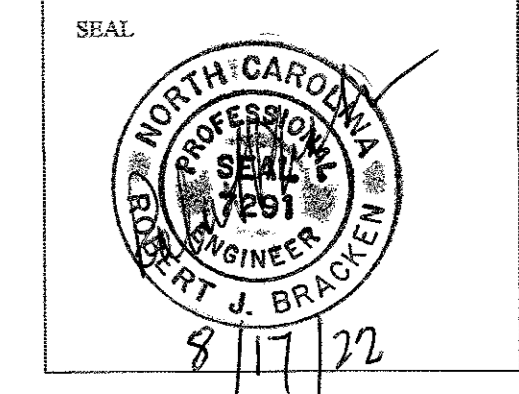
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SHEET NO.
 G - 3



Revised Floor Plan

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									
100	Fellowship Room	Plywood	LVP	Gypsum	Paint	4" Rubber	2x2 Lay-In	9'-3"		6068	Flush HM	Existing HM	None	Replace HM Door w/ New HM Doors	Paint Frame	A
101	Kitchen	Plywood	Roll Vinyl	Gypsum	Paint	4" Rubber	2x2 Lay-In	9'-3"		6070	Flush HM	New HM	None	Push Button On Pedestal Operator	Paint Frame	D
102	Hall	Plywood	LVP	Gypsum	Paint	4" Rubber	2x2 Lay-In	9'-3"		3070	Flush HM	Existing HM	None	Replace HM Door w/ New HM Door	Paint Frame	D
103	Storage	Plywood	LVP	Gypsum	Paint	4" Rubber	2x2 Lay-In	9'-3"		3070	Flush HM	Existing HM	None	Replace HM Door w/ New HM Door	Paint Frame	D
104	Women	Plywood	Roll Vinyl	Gypsum	Paint	4" Rubber	2x2 Lay-In	8'-6"		3070	Flush HM	New HM	None	Paint Frame	Paint	D
105	Men	Plywood	Roll Vinyl	Gypsum	Paint	4" Rubber	2x2 Lay-In	8'-6"		3070	Flush Solid Core Wood	New HM	None	Paint Frame	Stain	G
106	Flex Room	Plywood	LVP	Gypsum	Paint	4" Rubber	2x2 Lay-In	9'-3"		2868	Flush Solid Core Wood	New HM	None	Paint Frame	Stain	J
107	Unisex	Plywood	Roll Vinyl	Gypsum	Paint	4" Rubber	2x2 Lay-In	8'-6"		3070	Flush Solid Core Wood	Existing HM	None	Paint Frame	Stain	J

WINDOW SCHEDULE				
MK	TYPE	SIZE	FRAME	REMARKS
A	Vinyl DH	3032	Vinyl	Replace & Finish Interior Trim
B	Vinyl DH	2 - 2832	Vinyl	Replace & Finish Interior Trim
C	Vinyl DH	2 - 2832	Vinyl	Replace & Finish Interior Trim
D	Vinyl DH	2 - 2832	Vinyl	Replace & Finish Interior Trim
E	Vinyl DH	2 - 2832	Vinyl	Replace & Finish Interior Trim
F	Vinyl DH	2 - 2832	Vinyl	Replace & Finish Interior Trim
G	Vinyl DH	2 - 2832	Vinyl	Replace & Finish Interior Trim
H	Vinyl DH	2 - 2832	Vinyl	Replace & Finish Interior Trim
J	Vinyl DH	2 - 2832	Vinyl	Replace & Finish Interior Trim

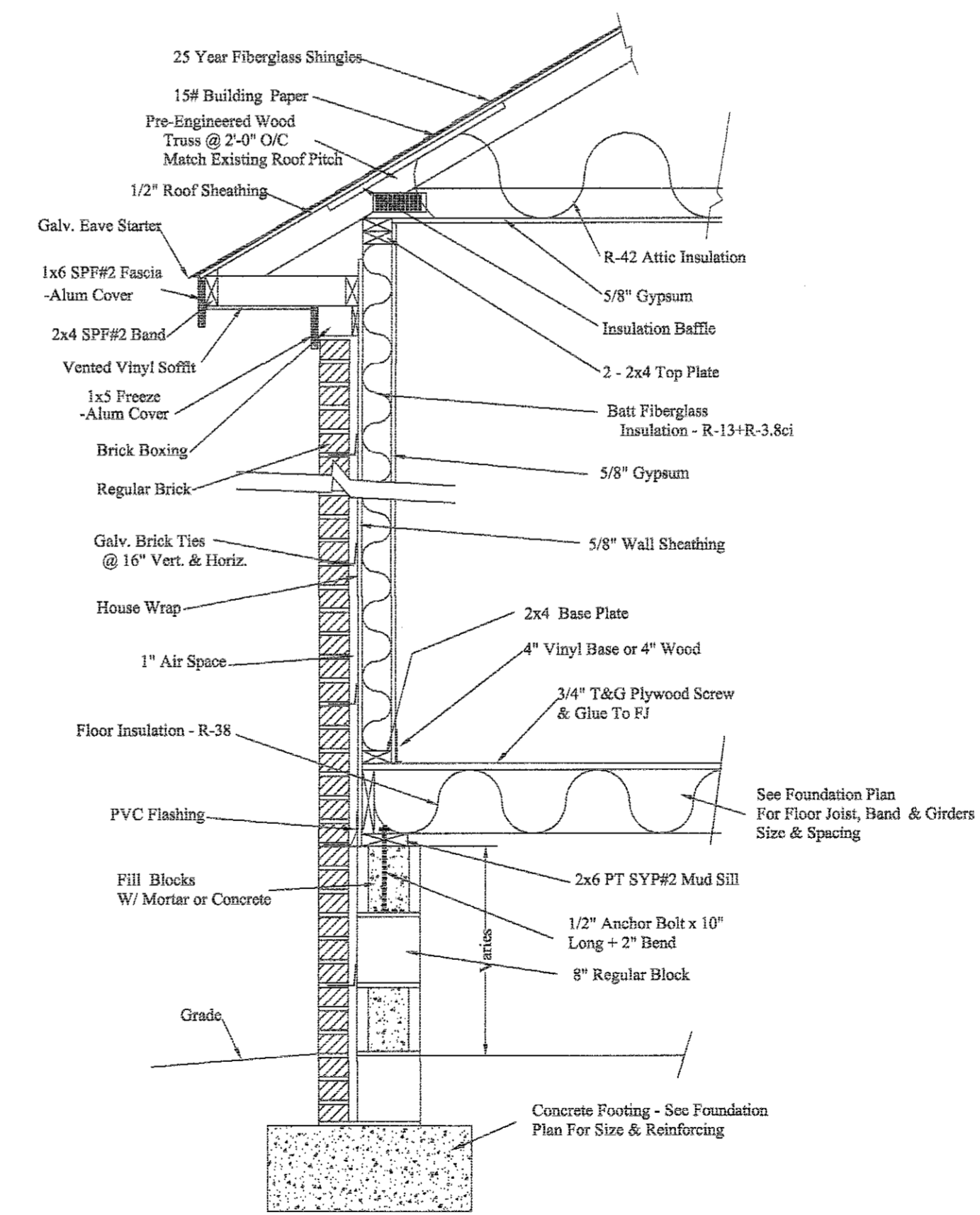
HARDWARE SCHEDULE		NOTES: Door Locks & Passage Sets To Be By Corbin - Russwin Door Hardware To Be By Von Dupin. Chrome Finish - 26 D
A	3 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Cylinder Lock, Pull Handle, Push Plate, Kick Plate, Closer, Threshold, Weatherstripping, Panic Hardware, Bottom & Top Through Bolt Right Leaf	
B	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Entrance Lock Set, Kick Plate, Threshold, Weatherstripping	
C	3 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Cylinder Lock, Pull Plate, Kick Plate, Closer, Threshold, Weatherstripping, Panic Hardware	
D	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges w/ NRP, Entrance Lock Set, Closer, Threshold, Weatherstripping, Panic Hardware	
E	3 Pr. 4 1/2" x 4 1/2" Hinges, Pull Handle, Push Plate, Kick Plate, Closer, Threshold, Panic Hardware	
F	Supplied By Manufacture	
G	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges, Bath Set, Kick Plate, Closer, 2" x 12" Brown Plastic Sign (Men / Women, Unisex)	
H	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges, Entrance Set, Kick Plate, Closer	
J	1 1/2 Pr. 4 1/2" x 4 1/2" Hinges, Passage Set, Kick Plate	
All Hardware To Be Handicap Accessible		

