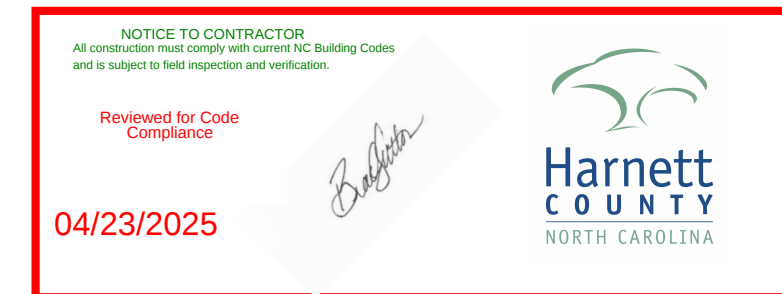


Building Plans
FOR
Harmony Baptist Church
NC HIGHWAY 210
BUNN LEVEL , NC 28523



PREPARED FOR

RODNEY GREGORY, CONSTRUCTION CHAIRMEN
HARMONY BAPTIST CHURCH
BUNN LEVEL, NORTH CAROLINA
TELEPHONE 910–984–6932

ENGINEER

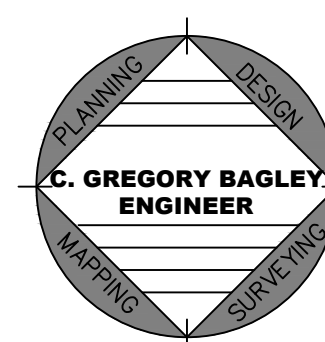
C. GREGORY BAGLEY
805 COKESBURY ROAD
FUQUAY VARINA, NC 27526
PHONE: (919) 609–300

Brad Sutton
1. Occupancy is A-3. A-2 has been changed to A3 in all locations.
2. Storage must be limited/designed as a mezzanine, and open to the multipurpose room. Area above may not exceed 1/3 the floor area of the multipurpose room. Otherwise, this is considered a story and sprinklers will be required. Area for storage is now 1/3 of the Multipurpose room.
3. No more than 3 WC allowed on 3 inch drain. 3" drain is now 4".
4. Calculated load exceeds 200 amps. Panel has been changed to 400 amp Service.
5. Door hardware not shown. All egress doors shall have panic hardware. Door Schedule shows panic hardware for all Egress Doors on the Life and Safety Plan.

Please advise if there are any other Comments.
Thanks
Greg Bagley
919-609-0300

SHEET INDEX

COVER SHEET
CODE SHEET
LIFE SAFETY
ELEVATION
TOP VIEW
FLOOR PLAN
FOUNDATION
PLUMBING
MECHANICAL
ELECTRICAL



**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: HARMONY BAPTIST CHURCH
Address: 10 27 HIGHWAY 141, LILINGTON Zip Code:
Owner/Authorized Agent: ONE BAGLEY Phone # (813) 552 - 4350 E-Mail: ONE.BAGLEY@GREGORY.COM
Owned By: SELECT ONE HARMONY BAPTIST CHURCH
Code Enforcement Jurisdiction: SELECT ONE LILINGTON, NC

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural					
Civil	C. Gregory Bagley, Engineer	Craig Bagley	12276	(813) 552-4350	ONE.BAGLEY@GREGORY.COM
Electrical	C. Gregory Bagley, Engineer	Craig Bagley	12276	(813) 552-4350	ONE.BAGLEY@GREGORY.COM
Fire Alarm					
Plumbing	C. Gregory Bagley, Engineer	Craig Bagley	12276	(813) 552-4350	ONE.BAGLEY@GREGORY.COM
Mechanical	C. Gregory Bagley, Engineer	Craig Bagley	12276	(813) 552-4350	ONE.BAGLEY@GREGORY.COM
Sprinkler-Standpipe					
Structural					
Retaining Walls >5' High					
Other					

(*Other* should include firms and individuals such as, but not limited to, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: SELECT ONE NEW CONSTRUCTION
2018 NC EXISTING BUILDING CODE: SELECT ONE SELECT ONE SELECT ONE
CONSTRUCTED: (date) CURRENT OCCUPANCY(IES) (Ch. 3) VACANT
RENOVATED: (date) PROPOSED OCCUPANCY(IES) (Ch. 3) A3
RISK CATEGORY (Table 1604.5): Current: SELECT ONE Proposed: SELECT ONE

BASIC BUILDING DATA
Construction Type: SELECT ONE I
Sprinklers: SELECT ONE SELECT ONE
Standpipes: SELECT ONE NONE
Primary Fire District: SELECT ONE A3 Flood Hazard Area: SELECT ONE A3
Special Inspections Required: SELECT ONE N/A

Gross Building Area Table			
FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor	5,400		5,400
Basement			
TOTAL			5,400

2018 NC Administrative Code and Policies

ALLOWABLE AREA
Primary Occupancy Classification(s): SELECT ONE SELECT ONE SELECT ONE SELECT ONE SELECT ONE A-3
Accessory Occupancy Classification(s):
Incidental Uses (Table 509):
Special Uses (Chapter 4 - List Code Sections):
Special Provisions: (Chapter 5 - List Code Sections):
Mixed Occupancy: SELECT ONE Separation: SELECT ONE Exception:

Select one

Actual Area of Occupancy A + Actual Area of Occupancy B ≤ 1

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 506.2.4 AREA FOR FRONTAGE AREA	(C) AREA FOR FRONTAGE INCREASE 1.5	(D) ALLOWABLE AREA PER STORY OR UNLIMITED 2.3
1	ITCHEN/ASSEMBLY	5,400	23,000	N/A	23,000

- Frontage area increases from Section 506.3 are computed thus:
 - Perimeter which fronts a public way or open space having 20 feet minimum width = $\frac{N}{A}$ (F)
 - Total Building Perimeter = $\frac{N}{A}$ (P)
 - Ratio (F/P) = $\frac{N}{A}$ (F/P)
 - W = Minimum width of public way = $\frac{N}{A}$ (W)
 - Percent of frontage increase If = $100(F/P - 0.25) \times W/30 = \frac{N}{A}$ (%)
- Unlimited area applicable under conditions of Section 507.
- Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
- The maximum area of open parking garages must comply with Table 406.5.4.
- Frontage increase is based on the unspinklered area value in Table 506.2.

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE 1
Building Height in Feet (Table 504.3) 2	55	25	
Building Height in Stories (Table 504.4) 3		4	

- Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
- The maximum height of air traffic control towers must comply with Table 412.3.1.
- The maximum height of open parking garages must comply with Table 406.5.4.

2018 NC Administrative Code and Policies

FIRE PROTECTION REQUIREMENTS							
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REDO	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Roofing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction							
Including supporting beams and joists							
Floor Ceiling Assembly							
Columns Supporting Floor							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Use Barrier Separation							
Particulate Vial Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenew/Dwelling Unit							
Sleeping Unit Separation							
Incidental Use Separation							
*Indicate section number permitting reduction							

2018 NC Administrative Code and Policies

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 (%)
20'	UP TO 5	70%	70%

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: SELECT ONE NO
Exit Signs: SELECT ONE YES
Fire Alarm: SELECT ONE NO
Smoke Detection Systems: SELECT ONE YES
Carbon Monoxide Detection: SELECT ONE NO

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #:

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (If not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☐ Occupant loads for each area
☐ Exit access travel distances (1017)
☐ Common path of travel distances (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 (1020)
☐ 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

2018 NC Administrative Code and Policies

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
1	1	1	1	1		

ACCESSIBLE PARKING (SECTION 1106)						
LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	REGULAR WITH 9' ACCESSIBLE	13' ACCESSIBLE	# ACCESSIBLE	TOTAL # ACCESSIBLE SPACES PROVIDED
	16	16				2
TOTAL	16	16				2

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)						
USE	WATER CLOSETS	URINALS	LAVATORIES	SHOWERS	DRINKING FOUNTAINS	
SPACE	EXISTING	NEW	EXISTING	NEW	EXISTING	NEW
		1				
				1		

SPECIAL APPROVALS

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

2018 NC Administrative Code and Policies

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If 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: SELECT ONE

Exempt Building: SELECT ONE Provide code or statutory reference:

Climate Zone: 4

Method of Compliance: SELECT ONE (If "Other" specify source here) PERSCRPTIVE

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)

Description of assembly: METAL ROOFING
U-Value of total assembly: 0.02
R-Value of insulation: CUMULATIVE R=30+
Skylights in each assembly:
U-Value of skylight:
total square footage of skylights in each assembly:

Exterior Walls (each assembly)

Description of assembly: Brick Siding
U-Value of total assembly: 0.025
R-Value of insulation: R=13.5-15.5
Openings (windows or doors with glazing)
U-Value of assembly:
Solar heat gain coefficient:
projection factor:
Door R-Values:

Walls 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:

Floors slab on grade

Description of assembly: 8-4 AS PER SECTION 902.2.4 TABLE 1-2.3
U-Value of total assembly: 0.25
R-Value of insulation: R= 4
Horizontal/vertical requirement:
slab heated:

2018 NC Administrative Code and Policies

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)**

DESIGN LOADS:

Importance Factors: Snow (IS) SELECT ONE .87
Seismic (IE) SELECT ONE .8

Live Loads: Roof 20 psf
Mezzanine 50 psf
Floor 50 psf 100 PSF FOR COMMON PORCHES

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 110 mph (ASCE-7)
Exposure Category SELECT ONE C

SEISMIC DESIGN CATEGORY: SELECT ONE

Provide the following Seismic Design Parameters: A
Risk Category (Table 1604.5) SELECT ONE I
Spectral Response Acceleration SS 2.7 %g S1 3.7 %g

Site Classification (ASCE 7) SELECT ONE E
Data Source: SELECT ONE PRESUMPTIVE BUILDING FRAME
Basic structural system SELECT ONE ANALYSIS PROCEDURE: SELECT ONE SIMPLIFIED
Architectural, Mechanical, Components anchored? SELECT ONE

LATERAL DESIGN CONTROL: SELECT ONE

SOIL BEARING CAPACITIES:
SELECT ONE 2000 psf
File size, type, and capacity

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)**

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: 20
summer dry bulb: 92

Interior design conditions

winter dry bulb: 20
summer dry bulb: 92
relative humidity: 70

Building heating load: 42,050

Building cooling load: 51,325

Mechanical Spacing Conditioning System

Unitary description of unit: (2) SPLIT SYSTEMS
heating efficiency: 14 SEERS
cooling efficiency: 12
size category of unit: 58,000

Boiler Size category. If oversized, state reason: N/A
Chiller Size category. If oversized, state reason: N/A

List equipment efficiencies: 44 %

2018 NC Administrative Code and Policies

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)**

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: SELECT ONE PERSCRPTIVE
Lighting schedule (each fixture type) PER DRAWINGS
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; 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 System
☐ C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies

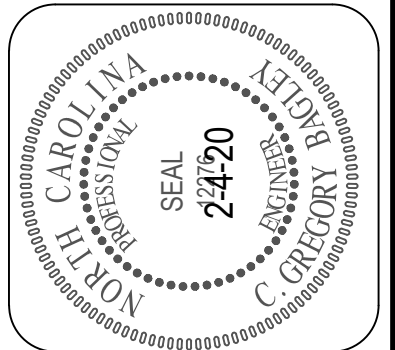
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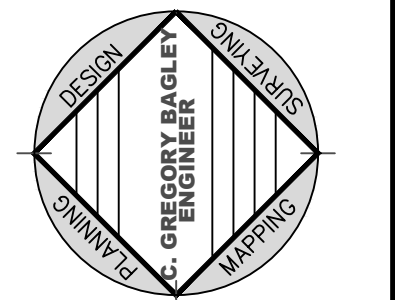
Drawn/Design By:

Scale:

REVISIONS		
No.	Date	Remarks
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2		
3		
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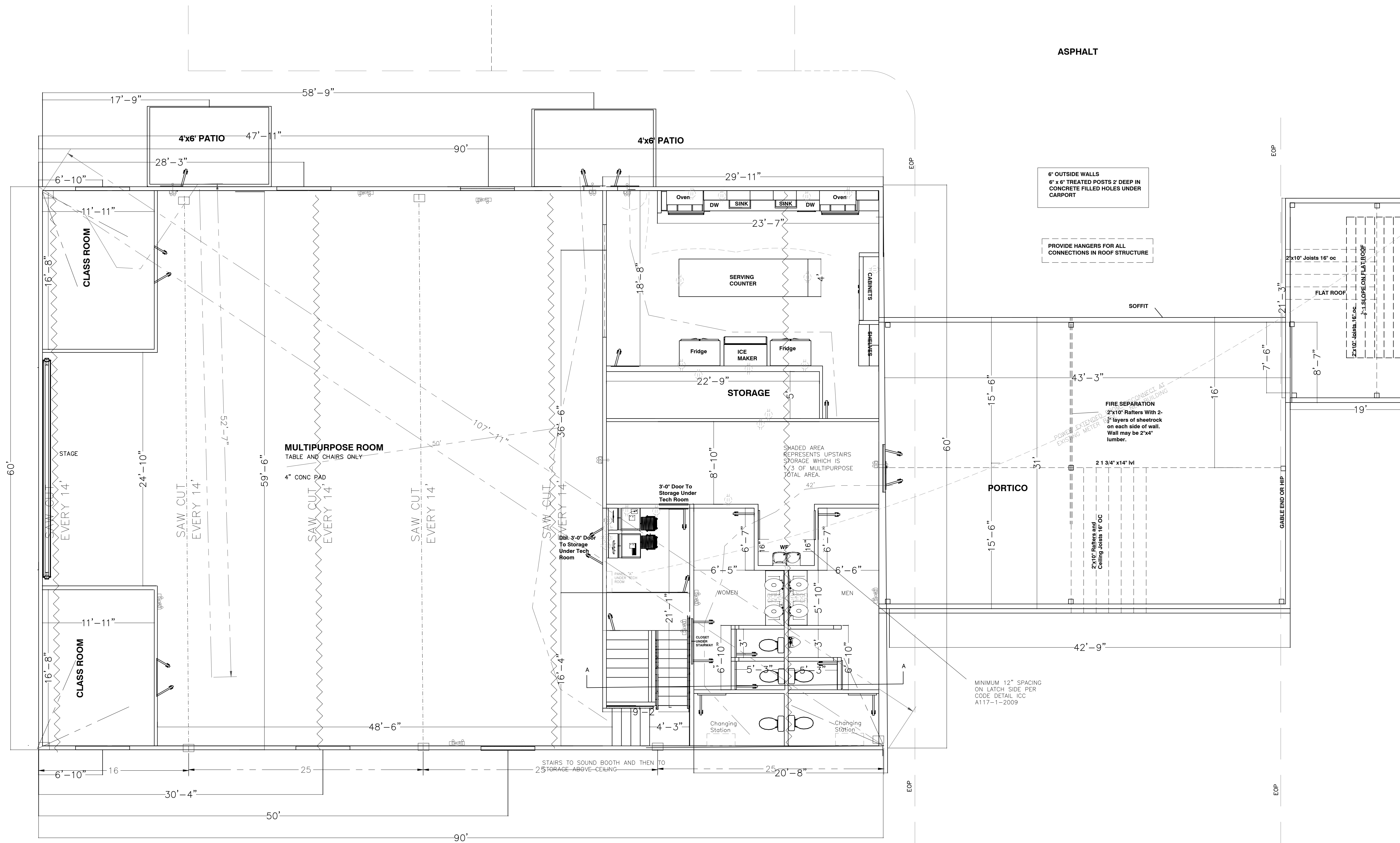
CODE SHEET

**HARMONY
BAPTIST CHURCH
RODNEY GREGORY
Harnett County N.C.**

Sheet Number

2

of 10



Emergency Lighting: Select one NO
Exit Signs: Select one YES
Fire Alarm: Select one NO
Smoke Detection Systems: Select one YES
Carbon Monoxide Detection: Select one NO

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: _____

- ☐ Fire and/or smoke rated wall locations (Chapter 7)
- ☐ Assumed and real property line locations (if not on the site plan)
- ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
- ☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- ☐ Occupant loads for each area
- ☐ Exit access travel distances (1017)
- ☐ Common path of travel distances (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 the items above

DIAGONAL IS 107'-11"
DISTANCE BETWEEN EXIT
MAX = 54' OR 1/2 DIAGONAL
5 EXIT DOOR AT 35"/.32
= 546 OCCUPANTS CAN
BE EVACUATED.

