

2018 APPENDIX B: BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

GENERAL INFORMATION

Name of Project: LIFE POINT CHURCH PHASE 1 FITUP
 Address: 3390 JOHN ADAMS RD, WILLOW SPRINGS, NORTH CAROLINA Zip Code: _____
 Owner / Authorized Agent: JIM SHERRER Phone #: 919-848-4474
 Email: jims@designdevelopment.com

Owned By: City/County Private State
 Code Enforcement Jurisdiction: City: _____ County: WAKE State

LEAD DESIGN PROFESSIONAL:

DESIGNER	FIRM	NAME	LICENSE #	TEL #
Architectural	DESIGN DEVELOPMENT	JIM SHERRER	4577	919-848-4474
Civil	N/A	N/A	N/A	N/A
Structural	N/A	N/A	N/A	N/A
Plumbing	BEN BURKE ENGINEER	BEN BURKE	22038	919-771-1916
Mechanical	BEN BURKE ENGINEER	BEN BURKE	22038	919-771-1916
Electrical	BEN BURKE ENGINEER	BEN BURKE	22038	919-771-1916
Fire Alarm	N/A	N/A	N/A	N/A
Fire Sprinkler	N/A	N/A	N/A	N/A
Retaining Walls-5' High	N/A	N/A	N/A	N/A
Other	N/A	N/A	N/A	N/A

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

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

CONSTRUCTED: (date) 2007 **CURRENT OCCUPANCY(S)** (Ch.3): _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY(S)** (Ch.3): _____

OCCUPANCY CATEGORY (Table 1604.5): **CURRENT:** _____ **Proposed:** _____

BASIC BUILDING DATA:
Construction types: (Chapter 6)
 Type I-A Type I-B (Non-combustible)
 Type II-A Type II-B (Non-combustible)
 Type III-A Type III-B (Non-combustible exterior walls)
 Type IV (Heavy Timber)
 Type V-A Type V-B (Any material permitted by this code)

Sprinklers: No Partial Yes NFPA 13 13R 13D
Standpipes: No Yes Class I II III Wet Dry
Primary Fire District: No Yes
Flood Hazard Area: No Yes
Special Inspections Required: No Yes

Floor	Existing	New	Fit-Up	Sub-Total
3rd Floor				
2nd Floor				
Mezzanine				
1st Floor	6,000			6,000
Basement				
Total	6,000			6,000

ALLOWABLE AREA:
Primary Occupancy:
 Assembly A-1 A-2 A-3 A-4 A-5 Hazardous H-1 Detonate H-2 Deflagrate
 Business B H-3 Combust H-4 Health H-5 HPM
 Educational E Residential R-1 R-2 R-3 R-4
 Factory F-1 Moderate F-2 Low Storage S-1 Moderate S-2 Low High-piled
 Mercantile M Open Enclosed Repair Garage
 Institutional I-1 I-2 I-3 I-4 Parking Garage
 I-3 Condition 1 2 3 4 5 Utility + Misc.

Accessory Occupancies Classification(s):
 Assembly A-1 A-2 A-3 A-4 A-5 Hazardous H-1 Detonate H-2 Deflagrate
 Business B H-3 Combust H-4 Health H-5 HPM
 Educational E Residential R-1 R-2 R-3 R-4
 Factory F-1 Moderate F-2 Low Storage S-1 Moderate S-2 Low High-piled
 Mercantile M Open Enclosed Repair Garage
 Institutional I-1 I-2 I-3 I-4 Utility + Misc.
 I-3 Condition 1 2 3 4 5

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

Special Uses: 402 403 404 405 406 407 408 409 410 411 412
 413 414 415 416 417 418 419 420 421 422 423
 424 425 426 427 428 429 430

Special provisions: 510.2 510.3 510.4 510.5 510.6 510.7 510.8 510.9

Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____
 Incidental Use Separation (Section 509)
 This separation is not exempt as a Non-Separated Use (see exceptions).
 Non-Separated Mixed Occupancy (Section 508.3/303)
 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 Mixed Occupancy (Section 508.4/303) 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.

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

Story	Description and Use	(A) Bldg. Area Per Story (Actual Area)	(B) Table 506.2.4 Area	(C) Area for Footage Increase ^{1,5}	(D) ALLOWABLE AREA PER STORY UNLIMITED ^{2,3}
3rd Floor					
2nd Floor					
1st Floor					
Mezzanine					
Basement					

1. Frontage area increases from Section 504.4 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
 b. (F) Total Building Perimeter = _____ (P)
 c. (F/P) Ratio = _____ (F/P)
 d. (W)-Minimum width of public way = _____ (W)
 2. Unlimited Area applies under conditions of Section 507.
 3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (Section 506.2.4)
 4. The maximum area of open parking garages must comply with Section 406.5.4.
 5. The maximum area of air traffic control towers must comply with Table 412.4.6.
 6. Footage increase is based on the un-sprinklered area value in Table 506.2

ALLOWABLE HEIGHT (Chapter 5)

Building Height in Feet (Table 504.3)	Building Height in Stories (Table 504.4)	Code Reference

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

FIRE PROTECTION REQUIREMENTS: (Chapter 6)
 Life Safety Plan Sheet #: If Provided _____

PLANS APPROVED BY WAKE COUNTY N.C. P.D.I.
 SARAH KELLY MECHANICAL REVIEW
 BUILDING INSPECTOR / PLANS EXAMINER
 02/15/2023

PLANS APPROVED BY WAKE COUNTY N.C. P.D.I.
 HANG SONADA BUILDING REVIEW
 BUILDING INSPECTOR / PLANS EXAMINER
 05/23/2023

PLANS APPROVED BY WAKE COUNTY N.C. P.D.I.
 SARAH KELLY ELECTRICAL REVIEW
 BUILDING INSPECTOR / PLANS EXAMINER
 04/17/2023

PLANS APPROVED BY WAKE COUNTY N.C. P.D.I.
 SARAH KELLY PLUMBING REVIEW
 BUILDING INSPECTOR / PLANS EXAMINER
 04/17/2023

PERCENT OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS: (Chapter 9 and 10)

Emergency Lighting: No Yes (As per 1008.1)
 Exit Signs: No Yes (As per 1013)
 Fire Alarm: No Yes (As per 907)
 Smoke Detection Systems: No Yes Partial _____ (As per 907)
 Panic Hardware: No Yes (As per 1010.1.10)

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 (1006)
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS (Section 1107)

Total Units	Accessible Units Required	Accessible Units Provided	Type B Units Required	Type B Units Provided	Total Accessible Units Provided

ACCESSIBLE PARKING REQUIREMENTS (SECTION 1106)

Lot or Parking Area	Total # of Parking Spaces Required	Accessible Spaces Provided	Van Spaces with 132" Access Aisle	8' Access Aisle	Total # Accessible Provided

PLUMBING FIXTURE REQUIREMENTS

Occupancy	Water Closets	Urinals	Showers	Drinking Fountains
EXISTING				
NEW				
REQUIRED				

SPECIAL APPROVALS
 Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DFS, ICC, etc.) Describe below _____

ENERGY REQUIREMENTS:
 THE FOLLOWING DATA SHALL BE CONSISTENT WITH THE ENERGY CODE AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED. THE DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION IN ACCORDANCE WITH THE ENERGY CODE BUDGET METHOD. STATE THE ANNUAL ENERGY COST BUDGET AND ALL OBTAINABLE ANNUAL ENERGY COST BUDGET.
Existing building envelope complies with code:
Climate Zone: _____ 3 4 5
Method of Compliance: Performance (ASHRAE 90.1) Prescriptive (Energy Code)
 Performance (Energy Code) Prescriptive (ASHRAE 90.1)

THERMAL ENVELOPE (Prescriptive method only)
Roof/Ceiling Assembly (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 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: _____
 Horizontal/Vertical requirement: _____
 slab heated: _____

Floors slab on grade (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Horizontal/Vertical requirement: _____
 slab heated: _____

STRUCTURAL DESIGN
DESIGN LOADS: Importance Factors: Wind (hw) _____
 Snow (ls) _____
 Seismic (le) _____
 Live Loads: Roof _____ psf
 Mezzanine _____ psf
 Floor _____ psf
 Grooved Snow Load: _____ psf
 Wind Load: Basic Wind Speed _____ mph (ASCE-7-05)
 Exposure Category _____

SEISMIC DESIGN CATEGORY
 Provide the following Seismic Design Category: _____
 Occupancy Category (Type I, II, III, IV) _____
 Spectral Response Acceleration Coefficient _____
 Site Classification _____
 Basic structural analysis (check one): Allowable Stress Design and Plastic Analysis Presumptive Historical Data
 Bearing Wall Dual Inboard Special Moment Frame
 Building Frame Dual Inboard Intermediate R/C or Special Steel
 Moment Frame Inverted Penetration

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

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

SPECIAL INSPECTIONS REQUIRED: Yes No

LIFEPPOINT CHURCH PHASE 1 FITUP

3390 JOHN ADAMS RD,
 WILLOW SPRINGS, NORTH CAROLINA

DRAWING LIST

T1 BUILDING CODE SUMMARY SHEET

A0.1 REFERENCE
 A0.2 GUIDELINES OR ACCESSIBILITY REQUIREMENTS
 A1.1 FLOOR AND CEILING PLANS
 A1.2 WALL SECTIONS AND DETAILS

M1.0 HVAC SPECIFICATIONS
 M2.0 EXISTING HVAC PLAN
 M3.0 REVISED HVAC PLAN

E1.0 ELECTRICAL SPECIFICATIONS
 E2.0 EXISTING LIGHTING PLAN
 E3.0 REVISED LIGHTING PLAN
 E4.0 EXISTING POWER PLAN
 E5.0 REVISED POWER PLAN
 E6.0 PANELS AND RISER

P1.0 PLUMBING SPECIFICATIONS
 P2.0 FLOOR PLAN
 P3.0 REVISED WASTE PLAN / RISER
 P4.0 EXISTING SUPPLY PLAN / RISER
 P5.0 REVISED SUPPLY PLAN / RISER

PROJECT DIRECTORY

ARCHITECT
 DESIGN DEVELOPMENT
 JIM SHERRER, AIA
 800 SALEM WOODS DRIVE
 SUITE 102
 RALEIGH, NC 27615
 PHONE (919) 848-4474
 FAX (919) 848-9972

MEP ENGINEER
 BURKE DESIGN GROUP, PA
 CONSULTING ENGINEERS
 BENJAMIN E. BURKE, PE
 3305-109 DURHAM DRIVE
 RALEIGH, NC 27603
 (919)771-1916

VICINITY MAP

ELECTRICAL SYSTEM AND EQUIPMENT
 THIS SECTION REQUIRED FOR ALL PROJECTS THAT INCLUDE ELECTRICAL DESIGN
Method of Compliance:
 Energy Code: PRESCRIPTIVE (ASHRAE 90.1) PERFORMANCE (ASHRAE 90.1)
 Lighting fixture type: _____ (Each fixture type)
 Additional Prescriptive Compliance _____

MECHANICAL SYSTEM, SERVICE SYSTEMS AND EQUIPMENT
 THIS SECTION REQUIRED FOR ALL PROJECTS THAT INCLUDE MECHANICAL DESIGN
Thermal zone
 Interior design conditions
 Building heating load _____
 Building cooling load _____
 Mechanical Spacing Conditioning System
 List equipment efficiencies: _____

THERMAL ENVELOPE
METHOD OF COMPLIANCE - COMCHECK

DESIGNER STATEMENT:
 TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE THERMAL ENVELOPE REQUIREMENTS OF THE COMCHECK ADDITION STATED ABOVE.

SIGNED: _____
 NAME: _____
 TITLE: _____

T1

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designdevelopment
 ARCHITECTS
 800 Salem Woods Drive, Suite 102
 Raleigh, NC 27615
 919.848.4474
 ...drawing out your vision

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2/7/2023

PROJECT #: 210025
 DATE: 2/7/2023

BUILDING CODE SUMMARY

T1

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SYMBOLS

ARCHITECTURAL COMPONENT TAGS

- ROOM TAG
- DOOR TAG
- WINDOW TAG
- WALL TAG
- RAILING TAG
- CEILING TAG
- REVISION TAG
- SPECIAL EQUIPMENT TAG
- PLUMBING TAG
- KEYNOTE TAG
- JOINT
- CONTROL JOINT
- REVEAL

DRAWING SYMBOLS

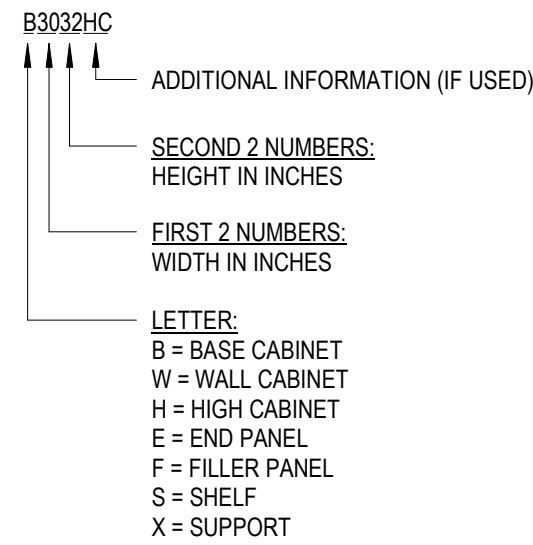
- INTERIOR ELEVATION**
 - INDICATES DRAWING NUMBER
 - INDICATES SHEET NUMBER
- EXTERIOR ELEVATION**
 - INDICATES DRAWING NUMBER
 - INDICATES SHEET NUMBER
- COLUMN GRID**
 - 1
- EXISTING COLUMN GRID**
 - 1
- WALL SECTION**
 - INDICATES SAME OR SIMILAR CONDITION
 - INDICATES DRAWING NUMBER
 - INDICATES SHEET NUMBER
- BUILDING SECTION**
 - INDICATES SAME OR SIMILAR CONDITION
 - INDICATES DRAWING NUMBER
 - INDICATES SHEET NUMBER
- ENLARGED PLAN/DETAIL CALLOUT**
 - AREA CONTAINED IN DETAIL
 - INDICATES SAME OR SIMILAR CONDITION
 - INDICATES DRAWING NUMBER
 - INDICATES SHEET NUMBER
- LEVEL MARKERS**
 - LEVEL MARKERS

MATERIAL & FINISH TAGS

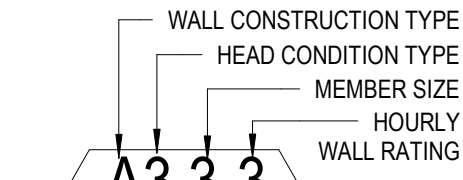
- CPT-1 CARPET
- LVT-1 LUXURY VINYL TILE
- VCT-1 VINYL COMPOSITION TILE
- PT-1 PORCELAIN TILE
- RB-1 RUBBER BASE
- VB-1 VINYL BASE
- WB-1 WOOD BASE
- WT-1 WOOD TRIM
- WP-1 WALL PANEL
- CT-1 COUNTERTOP
- PAINT

NOTE: FOR MATERIALS & FINISHES THE NUMBER AFTER THE MATERIAL ("XXX-1") WOULD BE A COLOR/FINISH SELECTION

CASEWORK TAGS



WALL TAGS



READING LEFT TO RIGHT:

- THE FIRST CHARACTER IN THE TAG INDICATES WHICH DETAIL TO REFERENCE FOR THE WALL CONSTRUCTION
- THE SECOND CHARACTER INDICATES THE HEAD CONDITION "1" (FULL HEIGHT TO UNDERSIDE OF STRUCTURE), "2" (TO THE DIMENSION ABOVE THE CEILING AS INDICATED IN THE DETAIL), OR "3" (TO THE DIMENSION ABOVE FINISH FLOOR INDICATED IN THE PLANS)
- THE THIRD CHARACTER INDICATES THE STUD SIZE. REFERENCE THE DETAIL FOR THE STUD SIZE.
- THE FOURTH CHARACTER INDICATES THE HOURLY WALL RATING. SEE UL SHEET FOR UL DETAIL.

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	MEZZ	MEZZANINE
AHU	AIR HANDLING UNIT	MIN	MINIMUM
AL	ALUMINUM	MO	MASONRY OPENING
ALT.	ALTERNATE	MTD.	MOUNTED
BF	BARRIER FREE	N/A	NOT APPLICABLE
BRG	BEARING	NC	NOISE CRITERIA
CJ	CONTROL JOINT	NC	NOT IN CONTRACT
CLG	CEILING	NO	NUMBER
CMU	CONCRETE MASONRY UNIT	NRC	NOISE REDUCTION
CO	CLEANOUT	COEFFICIENT	
CONC.	CONCRETE	NTS	NOT TO SCALE
CONST.	CONSTRUCTION	OC	ON CENTER
CONT.	CONTINUOUS	OD	OUTSIDE DIAMETER
DIA	DIAMETER	OH	OVER HEAD
DN	DOWN	OPP.	OPPOSITE
DS.	DOWNSPOUT	ORD	OVERFLOW ROOF DRAIN
EF	EXHAUST FAN	PERP.	PERPENDICULAR
EL	ELEVATION	PL	PLATE
EJ	EXPANSION JOINT	PSF	POUNDS PER SQUARE FOOT
EQ	EQUAL	PSI	POUNDS PER SQUARE INCH
EWG	ELECTRIC WATER COOLER	PVC	POLYVINYL CHLORIDE
FD	FLOOR DRAIN	R	RADIUS
FE	FIRE EXTINGUISHER	REQD.	REQUIRED
FEC	FIRE EXTINGUISHER & CABINET	RD	ROOF DRAIN
FRT	FIRE RETARDANT TREATED	RO	ROUGH OPENING
FT.	FOOT/FEET	SCH.	SCHEDULE
GA	GAUGE	SF	SQUARE FEET
GALV.	GALVANIZED	SIM.	SIMILAR
GC	GENERAL CONTRACTOR	SP.	SPACE/SPACING
HB	HOSE BIBB	SQ.	SQUARE
HP	HIGH POINT	SS.	STAINLESS STEEL
HORIZ	HORIZONTAL	STD.	STANDARD
HVAC	HEATING VENTILATING AIR CONDITIONING	TAN.	TANGENT
ID	INSIDE DIAMETER	TOW	TOP OF WALL
IE	INVERT ELEVATION	TYP.	TYPICAL
IN	INCH/INCHES	UL	UNDERWRITERS LABORATORY
INSUL	INSULATION	UNO	UNLESS NOTED OTHERWISE
LAV.	LAVATORY	VERT.	VERTICAL
LED	LIGHT EMITTING DIODE	VTR	VENT THROUGH ROOF
LLH	LONG LEG HORIZONTAL	W	WITH
LLV	LONG LEG VERTICAL	WC	WATER CLOSET
LP	LOW POINT	WH	WATER HEATER
MFR	MANUFACTURER	W/O	WITHOUT
MAX.	MAXIMUM	WP.	WATERPROOF
		WT.	WEIGHT

SUBMITTALS

WHEN THE PROJECT DOCUMENTS CALL FOR SUBMITTALS, THE FOLLOWING SHALL APPLY:

- SUBMITTAL SCHEDULE**
CONTRACTOR TO PROVIDE ARCHITECT WITH SUBMITTAL SCHEDULE PRIOR TO FIRST PAY APPLICATION. THIS IS A REQUIREMENT FOR THE PROJECT AND IS DUE BEFORE THE FIRST APPLICATION FOR PAYMENT. THE ARCHITECT RESERVES THE RIGHT TO WITHHOLD PROJECT PAYMENT UNTIL A COMPLETE SUBMITTAL SCHEDULE IS FURNISHED. SCHEDULE SHALL OUTLINE ALL SUBMITTALS REQUIRED ON THE PROJECT ALONG WITH THE DATE EACH SUBMITTAL IS TO BE MADE BY THE CONTRACTOR.
- QUANTITY AND PROCEDURE**
SHOP DRAWINGS, PRODUCT DATA AND LITERATURE, AND OTHER SUCH PAPER-BASED SUBMITTALS: SUBMIT BY EMAIL ONE (1) PDF COPY TO ARCHITECT.
PHYSICAL SAMPLES: SUBMIT TO ARCHITECT'S OFFICE.
- CONTRACTOR REVIEW**
REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. NOTE CORRECTIONS AND FIELD DIMENSIONS. MARK WITH APPROVAL STAMP BEFORE SUBMITTING TO ARCHITECT. STAMP SHALL INCLUDE NAME OF REVIEWER, DATE OF CONTRACTOR'S APPROVAL, AND STATEMENT CERTIFYING THAT SUBMITTAL HAS BEEN REVIEWED, CHECKED, AND APPROVED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- ARCHITECT / ENGINEER REVIEW**
SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THESE SUBMITTALS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE ARCHITECTURAL DESIGN OF THIS PROJECT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE ARCHITECT.
- TIMEFRAME**
ALLOW ENOUGH TIME FOR SUBMITTAL REVIEW, INCLUDING TIME FOR RESUBMITTALS. TIME FOR REVIEW SHALL COMMENCE ON THE ARCHITECT'S RECEIPT OF SUBMITTAL. ALLOW 15 DAYS FOR INITIAL REVIEW OF EACH SUBMITTAL AND 15 DAYS FOR REVIEW OF EACH RESUBMITTAL.
- DEVIATIONS**
HIGHLIGHT, ENCIRCLE, OR OTHERWISE SPECIFICALLY IDENTIFY DEVIATIONS FROM THE CONTRACT DOCUMENTS ON SUBMITTALS.
- DESIGN CHANGES**
SHOULD CHANGES MADE BY ARCHITECT IN THE SHOP DRAWING REVIEW PROCESS OR RESPONSES TO REQUESTS FOR INFORMATION (RFIS) RESULT IN A CHANGE IN THE CONTRACT TIME OR PRICE, DO NOT PROCEED UNTIL A CHANGE ORDER IS SUBMITTED AND APPROVED.
- OUT OF STOCK / OUT OF PRODUCTION**
NOTIFY ARCHITECT IMMEDIATELY OF ANY OUT OF STOCK OR OUT OF PRODUCTION MATERIALS FOR AN ALTERNATE SPECIFICATION.
- SUBSTITUTIONS**
REQUEST FOR SUBSTITUTION OF MATERIALS OR COMPONENTS SHALL BE SUBMITTED IN WRITING TO ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.

REQUEST FOR INFORMATION (RFI)

- SUBMIT REQUESTS FOR INFORMATION BY EMAIL TO THE ARCHITECT.
- EACH REQUEST SHALL BE INDIVIDUALLY NUMBERED.
- ONLY ONE QUESTION PER RFI IS ALLOWED.
- SUBMIT RFI ON ELECTRONIC FORM PROVIDED BY ARCHITECT.
- FORM MUST BE FULLY COMPLETED TO BE ACCEPTED BY ARCHITECT.