NOTE: Provide Alternate Price For Using Rockfon Stone Wool Ceiling Sq. Edge 2x2 Tile & Chicago Metallic 1200/ 15/16" Exposed Suspension Grid For Ceiling System.

NOTE: General Contractor To Replace Floor Insulation Removed By The Pumping Sub Contractor w/ R-38 Fiberglass Insulation.

NOTE: Add R-29 Insulation To Existing Fiberglass Insulation In Attic.

9	3070	Flush Solid Core Wood	New HM	None	Paint Frame	Stain	G
10	3070	Flush Solid Core Wood	New HM	None	Paint Frame	Stain	G
11	3070	Flush Solid Core Wood	Existing HM	None	Paint Frame	Stain	G
12	3070	Flush Solid Core Wood	Existing HM	None	Paint Frame	Stain	J



WALL SECTION - 'A'
No Scale x3 SEE SHEET G-3

REVISIONS

NO.	DATE
1	Misc. Revisions - 7-1-22 - WRJ

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CHECKED BY: RJB

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JOB NUMBER:

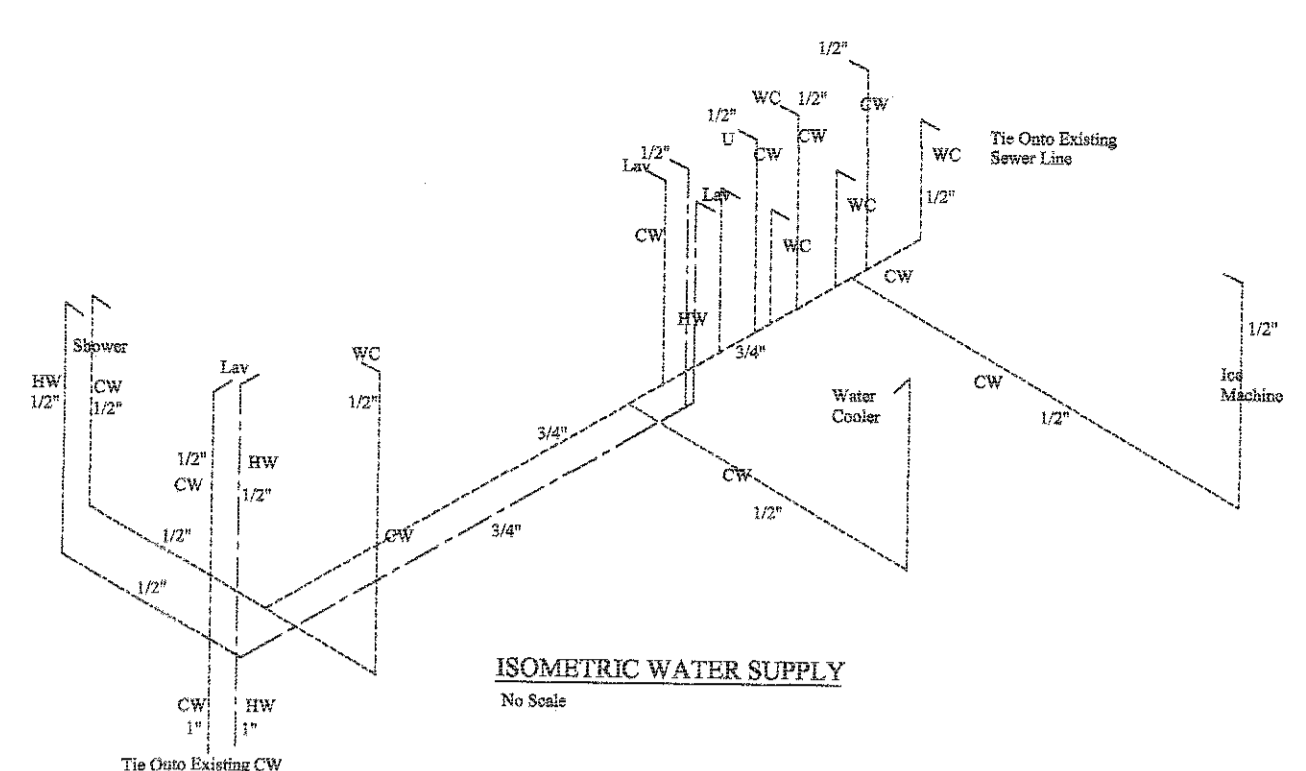
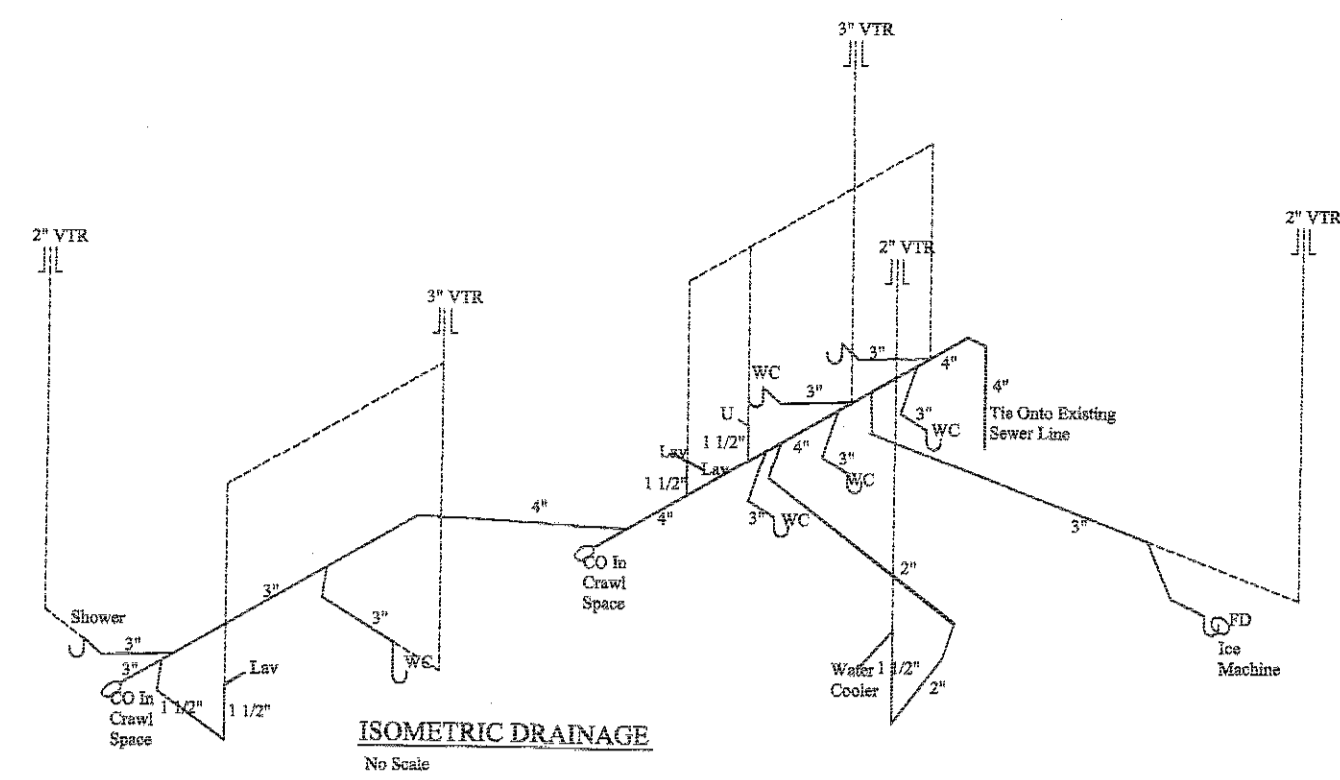
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SEAL