OCCUPANT LOAD

LOCATION	TYPE	TABLE 1004.1	AREA	OCCUPANCY
MULTIPURPOSE	A2	15 NET	3185 SQ FT	244
KITCHEN	A2	200 GROSS	478 SQ FT	3
CLASS	A2	15 NET	352 SQ FT	20
STORAGE	A2	200 GROSS	1065 SQ FT	5
TOTAL			5400 SQ FT	272

LIFE SAFETY

3/16" = 1'0"

Project #:

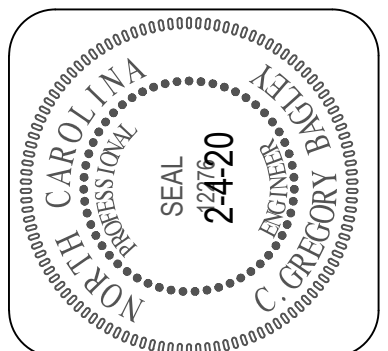
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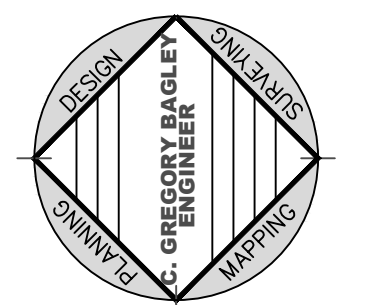
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REVISIONS

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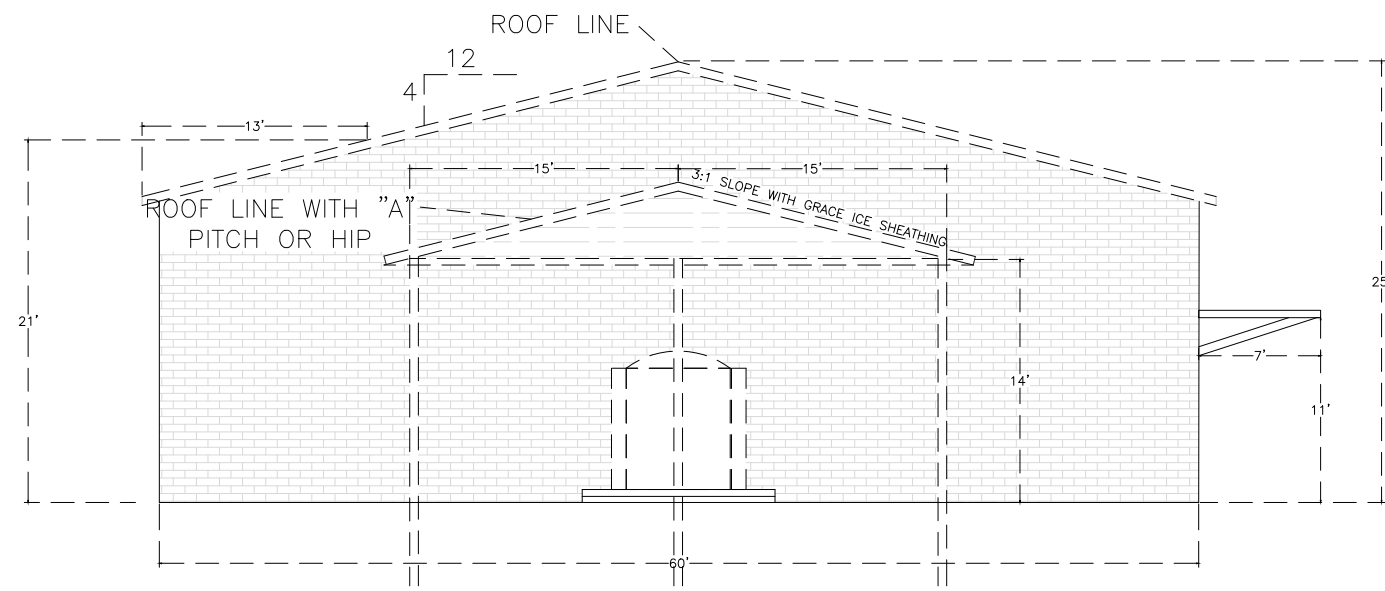
LIFE SAFETY

HARMONY
BAPTIST CHURCH
RODNEY GREGORY
Harnett County N.C.

Sheet Number

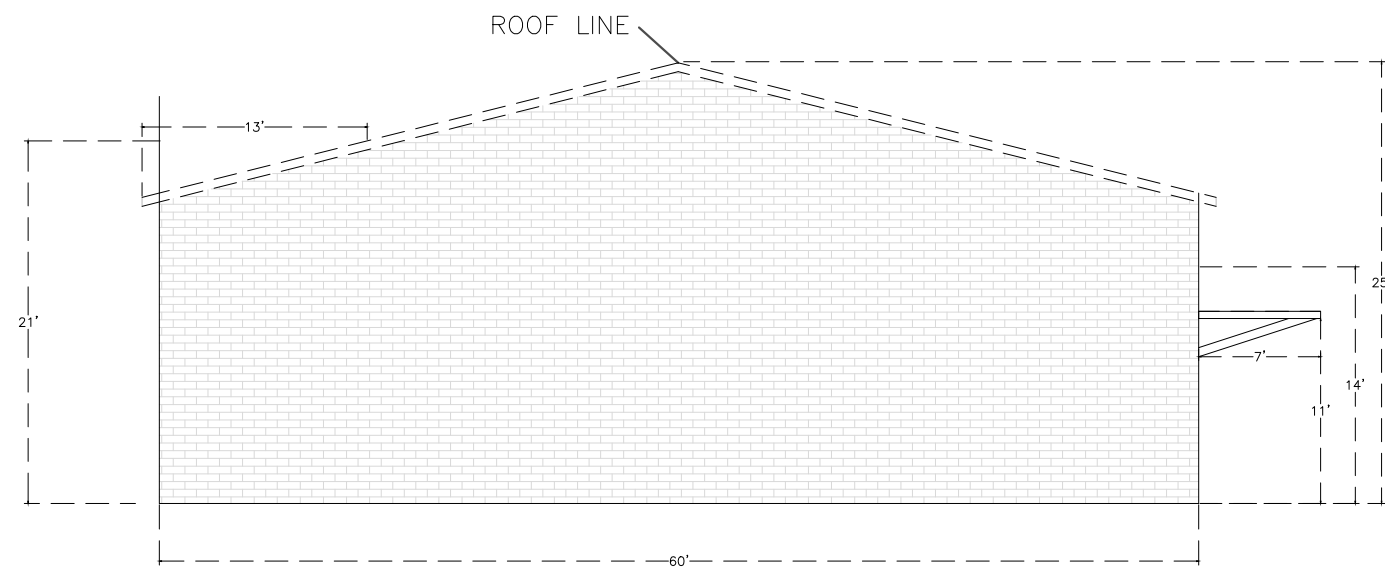
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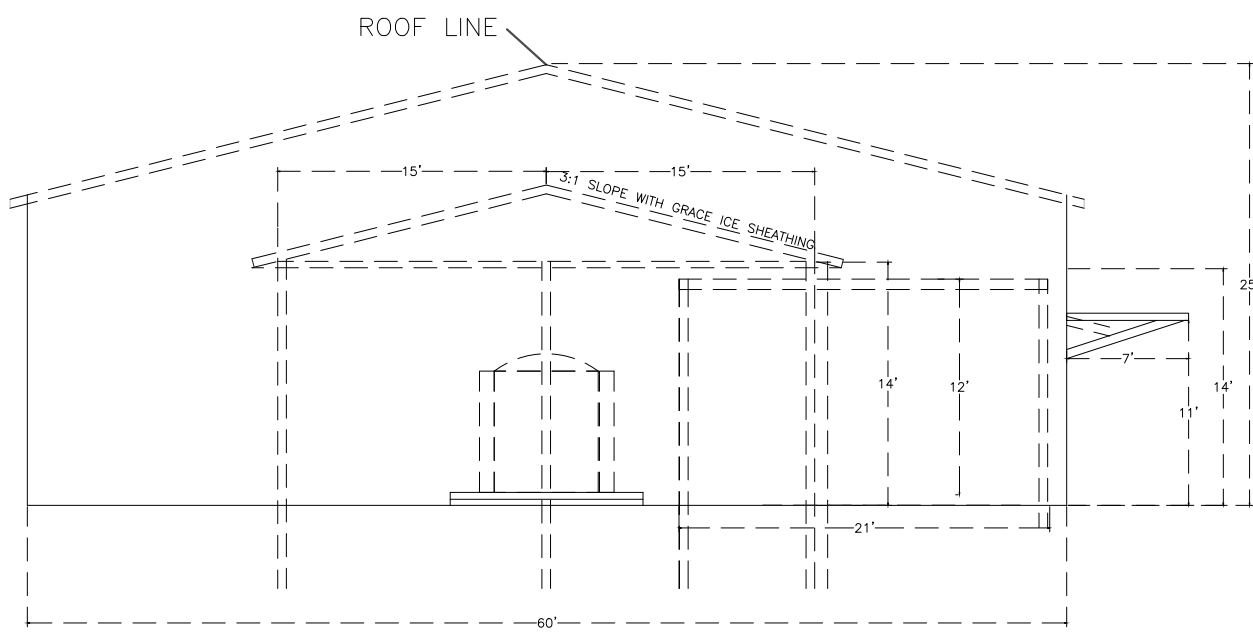