GENERAL PROJECT NOTES & REQUIREMENTS

- BUILDING CODES**
ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH CURRENT APPLICABLE BUILDING CODE WITH LOCAL AMENDMENTS AND WITH ALL OTHER CODES, ORDINANCES AND REQUIREMENTS. IF THERE IS A CONFLICT THE MORE STRINGENT SHALL BE USED.
- ADDITIONAL STANDARDS**
ALL WORK RELATING TO THIS CONSTRUCTION SHALL COMPLY WITH U.S. DEPARTMENT OF LABOR, THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS AND ALL RELATED APPLICABLE LOCAL BUILDING CODES AND ORDINANCES.
- THE PROJECT DOCUMENTS**
 - DO NOT SCALE DRAWINGS IN THE DOCUMENTS.
 - DRAWINGS ARE IN PART DIAGRAMMATIC AND DO NOT NECESSARILY SHOW COMPLETE DETAILS OF CONSTRUCTION WORK OR MATERIALS, PERFORMANCE OR INSTALLATION. DRAWINGS DO NOT NECESSARILY SHOW HOW CONSTRUCTION DETAILS, OTHER ITEMS OR WORK OR EQUIPMENT MAY AFFECT A PARTICULAR INSTALLATION. CONTRACTOR IS TO PROVIDE ALL MATERIALS AND CONSTRUCTION AS IS REASONABLY INFERRED AND CUSTOMARY FOR THE WORK AND FINISHED PRODUCT SHOWN ON THE DRAWINGS.
 - DIMENSIONS:
 - INTERIOR DIMENSIONS ARE FROM FACE OF GYP BOARD TO FACE OF GYP BOARD UNLESS NOTED OTHERWISE.
 - DOOR & WINDOW DIMENSIONS ARE ROUGH OPENING / NOMINAL DIMENSIONS UNLESS NOTED OTHERWISE.
 - ALL DIMENSIONS ARE TO BE FIELD VERIFIED AND BACK CHECKED FOR CORRECTNESS. IF ANY DEVIATIONS OR DISCREPANCIES OCCUR, CONTACT THE ARCHITECT FOR VERIFICATION PRIOR TO PROCEEDING WITH THE WORK.
 - THE PROJECT DOCUMENTS, INCLUDING PHYSICAL AND DIGITAL DOCUMENTS, ARE THE PROPERTY OF DESIGN DEVELOPMENT ARCHITECTS FOR USE SOLELY FOR THIS PROJECT AND SHALL NOT BE REPRODUCED, COPIED, OR USED FOR OTHER PURPOSES WITHOUT WRITTEN PERMISSION OF DESIGN DEVELOPMENT ARCHITECTS.
 - THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DOCUMENTS IS THE ARCHITECT OF RECORD FOR THIS PROJECT. NO OTHER PARTY MAY REVISE, ALTER, OR DELETE THESE CONSTRUCTION DOCUMENTS. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS THE ARCHITECT OF RECORD AND DESIGN DEVELOPMENT ARCHITECTS SHALL BE CONSIDERED THE SAME ENTITY.
 - THE CONTRACTOR SHALL NOT ASSUME THAT DIGITAL FILES IN ANY OTHER FORMAT THAN PDF WILL BE MADE AVAILABLE DURING BIDDING OR AFTER AWARD. IF OTHER DIGITAL FILES OR FILE FORMATS ARE REQUESTED, DESIGN DEVELOPMENT ARCHITECTS RESERVES THE RIGHT TO SELECTIVELY PROVIDE THEM, AND IF PROVIDED, RESERVES THE RIGHT TO REQUIRE ADDITIONAL CONSIDERATION FOR THE TIME INCURRED TO PREPARE THEM FOR RELEASE.
 - RECORD DRAWINGS**
THE CONTRACTOR SHALL PREPARE AND MAINTAIN A COMPLETE SET OF RECORD CONSTRUCTION DRAWINGS INDICATING ALL ACTUAL WORK, MODIFICATIONS AND REVISIONS TO THE WORK DELINEATED ON THE CONSTRUCTION DOCUMENTS AS WELL AS ANY CONCEALED CONSTRUCTION WORK. INCLUDE ANY INFORMATION THAT WOULD BE HELPFUL TO THE OWNER.
 - PERSPECTIVE RENDERINGS AND PRESENTATION RENDERINGS**
ALL PERSPECTIVE RENDERINGS AND PRESENTATION RENDERINGS ARE FOR REFERENCE ONLY AND NOT TO BE CONSTRUCTED FROM - THIS INCLUDES PERSPECTIVE RENDERINGS OR VIEWS THAT ARE INCLUDED IN THE CONSTRUCTION DRAWING SET.
 - CONTRACTOR DESIGNED**
CONSTRUCTION METHODS AND MATERIALS NOT EXPLICITLY INDICATED OR IMPLIED ARE INTENDED TO BE CONTRACTOR DESIGNED. THE ARCHITECT SHALL BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND/OR CONDITIONS SHOWN ON THESE DOCUMENTS. ANY SUCH VARIATION SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK OR THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR THE COST TO RECTIFY THE WORK. UNLESS SPECIFICALLY CONTRACTED OTHERWISE, CONTRACTOR DESIGNED WORK IS INCLUDED IN THE BASE BID AND SCHEDULE FOR THE PROJECT.
 - CONTRACTOR REVIEW AND COORDINATION**
 - THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL CAREFULLY REVIEW THE DRAWINGS, SPECIFICATIONS, DETAILS AND NOTES FOR INFORMATION REGARDING THE SCOPE OF THE WORK INTENDED PRIOR TO PROCEEDING WITH THE WORK.
 - THE GENERAL CONTRACTOR SHALL COORDINATE ALL BUILDING MANAGEMENT SYSTEMS, SECURITY SYSTEMS, AND LOCKING HARDWARE WITH THE OWNER PRIOR TO INSULATION. (SECURITY SYSTEMS EQUIPMENT FURNISHED BY OWNER. ALL CONDUIT BOXES BY ELECTRICAL SUBCONTRACTOR).
 - THE CONTRACTOR REPRESENTS AND WARRANTS THAT IT HAS EXAMINED THE PLANS, DRAWINGS, SPECIFICATIONS AND ALL CONSTRUCTION CRITERIA OF OWNER AND HAS SATISFIED ITSELF THAT THE INFORMATION CONTAINED THEREIN IS SUFFICIENT TO FULLY AND COMPLETELY CONSTRUCT THE PROJECT.
 - THE CONTRACTOR SHALL REVIEW THE CIVIL DOCUMENTS, THE SOILS REPORT, AND THESE DOCUMENTS (ALL IN THEIR ENTIRETY) TO INSURE THAT ALL REQUIRED EARTHWORK, PAVING, CURB AND STRUCTURAL SLAB WORK IS FULLY COVERED IN THE SCOPE OF THE CONTRACTOR'S BID. CONTRACTOR SHALL FULLY COORDINATE ALL OF THE ABOVE REFERENCED WORK WITH THE OWNERS REPRESENTATIVE, THE ARCHITECT AND CIVIL ENGINEER TO INSURE THAT ALL WORK IS FULLY COORDINATED AND COMPLETED.
 - THE CONTRACTOR AND SUB CONTRACTORS SHALL CAREFULLY REVIEW ALL THE PROJECT DOCUMENTS, INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE PROJECT DOCUMENTS AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE SET OF PROJECT DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTING INFORMATION PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR WARRANTY**
UNLESS OTHERWISE INDICATED, CONTRACTOR IS TO PROVIDE WRITTEN WARRANTY FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. THE WARRANTY SHALL STATE ALL WORK HAS BEEN COMPLETED IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES AND ENFORCING AUTHORITIES AND THAT ALL WORK IS FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP. THIS IS IN ADDITION AND NOT A LIMITATION TO ANY PRODUCT MANUFACTURER'S PRODUCT WARRANTIES.
 - RATED PENETRATIONS**
ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS OR FIRE RATED CEILING ASSEMBLIES SHALL BE INSTALLED ACCORDING TO U.L. STANDARDS AND PER APPLICABLE CODES FOR REQUIRED HOUR FIRE RATED CONSTRUCTION.
 - PROJECT WORKMANSHIP**
WORKMANSHIP SHALL BE FIRST-CLASS AND PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.
 - MATERIAL INSTALLATION STANDARDS**
ALL MATERIAL SHALL BE INSTALLED ACCORDING TO INDUSTRY STANDARDS, RECOMMENDATIONS REFERENCED IN THE SPECIFICATIONS, OR MANUFACTURERS RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS THE MOST STRINGENT, IN ORDER TO PROVIDE A COMPLETE AND HIGH QUALITY PROJECT.
 - CUTTING AND PATCHING**
CONTRACTOR IS TO INCLUDE ALL CUTTING AND PATCHING FOR PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOF. DO NOT CUT OR NOTCH ANY STRUCTURAL MEMBER TO REDUCE ITS LOAD CARRYING CAPACITY.
 - UNFORESEEN CONDITIONS**
SHOULD UNFORESEEN CONDITIONS BE ENCOUNTERED THAT AFFECT DESIGN OR FUNCTION OF THE PROJECT, THE CONTRACTOR SHALL INVESTIGATE FULLY AND SUBMIT AN ACCURATE AND DETAILED REPORT TO THE ARCHITECT WITHOUT DELAY. WHILE AWAITING A RESPONSE, THE CONTRACTOR SHALL RESCHEDULE OPERATION AS REQUIRED TO AVOID DELAY OF THE OVERALL PROJECT.
 - DEFINED WORDS**
IN THE PROJECT DOCUMENTS, THE TERM "PROVIDE" SHALL MEAN "TO FURNISH AND INSTALL".
 - CHANGES TO THE DESIGN**
ONLY THE ARCHITECT HAS THE AUTHORITY TO CHANGE THE DESIGN.

MISCELLANEOUS PROJECT LABOR AND MATERIALS TO BE PROVIDED BY CONTRACTOR

- WOOD BLOCKING**
CONTRACTOR SHALL PROVIDE WOOD BLOCKING AS NECESSARY TO ADEQUATELY SUPPORT MOUNTED FINISHES, FIXTURES, BUILDING COMPONENTS, & EQUIPMENT - INCLUDING OWNER PROVIDED ITEMS. ADDITIONALLY, BLOCKING SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS, WHETHER SPECIFICALLY IDENTIFIED AS BLOCKING OR NOT.
- ACCESS PANELS**
ACCESS PANELS (2X2) SHALL BE PROVIDED IN ALL GYP BOARD PARTITIONS OR CEILING WHERE ELECTRICAL TRANSFORMERS, J-BOXES, PLUMBING VALVES, HVAC VAV BOXES, PTB BOXES, MOTORIZED DAMPERS, VOLUME DAMPERS, FIRE DAMPERS, SANITARY OR GREASE LINE TRAPS REQUIRING ACCESS LOCATED. NOTE THAT MANY OF THESE ITEMS ARE NOT INDICATED ON THESE DOCUMENTS, BUT ACCESS PANELS SHALL BE PROVIDED AS THOUGH THEY HAVE BEEN SHOWN THROUGHOUT (BURDEN TO DETERMINE QUANTITY IS ON THE CONTRACTOR). THE ARCHITECT SHALL COORDINATE THESE ACCESS PANELS WITH THE CONTRACTOR AT A LATER DATE SO AS TO MINIMIZE THE IMPACT ON THE AESTHETIC DESIGN OF THE PROJECT. THE CONTRACTOR SHALL LOCATE ALL ELEMENTS WHICH REQUIRE ACCESS ABOVE NON-PUBLIC AREA CEILING OR ABOVE LAY-IN ACOUSTICAL TILE CEILINGS, IF POSSIBLE. THE CONTRACTOR SHALL PROVIDE A MARKED-UP PLAN TO THE ARCHITECT AND OWNER SHOWING ALL AREAS REQUIRING ACCESS.
- FIRE EXTINGUISHERS**
PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY LOCAL CODE. PROVIDE SEMI-RECESSED CABINET TO MATCH SIZE OF EXTINGUISHER AND WALL CONSTRUCTION DIMENSIONS, WITH STAINLESS STEEL FINISH, FULL ACRYLIC GLASS DOOR, AND DOOR HANDLE. CONTRACTORS SHALL VERIFY ALL LOCATIONS, TYPES, AND QUANTITY OF FIRE EXTINGUISHERS WITH THE LOCAL CODE ENFORCEMENT OFFICIAL AND WITH THE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. IF FIRE EXTINGUISHERS ARE SPECIFICALLY INDICATED ON THE PLANS, PROPOSED CHANGES TO ANY OF THOSE SPECIFIC LOCATIONS MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
- NECESSARY PARTS, PIECES, LABOR, & COMPONENTS**
CONTRACTOR SHALL PROVIDE ALL NECESSARY PARTS, PIECES, LABOR, AND COMPONENTS THAT ARE SUGGESTED OR IMPLIED IN WHOLE OR IN PART IN THIS DRAWING SET, WHETHER SPECIFICALLY DETAILED OR NOT.
- KNOX BOX**
PROVIDE APPROVED KNOX BOX FOR PROJECTS THAT REQUIRE IT. FINAL LOCATION OF KNOX BOX MUST BE APPROVED BY BOTH THE ARCHITECT AND LOCAL CODE OFFICIAL.
- TERMITE TREATMENT**
 - PROVIDE SOIL TREATMENT FOR TERMITE CONTROL AT THE END OF EARTHWORK OPERATIONS. SUBMIT FOR APPROVAL PRODUCT DATA AND WARRANTY.
 - COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. USE EXPERIENCED INSTALLERS.
 - DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - PROVIDE WRITTEN WARRANTY AGREEING TO RETREAT SOIL AND REPAIR DAMAGE CAUSED BY TERMITE INFESTATION, CARPENTER ANTS, AND OTHER PESTS DURING A FIVE YEAR PERIOD FROM THE DATE OF SUBSTANTIAL COMPLETION.
 - USE SOIL TREATMENT MATERIALS WHICH BEAR A FEDERAL REGISTRATION NUMBER WITH US ENVIRONMENTAL PROTECTION AGENCY AND ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
 - TREAT SOIL IN STRICT COMPLIANCE WITH NATIONAL PEST CONTROL ASSOCIATION STANDARDS AND WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND RECOMMENDATIONS. DO NOT BEGIN TREATMENT WORK UNTIL ALL EXCAVATION, FILLING AND GRADING IS COMPLETED. DO NOT APPLY TREATMENT TO FROZEN OR EXCESSIVELY WET SOILS.
 - POST SIGNS AND OTHER WARNINGS INDICATING THAT SOIL POISONING HAS BEEN APPLIED. PROTECT PERSONS AND PROPERTY FROM INJURY AND DAMAGE FROM SOIL TREATMENT WORK.
- SUB-GRADE WATERPROOFING**
PROVIDE ROLLER APPLIED WATERPROOFING SYSTEM FOR ALL MASONRY AND CAST IN PLACE CONCRETE WALLS BELOW GRADE. SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO ORDERING.
- BUILDING THERMAL INSULATION**
WHETHER SPECIFICALLY DETAILED OR NOT, PROVIDE THERMAL INSULATION FOR THE PROJECT THAT MEETS THE MINIMUM STANDARDS AS REQUIRED BY THE JURISDICTION IN WHICH THE PROJECT IS LOCATED. INFORMATION CONTAINED IN THE PROJECT DOCUMENTS THAT SHOW A HIGHER LEVEL OF THERMAL INSULATION THAN THE MINIMUM REQUIRED SHALL BE INSTALLED AS INDICATED AND SHALL TAKE PRECEDENCE OVER THE MINIMUM STANDARD LANGUAGE WRITTEN ABOVE.
- CONCRETE FLOOR SLAB PREPARATION**
CONCRETE FLOOR SLABS SHALL BE INSTALLED AND FINISHED AS REQUIRED TO RECEIVE THE SCHEDULED FINISH MATERIAL. NO CURING COMPOUND SHOULD BE UTILIZED ON CONCRETE TO RECEIVE TILE. SPECIAL ATTENTION SHOULD BE PAID TO CONCRETE SLAB RECEIVING PORCELAIN OR CERAMIC, TILE AND THE RECOMMENDATIONS OF THE CERAMIC TILE INSTITUTE OF AMERICA SHALL BE STRICTLY ADHERED TO BY THE ARCHITECT. IN CONJUNCTION WITH THE FLOOR TILE SUBCONTRACTOR, SHALL ESTABLISH LOCATIONS OF CONCRETE FLOOR SLAB CONTROL JOINTS SO AS TO MINIMIZE CUTTING OF FLOOR TILE.
- JOINT SEALERS**
PROVIDE ALL JOINT SEALERS REQUIRED TO INSURE A WEATHERTIGHT BUILDING ENVELOPE. INSTALL PER MANUFACTURERS RECOMMENDATIONS AND PROVIDE ALL REQUIRED ACCESSORIES (INCLUDING BACKER ROD AND OTHER SUPPORTING ITEMS). SUBMIT MANUFACTURER'S DATA FOR APPROVAL. SUBMIT ALL EXPOSED SEALANT COLORS, FROM MANUFACTURER'S STANDARD RANGE, TO ARCHITECT FOR APPROVAL.

designdevelopment

A R C H I T E C T S

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Raleigh, NC 27615
919.846.4474

...drawing out your vision

2/7/2023

LIFEPOINT CHURCH PHASE 1 FITUP

3390 JOHN ADAMS RD
WILLOW SPRINGS
NORTH CAROLINA

THE DRAWINGS & DESIGN SHOWN ARE THE PROPERTY OF DESIGN DEVELOPMENT. THE REPRODUCTION OF THESE DRAWINGS WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT IS PROHIBITED AND ANY INFRINGEMENT OF THESE RIGHTS WILL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.

CBPR-096723-2023

No.	Description	Date

PROJECT #:

210025

DATE:

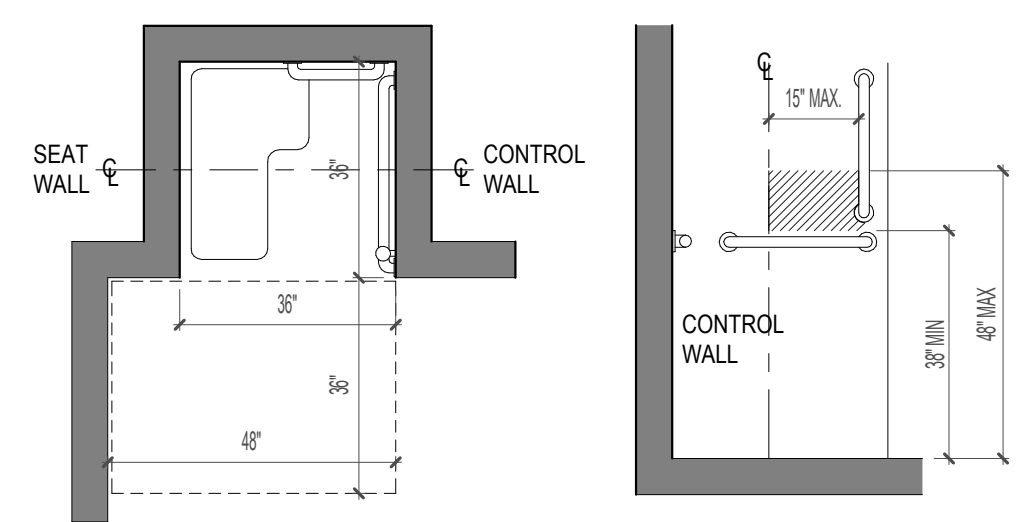
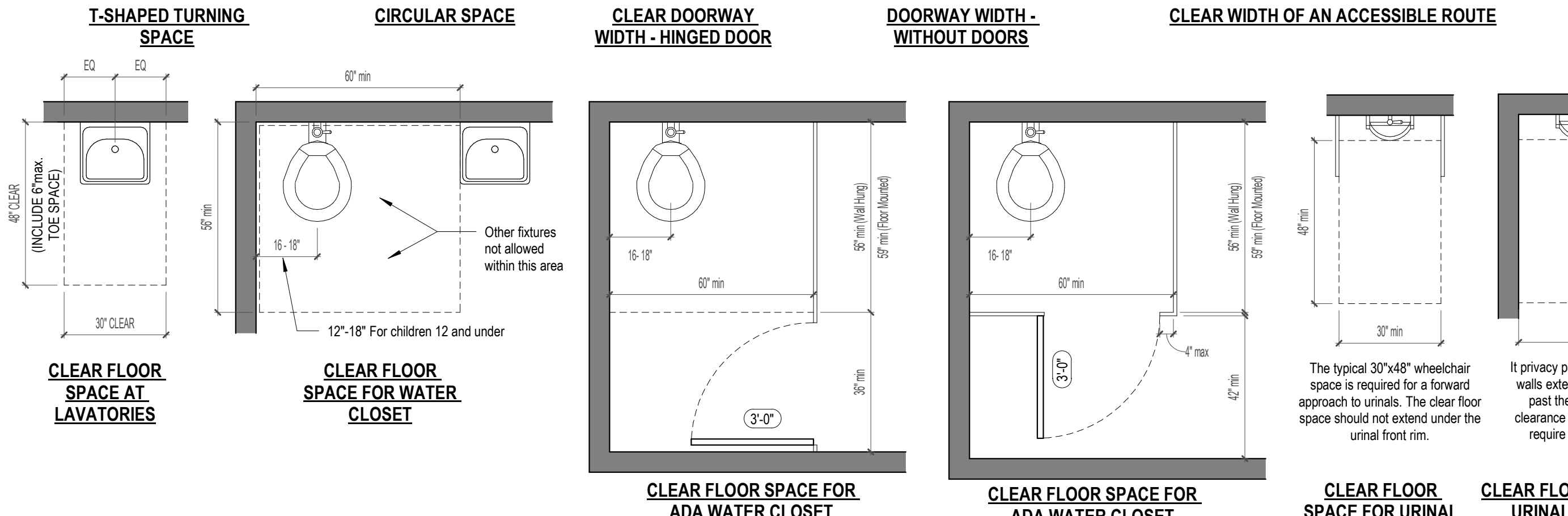
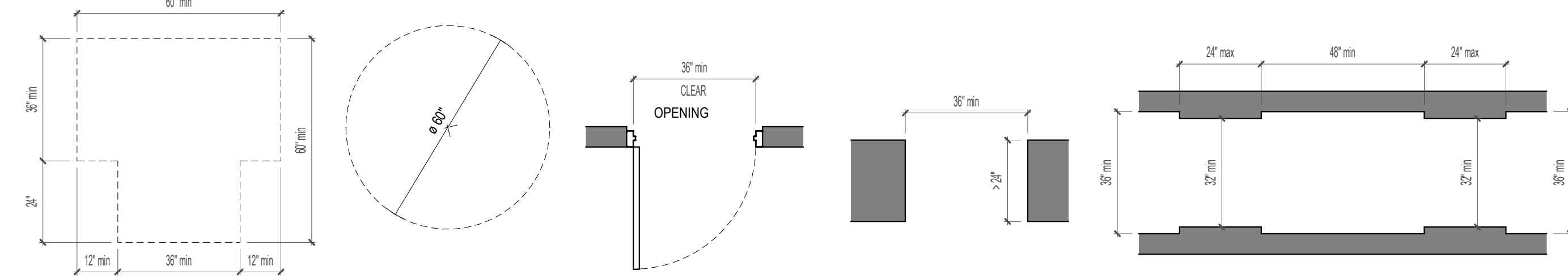
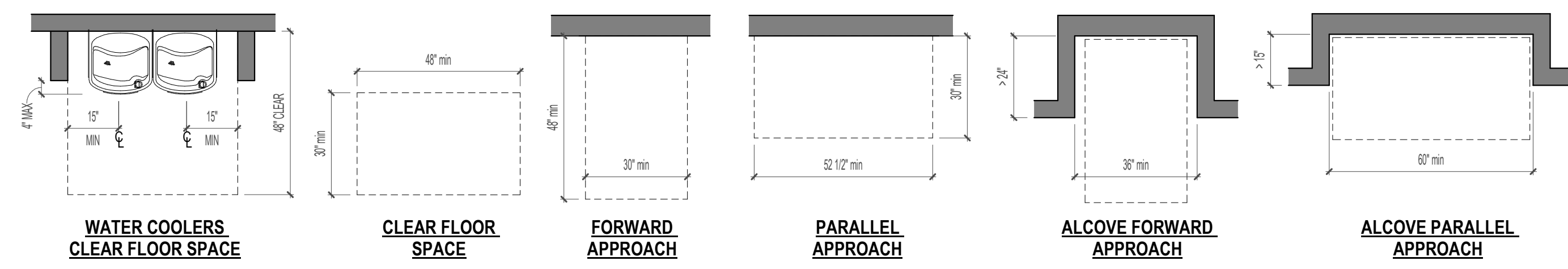
2/7/2023