NORTH CAROLINA
REGISTERED PROFESSIONAL
ENGINEER
ST. 7291
R. J. BRACKEN

9/17/22



PLUMBING FIXTURES SCHEDULE

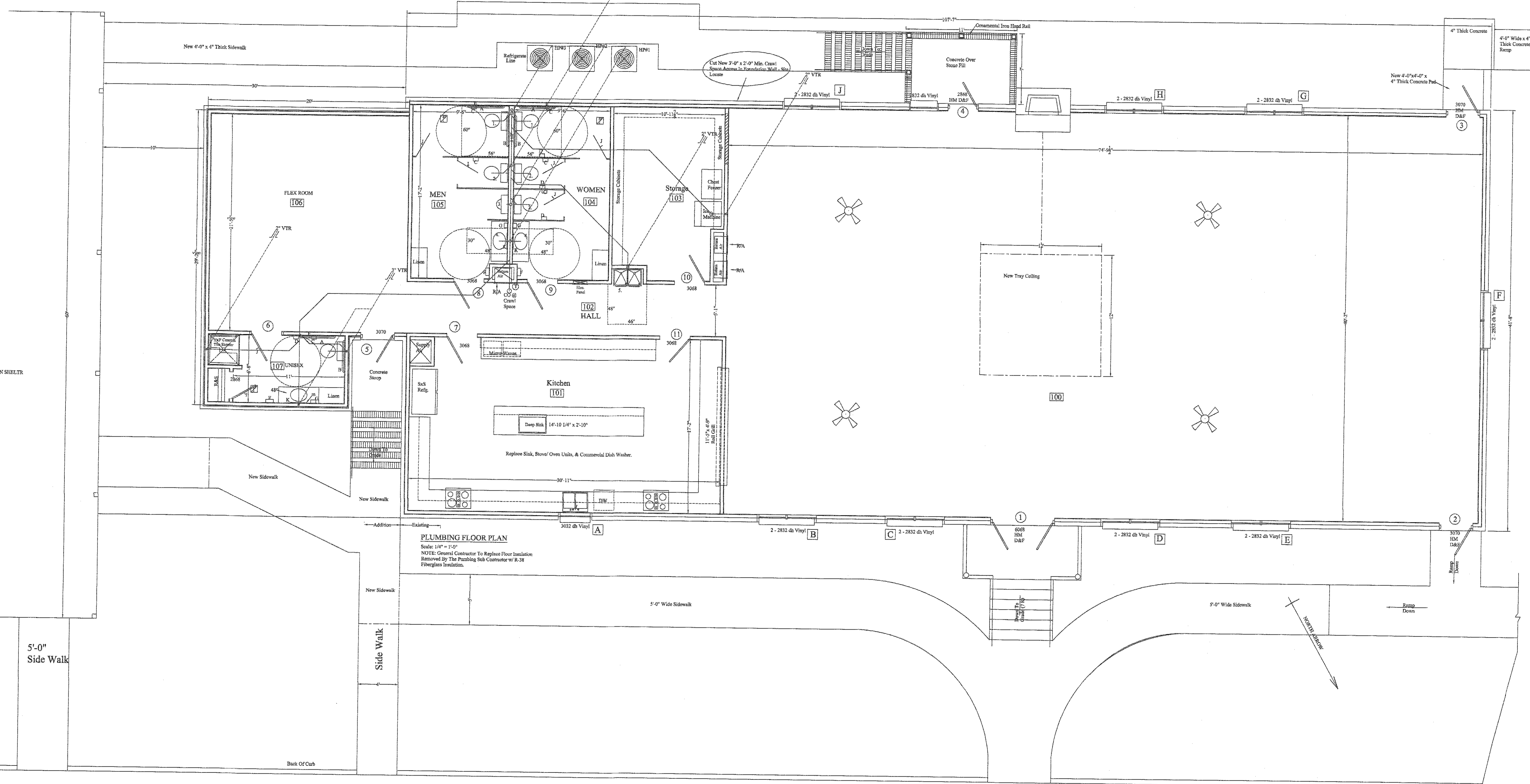
- American Standard #167992 Elongated White Toilet Bowl (ADA) w/ #167993 Toilet Tank w/ Side Trip Lever, Flapper & Flush Valve. And #55A72 White Elongated Seat w/ Lid.
- American Standard #147997 Elongated White Toilet Bowl w/ #167993 White Toilet Tank w/ Side Trip Lever, Flapper & Flush Valve & #55A72 White Elongated Seat w/ Lid.
- American Standard #6002.001-01.020 White Urinal w/ Flushometer Flush Valve & Wall Flange.
- American Standard #11VNW6 White Drop-In Lavatory w/ #41H823 Faucet & Stopper Assembly.
- Elkey E2(E)7L*(F)C Bi-Level Water Cooler - 115 V - 370 W

Includes All Rough-In Kits & Accessories.

Bath Room Accessories

- Robrick - #B-5056-99-42 Straight Grab Bar 1 1/2" Ø x 42" Pressed Chip
- Robrick - #B-5056-99-36 Straight Grab Bar 1 1/2" Ø x 36" Pressed Chip
- Robrick - #B-4886 Surface Mounted Toilet Tissue Dispenser
- Robrick - #B-2795 Camera Series Surface Mounted Sanitary Napkin Dispenser
- Robrick - #B-3058-99-18 - Straight Grab Bar 1 1/2" Ø x 18" Pressed Chip
- Robrick - #B-3803-09 Trim Line Series Surface Mounted Paper Towel Dispenser & Waste Receptacle
- Robrick - #B-2111 Classic Series Surface Mounted Soap Dispenser
- Robrick #B2111 Close Door Hook w Bumper
- Wide Ledges - Northland Wall Mirror - 15" x 32" High

Toilet Partitions To Be Robrick #1542 Classic Series Overhead Rained - Color Per Owner.
Includes All Rough-In Kits For Toilet Fixtures.



REVISIONS

NO.	DATE

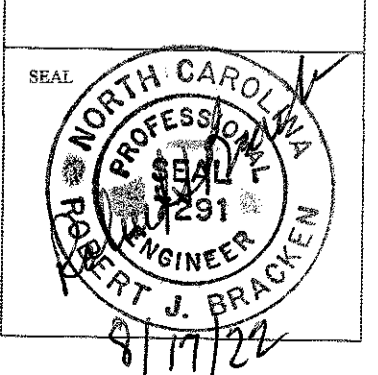
**INTERIOR RENOVATIONS TO
SPRING HILL METHODIST CHURCH**
1960 Spring Hill Church Road
Lillington, NC 27546

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

SCALE: 3/8" = 1'-0"
DRAWN BY: WRJ
DATE:
CHECKED BY: RJB
DWG. NUMBER:
JOB NUMBER:

SHEET NO.

P - 1



Plumbing Plan

EQUIPMENT SCHEDULE - TRANE							
TAG	MODEL	HEATING BTU @ 17°F	LOW C.O.P.	COOLING BTU	SEER RATING	Power	Remarks
SP-3	4TW8600			60,000	14	240 V / 1 Ø / 50 A	
AR #3	TEMR6960 W/ Day 1510	25 KW					

AIR DISTRIBUTION SCHEDULE - HART & COOLEY							
TAG	MODEL	TYPE	SIZE	FINISH	DUCT SIZE	CFM	REMARKS
A	421	Floor	4x12	Brown	8" Ø	300	Supply
B	421	Floor	4x14	Brown	8" Ø	200	Supply
C	421	Floor	4x12	Brown	7" Ø	150	Supply
D	421	Floor	4x10	Brown	6" Ø	100	Supply
E	673	Side Wall	20"x23"	White	22" Ø	1000	Return