FRONT VIEW

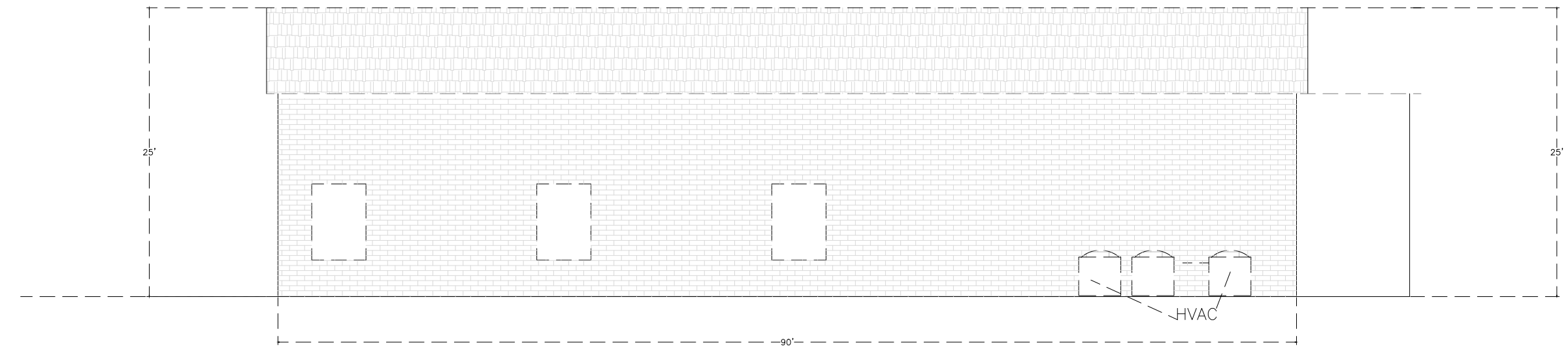
BUILDING MATERIAL
METAL SIDING BUTTER CREAM .026 GAUGE
METAL ROOF .026 GALVALUME
BRICK STANDARD GRAY SHALE
WINDOWS BRONZE WITH GRAY TINT
DOOR BRONZE WITH GRAY TINT
DOWN SPOUT 6" DARK GRAY



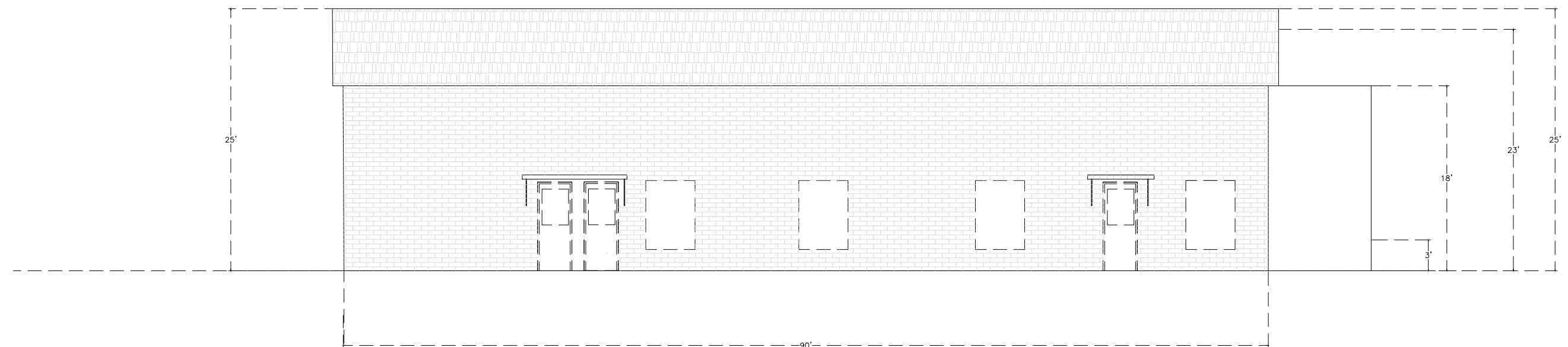
BACK VIEW



ROOF VIEW



RIGHT VIEW



LEFT VIEW

ELEVATION

$\frac{3}{16}'' = 1'0''$

Project #:

Date:

Drawn/Design By:

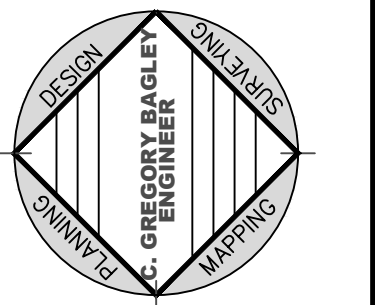
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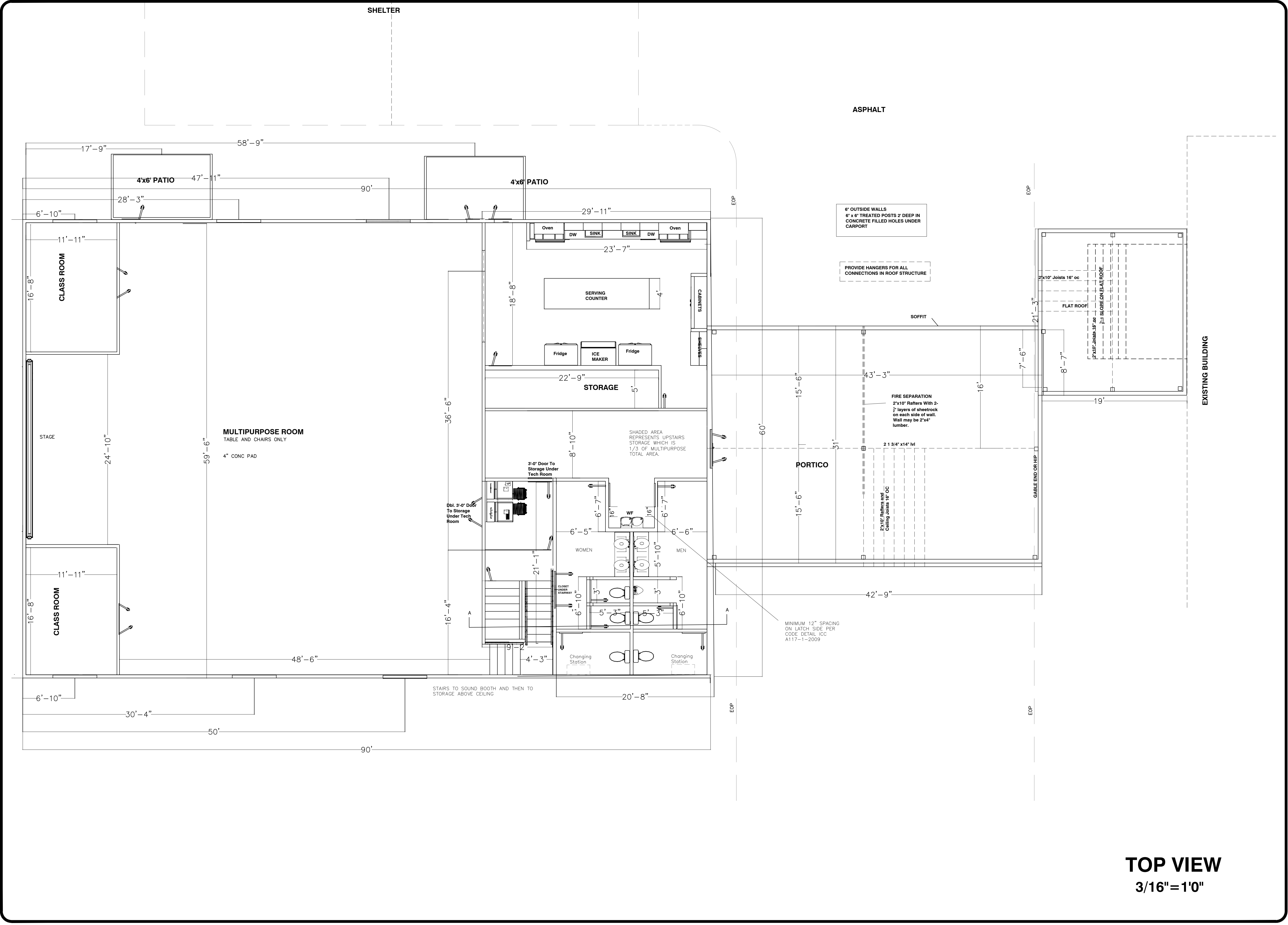
ELEVATION

HARMONY
BAPTIST CHURCH
RODNEY GREGORY
Harnett County N.C.