REFERENCE

A0.1

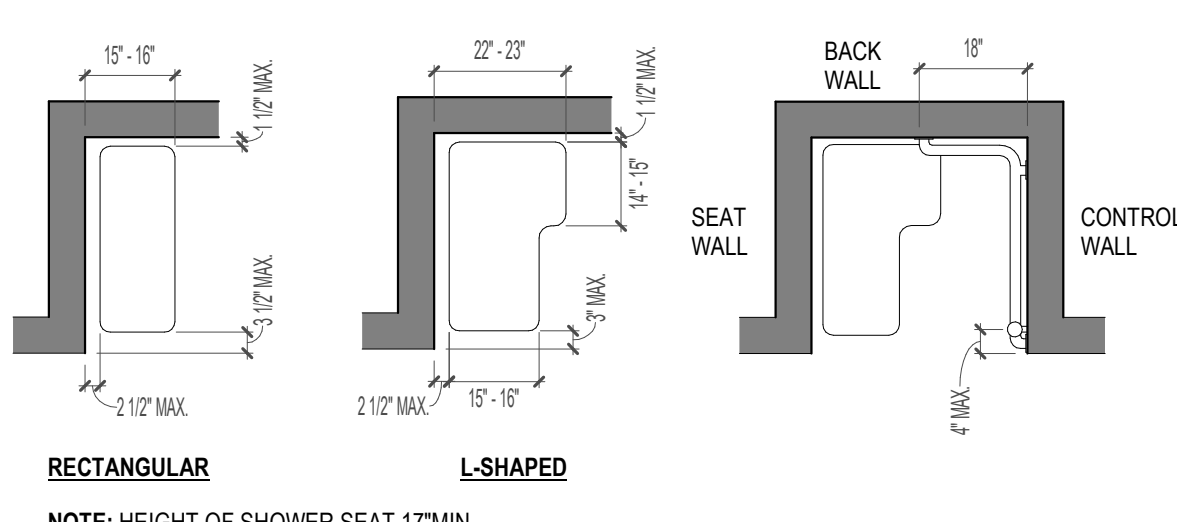
1" = 1/4" 1/2" 1" 2"

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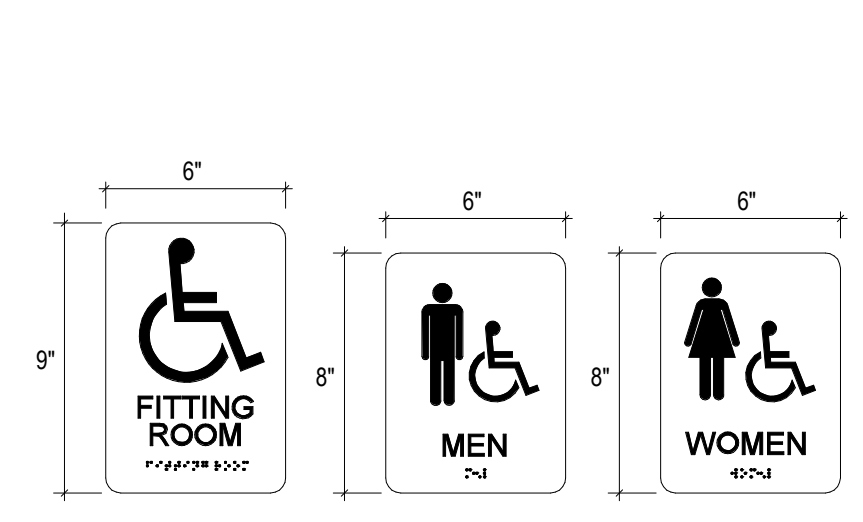


NOTE: INSIDE FINISHED DIMENSIONS MEASURED AT THE CENTER POINTS OF OPPOSING SIDES

Where the combined total water closet compartments and urinals provided in a toilet room is 6 or more, at least one ambulatory-accessible water closet compartment shall be provided in addition to wheelchair accessible compartment.

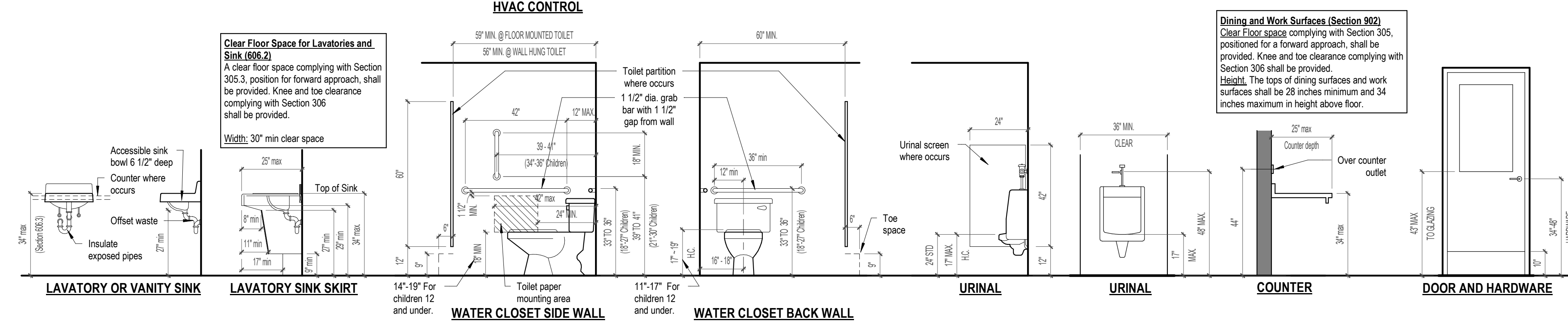
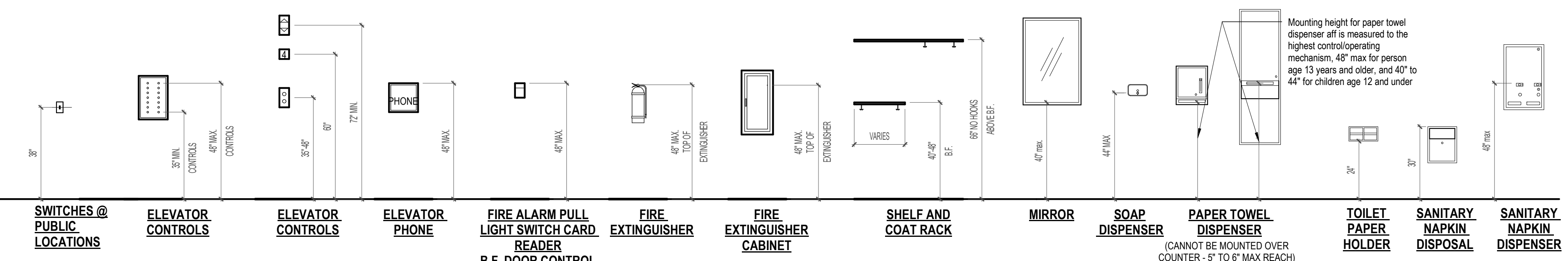