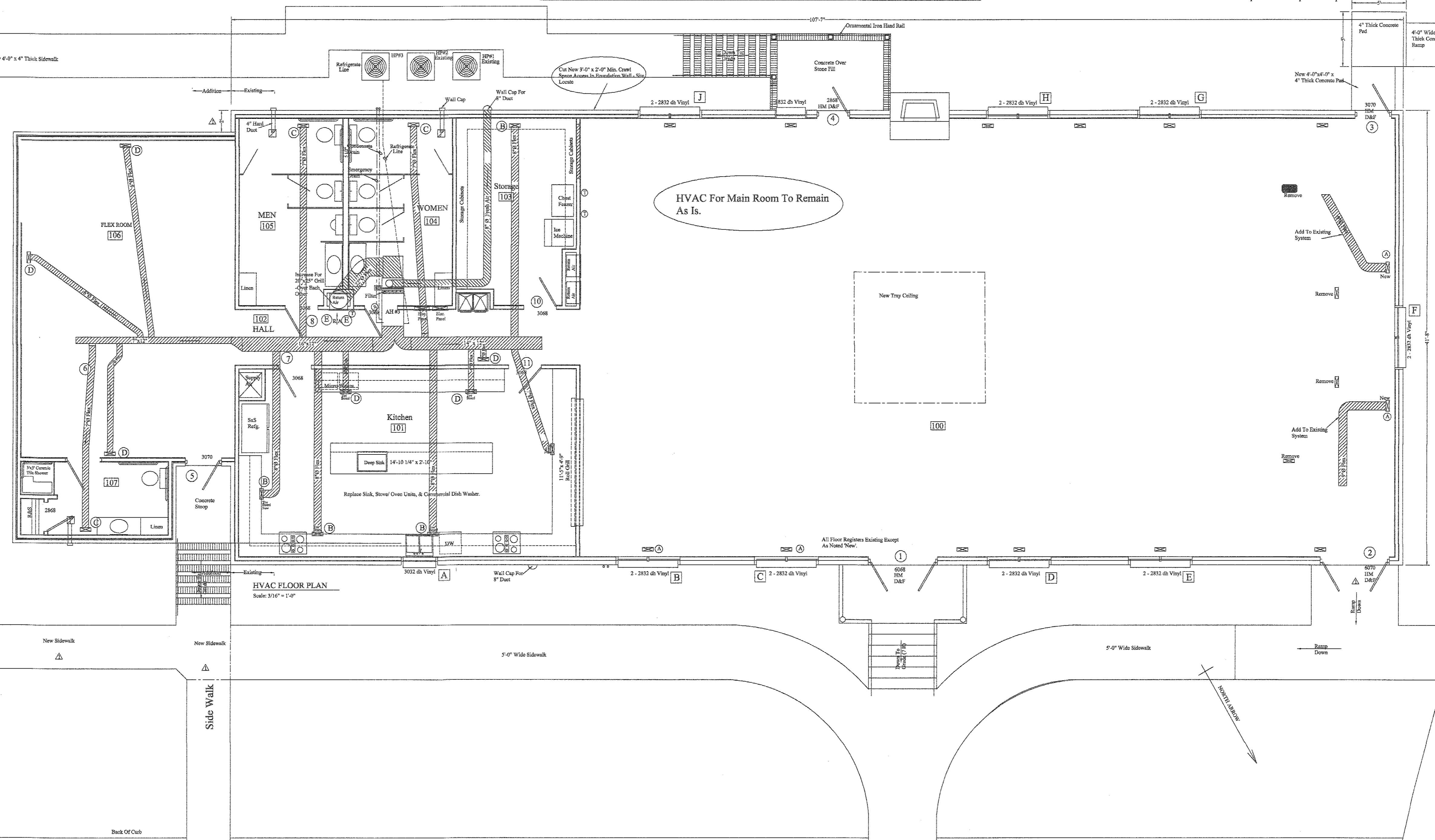
FAN SCHEDULE - BROAN							
TAG	MODEL	TYPE	CFM	RPM	VOLTS	SONES	REMARKS
SP-1, 2 & 3	SP-6	Ceiling	89	1280	110	2.7	w/ Wall Cap

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 support.
 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 sealant 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 duct elts.
 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 M - Manual Damper S.D. - Smoke Detector
 F.D. - Fire Damper SP.D - Splitter Damper

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



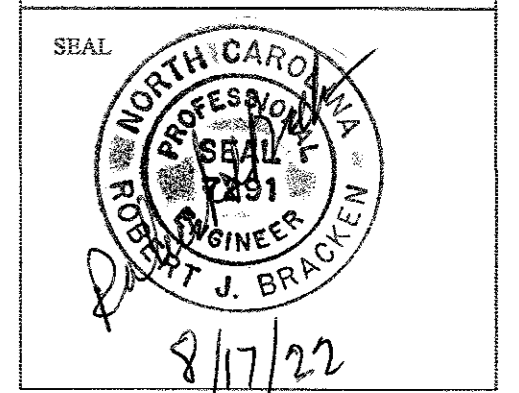
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 JOB NUMBER:

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 M - 1

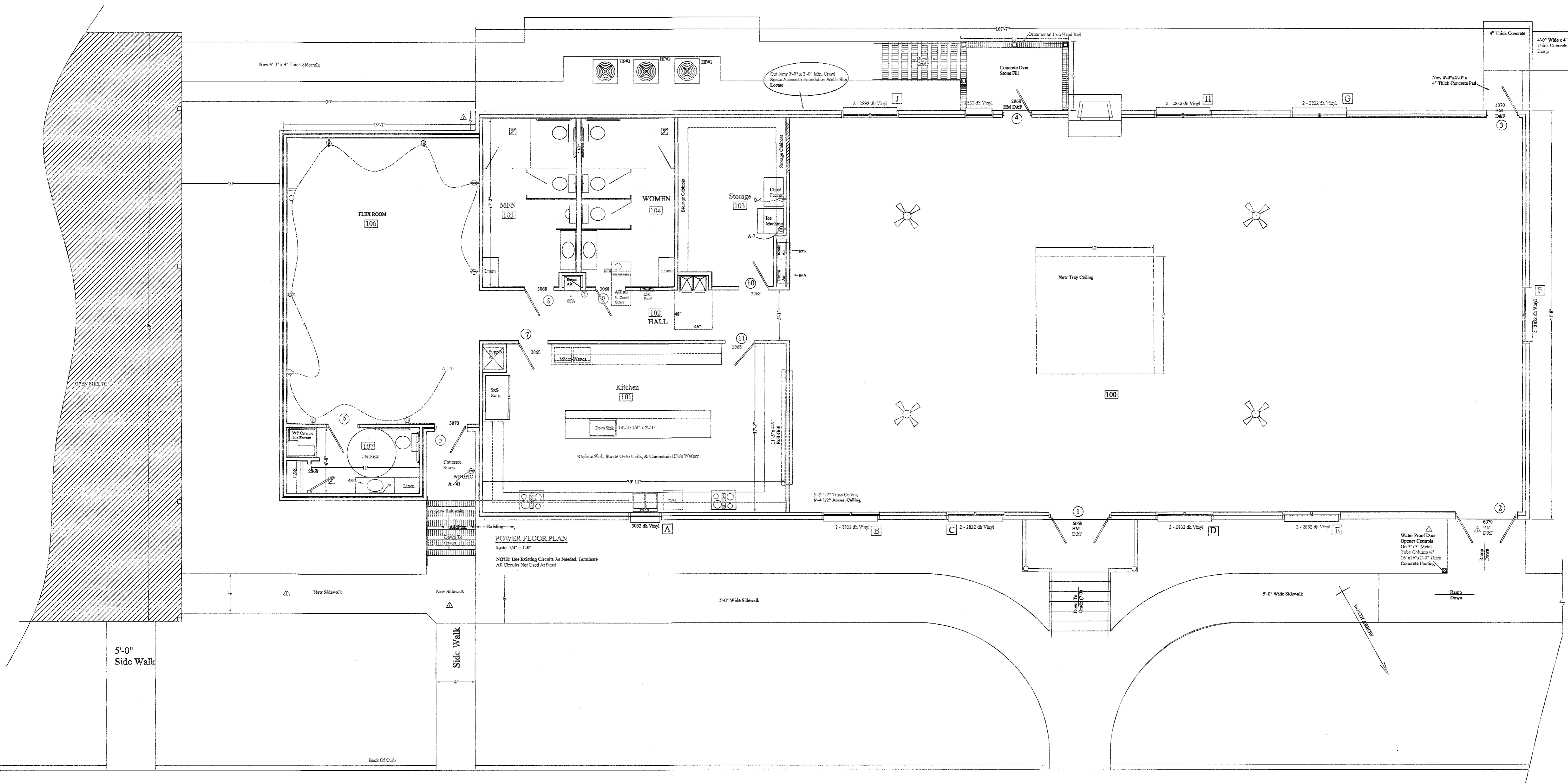


HVAC Plan

8/17/22

ELECTRICAL NOTES

1. 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.
2. 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.
3. All Circuits Shall Be Copper, THHN Or THW.
4. All Circuits Shall Have Breaker Size As Indicated On Electrical Panel Diagram.
5. All Wiring Or Circuits Shall Have The Same Ampacity As The Breaker Serving It.
6. The Electrical Contractor Shall Legibly Identify (Typeprint) Each Circuit In The Panels.
7. At Locations Where Multiple Switches Are Shown, They Shall Be Installed In Multi-Ong Boxes w/ Multi-Ong Cover Plates.



POWER FLOOR PLAN
Scale: 1/4" = 1'-0"
NOTE: One Existing Circuit As Needed. Terminate All Circuits Not Used At Panel