Sheet Number

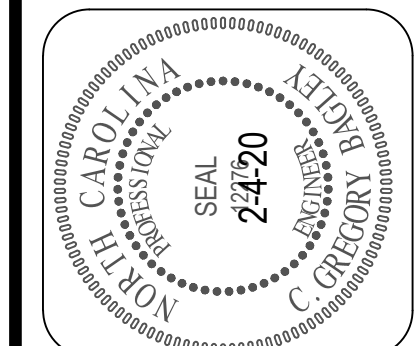
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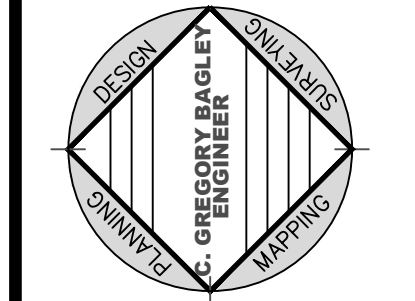


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Date:
Drawn/Design By:
Scale:

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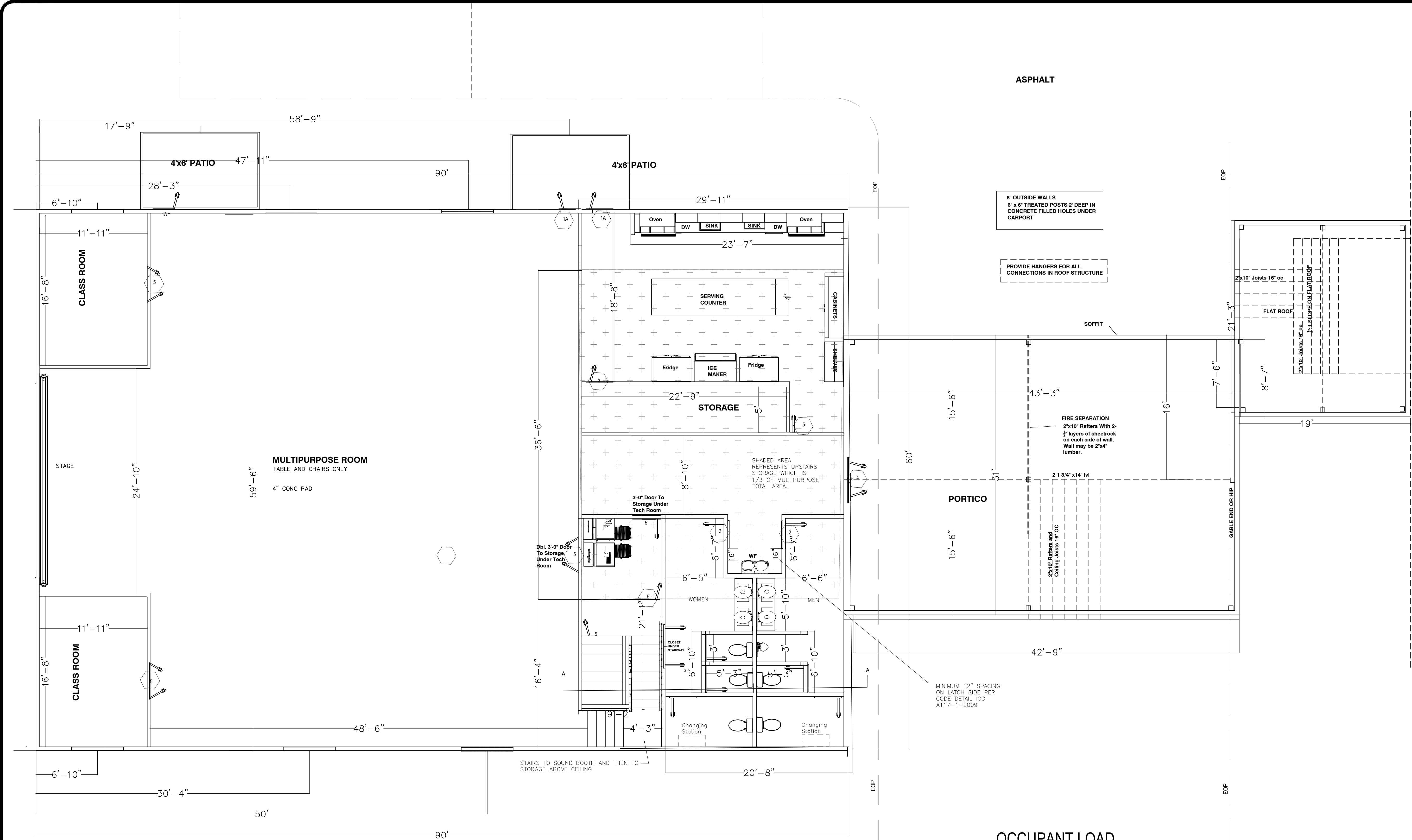


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FLOOR PLAN

**HARMONY
BAPTIST CHURCH
RODNEY GREGORY
Harnett County N.C.**



DOOR SCHEDULE				
LOCATION	TYPE	SIZE	KEY	
1	EXTERIOR H.M. FRAME AND METAL DOOR	36"x84"	Y	
1A	EXTERIOR H.M. FRAME AND M.D. w/ PANIC HARDWARE (A)	36"x84"	Y	
2	MEN H. M. DOOR w/ WOOD PANEL	36"x84"	Y	
3	WOMEN H.M. DOOR w/ WOOD PANEL	36"x84"	Y	
4	HALL DOOR H.M. DOOR w/ 4" SITE GLASS AND PANIC HARDWARE	72"x84"	Y	
5	INTERIOR H.M. FRAME AND METAL DOOR (S)	36"x84"	Y	

BUILDING SQ. FOOTAGE

LOCATION	TYPE	AREA
MULTIPURPOSE	HEATED	3185 SQ FT
KITCHEN (No Commercial)	HEATED	558 SQ FT
CLASS	HEATED	384 SQ FT
STORAGE	HEATED	140 SQ FT
PORCHES	UN-HEATED	1750 SQ FT
UPPER STORAGE (19%)	UN-HEATED	1065 SQ FT

OCCUPANT LOAD

LOCATION	TYPE	TABLE 1004.1	AREA	OCCUPANCY
MULTIPURPOSE	A3	15 NET	3185 SQ FT	244
KITCHEN	A3	200 GROSS	478 SQ FT	3
CLASS	A3	15 NET	352 SQ FT	20
UPPER STORAGE	A3	200 GROSS	1065 SQ FT	5
		TOTAL	5400 SQ FT	272

FLOOR PLAN

3" = 1'0"

Project #:

Date:

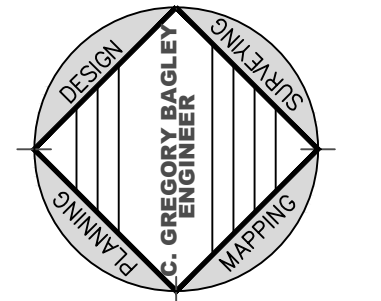
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Scale:

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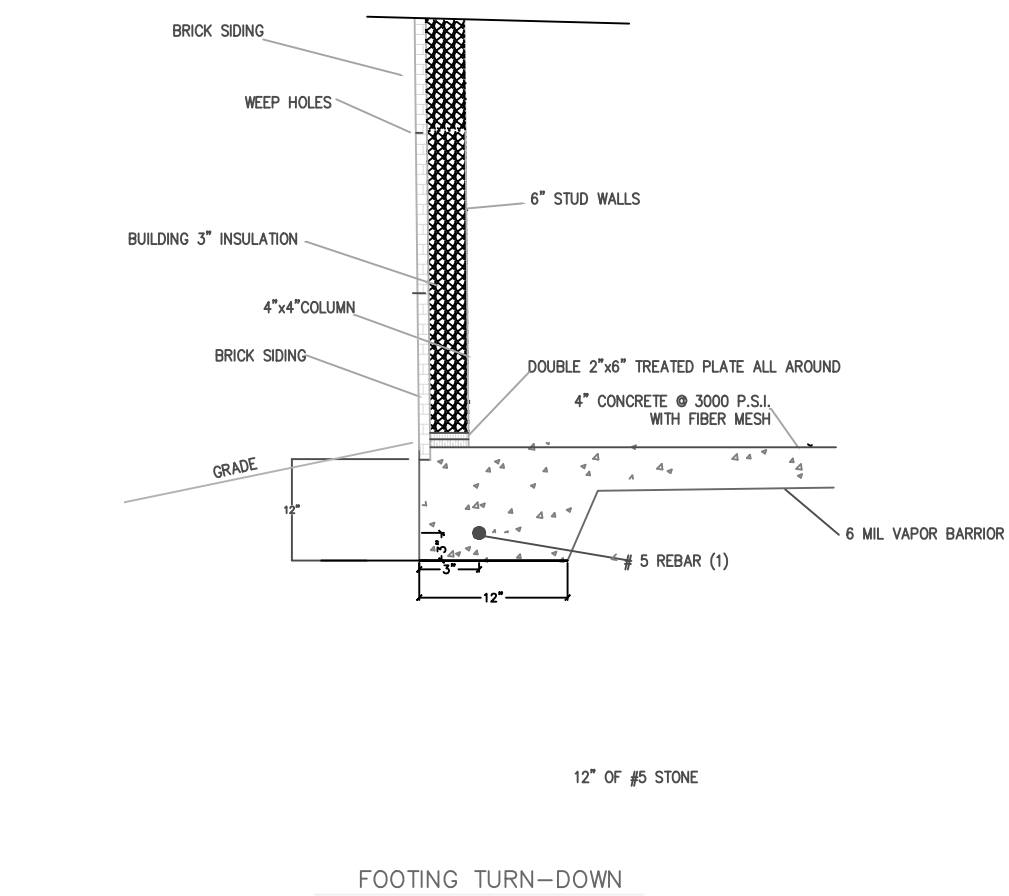
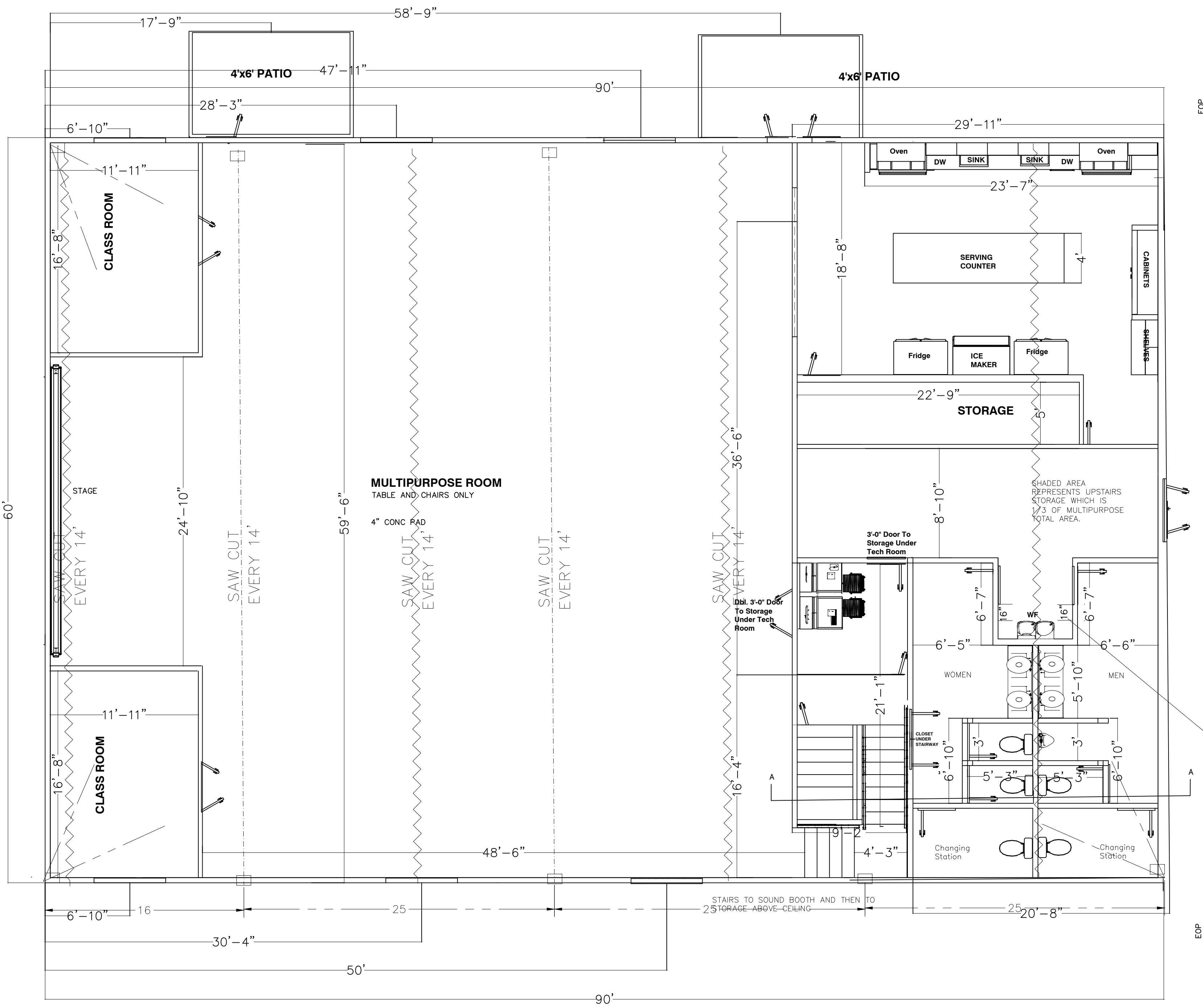


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FLOOR PLAN

HARMONY
BAPTIST CHURCH
RODNEY GREGORY
Harnett County N.C.

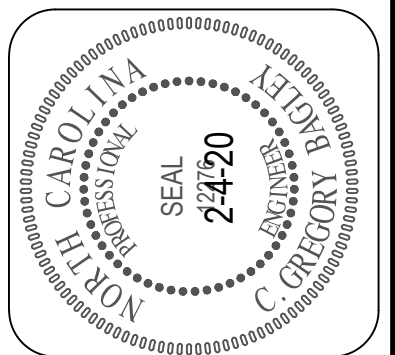


FOUNDATION

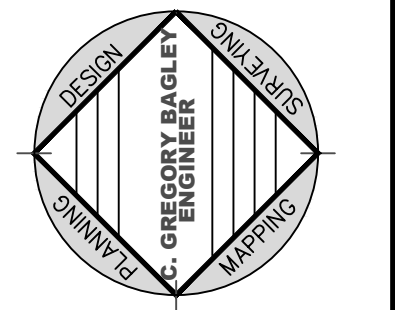
3" = 1'0"

Project #:
Date:
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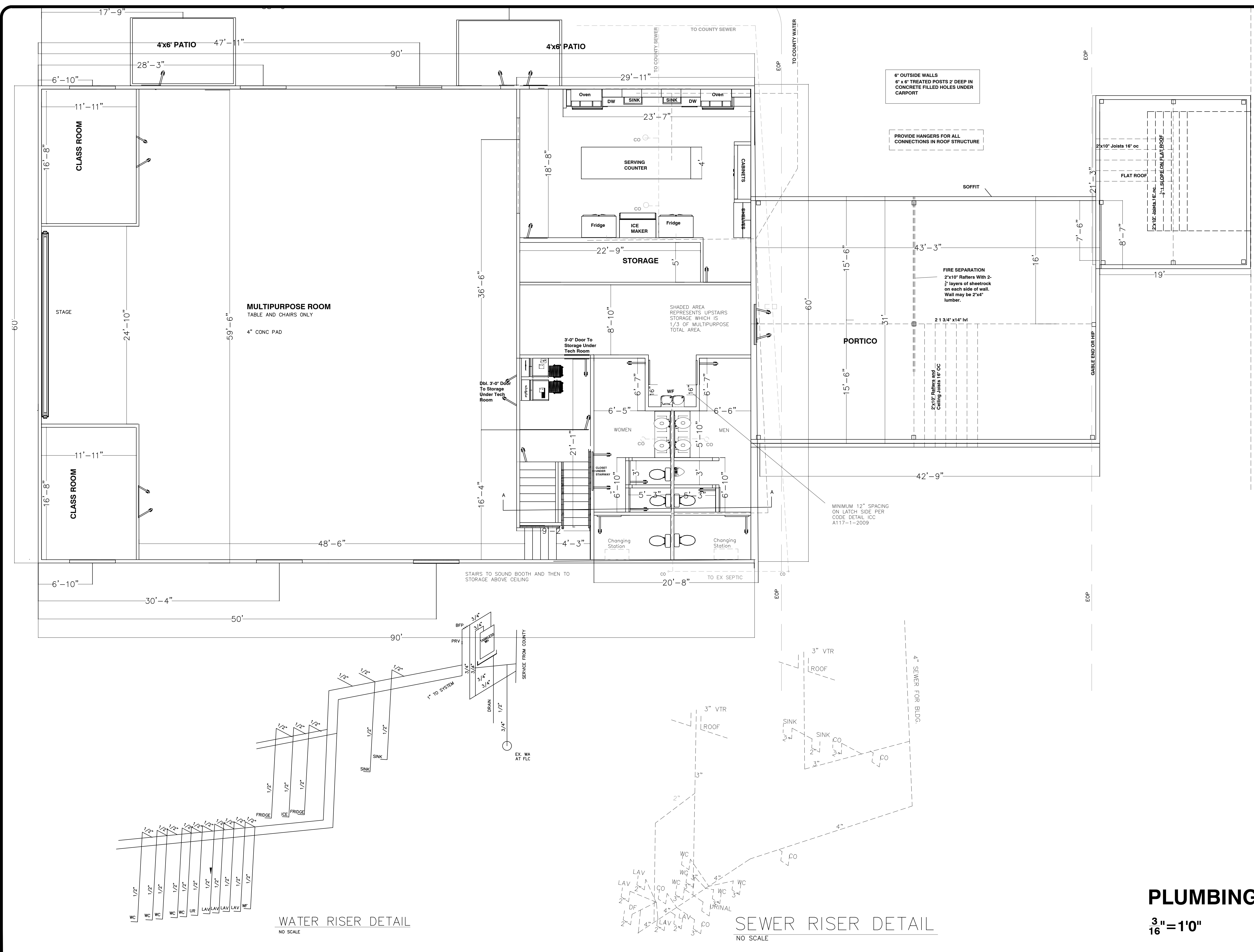


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FOUNDATION

HARMONY
BAPTIST CHURCH
RODNEY GREGORY
Harnett County N.C.