NOTE: HEIGHT OF SHOWER SEAT 17" MIN TO 19" MAX ABOVE BATHROOM FLOOR

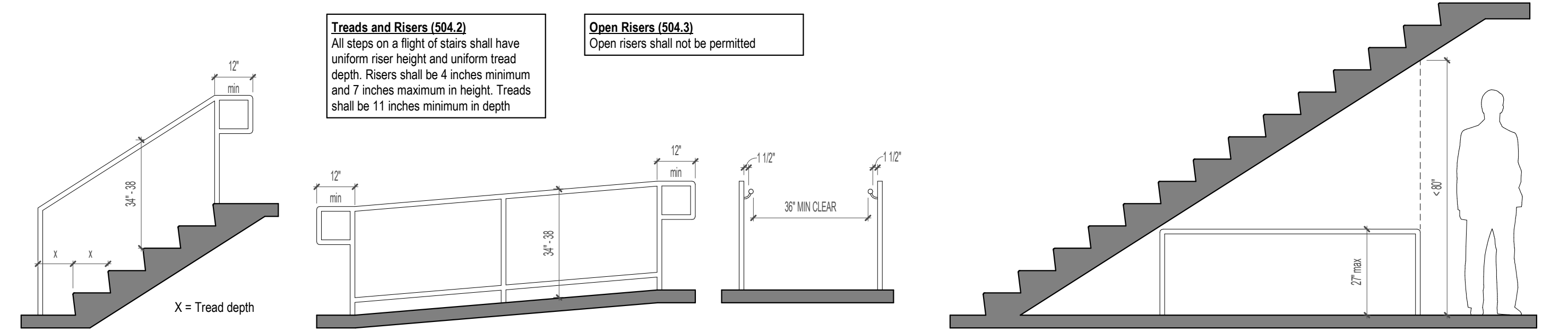


NOTE: SIGNS TO MEET ALL 2010 ADA AND ANSI A117-1 2009 REQUIREMENTS

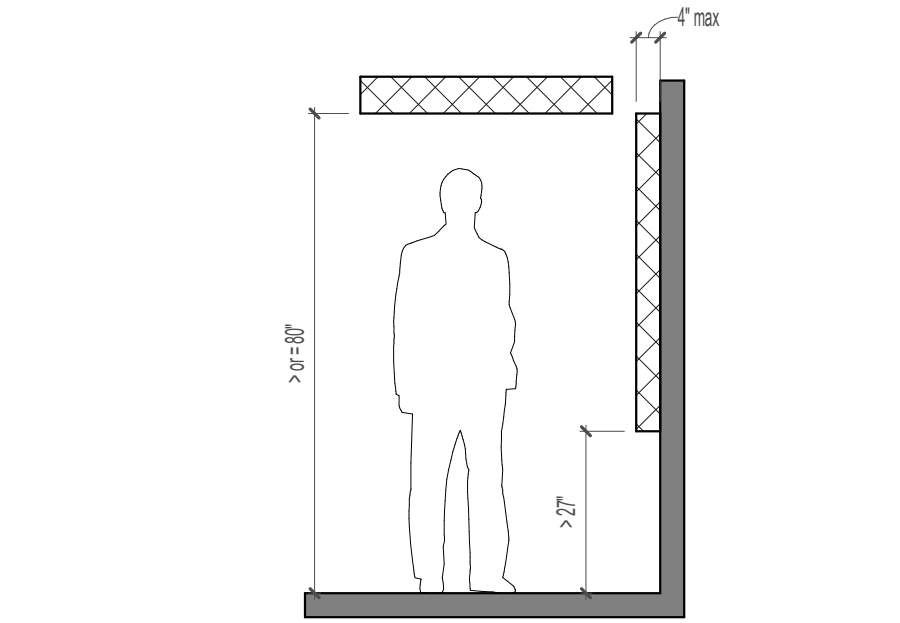
FLOOR CLEARANCE



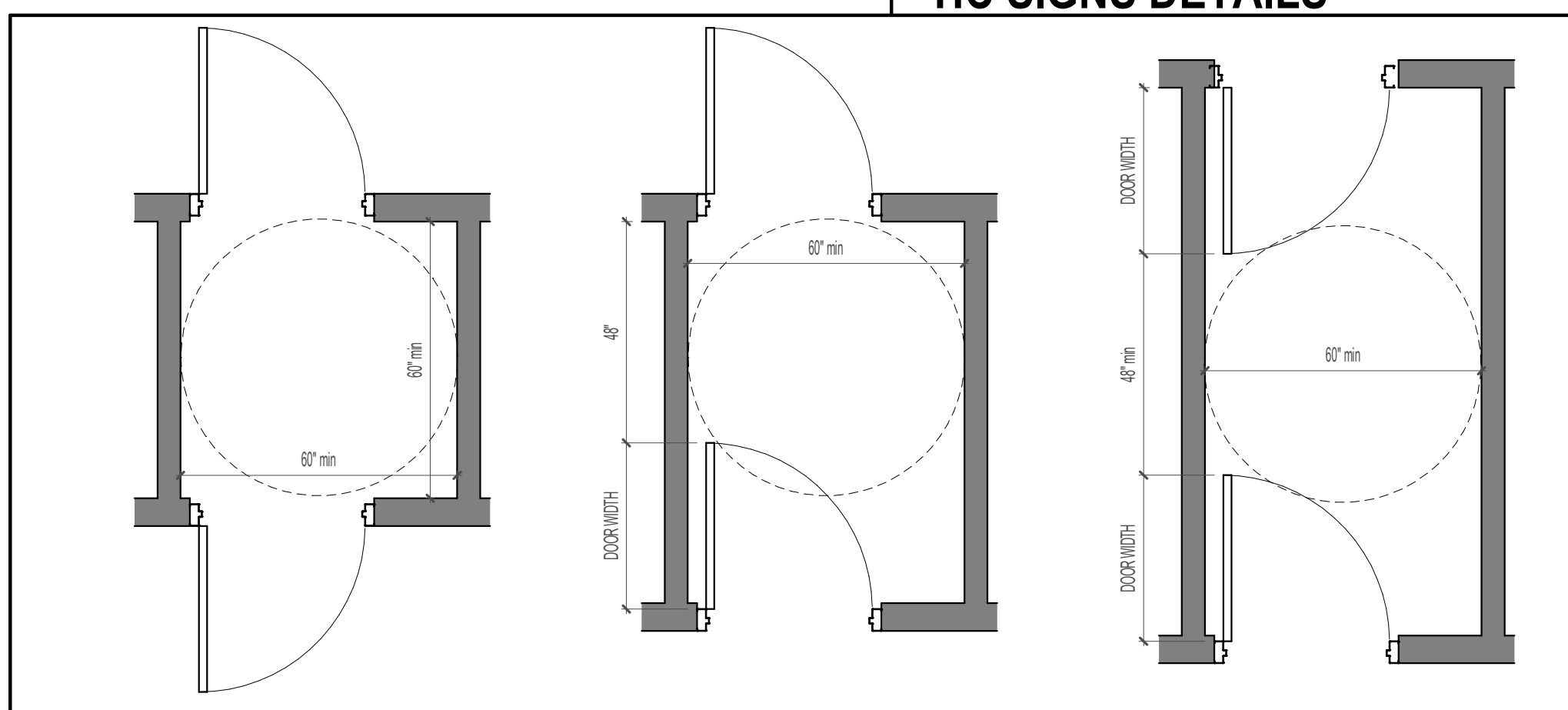
ACCESSIBLE HEIGHTS



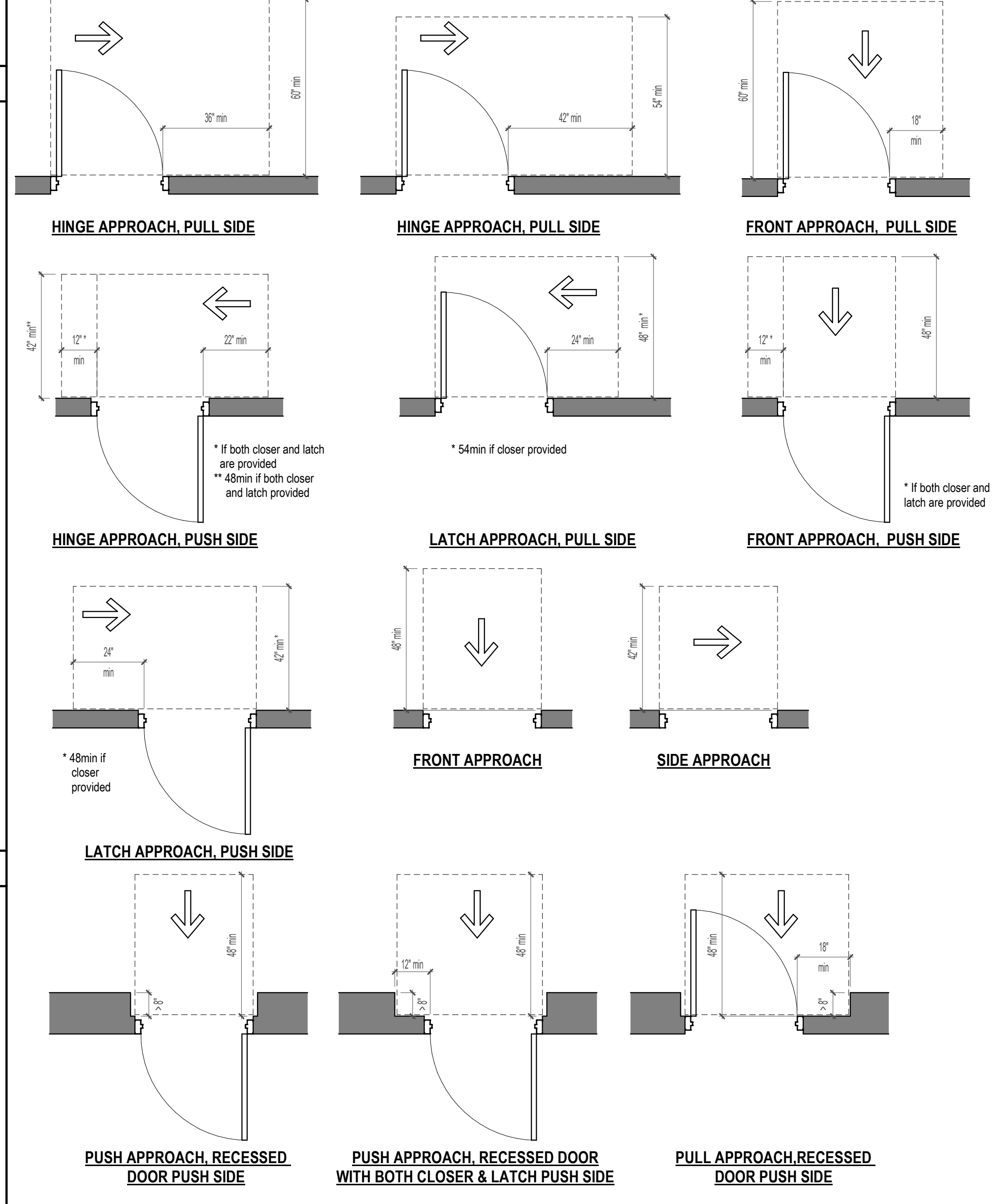
STAIRS & RAMPS



LIMITS OF PROTRUDING OBJECTS



DOOR CLEARANCE



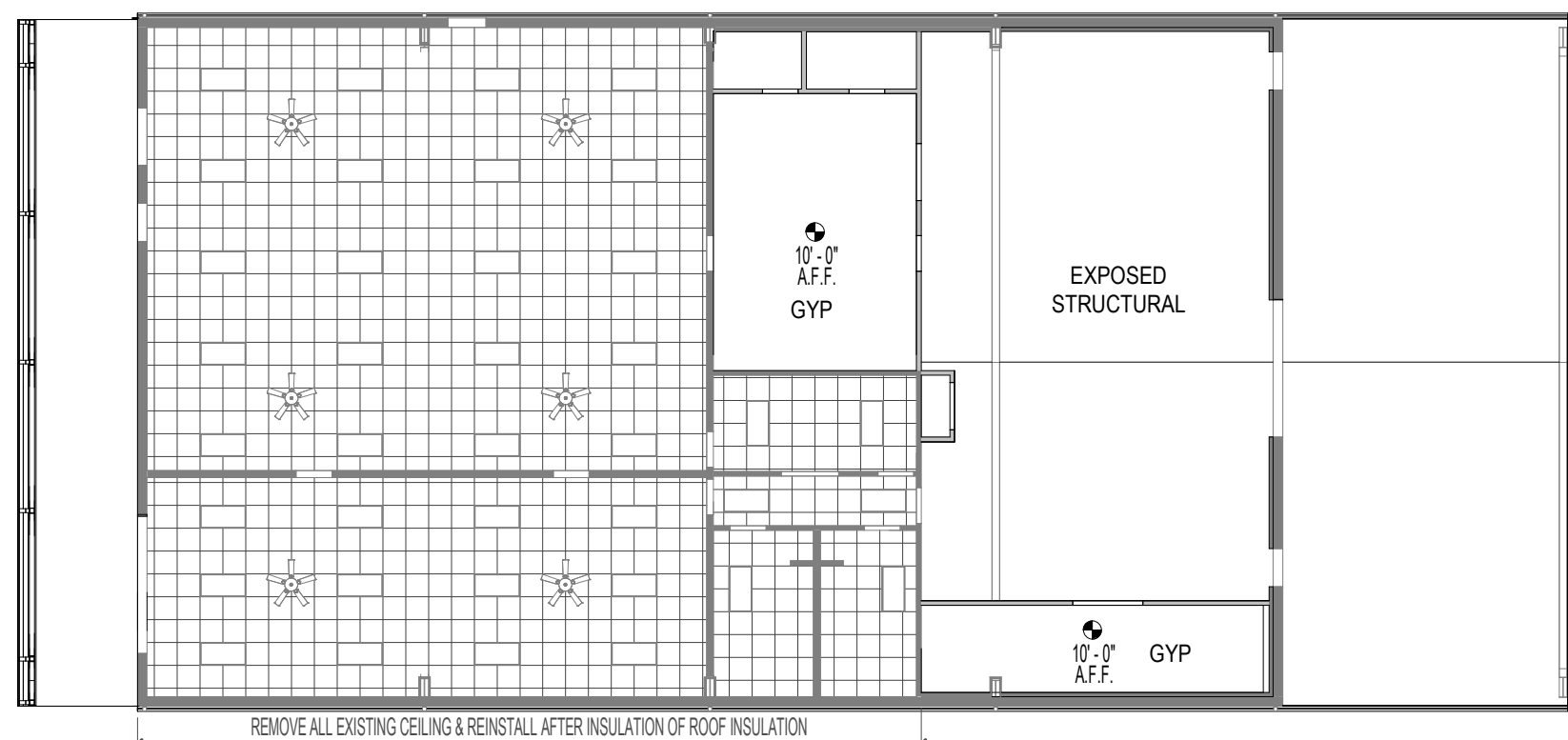
DOOR CLEARANCE

FOR REFERENCE ONLY

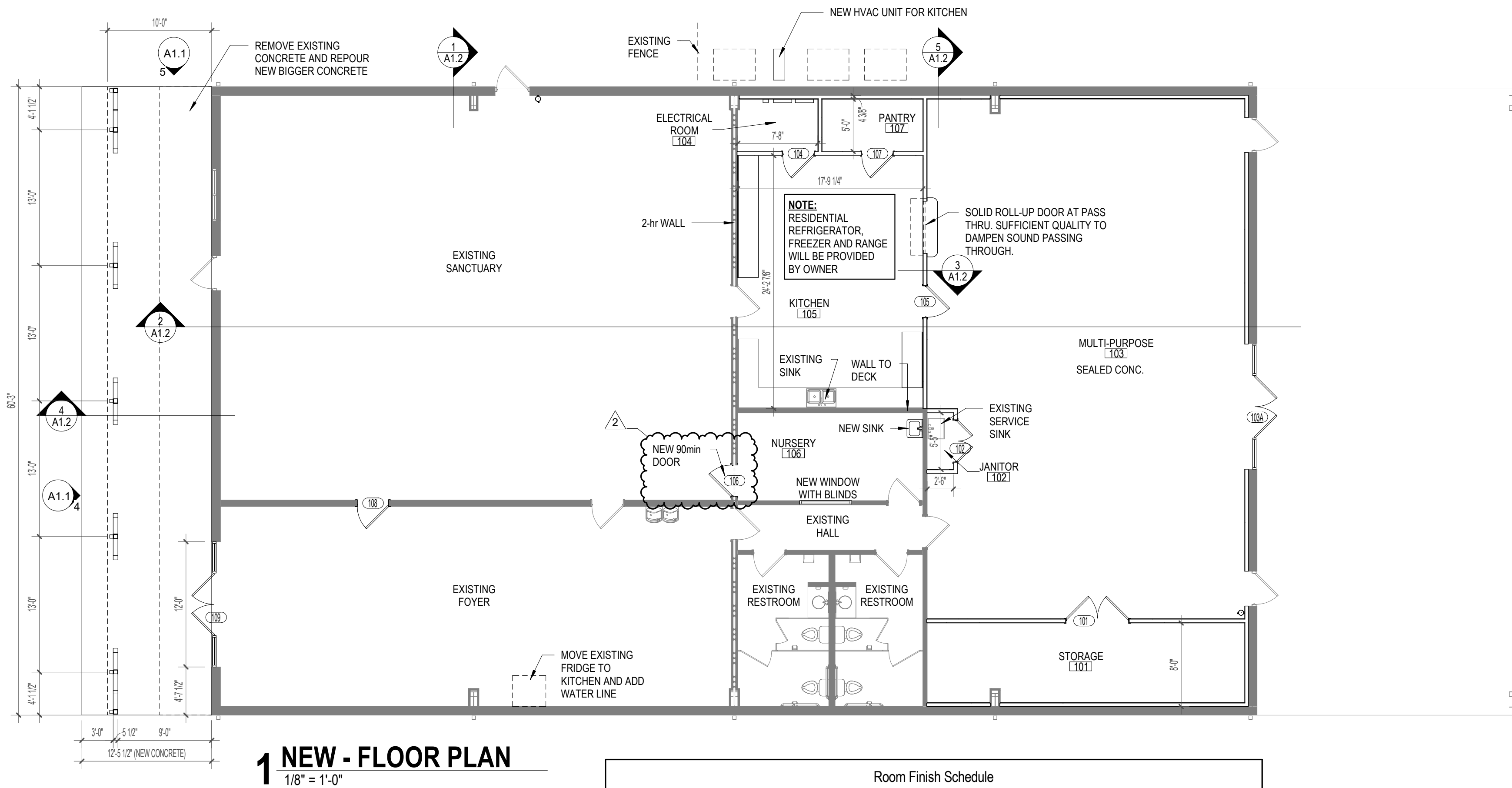
CBPR-096723-2023

LIFEPPOINT CHURCH PHASE 1 FITUP
 3390 JOHN ADAMS RD
 WILLOW SPRINGS
 NORTH CAROLINA

No.	Description	Date
PROJECT #:	210025	
DATE:	2/7/2023	
GUIDELINES OR ACCESSIBILITY REQUIREMENTS		
A0.2		
DIGITAL PRINT DATE: 2/7/2023 2:33:32 PM		

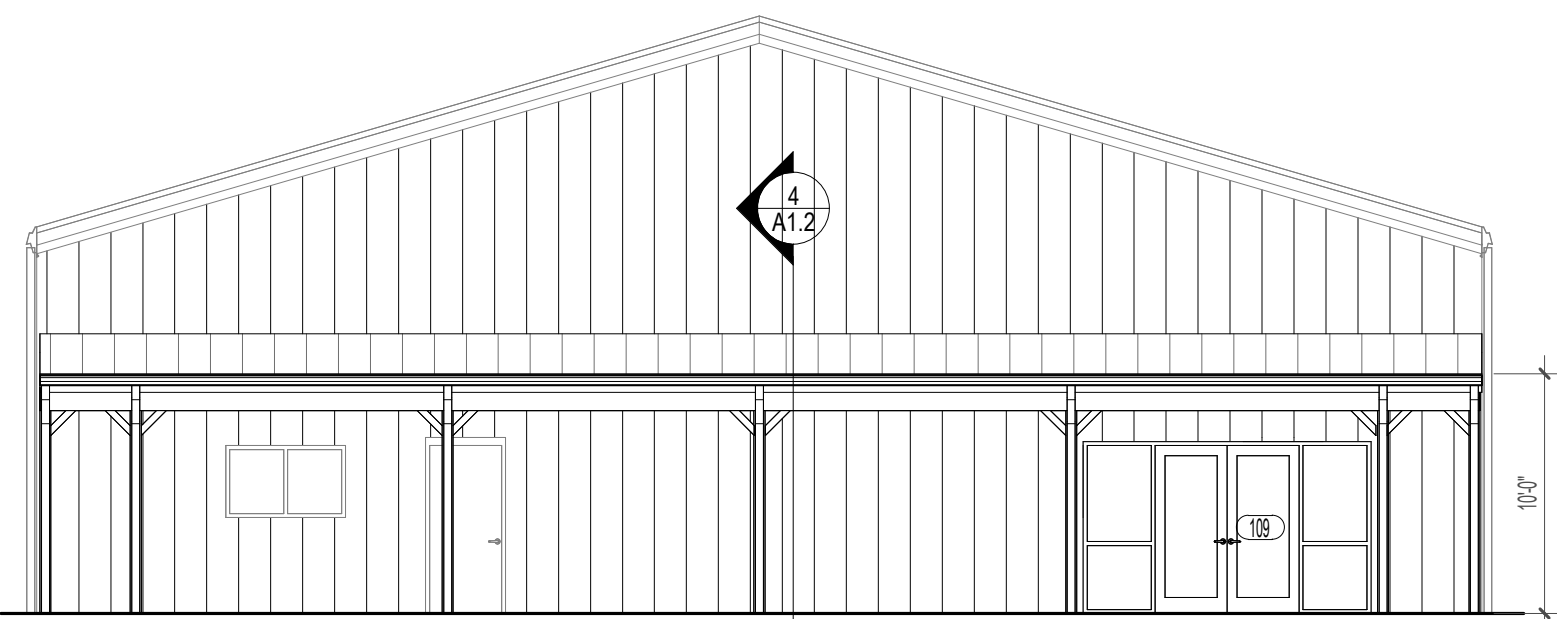


6 REFLECTED CEILING PLAN
1/16" = 1'-0"

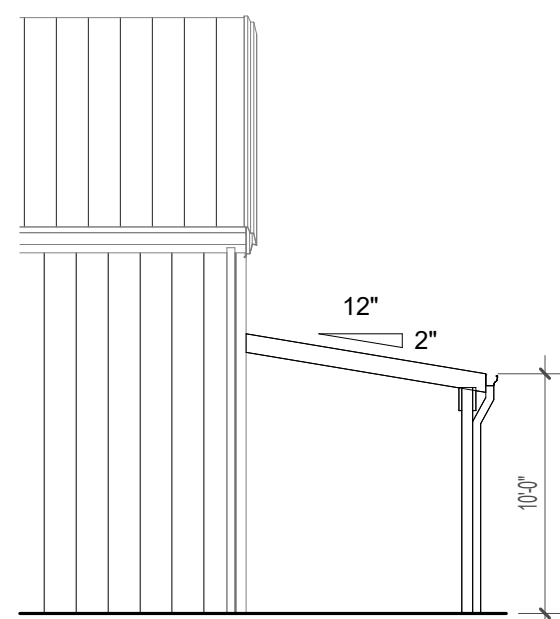


1 NEW - FLOOR PLAN
1/8" = 1'-0"

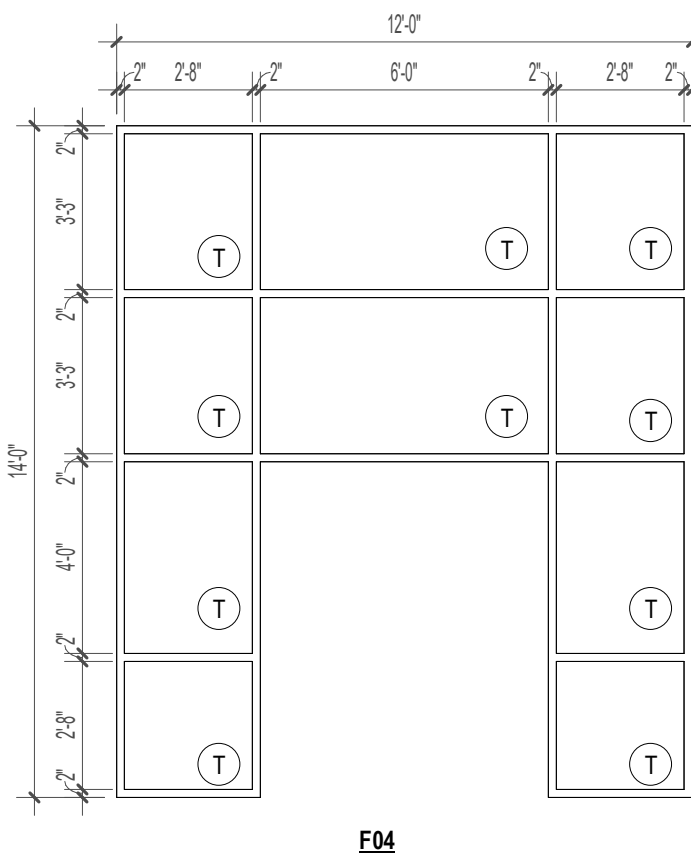
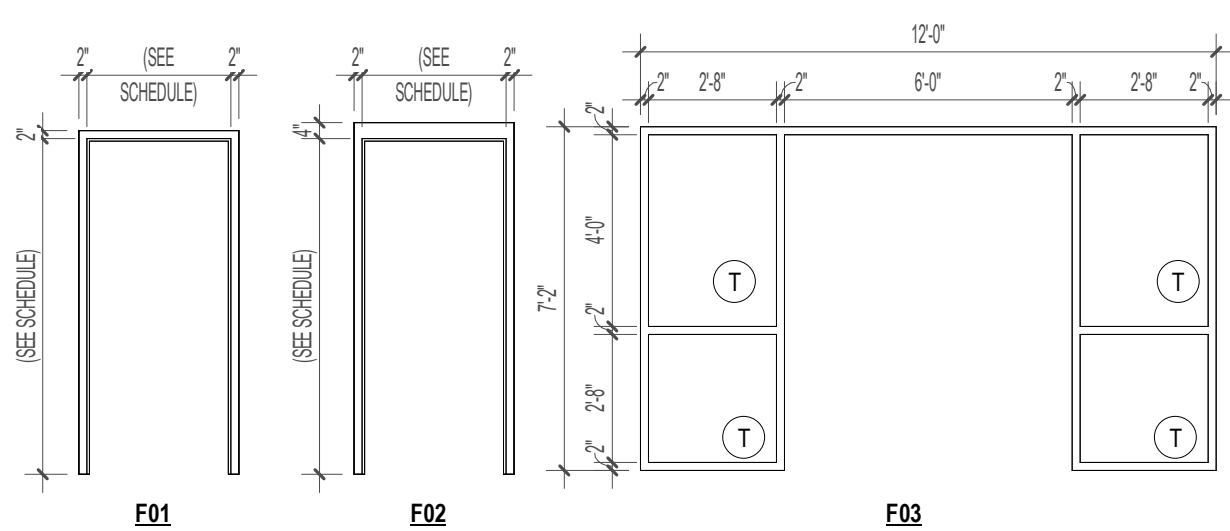
Room Finish Schedule						
No.	Name	Wall	Floor	Base	Ceiling	Remarks
101	STORAGE	PAINT'D GYP		RUBBER	ACT	IMPACT RESISTANT SHEET ROCK
102	JANITOR	PAINT'D GYP		RUBBER	ACT	
103	MULTI-PURPOSE	PAINT'D GYP		RUBBER	ACT	
104	ELECTRICAL ROOM	PAINT'D GYP		RUBBER	ACT	
105	KITCHEN	PAINT'D GYP		RUBBER	ACT	
106	NURSERY	PAINT'D GYP		RUBBER	ACT	
107	PANTRY	PAINT'D GYP		RUBBER	ACT	
108	EXISTING WORSHIP	PAINT'D GYP		RUBBER	2x2 LAY-IN	
109	EXISTING LOBBY					



4 FRONT ELEVATION
1/8" = 1'-0"

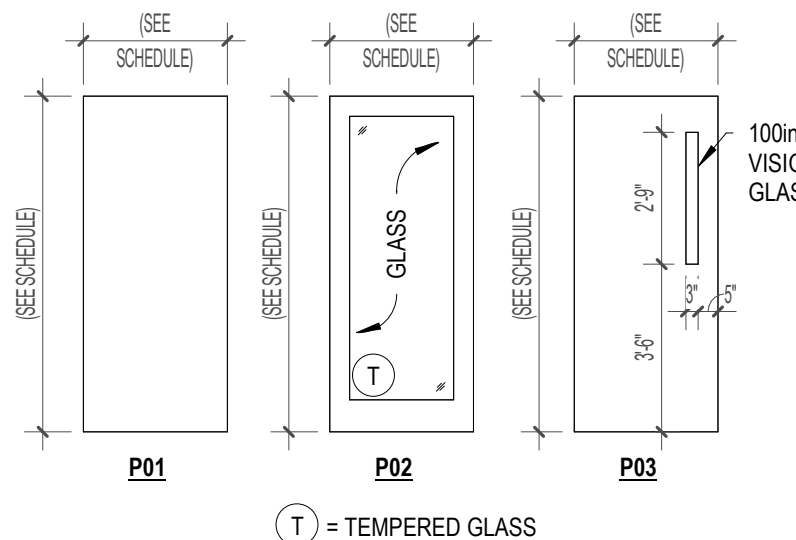


5 SIDE ELEVATION
1/8" = 1'-0"

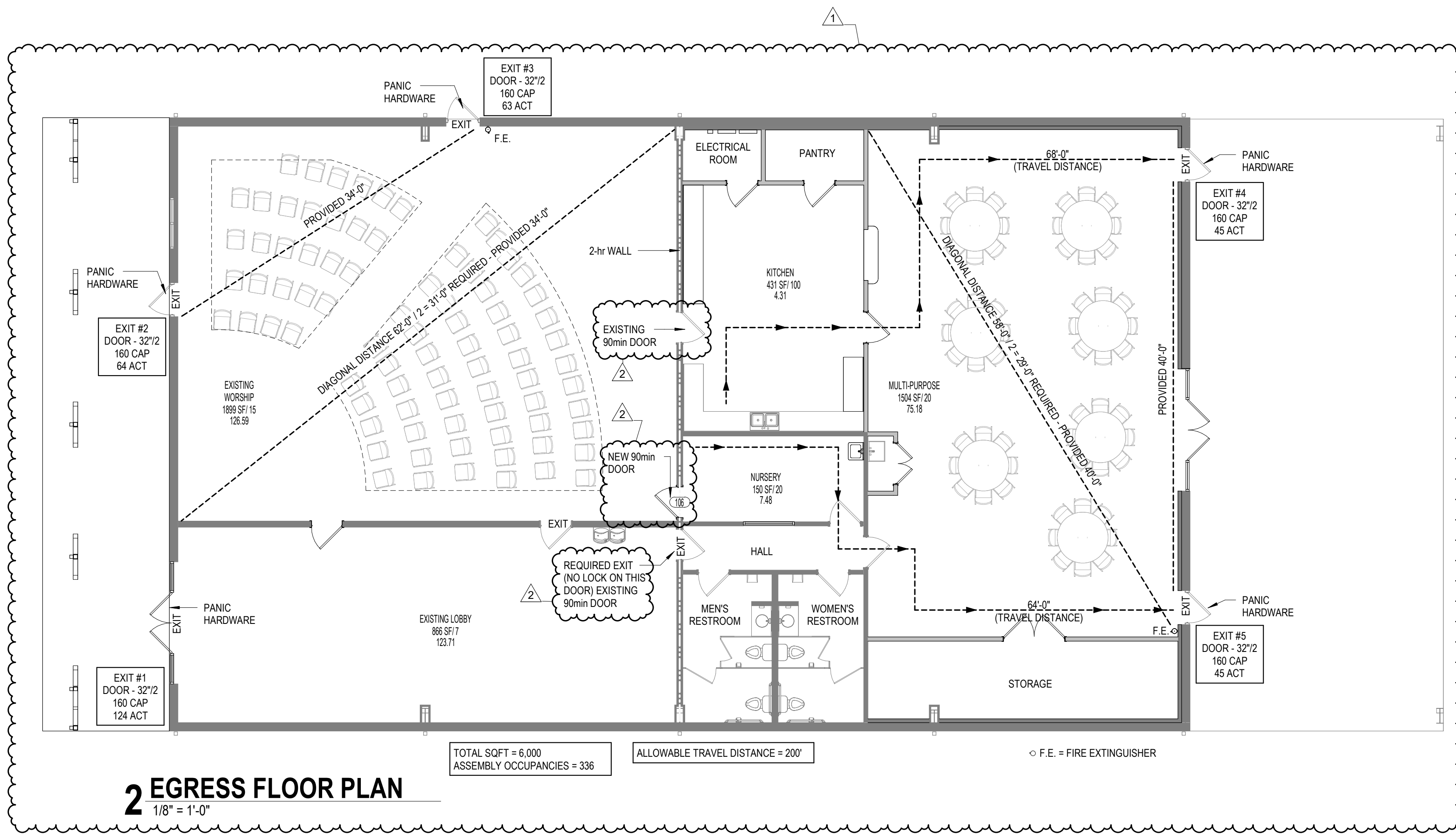


ELEVATIONS - FRAME
1/4" = 1'-0"

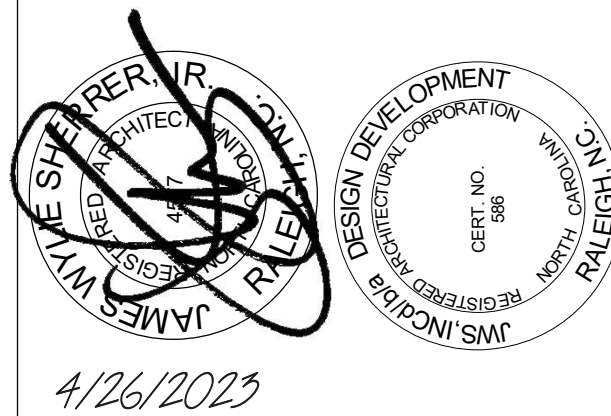
Door Schedule (All)													
No.	Qty.	DOOR			TYPE	MATL	FRAME			W. Strip	THRES	CLOSERS	NOTES
		W	H	T			TYPE	MATL					
101	2	6'-0"	7'-0"	13/4"	F01	WOOD	F01	H.M.					
102	2	4'-0"	7'-0"	13/4"	F01	WOOD	F04	H.M.					
103A	2	6'-0"	7'-0"	13/4"	P02	H.M.	F04	H.M.					FIELD VERIFY EXISTING OPENING
104	1	3'-0"	7'-0"	13/4"	P01	S.C.WD.	F01	H.M.					
105	1	3'-0"	7'-0"	13/4"	P01	S.C.WD.	F01	H.M.					
106	1	3'-0"	7'-0"	13/4"	P01	S.C.WD.	F01	H.M.					90min DOOR
107	1	3'-0"	7'-0"	13/4"	P01	S.C.WD.	F01	H.M.					
108	1	3'-0"	7'-0"	13/4"	P01	S.C.WD.	F01	H.M.					
109	2	6'-0"	7'-0"	13/4"	F02	H.M.	F03	H.M.					