Power Plan

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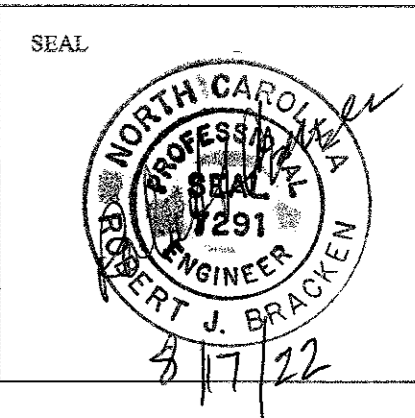
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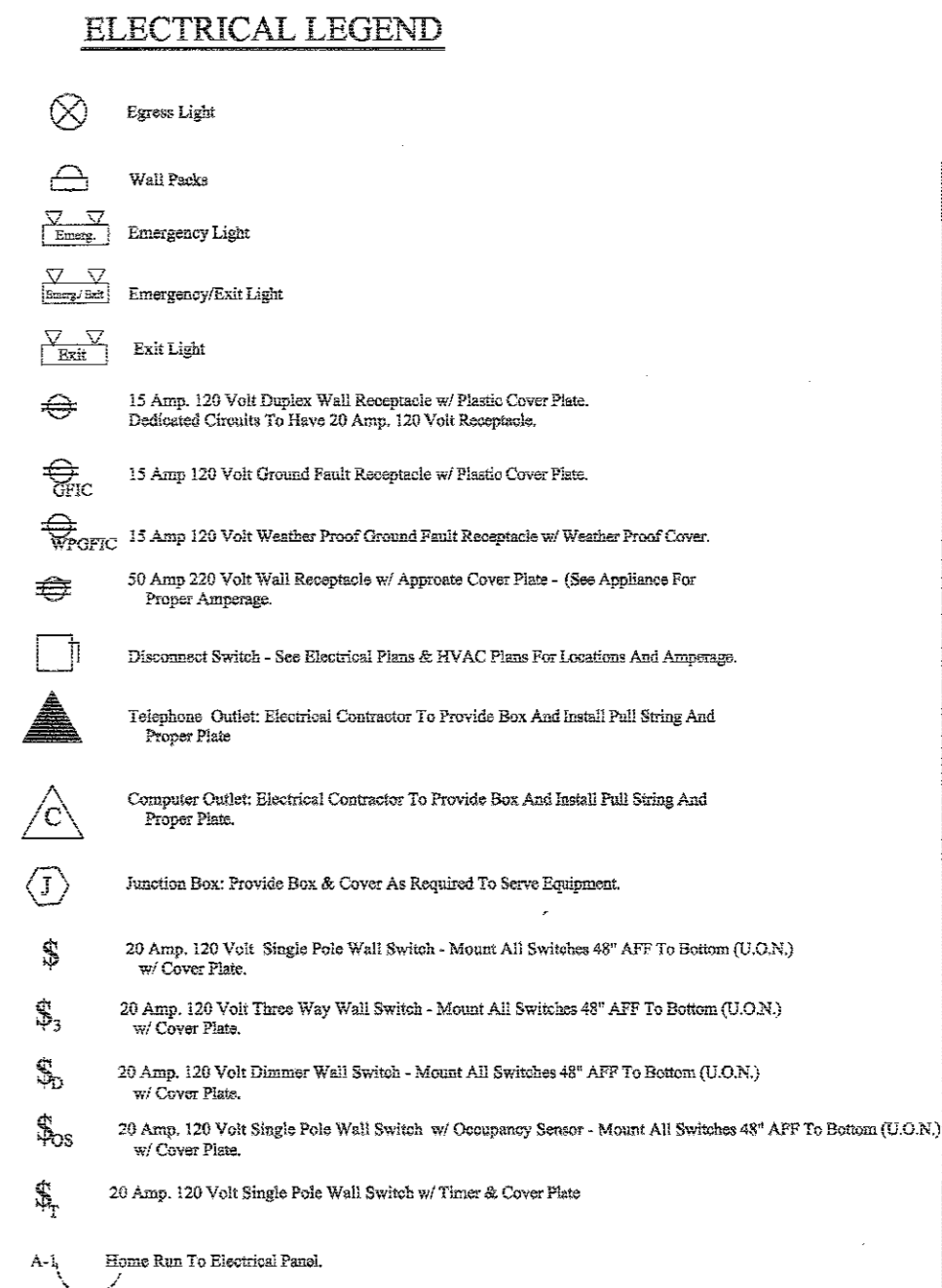
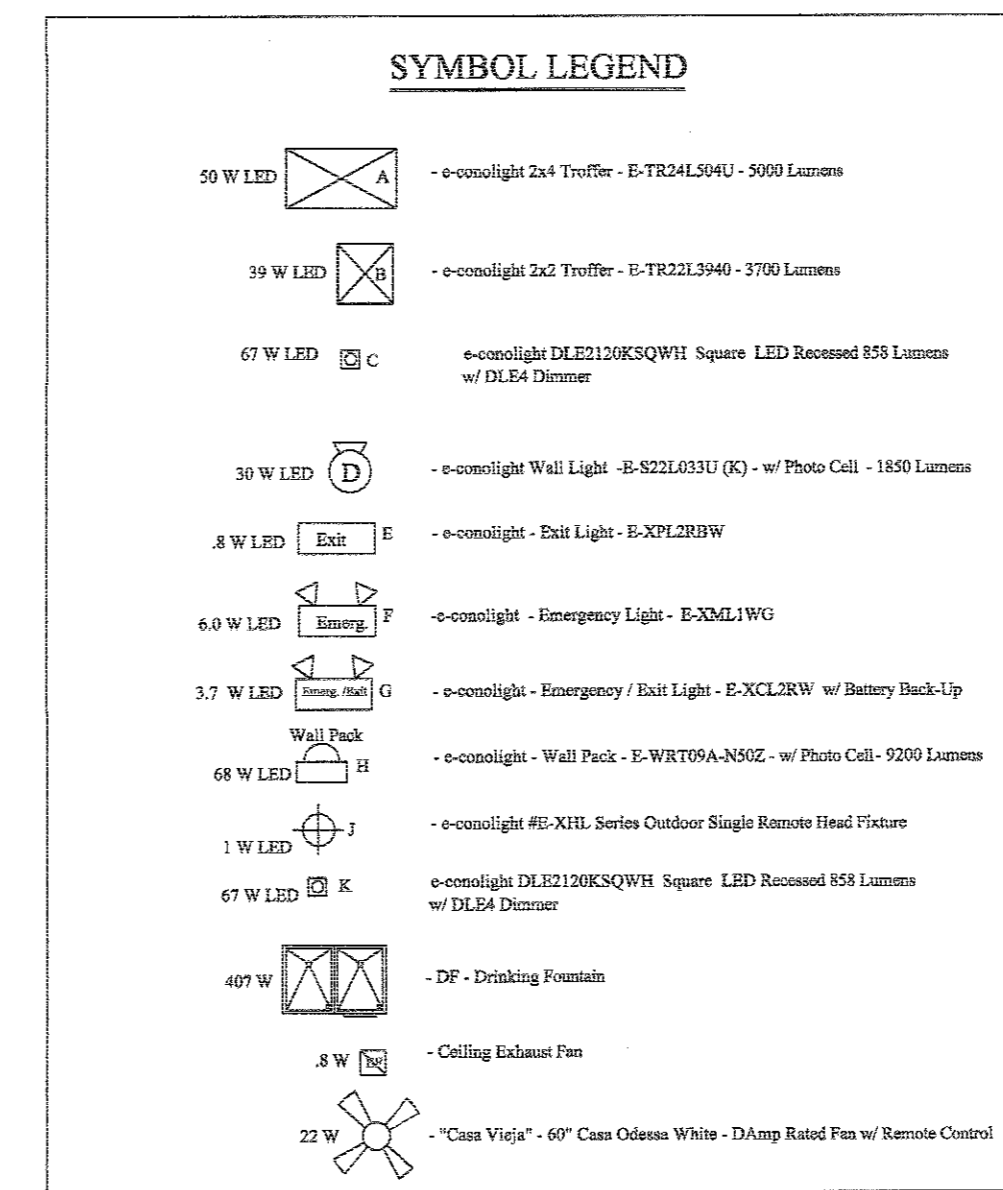


PANEL BOARD SCHEDULE									
Use Existing Circuits As Much As Possible					Use Existing Circuits As Much As Possible				
PANELBOARD DESIGNATION - A		TYPE OF PANEL - CIRCUIT BREAKER			MOUNTING - FLUSH				
VOLTAGE - 120/240V 1PH3W		BUS SIZE (AMPS) - 225A - Rating			MAIN SWITCH - MBS				
POLES - 3P2N		TOTAL SPACE REQUIRED - 42			NOTES:				
FEEDER - EXISTING		AMPS INTERRUPTING RATING - 22 KA			MANUFACTURER - EXISTING				
C	K	T	WIRE SIZE	LOAD (WATTS)	WIRE SIZE	C/B	C	K	T
1	20						20	2	
1	20			Bath Heat & Lamp Post Lights	Light		20	2	
3	20			Bath Heat	Light		20	4	
5	20			Light	Freezer		20	6	
7	20			Ice Machine	Outside Recept. & Light		20	8	
9	20			Light	AIRQ Fan & Kt. Heat		20	10	
11	20			Recept.	A/C #2		30	12	
13	20			Dish Washer	A/C #2		14	14	
15	20			Recept. Kitchen	Panel 'B'		70	16	
17	20			Recept. Kitchen	Panel 'B'		18	18	
19	20			Light	A/C #3		50	20	
21	20			Recept. Kitchen	A/C #3		22	22	
23	60			AH #3	RWH		30	24	
25	20			AH #3	RWH		26	26	
27	40			Oven	AH #3		60	28	
29	20			Oven	AH #2		30	30	
31	40			Oven	AH #2		6	32	
33	20			Oven	AH #2		6	34	
35	50			A/C #1	AH #2		30	36	
37	20	12	304	A/C #1	AH #2		6	38	
39	20	12		New Wall Packs, Emerg., Stk Light	AH #1		6	40	
41	20	12	1620	New Wall Recept. In Addition & New WPCFC	AH #1		6	42	