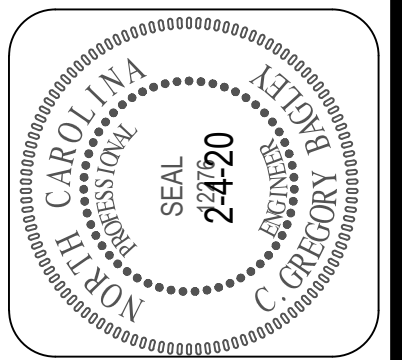


PLUMBING

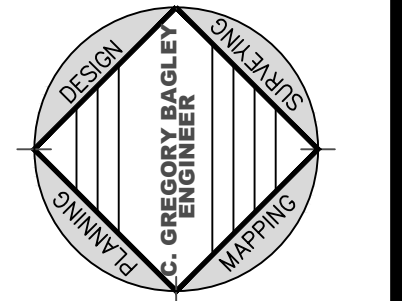
3/16" = 1'0"

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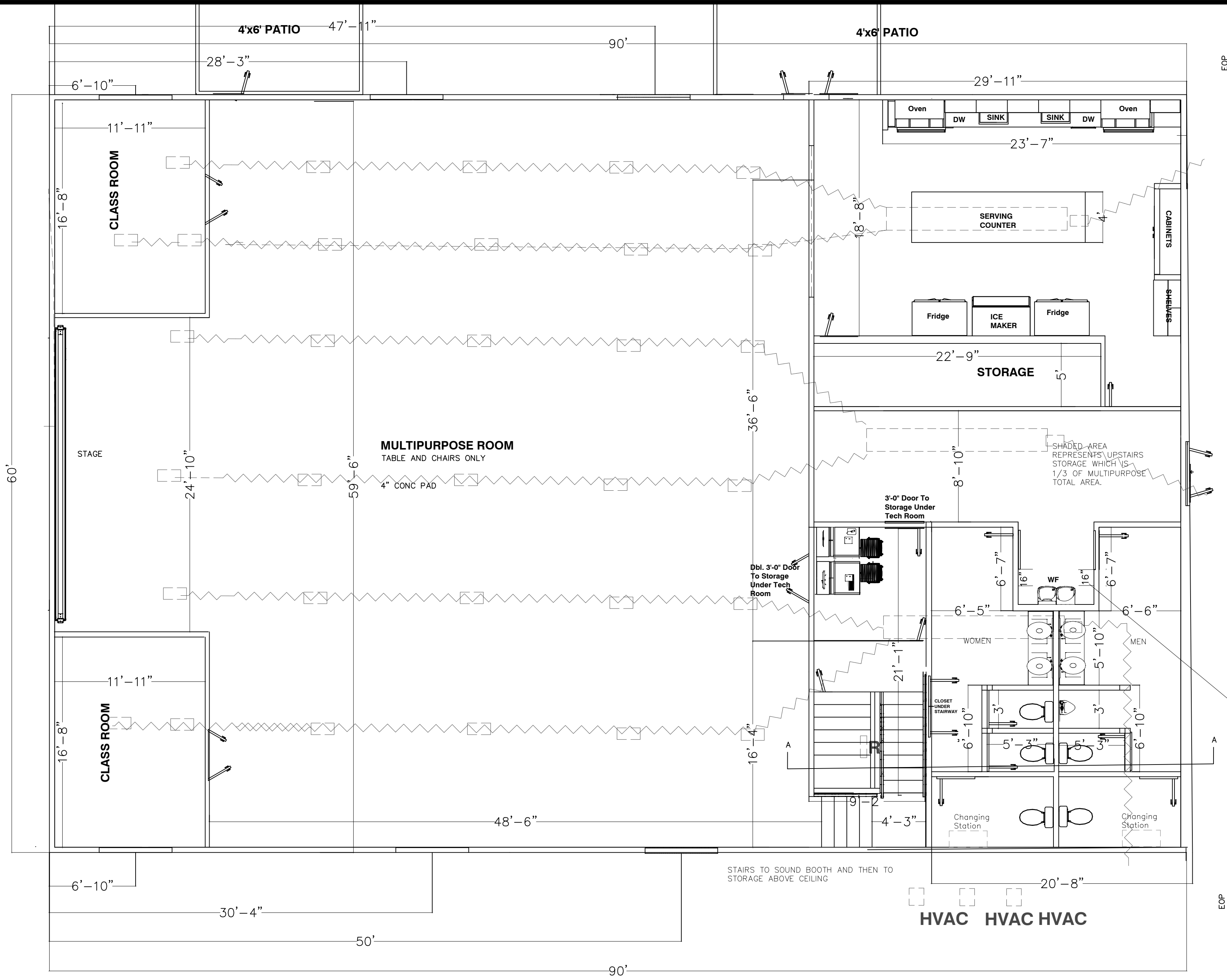


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PLUMBING PLAN

HARMONY
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HVAC

MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT

METHOD OF COMPLIANCE	PREScriptive
THERMAL ZONE	III
EXTERIOR DESIGN CONDITIONS	
winter dry bulb	18 F
summer dry bulb	82 F
INTERIOR DESIGN CONDITIONS	
winter dry bulb	70 F
summer dry bulb	74 F
relative humidity	50 %
BUILDING HEATING LOAD	75000/150000 BTU
BUILDING COOLING LOAD	123000 BTU
MECHANICAL SPACE CONDITIONING SYSTEMS	
Unitary	
description of unit	DX COOLING/HEAT
heating efficiency	12.2 IEER
cooling efficiency	12.2 IEER
heating output of units	60750 BTU
cooling output of units	119,000 BTU
SEE EQUIPMENT EFFICIENCIES	SEE SCHEDULE
EQUIPMENT SCHEDULES WITH MOTORS	SEE SCHEDULE

OUTSIDE AIR CALCULATION

CFM/PERSON	TOTAL CFM
50 CLIENTS	250

USE 8" FLEX FOR OUTSIDE DUCT TO EACH UNIT

TOTAL CFM PRODUCED = 7200
(20) 8" VENTS
30 VENTS @ 220 CFM / VENT
= 6600 CFM OUTPUT
STATIC PRESSURE = 0.1in-wg

HVAC EQUIPMENT NOTES

USE (3) 14 SEER UNITS HEAT PUMP.
UNIT TO BE ON CONC SLAB OUTSIDE BUILDING.
3/4" CONDENSATE LINE WITH P-TRAP ROUTED TO OUTSIDE AND FASTENED TO WALL.
OUTSIDE AIR INTAKE TO BE ROUTED UP WALL FRAMING AND TERMINATED ABOVE ROOF.
INTAKE MUST BE A MINIMUM OF 10' FROM OUTLET OR EXHAUST.
MOUNT PROGRAMMABLE THERMOSTAT ON WALL 48" AFF. AS PER ADA REQUIREMENTS
BATHROOM FANS TO BE 125 CFM WITH 4" DUCT.
DISCHARGE EXHAUST OUTSIDE OF BUILDING.
USE 8" FLEX FOR OUTSIDE AIR INTAKE DUCT

GENERAL HVAC NOTES

PROVIDE ELECTRIC HEAT PUMP - SEE BELOW
MIN REQUIREMENTS TO BE MET AS NOTED ABOVE MET FROM NOTES ABOVE
LOCATE PROGRAMMABLE THERMOSTATS AS NEEDED FOR PROPER EFFECT
FANS SHALL RUN CONTINUOUSLY DURING OCCUPANCY TO PROVIDE OUTSIDE AIR.
DUCT DETECTORS REQUIRED ON ALL UNITS
REMOTE ALARM INDICATOR DEVICES (RAIDS) REQUIRED FOR EACH UNIT AND TO BE INSTALLED
NEAR UNIT NO MORE THAN 72" AFF
DUCT SMOKE DETECTORS TO OPERATE GLOBALLY, ie WHEN ONE DETECTOR ACTIVATES,
ALL AIR HANDLING UNITS SHUT DOWN.