ELEVATIONS - LEAF
1/4" = 1'-0"



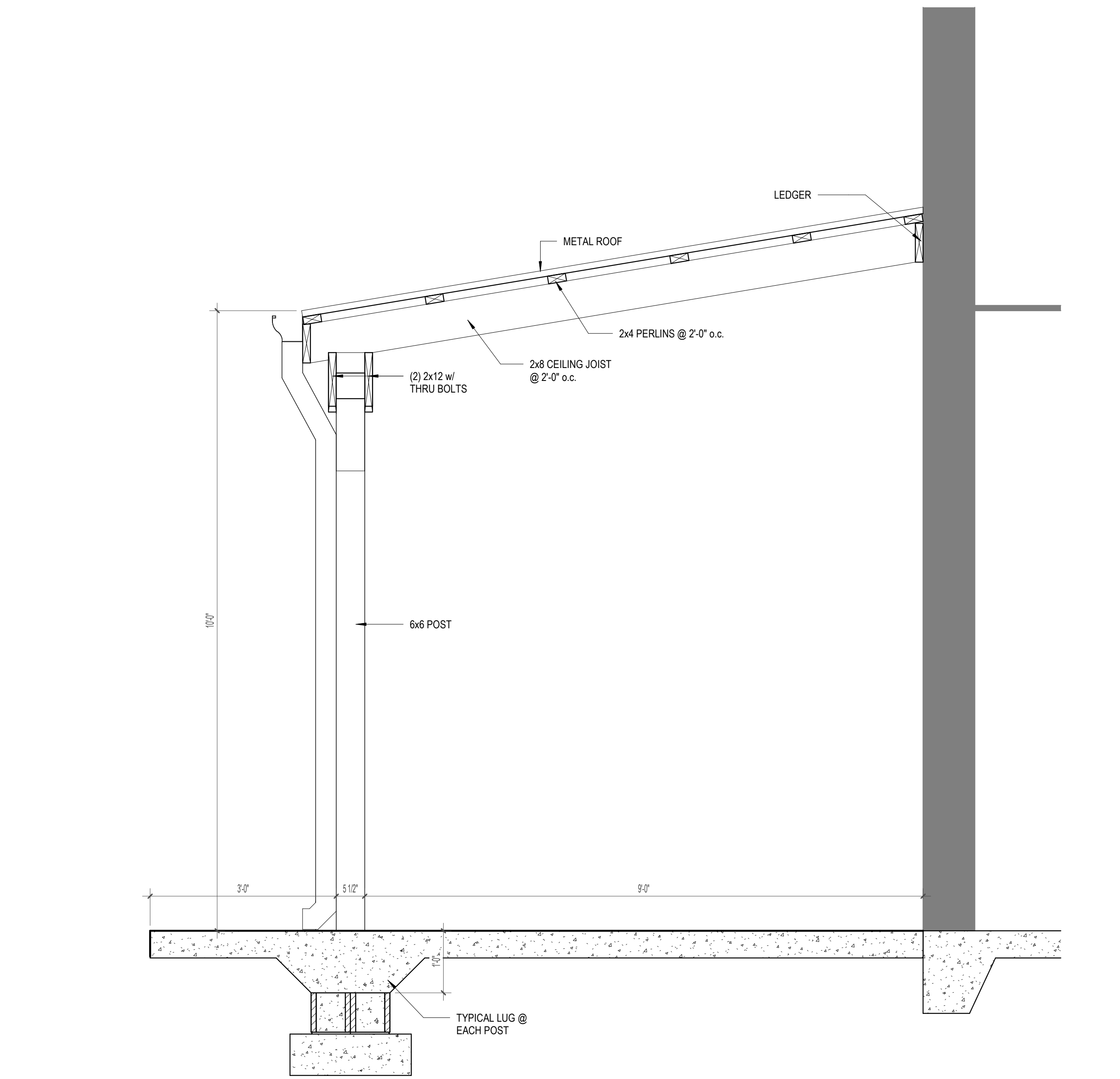
2 EGRESS FLOOR PLAN
1/8" = 1'-0"



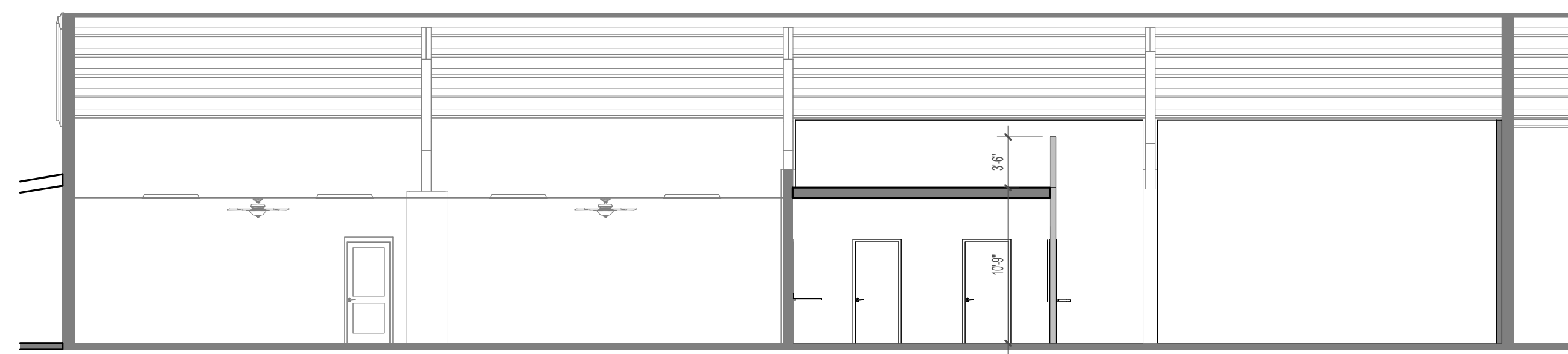
No.	Description	Date
1	REVIEW COMMENTS	2/22/23
2	REVIEW COMMENTS	4/26/23

PROJECT #: 210025
DATE: 4/26/2023

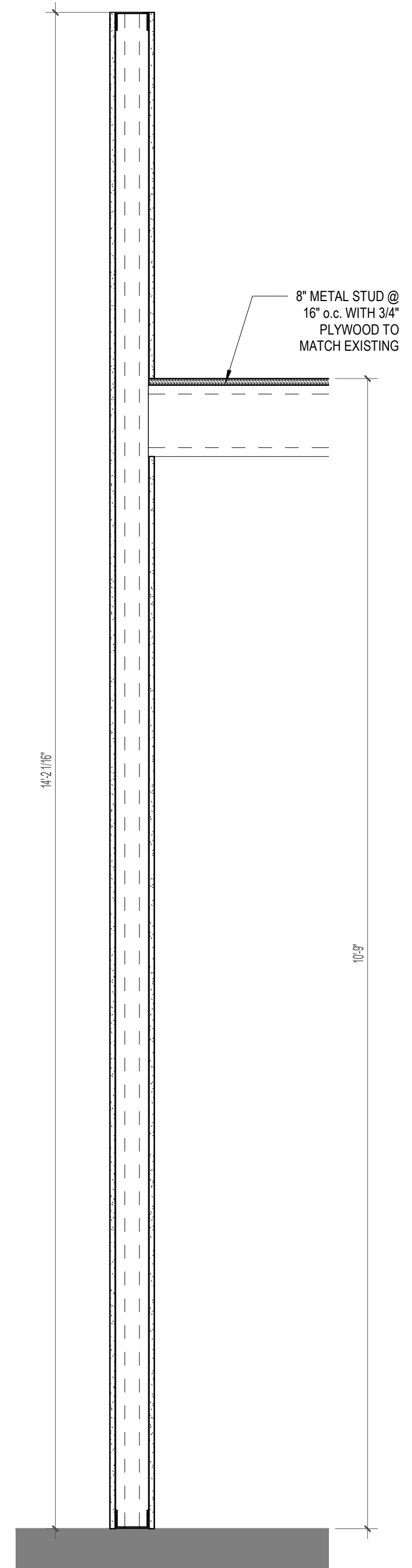
FLOOR PLAN AND CEILING PLANS



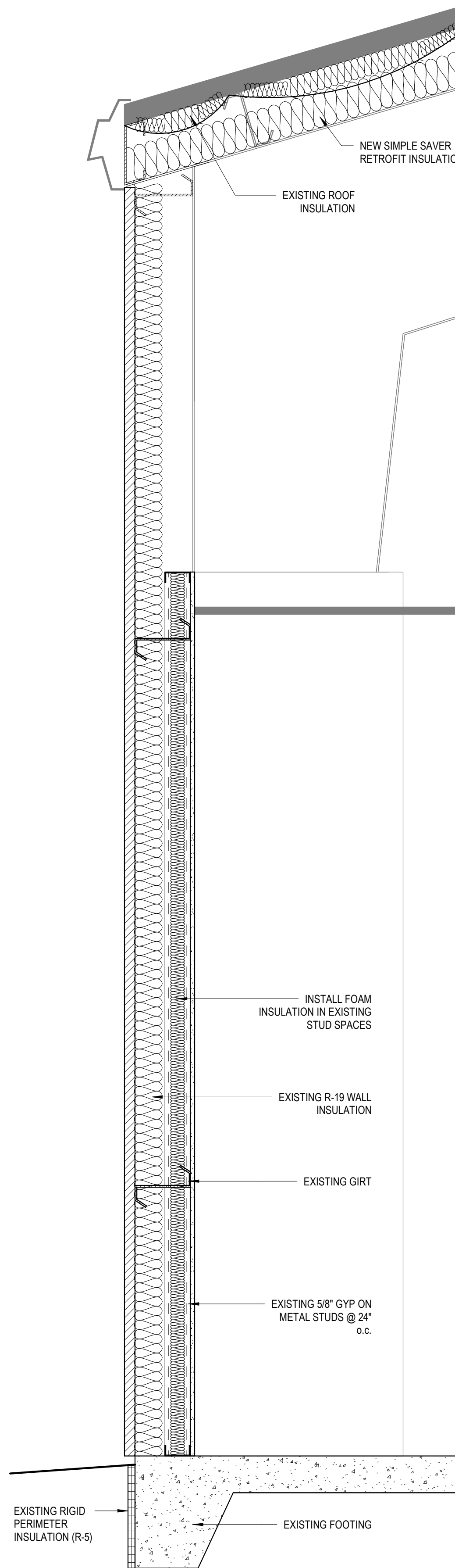
4 FRONT LEAN TOO SECTION
3/4" = 1'-0"



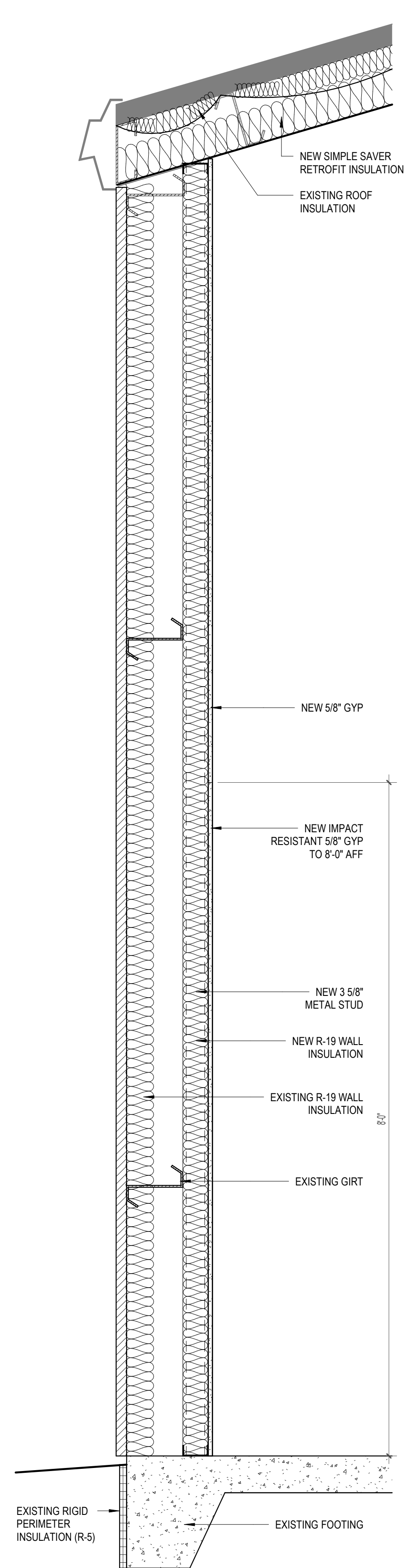
2 BUILDING SECTION
1/8" = 1'-0"



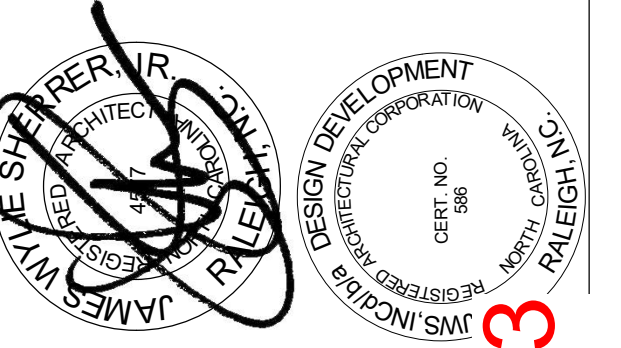
3 TYPICAL NEW WALL SECTION
1" = 1'-0"



1 EXISTING WALL SECTION
1" = 1'-0"



5 NEW WALL SECTION
1" = 1'-0"



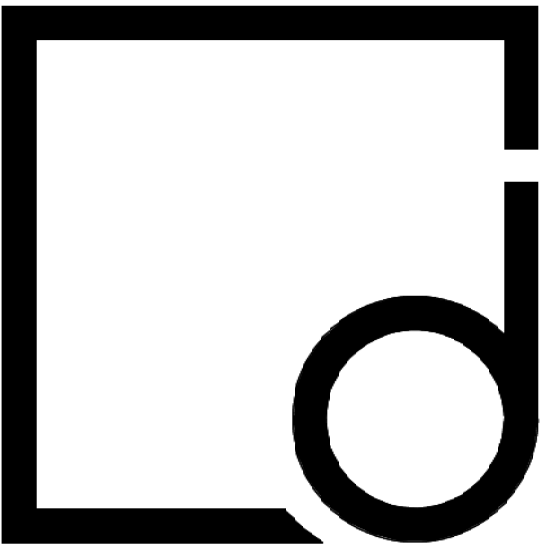
CBPR-096723-2023

LIFEPPOINT CHURCH PHASE 1 FITUP
3390 JOHN ADAMS RD
WILLOW SPRINGS
NORTH CAROLINA

No.	Description	Date

PROJECT #: 210025
DATE: 2/7/2023

WALL SECTION



THE DRAWINGS AND DESIGN SHOWN ARE THE PROPERTY OF DESIGN DEVELOPMENT. THE REPRODUCTION OR USE OF THIS PROPERTY WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT IS PROHIBITED AND ANY INFRINGEMENT OF THESE RIGHTS IS SUBJECT TO LEGAL ACTION.

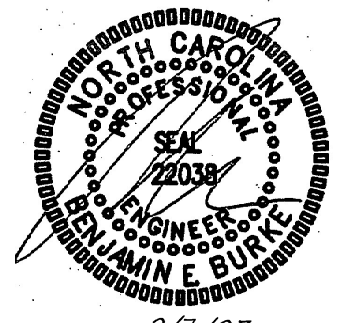
Designdevelopment
ARCHITECTS

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919.848.4474

LIFEPOINT CHURCH
PHASE 1

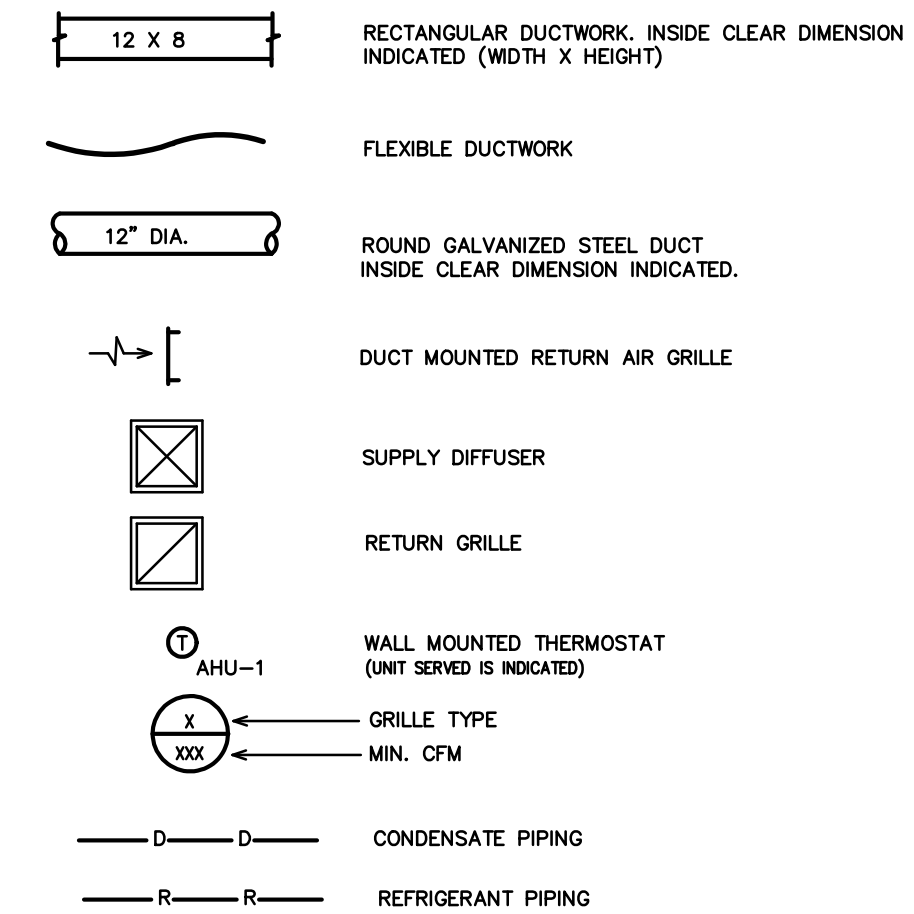
3385 JOHN ADAMS RD.
WILLOW SPRINGS
NORTH CAROLINA

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CONSULTING ENGINEERS
3305-109 Durham Drive
Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com
Corp. License # C-2652



CBPR-096723-2023

LEGEND - MECHANICAL



GENERAL NOTES - MECHANICAL

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
- THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
- THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED ELECTRICIAN.
- THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING. ADJUST DIFFUSERS TO PROVIDE FOR PROPER OPERATION OF HOOD.
- DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
- THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- FANS AND CURBS, CURBS AND FLASHING ARE BY THE GENERAL CONTRACTOR. ALL ROOFING WORK SHALL BE DONE BY THE ORIGINAL ROOFING CONTRACTOR SO AS TO MAINTAIN ORIGINAL WARRANTY.
- THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL CONTRACTOR FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- PROPERLY SUPPORT ALL DUCT WORK, HOOD AND FANS FROM STRUCTURE. PROVIDE ALL STRUCTURAL SUPPORTS FOR THE LOADS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

2.4 DUCT INSULATION (LOW PRESSURE)

- All insulation, linings, coverings and adhesives shall have a flame spread classification of 25 or less and a smoke developed rating of not more than 50, exposed exterior piping.
- All duct insulation shall comply with Section 604, of the N. C. Building Code: Mechanical Code
- All supply and return ductwork shall be completely insulated, either internally or externally.
- Rectangular ductwork shall be lined with two-inch thick, 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG Ultraliner, Johns Manville or approved equal.
- As an alternative to duct liner rectangular duct may be wrapped with Class 1 - 2", 3/4 lb. density (R-6.5) thick reinforced foil back fiberglass insulation, Owens-corning Series ED or equal. Tape shall be Kraft reinforced foil tape or equal.
- Exhaust air duct does not require insulation, unless otherwise noted on the plans.
- Insulation shall be held in place with adhesive and welding pins 16" on center.
- Duct dimensions shown on the drawings are Net Inside Dimensions

2.5 THERMOSTATS

- Provide programmable electronic thermostats.
- Submit proposed thermostats for approval.

2.6 ROOF PENETRATIONS

- Provide pre-manufactured roof flashings compatible with equipment served.
- Coordinate roof work with roof system used. Provide proper flashing as required.
- Provide 1 year warranty on all roof work performed.

2.7 DUCT SMOKE DETECTORS

- Duct detectors are not required since units air flows are 2000 cfm or less per NCSCB: Mechanical Code, Section 606.2.

PART 3 - EXECUTION

3.1 PIPING

- The HVAC Contractor shall coordinate such routing with others, to line his work true to adjacent spaces and in a workmanlike manner and to use only short radius 90 degree elbows. Where required, piping to be sturdily supported and separated in a manner satisfactory to the Engineer.
- The HVAC Contractor shall paint all exterior refrigerant piping with UV resistant paint as recommended by the closed cell insulation manufacturer.
- Insulate all condensate lines for their entire length with 1/2" closed cell insulation. Install insulation per the manufacturers recommendations.

3.2 ELECTRICAL WORK

- The electrical contractor shall provide all switches, starters, wire conduit for the air conditioning, heating and ventilation equipment. Control wiring shall be by the heating and air conditioning contractor.
- HVAC Contractor is responsible for verifying that power terminals have been properly grounded prior to operating equipment and must find connections to all equipment including control wiring.

- All materials and workmanship shall be in accordance with the electrical specifications for the project. All wiring shall be color coded, and as-built wiring diagram prepared showing all connections and colors of wiring and delivered to the Owner.

- Furnish certification for acceptance of control wiring from local electrical inspector prior to acceptance.

3.3 CLEAN UP

- During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.
- Furnish one box of clean filters, for each size required, at the time of final inspection to the owner.

3.4 OPERATOR'S MANUAL AND DIAGRAM

- The HVAC Contractor shall prepare in one copy a manual describing the proper maintenance and operation of the systems. This manual shall not consist of standard factory instructions (although these may be included) but shall be prepared to describe this particular job.
- The manual shall be bound, indexed, dated and signed by the HVAC Contractor.
- Qualified representative of the HVAC contractor shall meet with the designated representatives of the Owner and the Owner's representative shall be instructed in the proper operation and maintenance of the control system and other systems.

3.5 GUARANTEE

- Guarantee all materials and labor included in the HVAC work for a period of one year from date of final acceptance by the owner. In addition, motor compressors shall be a nonprorated five year warranty. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the owner or tenant.
- All air flows must be measured and balanced to within 10% of design airflows. All equipment used must have a current certification. Provide two copies of the balance report to the owner at closeout. The HVAC contractor shall return and re-balance to occupant comfort after 90 days from close-out. Provide all balance dampers needed for satisfactory operation regardless if shown on the drawings or not, and shift location of thermostats thermostats if required for occupancy comfort.

Life Point Church-FH Up-M1	
DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE	
DHP-1 OUTDOOR HEAT PUMP UNIT	* MITSUBISHI MODEL #MUZ-FS06NA, 1.0 TON OUTDOOR HEAT PUMP UNIT, 19.1 SEER, 208 VOLT, 1 PHASE, CONDENSING UNIT 12A MCA, 15A MOPP. FAN COIL UNIT IS POWERED VIA FIELD PROVIDED WIRING FROM OUTDOOR UNIT. SERVES (1) INDOOR FAN-COIL UNIT (DFC-1).
DFC-1 DIRECT EXPANSION FAN COIL UNIT	* MITSUBISHI MODEL #MSZ-FS06NA FAN COIL UNIT, NET COOLING CAPACITY = 6,000 BTUH, 167 CFM LO TO 304 CFM HI. 0.5 TON NOMINAL. PROVIDE WIRED PROGRAMMABLE THERMOSTAT, AND CONDENSATE PUMP. FAN MOTOR 0.65, FLA 208 VOLT, SINGLE PH.

* OR APPROVED EQUAL

APPENDIX B
2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

Thermal Zone	4A
winter dry bulb	16F
summer dry bulb	93F

Interior Design Conditions	
winter dry bulb	72F
summer dry bulb	75F
relative humidity	50%

Building Heating Load	117,800 BTU/HR
Building Cooling Load	136,000 BTU/HR

Mechanical Spacing Conditioning System

- Unitary - (1) 3 ton split system heat pump with electric supplemental resistant heat.
- (1) 4 ton split system heat pump with electric supplemental resistant heat.
- (1) 5 ton split system heat pump with electric supplemental resistant heat.
- (1) 0.5 ton ductless split system

Boiler - Not applicable to this project.

Chiller - Not applicable to this project.

Equipment efficiencies

Efficiencies and outputs are listed on equipment schedules - See drawings.

Equipment schedules with motors.

Motors used on this project are included in the efficiency rating of the unit. See drawings for efficiencies.