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									
Use Existing Circuits As Much As Possible					Use Existing Circuits As Much As Possible				
PANELBOARD DESIGNATION - B		TYPE OF PANEL - CIRCUIT BREAKER			MOUNTING - FLUSH				
VOLTAGE - 120/240V 1PH3W		BUS SIZE (AMPS) - 75A - Existing			MAIN SWITCH - MBS				
POLES - 3P2N		TOTAL SPACE REQUIRED - 24			NOTES:				
FEEDER - EXISTING		AMPS INTERRUPTING RATING - 22 KA			MANUFACTURER - EXISTING				
C	K	T	WIRE SIZE	LOAD (WATTS)	WIRE SIZE	C/B	C	K	T
1	20	12					12	20	2
1	20	12		Recept. Fellowship - Left	Recept. Fellowship - Right		12	20	2
3	20	12		Recept. Fellowship - Left	Recept. Fellowship & Storage		12	20	4
5	20	12		Recept. Fellowship - Left	Freezer		12	20	6
7	20	12		Recept. Fellowship - Left	Dish Washer		12	20	8
9	20	12		Recept. Fellowship - Right	Dish Washer		12	20	10
11	20	12		Recept. Fellowship - Right & Stge	Dish Fans & Floods		12	20	12
13	20	12		Refg.	Shelter Recept.		12	20	14
15	20	12		Refg.	Shelter Wall Packs		12	20	16
17	20	12		Kitchen Recept.	Shelter Lights		12	20	18
19	20	12		Kitchen Recept. - Stk	Outside Building		12	20	20
21	20	12		Kitchen Refg.		Open			22
23	20	12		Kitchen Refg.		Open			24

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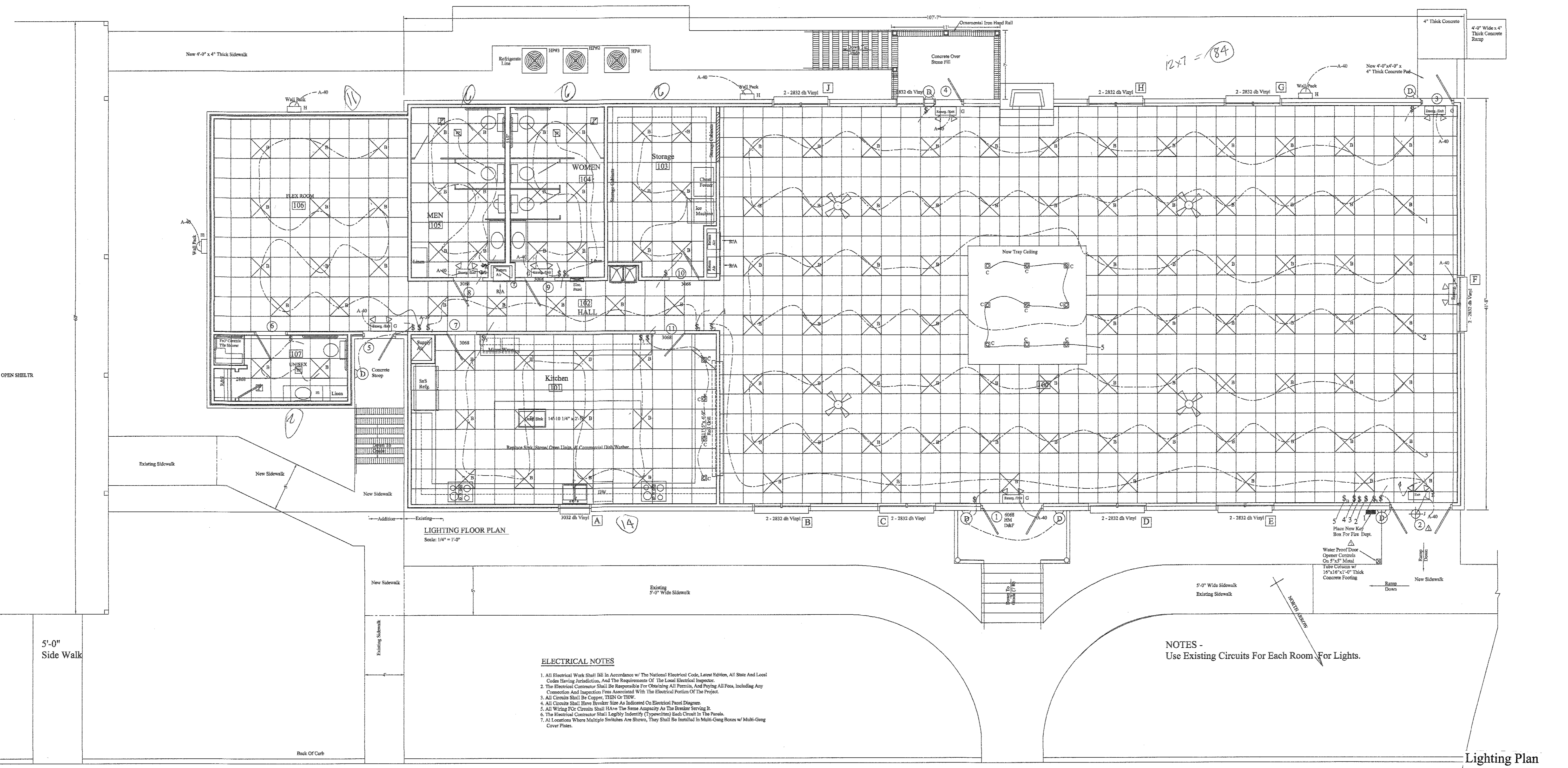


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SEAL



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- The Electrical Contractor Shall Legibly Identify (Type/print) Each Circuit In The Panels.
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NOTES -
Use Existing Circuits For Each Room For Lights.

Lighting Plan