HVAC EQUIPMENT SCHEDULE

EQUIPMENT

3-5 TON UNITS ON GROUND
1-5 TON MINI SPLIT MITSUBISHI
BLUAD UNITS # R00L-B120CL15E
GAS HEAT PACKAGE UNITS

SMOKE DETECTION

USE D 41-20 INDOOR SYSTEM
SMOKE DETECTORS EACH UNIT

RECOMMENDATION

USE ARI-ROCN13 ECONOMISERS
ON EACH UNIT PER CODE

CALCULATE UNIT HEAT

Total Power Input = 88,610 + 1,650
= 10,511 Watts
EOP

GAS PIPING TABLE

CHAPTER 4 OF NC FUEL GAS CODE TABLE 4.02.4(3)

MINIMUM 12" SPACING
ON LATCH SIDE PER
CODE DETAIL ICC
A117-1-2009

MECHANICAL

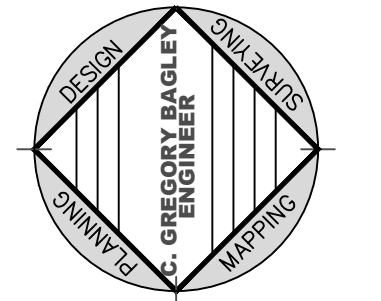
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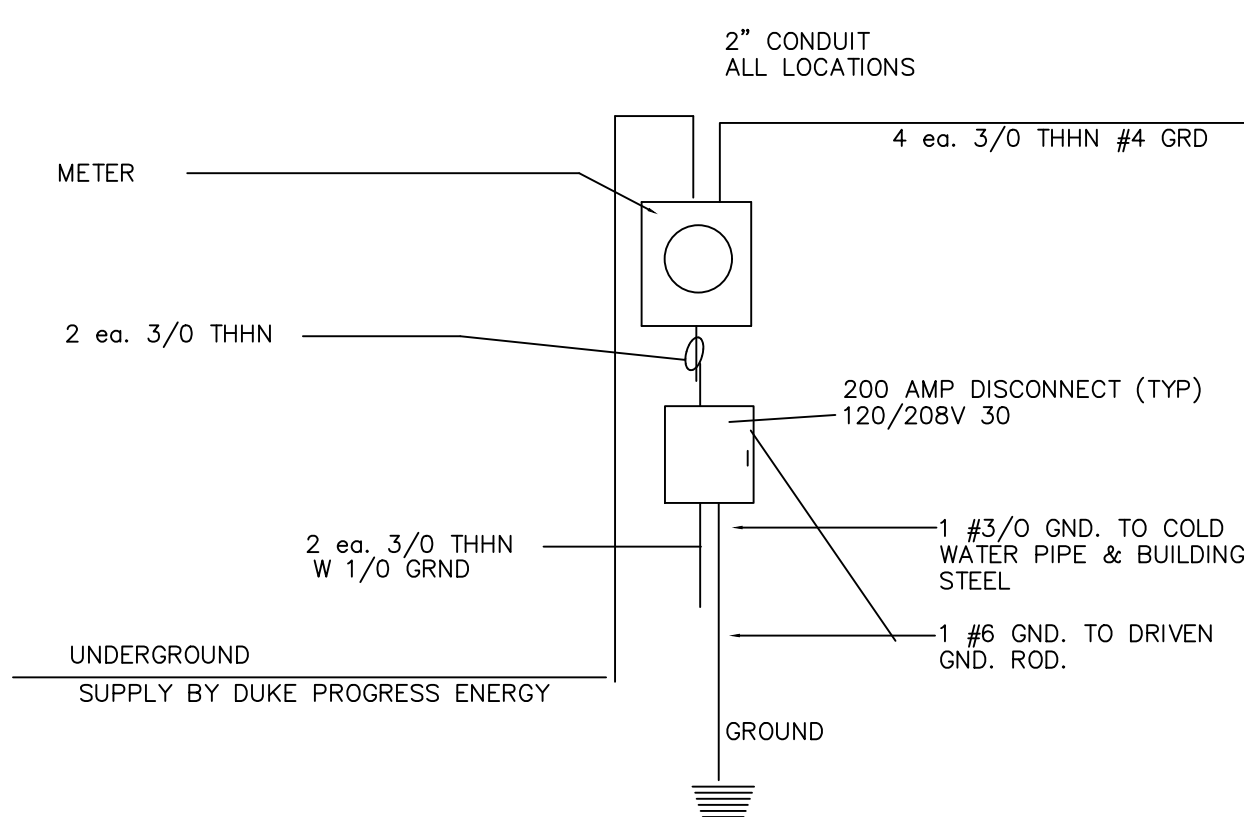


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MECHANICAL PLAN

HARMONY
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RODNEY GREGORY
Harnett County N.C.



ELECTRICAL DIAGRAM

PANEL B

400 AMP SERVICE PANEL																			
VOLTAGE 208/120V 3 PHASE : 4 WIRE																			
DEVICE			BRANCH CIRCUIT						BRANCH CIRCUIT			DEVICE							
SIZE	AMPS TRIP	POLES	DESCRIPTION			ØKT	PH A	PH B	PH C	PH A	PH B	PH C	ØKT	DESCRIPTION			POLES	AMPS TRIP	SIZE
12	20	1	RECEPT.			1				11			2	RECEPT.		1	20	12	
12	20	1	RECEPT.			3	11			11			4	RECEPT.		1	20	12	
14	20	1	RECEPT.			5		11				11	6	RECEPT. BATH GFI		1	20	12	
12	20	1	RECEPT.			7	11					11	8	RECEPT.		1	40	10	
12	40	1	RANGE/OVEN			9		22				20	10	RANGE/OVEN		1	40	14	
10	40	2	HVAC			11		20				22	12			1	30	10	
10	30	1				11				22		14				1	30	12	
14	20	1	DW			15		11			22	16		DW		1	20	14	
14	20	1	LIGHTING			17			7	7		18		BATH FAN LIGHTING		1	20	14	
14	20	1	LIGHTING			19	7					7	20	LIGHTING		1	20	14	
14	20	1	LIGHTING BATH			21		7			32	22				2	40	10	
						23						32	24			2	40	10	
10	40	2	HVAC			25				32	22		24			1	30	12	
						27						28		WATER HTR.		1	30	12	
						29						7	30			1	20	14	
14	20	1	SIGN			31	7				7	32		EXIT		1	20	14	
						33		16			21	34						0	
						35		16			21	36						0	

TOTAL	<u>101 78 55 62 94 111</u>
-------	----------------------------

LOAD CALCS.					LIGHTING LOAD CALCS.				
LOAD	CONN (KVA)	DEMAND FACTOR	DEMAND LOAD		AREA TYPE	MIN WATTS	SQ FT	REQUIRED	PROVIDED
LIGHTING	5	125% ****	6.25		BATH	3.5	64	224	240
RECEPT.	8.4	1ST 10 KV -- 100% REM --50%	8.4		SANCTUARY	1.5	1400	2100	3000
HVAC	50	100%	50						
SIGN	1.2	125% ****	1.5						
TOTAL	64.6		TOTAL	70.29					

 $\frac{3}{16}'' = 1'0''$

200 AMP M.L.O. PANEL
120 / 208V 3Ø

ELECTRICAL

$$\frac{3}{16}'' = 1'0''$$

200 AMP M.L.O. PANEL
120/208V 3Ø

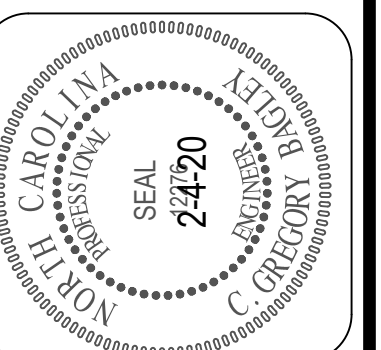
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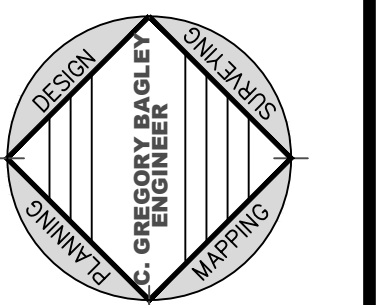
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ELECTRICAL

PLAN

***HARMONY
BAPTIST CHURCH
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Sheet Number

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