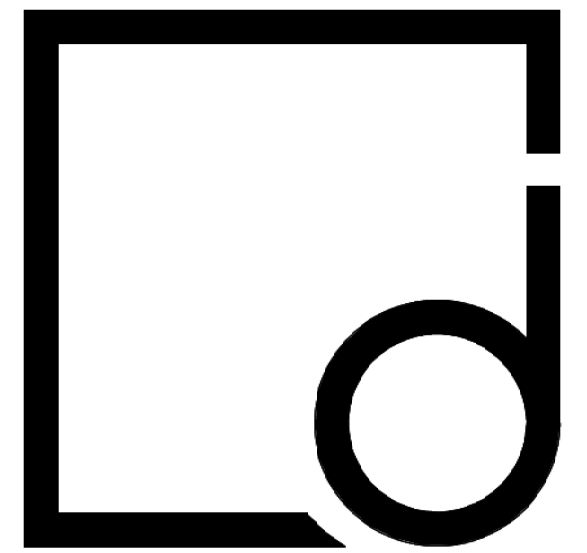
No.	Description	Date
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PROJECT #: 210025

DATE: 11/10/2022

HVAC SPECIFICATIONS

M1.0



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**LIFEPPOINT CHURCH
PHASE 1**

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CONSULTING ENGINEERS
3305-109 Durham Drive
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919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com
Corp. License # C-2652

CBPR-096723-2023



No.	Description	Date
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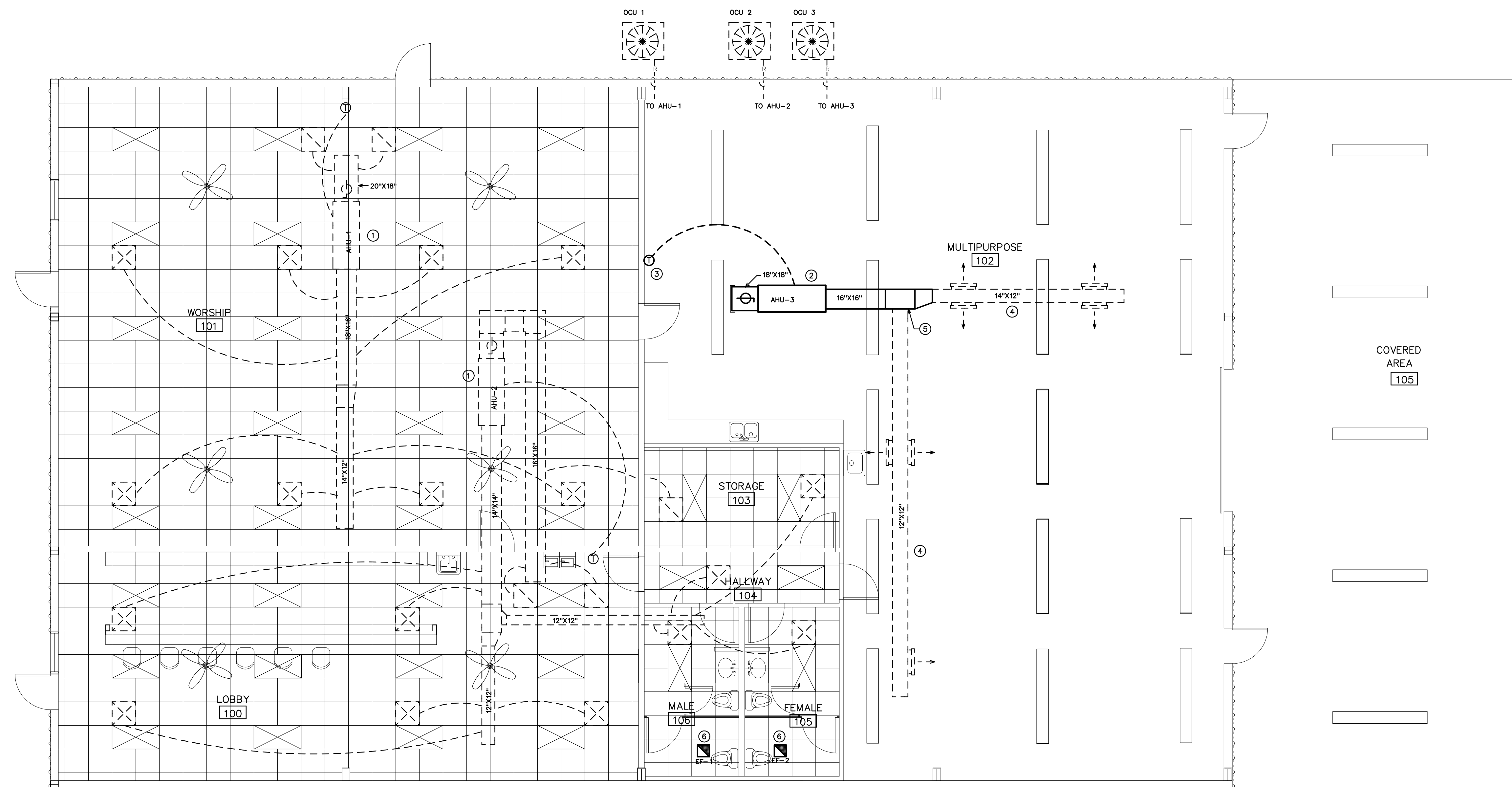
PROJECT #: 210025
DATE: 11/10/2022

EXISTING HVAC PLAN

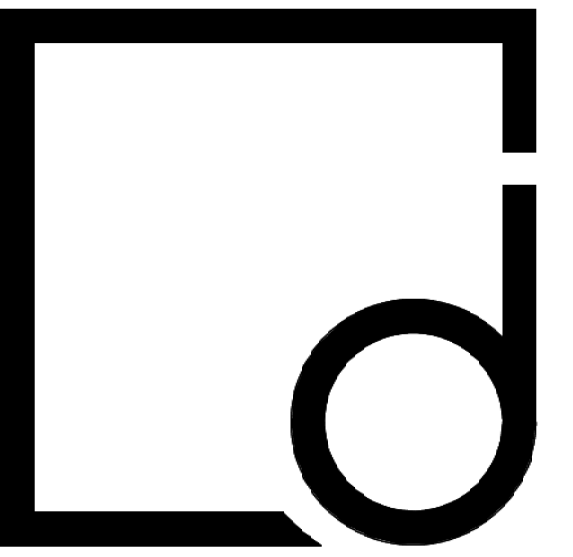
M2.0

KEY NOTES FOR M2.0

- ① EXISTING HVAC SYSTEM TO REMAIN IN PLACE
- ② RELOCATE AHU-3. SEE SHEET M3.0
- ③ RELOCATE EXISTING THERMOSTAT FOR AHU-3. SEE SHEET M3.0
- ④ EXISTING DUCT/ DIFFUSERS TO REMAIN.
- ⑤ PATCH RELOCATED DUCT. MATCH MATERIALS AND INSULATION.
- ⑥ EXISTING EXHAUST FANS TO REMAIN



① EXISTING HVAC PLAN
SCALE: 3/16" = 1'-0"



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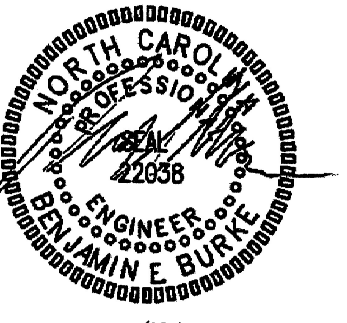
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**LIFEPPOINT CHURCH
PHASE 1**

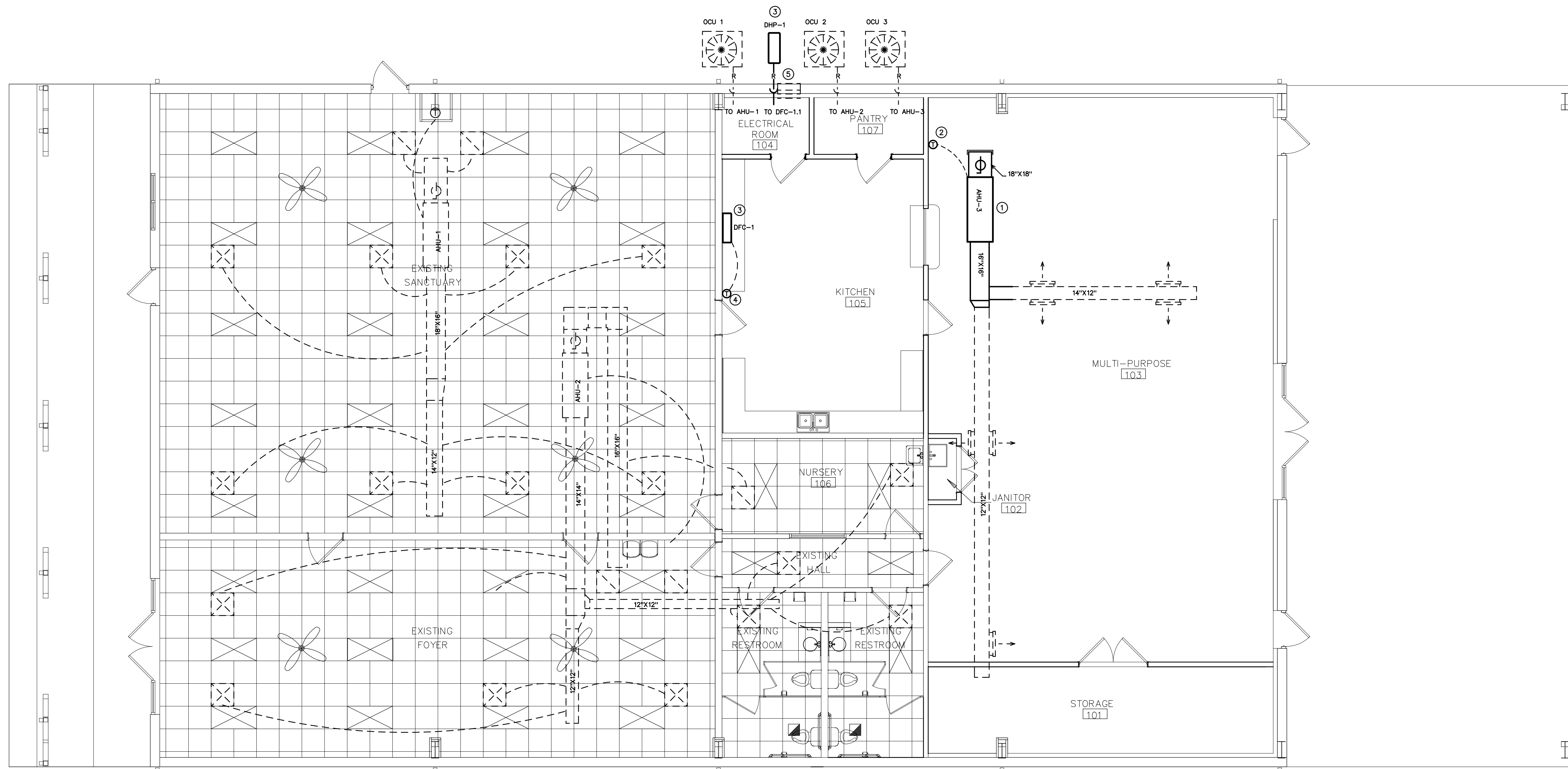
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CBPR-096723-2023

- KEY NOTES FOR M3.0
- ① NEW LOCATION FOR AHU-3.
 - ② NEW LOCATION FOR THERMOSTAT FOR AHU-3.
 - ③ NEW DUCTLESS SPLIT SYSTEM. COORDINATE LOCATION OF DFC WITH OWNER.
 - ④ MOUNT THERMOSTAT AT 48" AFF
 - ⑤ FRESH AIR DUCTED TO EXISTING LOUVER



① REVISED HVAC PLAN
SCALE: 3/16"=1'-0"

No.	Description	Date
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PROJECT #: 210025

DATE: 11/10/2022

REVISED HVAC PLAN

M3.0

DIVISION 16 – ELECTRICAL

PART 1 – GENERAL

- 1.1 DESCRIPTION OF THE WORK
- Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
 - Electrical service and service equipment.
 - Lighting and power distribution system.
 - Provide lighting fixtures selected by owner with lamps to match.
 - Wiring devices, boxes, cover plates, etc.
 - Source of power for all items of equipment.
 - Grounding.
 - Other requirements and/or systems where shown.
 - All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct operation.
 - All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:
 - The 2020 National Electrical Code.
 - The National Electrical Safety Code.
 - Underwriter's Laboratories, Inc., Standards and approved listings.
 - Electrical Testing Laboratories standards.
 - North Carolina Building Code, Latest Edition and Revisions.
 - All local codes and ordinances.
 - The Electrical Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.
 - Obtain all permits, licenses, inspections, etc., required for the work and pay for the same. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work.
 - All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.
- 1.2 INTENT
- The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.
- 1.3 COORDINATION
- Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
 - Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.
- 1.4 SHOP DRAWINGS
- Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

PART 2 – PRODUCTS AND MATERIALS

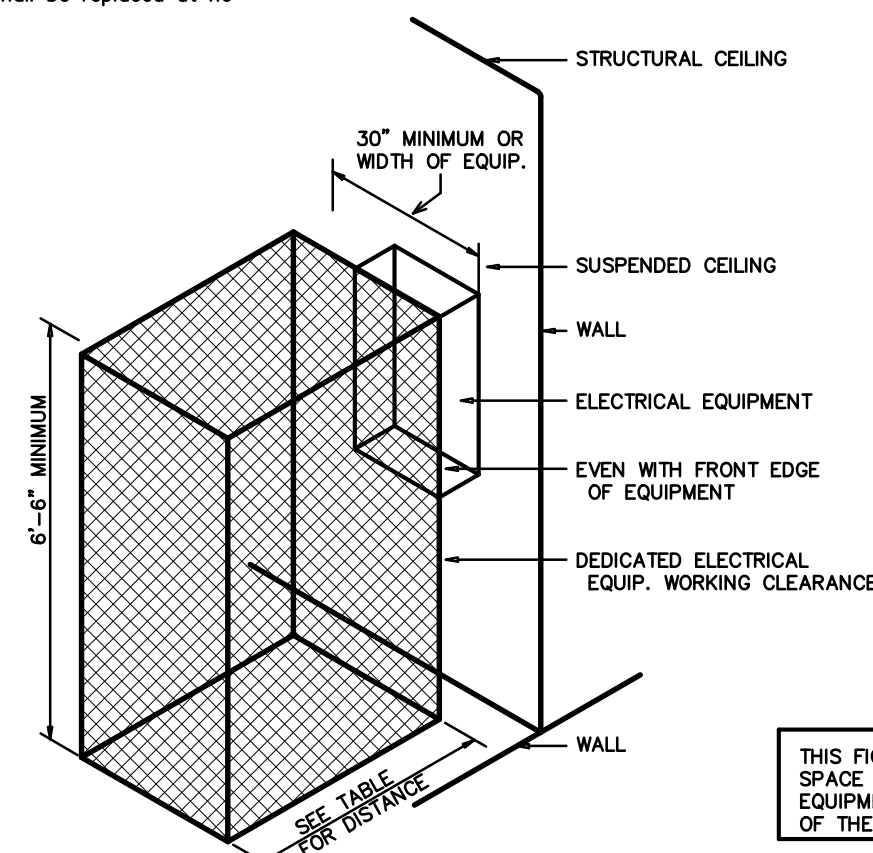
- 2.1 GENERAL
- All material shall be new and shall bear the manufacturer's name, trade name, and UL label where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacturer of the required type of equipment and the manufacturer's latest approved design.
 - Boxes installed in concealed locations shall be set flush with the finished surfaces.
 - Provide rated boxes in all fire barriers & walls installed per code.
 - NOT USED
 - CONDUCTORS
 - Conductors shall be color coded, sizes #8 and larger may be color taped on the job. Color coding shall be: Standard Practice.
 - Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and IPCEA and shall be UL approved.
 - Metallic sheathed "MC" cable may be used where allowed by N.E.C.
 - Conductors shall be spliced and taped as follows:
 - Size #10 and #12, use ideal "Wing Nuts" or T&E "Fizzy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures.
 - Size #8 and larger shall be address screw and screw-clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed insulating covers may be used. All connectors shall be UL approved.
 - No split-bolt type connectors may be used.
 - All branch wire and connections shall be copper and sized per National Electric Code.
 - All conductors shall be continuous without splice between junction, outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.
 - All wiring in mechanical spaces shall be plenum rated.
 - Provide GFI protection within 6'-0" of any sink.
 - All multi-wire branch circuits shall comply with 2020 NEC, 210.4(B).
 - All wiring at medical facilities shall comply with 2020 NEC, 517.1.

- 2.4 PANELBOARDS, SAFETY SWITCHES
- Panelboards shall comply with NEMA Standard PB 1 – Latest Edition and as manufactured by Square D or ITE-Siemens.
 - The contractor shall be responsible for correctly phasing the circuits in the panelboards.
 - Safety switches shall be general duty type, size and rating as required for load service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.

- 2.5 NOT USED
- 2.6 WIRING DEVICES
- Wiring devices shall be commercial grade by Bryant, Leviton, or approved equal. With matching cover. Color by Architect.
 - Wiring devices installed under a Kitchen Hood shall have stainless steel covers.
 - Wiring devices installed over counters shall comply with ANSI A117.1.
- 2.7 NOT USED

- 2.8 CONDUIT
- PVC conduit will be allowed where N.E.C. approved.
 - All service conduit shall be rigid where exposed below 8'-0" AFF or exposed to the elements or hazardous conditions.
- PART 3 – EXECUTION
- 3.1 CIRCUIT GROUNDING
- All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250-95 of the NEC. Grounding conductors shall be connected to equipment grounding bus in panelboard and securely attached and grounded to the device or enclosure at the other end.
- 3.2 GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES
- Outlets and switches shall be solidly grounded to equipment grounding system with a green colored insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the hex nut on the convenience outlet or switch.
- 3.3 MOTORS
- All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 36") of flexible liquidtight conduit.
- 3.4 NOT USED
- 3.5 EQUIPMENT LABELING
- Provide permanent name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment controlled, services, etc. Nameplates shall be securely and permanently attached to equipment with stainless steel screws. Nameplates shall include the name of the equipment and where it is fed from.
 - All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.
 - All empty conduit runs shall be identified and indicated where they terminate.
 - Provide typewritten directory in each panelboard to clearly identify each circuit, service, etc.
- 3.6 NOT USED
- 3.7 NOT USED
- 3.8 JUNCTION AND/OR PULL BOXES
- Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.
- 3.9 PULL WIRE
- Leave pull wire in each empty conduit run.
- 3.10 NOT USED
- 3.11 GROUNDING
- All grounding shall be in accordance with Article 250 of the NEC. In addition, the following requirements shall be met:
 - Grounding conductors shall be installed as to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible.
 - Equipment ground continuity shall be maintained through flexible metal conduit.
 - All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding conductors.
 - The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.
 - All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
 - All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.

- 3.12 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK
- PLUMBING WORK: The Electrical Contractor shall furnish and install switches and devices as shown and electrically connect electric water heaters, etc. All other electrical work required will be performed by the PLUMBING CONTRACTOR.
 - HEATING AND AIR CONDITIONING WORK: The Electrical Contractor shall provide all disconnect switches, starters, and associated hardware for the equipment furnished including all line and load side wiring and conduit. Final connections to the equipment will be by the HVAC contractor. All control wiring will be accomplished by the HVAC contractor. Coordinate all work associated with the HVAC contractor.
- 3.13 CLEAN UP
- During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.
- 3.14 GUARANTEE
- Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.



ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110-26 OF N.E.C.

VOLTAGE TO GROUND NOMINAL	WORKING CLEARANCES			
	MIN. CLEAR DISTANCE IN FEET	1	2	3
0-150	3	3	3	3
151-600	3	3-1/2	4	4

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTORS AND CONDUIT PER NEC.)
- ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.
- ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.
- CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.
- THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.
- ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.
- PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.
- THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE OUTLETS.

**APPENDIX B
2018 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

- Energy Code: Prescriptive Energy Cost Budget
- ASHRAE 90.1: Prescriptive Energy Cost Budget

Lighting Schedule

lamp types required in fixture
number of lamps in fixture
ballast type used in fixture
number of ballasts in fixture
total wattage in fixture
total interior wattage specified vs. allowed 5248VA / 5775VA
total exterior wattage specified vs. allowed 705VA / 750VA

See Light Fixture Schedule

Additional Prescriptive Compliance

- 506.2.1 More Efficient Mechanical Equipment
- 506.2.2 Reduced Lighting Power Density
- 506.2.3 Energy Recovery Ventilation Systems
- 506.2.4 Higher Efficiency Service Water Heater
- 506.2.5 On-Site Supply of Renewable Energy
- 506.2.6 automatic Daylighting Control System

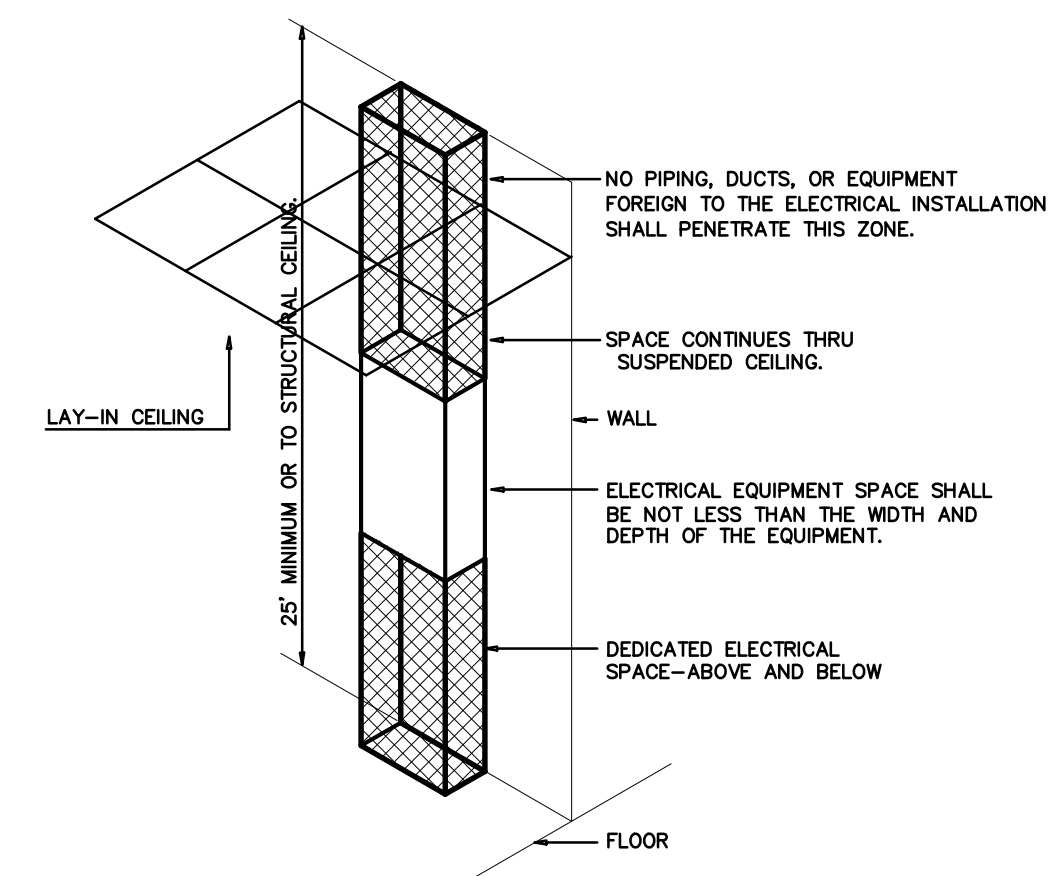
WHERE THE CONDITIONS ARE AS FOLLOWS:

- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
- EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
- EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

1 ELECTRICAL CLEARANCES
SCALE: NTS

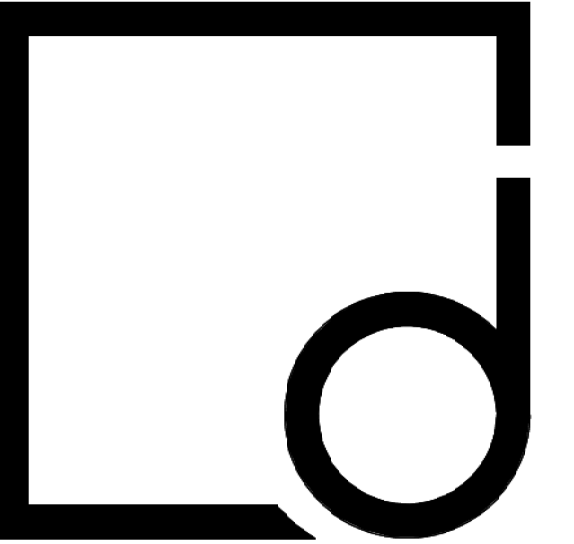
ELECTRICAL LEGEND

- LIGHT FIXTURE: LETTER DENOTES FIXTURE TYPE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE). NL = NIGHT LIGHT (NOT SWITCHED/ALWAYS ON)
- DUPLEX RECEPTACLE – 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE. "WP" INDICATES WEATHER PROOF, "GFI" INDICATES GROUND FAULT CURRENT INTERRUPTER PROTECTED. "U" INDICATES RECEPTACLE WITH (2) USB PORTS.
- QUADRUPLEX RECEPTACLE – 120V
- FLOOR OR CEILING OUTLET (AS NOTED) – 120V
- SPECIAL PURPOSE RECEPTACLE – REFER TO POWER PLAN AND PANEL SCHEDULE
- LIGHT SWITCH
- SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.
- DIMMABLE LIGHT SWITCH
- MOTOR RATED SWITCH
- JUNCTION BOX
- TELE/DATA OUTLET – PROVIDE JUNCTION BOX WITH CONDUIT BACK TO MTP. PROVIDE (1) TELEPHONE JACK AND (1) CAT 5 DATA JACK
- SINGLE-POLE HOMERUN TO PANELBOARD
- TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD
- EXIT LIGHT
- EMERGENCY EGRESS FIXTURE
- PHOTOCCELL (LED COMPLIANT)
- BRANCH CIRCUIT WIRING
- SWITCH LEG
- GROUND CONNECTION
- DISTRIBUTION PANELBOARD
- DISCONNECTING MEANS AS REQUIRED BY CODE



ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.

2 DEDICATED SPACE
SCALE: NTS



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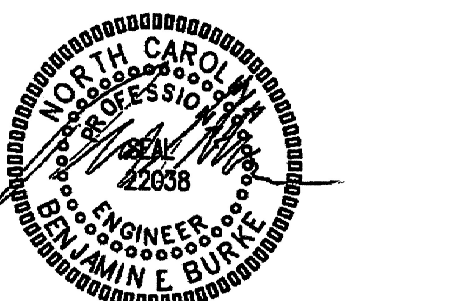
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919.848.4474

**LIFEPOINT CHUI
PHASE 1**

3385 JOHN ADAMS RD.
WILLOW SPRINGS
NORTH CAROLINA

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CONSULTING ENGINEERS
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Raleigh, North Carolina 27603
919.771.1916 fax: 919.779.0826
email: benburke@nc.rr.com
Corp. License # C-2652



2/7/23

No.	Description	Date
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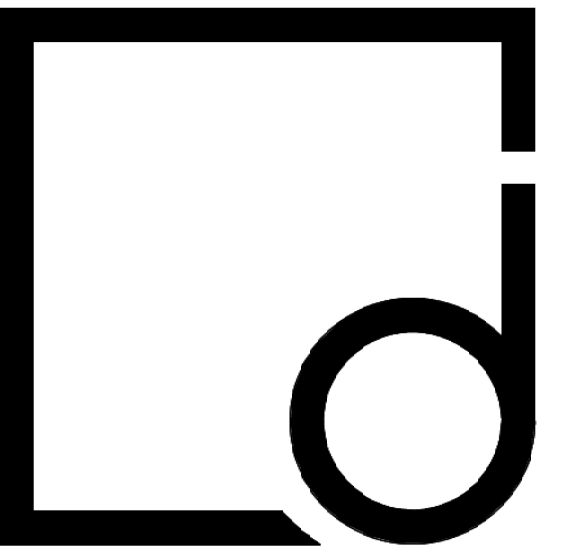
PROJECT #: 210025

DATE: 11/10/2022

ELECTRICAL SPECIFICATIONS

E1.0

CBPR-096723-2023



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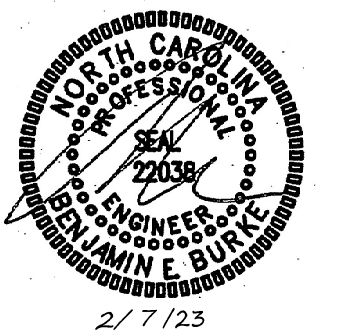
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**LIFEPOINT CHURCH
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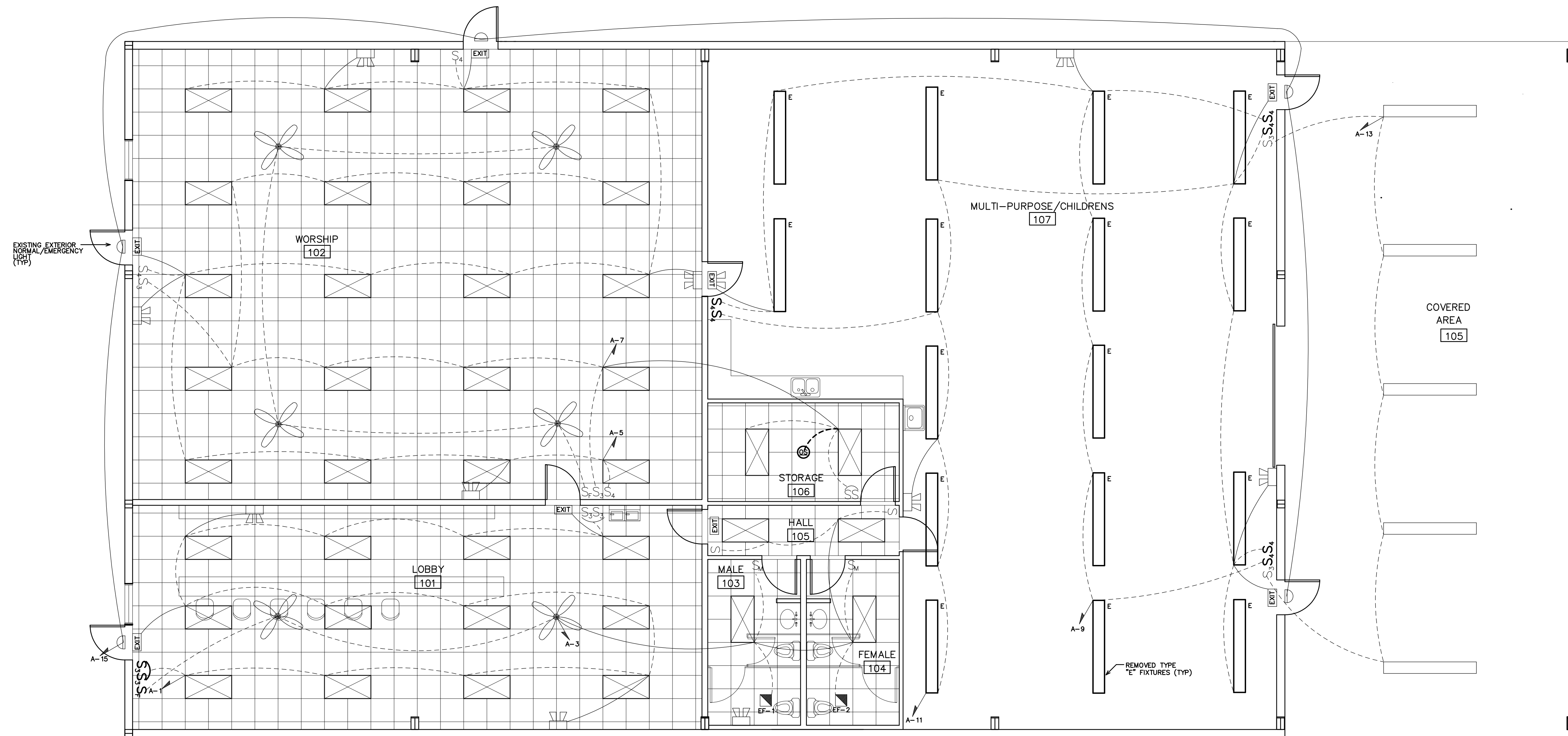
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THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

- = EXISTING FIXTURE TO REMAIN
- = EXISTING FIXTURE TO BE RELOCATED/REMOVED



1 EXISTING LIGHTING PLAN
SCALE: 3/16" = 1'-0"

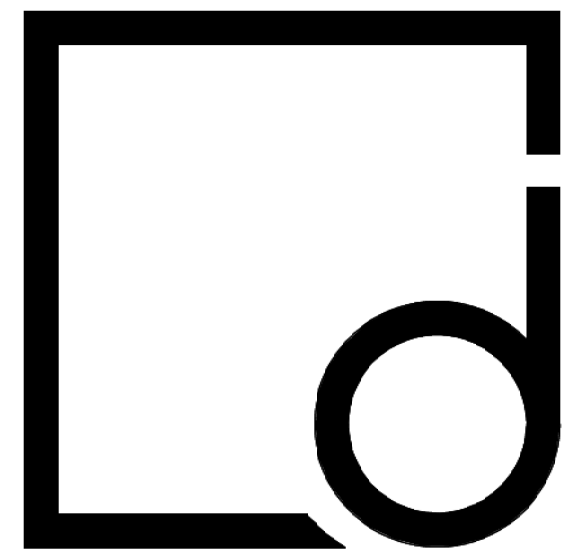
No.	Description	Date
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PROJECT #: 210025

DATE: 11/10/2022

EXISTING LIGHTING
PLAN

E2.0



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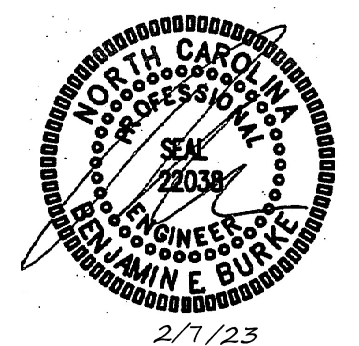
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**LIFEPPOINT CHURCH
PHASE 1**

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No.	Description	Date
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PROJECT #: 210025

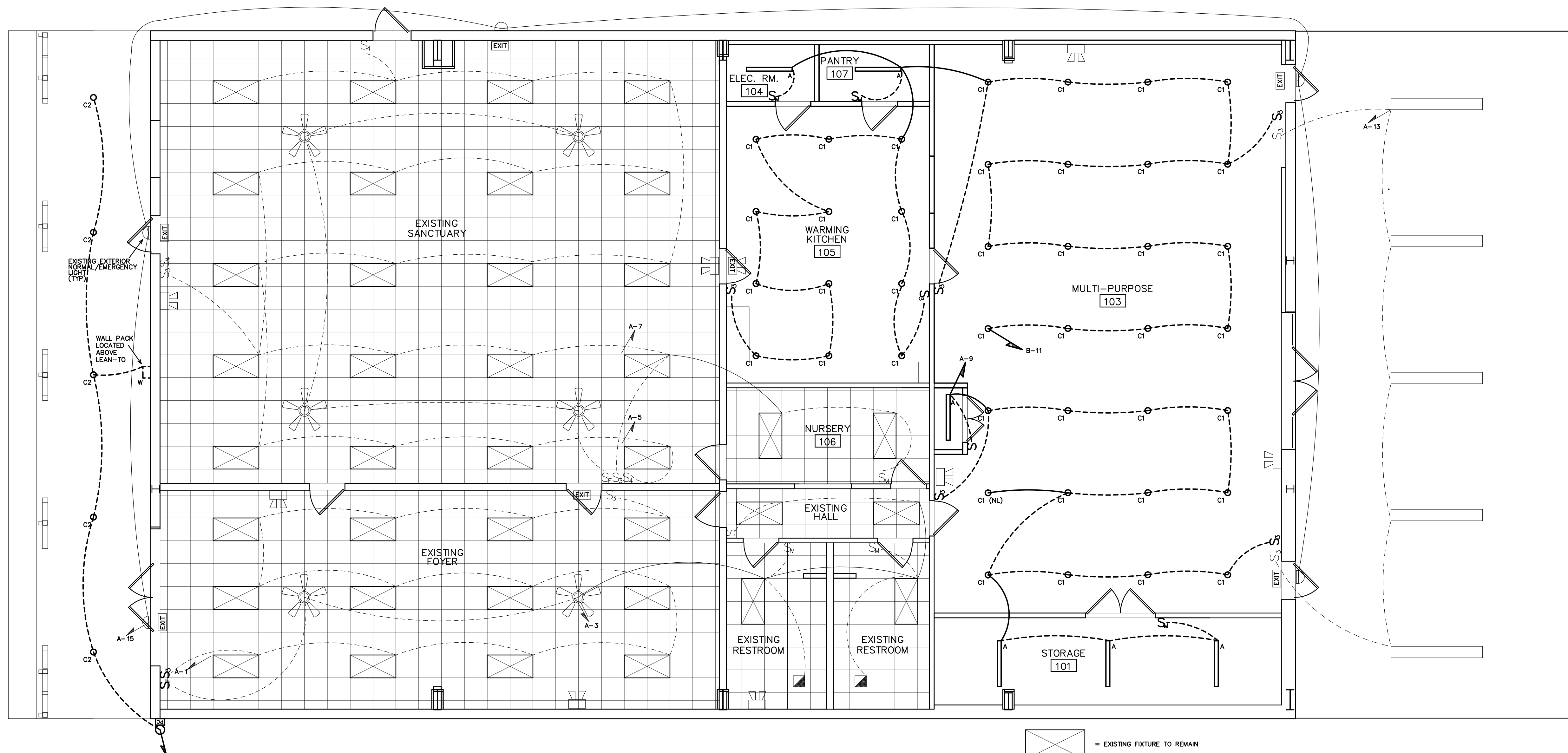
DATE: 11/10/2022

REVISED LIGHTING PLAN

E3.0

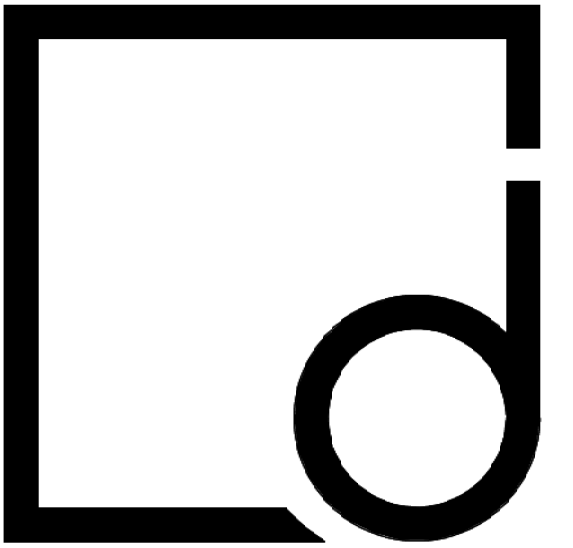
MARK	MANUFACTURER	CATALOG NO.	VOLT	LAMPS		BALLAST	W/ FIXTURE	REMARKS
				NO.	TYPE			
A	COLUMBIA	MPS4-35ML-CW-EDU	120	-	LED	-	40	4' LINEAR LED STRIP FIXTURE
C1	JUNO	IC22LED-G4-14LM-35K	120	-	LED	-	30	6" LED CAN FIXTURE
C2	PRESCOLITE	LF6LEDG4-6MFLEDG435K	120	-	LED	-	20	6" EXTERIOR LED CAN FIXTURE (WET LOCATION)
W	CURRENT	WDM-D-4BL-105-3K7-4W	120	-	LED	-	104	EXTERIOR LED WALLPACK

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.
THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.



1 REVISED LIGHTING PLAN
SCALE: 3/16" = 1'-0"

- = EXISTING FIXTURE TO REMAIN
- = NEW/RELOCATED FIXTURE



NOTE:
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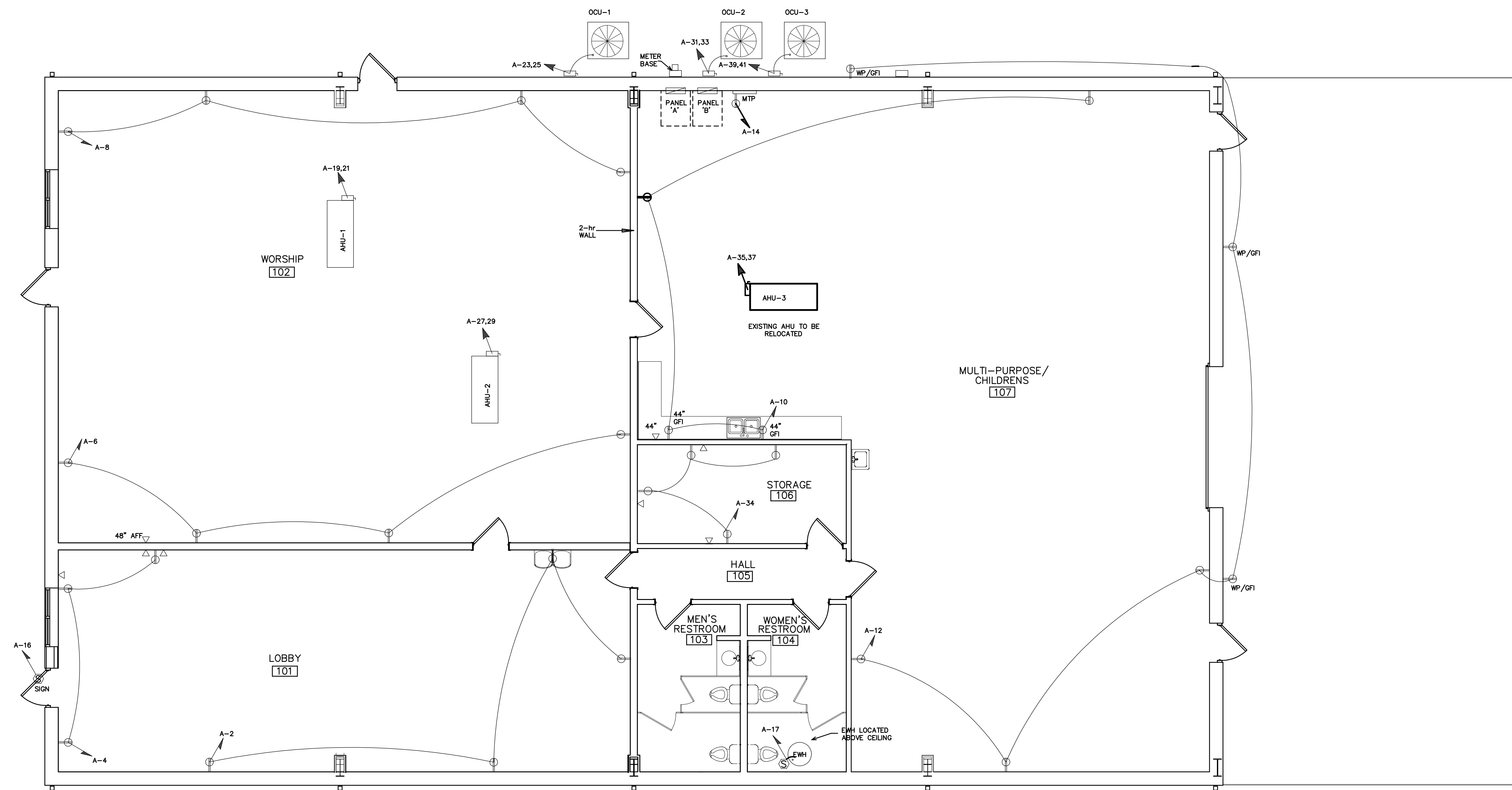
**LIFEPPOINT CHURCH
 PHASE 1**

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CBPR-096723-2023



1 EXISTING POWER PLAN
 SCALE: 3/16" = 1'-0"

- = EXISTING DEVICE TO REMAIN
- = EXISTING DEVICE TO BE RELOCATED/REMOVED

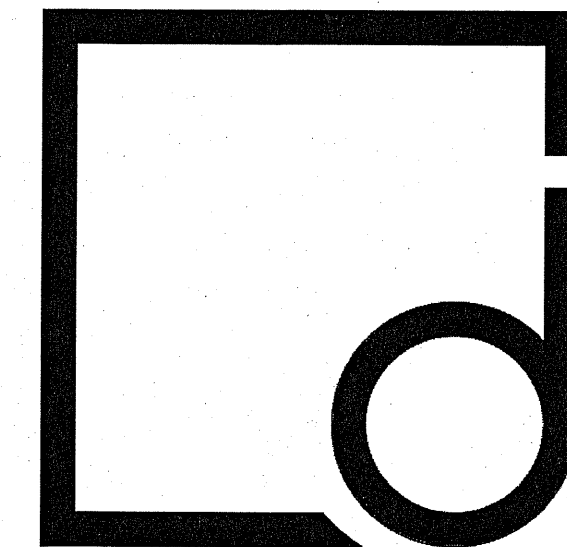
No.	Description	Date
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PROJECT #: 210025

DATE: 11/10/2022

EXISTING POWER
 PLAN

E4.0



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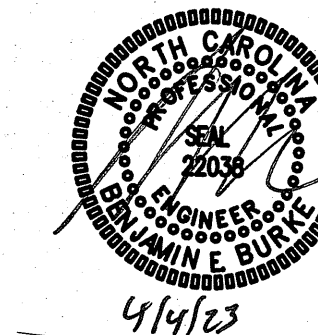
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LIFEPPOINT CHURCH PHASE 1

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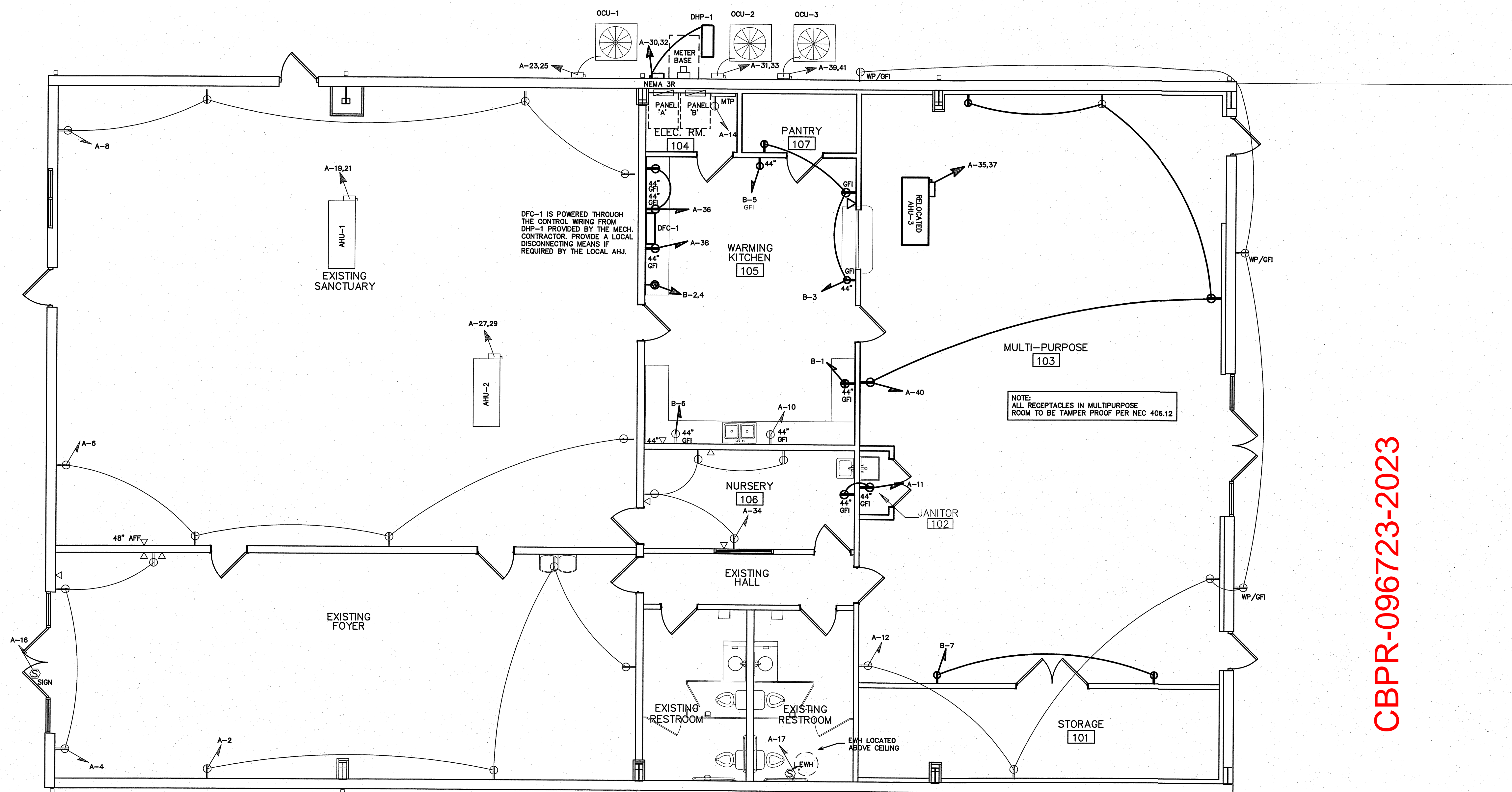
No.	Description	Date
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PROJECT #: 210025

DATE: 11/10/2022

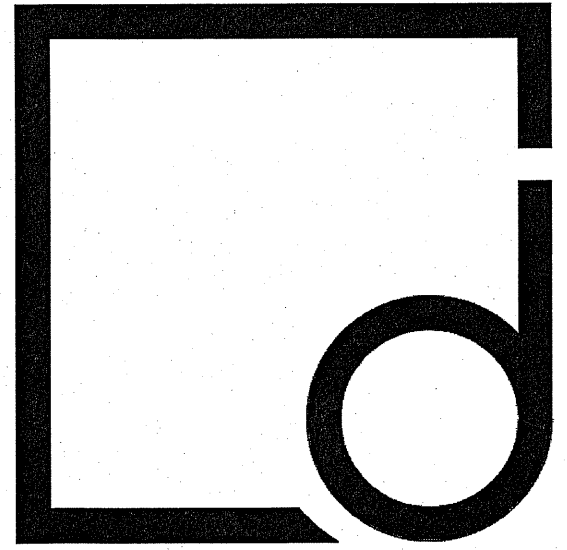
REVISED POWER PLAN

E5.0



CBPR-096723-2023

1 REVISED POWER PLAN
SCALE: 3/16" = 1'-0"



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LIFE POINT CHURCH PH 109 E6 EXISTING PANEL - 'A'		MAKE: VERIFY TYPE: VERIFY	RATING: 208/120V 3 PHASE 4 WIRE MOUNTING: SURFACE MINIMUM AIC: 22,000 AMPS	400A MAIN CIRCUIT BREAKER (FRAME) EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO SERVICE ENTRY RATED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
LOAD SERVICE	WATTS PER PHASE A B C	CKT BRKR NO	NEUTRAL A B C	CKT BRKR NO	WATTS PER PHASE A B C	LOAD SERVICE
LTS - 100	1152	20A	1	2	720	REC - 100
LTS - 100 CEILING FANS,103,104	904	20A	3	4	540	REC - 100
LTS - 101		20A	5	6	720	REC - 101
LTS - 101	960	20A	7	8	720	REC - 101
LTS - 102	896	20A	9	10	720	REC - 102
LTS - 102		20A	11	12	1080	REC - 102, EXTERIOR
LTS - EXTERIOR 105	640	20A	13	14	180	REC - MTP
LTS - EXTERIOR	65	20A	15	16	1200	SIGN CIRCUIT
EWH		30A	17	18		
AHU-1	5408	60A	19	20	200A	PANEL 'B'
52.0A MCA 208V 1PH	5408	60A	21	22		
OCU-1		50A	23	24	180	REC - WELL
34.1A MCA 208V 1PH	3546	50A	25	26	1903	WELL PUMP
AHU-2		40A	27	28	1903	18.3A MCA 208V 1PH
39.2A MCA 208V 1PH	4077	40A	29	30		SPACE
OCU-2	2309	35A	31	32		SPACE
22.2A MCA 208V 1PH	2309	35A	33	34	720	REC - OFFICE
AHU-3		60A	35	36		SPACE
50.7A MCA 208V 1PH	5273	60A	37	38		SPACE
OCU-3		50A	39	40		SPACE
35.4A MCA 208V 1PH	3682	50A	41	42		SPACE
NOTES	19288/17341 21382	SUB-TOTALS 'B'		400A BUS	SUB-TOTALS 'A'	3823 5063 1980
				400A LUGS	SUB-TOTALS 'B'	19288 17341 21382
				400A S/N	GRAND TOTAL	22811 22424 23362
				VERIFY FEED	AMPS/PHASE	190A 187A 195A

LIFE POINT CHURCH PH 109 E6 EXISTING PANEL - 'B'		MAKE: VERIFY TYPE: VERIFY	RATING: 208/120V 3 PHASE 4 WIRE MOUNTING: SURFACE MINIMUM AIC: 22,000 AMPS	MLO MAIN CIRCUIT BREAKER (FRAME) EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
LOAD SERVICE	WATTS PER PHASE A B C	CKT BRKR NO	NEUTRAL A B C	CKT BRKR NO	WATTS PER PHASE A B C	LOAD SERVICE
SPARE		30A	1	2		
SPARE		30A	3	4		
SPARE		30A	5	6		
SPARE		30A	7	8		
SPARE		30A	9	10		
SPARE		30A	11	12		
SPARE		30A	13	14		
SPARE		30A	15	16		
SPARE		30A	17	18		
SPARE		30A	19	20		
SPARE		30A	21	22		
SPARE		30A	23	24		
SPARE		30A	25	26		
SPARE		30A	27	28		
SPARE		30A	29	30		
NOTES		SUB-TOTALS 'B'		200A BUS	SUB-TOTALS 'A'	
				200A LUGS	SUB-TOTALS 'B'	
				200A S/N	GRAND TOTAL	
				VERIFY FEED	AMPS/PHASE	0A 0A 0A

LIFE POINT CHURCH PH 109 E6 REVISED PANEL 'A'		MAKE: VERIFY TYPE: VERIFY	RATING: 208/120V 3 PHASE 4 WIRE MOUNTING: SURFACE MINIMUM AIC: 22,000A	400A MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO SERVICE ENTRY RATED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
LOAD SERVICE	WATTS PER PHASE A B C	CKT BRKR NO	NEUTRAL A B C	CKT BRKR NO	WATTS PER PHASE A B C	LOAD SERVICE
LTS - 100		20A	1	2	720	REC - 100
LTS - 100; CEILING FANS	904	20A	3	4	540	REC - 100
LTS - 101		20A	5	6	720	REC - 101
LTS - 101	960	20A	7	8	720	REC - 101
LIGHTS - NEW WORK		20A	9	10	720	REC - 102
REC - NURSERY / JANITOR		20A	11	12	1080	REC - 102, EXTERIOR
LTS - EXTERIOR 105	640	20A	13	14	180	REC - NTP
LTS - EXTERIOR	65	20A	15	16	1200	SIGN
EWH		30A	17	18		
AHU-1	5408	60A	19	20	200A	PANEL 'B'
HP-1	5408	60A	21	22		
HP-1		50A	23	24	180	REC - WELL
AHU-2	3546	50A	25	26	1903	WELL PUMP
AHU-2		40A	27	28	1903	
HP-2		40A	29	30	1200	DHP-1
HP-2	2309	35A	31	32	720	
HP-3		60A	33	34	720	REC - OFFICE
HP-3		60A	35	36	720	REC - KITCHEN
HP-3	5273	60A	37	38	720	REC - KITCHEN
HP-3		50A	39	40	720	REC - MULTIPURPOSE
HP-3		50A	41	42		SPACE
NOTES		SUB-TOTALS 'B'		400A BUS	SUB-TOTALS 'A'	
				400A LUGS	SUB-TOTALS 'B'	
				400A FEED	GRAND TOTAL	
				VERIFY SIZE	208A 194A 204A	AMPS/PHASE

LIFE POINT CHURCH PH 109 E6 REVISED PANEL 'B'		MAKE: VERIFY TYPE: VERIFY	RATING: 208/120V 3 PHASE 4 WIRE MOUNTING: SURFACE MINIMUM AIC: 22,000A	MLO MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO SERVICE ENTRY RATED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
LOAD SERVICE	WATTS PER PHASE A B C	CKT BRKR NO	NEUTRAL A B C	CKT BRKR NO	WATTS PER PHASE A B C	LOAD SERVICE
REC - KITCHEN	360	20A	1	2	4000	FUTURE STOVE
REC - KITCHEN	540	20A	3	4	4000	
REC - KITCHEN	180	20A	5	6	180	REC - KITCHEN
REC - MULTI-PURPOSE	360	20A	7	8		SPACE
SPARE		20A	9	10		SPACE
LTS - KITCHEN / MULTIPURPOSE	540	20A	11	12		SPACE
SPARE		30A	13	14		SPACE
SPARE		30A	15	16		SPACE
SPARE		30A	17	18		SPACE
SPARE		30A	19	20		SPACE
SPARE		30A	21	22		SPACE
SPARE		30A	23	24		SPACE
SPARE		30A	25	26		SPACE
SPARE		30A	27	28		SPACE
SPARE		30A	29	30		SPACE
NOTES		SUB-TOTALS 'B'		200A BUS	SUB-TOTALS 'A'	
				200A LUGS	SUB-TOTALS 'B'	
				200A FEED	GRAND TOTAL	
				VERIFY SIZE	39A 38A -	AMPS/PHASE

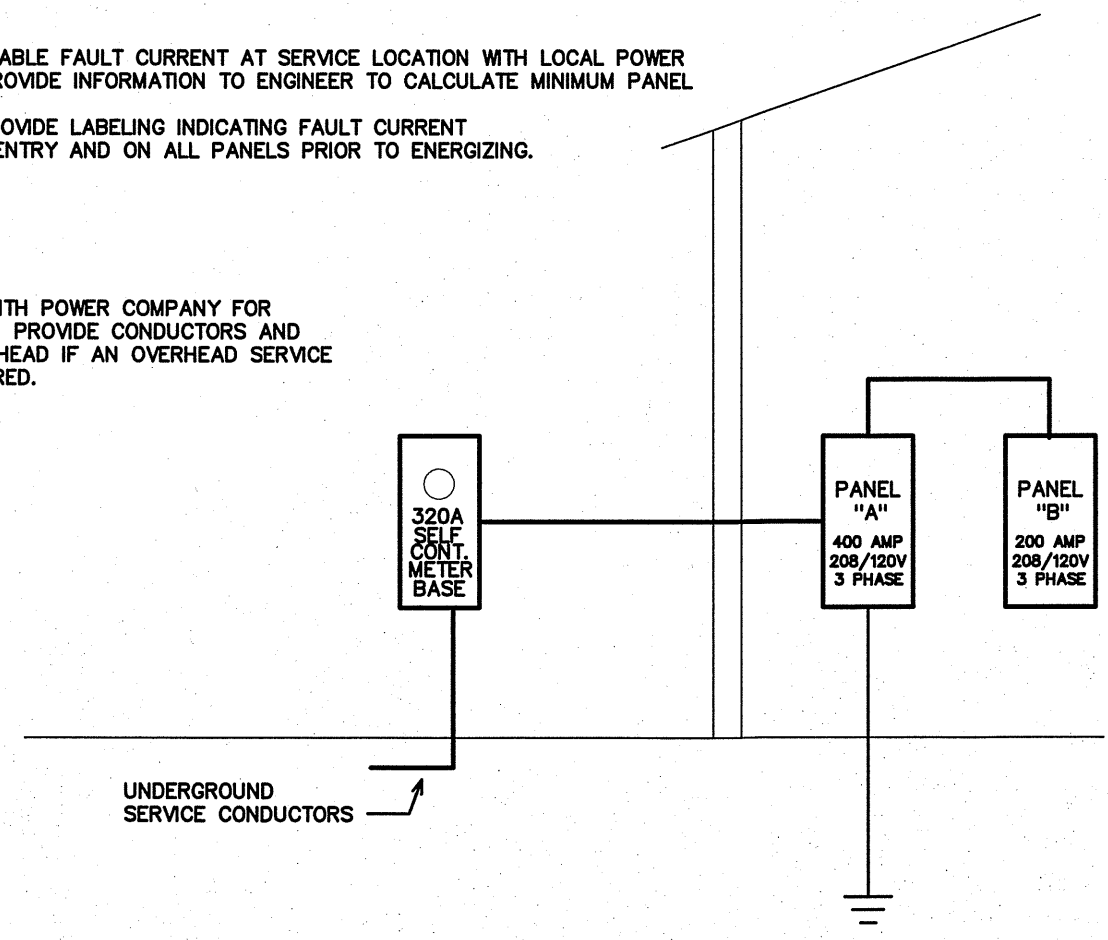
NEC ALLOWABLE DEMAND FACTORS	DIVERSIFIED LOAD SUMMARY
1 DEMAND FACTORS PER NEC 220	LOAD TYPE DEMAND FACTOR
2 LARGEST OF NEC TABLE 220.12 OR CONNECTED LOAD	GENERAL LIGHTING 125%
3 NEC TABLE 220.56	TRACK LIGHTING 125%
4 NEC 220.51	GENERAL USE RECEPTACLES 100%
5 NEC 220.43A, 200 VA/LINEAR FT	MOTORS AND EQUIPMENT 100%
6 NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED	WATER HEATERS 125%
	KITCHEN EQUIPMENT 100%
	FIX. ELEC. SPACE HEAT. 100%
	SHOW WINDOW LIGHTS 125%
	SIGN 100%
	MISC 100%
	PHASE (TOTAL VA) 28128 25781 28324
	TOTAL AMPS 218A 215A 219A

SERVICE UNITS AT OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE AVAILABLE FAULT CURRENT, THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. THE CALCULATIONS SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, OR OPERATE THE SYSTEM.

NOTE: THE ELECTRICAL SERVICE IS EXISTING AND SHOWN FOR REFERENCE ONLY. NO NEW WORK IS REQUIRED.

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING. EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.

NOTE: VERIFY WITH POWER COMPANY FOR DELIVERY. PROVIDE CONDUCTORS AND WEATHERHEAD IF AN OVERHEAD SERVICE IS REQUIRED.

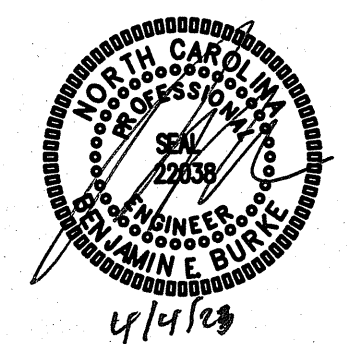


1 ELECTRICAL RISER
SCALE: NOT TO SCALE

LIFEPPOINT CHURCH PHASE 1

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No.	Description	Date

PROJECT #: 210025
DATE: 11/10/2022

PANELS AND RISER

E6.0

CBPR-096723-2023

DIVISION 15A – PLUMBING

1.1 DESCRIPTION OF THE WORK

- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
 1. Plumbing fixtures, water heaters, and any other equipment necessary.
 2. Cold and hot water piping and insulation.
 3. DWV piping.
 4. Connection of all equipment; drain, vent, water.
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards insofar as they apply.
 1. The National Electrical Code.
 2. 2018 N.C. Building Code: Plumbing, and all applicable category codes.
 3. American Society of Sanitary Engineering Standard 1010.
 4. All local codes and ordinances.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.
- D. The Plumbing Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.
- E. Obtain all permits, licenses, inspections, etc., required for the work, and pay for the same.

1.2 INTENT

- A. The intent of these specifications and accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Plumbing Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
- B. Locations shown are approximate. The Plumbing Contractor shall refer to the architectural drawings for placement of equipment, fixtures, etc. Where locations are not clear, the Contractor shall obtain the exact locations from the Architect.
- C. Coordinate all exterior piping connections w/Architect, site contractor/plans. Verify manhole elevations and provide backwater valves as required if flood level rims are below next upstream manhole cover elevation. Fixtures with flood level rims above upstream manhole shall not discharge thru bw valve. Notify engineer of backwater valve requirement, any issue prior to bid.

1.4 SHOP DRAWINGS

- A. Shop drawings shall be submitted for plumbing fixtures and for pipe. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

PART 2 – PRODUCTS

2.1 FIXTURES

- A. Each fixture shall be properly supported from the building structure as required to the end effect that all fixtures and accessories will be held rigidly in place. Water pipes supplying the fixtures must also be held rigidly in place.
- B. Provide loose key angle stops and chrome plated supply pipe water supplies to fixtures.
- C. All exposed piping traps and accessories for fixtures shall be chrome plated. Provide chrome plated escutcheon plates where pipes enter walls.
- D. Provide shutoff valves for all sinks, water heaters, toilets, washing machines, refrigerator icemaker, exterior hose bibbs and all other plumbing fixtures.
- E. Provide trap primers for all floor drains in areas not served by hose bibbs.

2.2 PIPING

- A. Drain-Waste-Vent: All DWV piping shall be Schedule 40 PVC-DWV u.o.n., with the following exceptions: Use cast iron piping in all return air plenums, penetrations of rated walls/floors/ceilings, and in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings. ABS or cast iron piping shall be used for drainage/discharge with a temperature greater than 140 deg. F for a minimum distance of 10'-0".
- B. Hot and cold water piping above grade: Type "L" copper w/solder joints (ASTM-B88), hard drawn with wrought copper fittings (ANSI B16.22). PEX piping with copper fittings may be used with owner/tenant approval and as allowed per code. Copper piping shall be used in areas/walls adjacent to cooking equipment exhaust hoods. Review Arch. and Mech. drawings.
- C. Cold water piping below grade: Type "K" copper (ASTM-B8A) soft drawn.
- D. Hangers: Use pipe hangers where required on 8-foot centers with saddles to avoid crushing insulation.
- E. Solder: 95/5. Lead free.
- F. Unions: Provide unions where indicated on drawings, in long runs of piping (except drainage) and at equipment to provide convenient disassembly. Provide dielectric unions when connecting copper tubing to equipment and piping made of ferrous materials.

2.3 CLEANOUTS

- A. Hex plugs in rough areas: Recessed plugs with cover plates in exposed locations.

2.4 SHOCK ARRESTERS

- A. Provide shock arresters as required by codes, manufacturer's recommendations and accepted industry standards for qualify construction. Provide for all quick closing valves.

PART 3 – EXECUTION

3.1 CONNECTIONS

- A. This contract includes complete connection of cold water, hot water, drainage, and vent piping as required. All fittings, valves, accessories, cutoffs, drains, etc., required to complete such connections shall be included.
- B. The connection to water closets shall be made watertight with gasket and wax ring. Floor flanges shall be caulked into position. Plastic caps shall be provided on the tie down bolts, and shall be secured in place by screwing down on threaded brass washers.
- C. Where water pipes connect to exposed chrome plated trim, use proper chrome plated escutcheons.

3.2 SERVICE ACCESS

- A. All valves and accessories shall be insulated so that they can be properly serviced. In no case shall the Plumbing Contractor install equipment or other components in situations that do not meet code requirements or manufacturer's requirements. Provide access doors as required to access valves, etc.

3.3 ROUTING OF PIPING

- A. Coordinate routing of piping with others, line up work true to or at right angle to adjacent surfaces and in a workmanlike manner. Support all interior piping from building structure by means of hanger or inserts to maintain pitch of lines, to prevent vibration, and to secure piping place.
- B. Space pipe hangers 8'-0" on center for one inch and smaller pipe, 4'-0" on center for 1-1/4 inch and larger pipe. Provide expansion loops as required.
- C. Pipe hangers for insulated lines shall have suitable saddles to protect insulation.
- D. All H/W and C/W piping shall be insulated with a min. of 1" inch elastomeric insulation (R=6.5 min.) in unconditioned areas. See NCSBC-Plumbing Sect. 305 for all protection requirements. All H/W piping of circulating systems shall be insulated with 1" insulation per Sect. C404.4 of the NCSBC 2018 Energy Conservation Code.
- E. Provide pre-fabricated insulation kits for all sink and lavatory exposed drain and supply piping.

3.5 INSPECTIONS AND TESTS

- A. Before being concealed, all water, soil and vent piping shall be tested to determine if they are water- and air-tight.
- B. Prior to placing into service, entire system shall be tested for leaks in strict accordance with state and local codes.

3.6 STERILIZATION OF PIPING

- A. Sterilize the new water piping thoroughly with a solution containing not less than 50 parts per million of available chlorine, using liquid chlorine, or sodium hydrochloride solution, introduced into the system in an approved manner. The sterilizing solution shall remain in the system in an approved manner. The sterilizing solution shall remain in the system for a period of 24 hours. After sterilization, flush the solution from the system with clean water until the residual chlorine content is not greater than 0.2 parts per million, unless otherwise directed.

3.7 SERVICE PRESSURE

- A. Provide approved water-pressure reducing valve (PRV) if service pressure exceeds 80 psi to reduce pressure to 80 psi static or less and as required per NCSBC-Plumbing Sect. 604.8.

3.8 DRAINDOWN

- A. Contractor to provide for complete plumbing system drain down.
- B. CLEAN UP
- C. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of construction, clean, wash, and/or polish all fixtures, equipment and exposed material and leave them bright and clean.

3.10 GUARANTEES

- A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.
- B. Any defects in the system which become evident during the guarantee period shall be corrected without cost to the Owner. This shall include the replacing of defective materials where required, and the repair of damage caused by leaking pipes, etc., and damage to building surfaces caused in making repairs.

GENERAL NOTES – PLUMBING

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE PLUMBING CONTRACTOR (PC) SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC).
3. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION AND ALL DISCREPANCIES OR INTERFERENCES BROUGHT TO THE ENGINEERS ATTENTION.
4. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. THE PC SHALL PROVIDE ALL MISC. ITEMS NEEDED FOR A COMPLETE SYSTEM REGARDLESS IF NOTED ON THE DRAWINGS OR NOT. FOR DIMENSIONS REFER TO ARCHITECTURAL PLANS.
5. THE GC SHALL PROVIDE ALL WALL, FLOOR AND ROOF OPENINGS OF THE SIZE AND LOCATION REQUIRED BY THE PC AND SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES. THE PC SHALL PROPERLY SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEON PLATES AT ALL FINISHED LOCATIONS.
6. ALL NEW WATER PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE, ADEQUATELY SUPPORTED AND PROTECTED AND PROPERLY PITCHED TO ALLOW TOTAL DRAINAGE.
7. ALL WATER PIPING SHALL BE HYDROSTATICALLY TESTED FOR A MINIMUM OF 15 MINUTES AT A MINIMUM OF 100 PSIG BEFORE COVERING AND ALL LEAKS CORRECTED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
8. PROVIDE MIN. 18" SHOCK ABSORBERS WITH STOPS ON ALL HOT AND COLD WATER FIXTURE RUNS AS REQUIRED BY CODE.
9. VENT LINES SHALL SLOPE UP TO ALL STACKS AND TERMINATE A MIN. OF 12" ABOVE ROOF LINE.
10. PROVIDE CUT SHEETS ON ALL PLUMBING FIXTURES FOR ARCHITECT AND OWNER APPROVAL PRIOR TO ORDERING ANY FIXTURES.
11. PROVIDE/VERIFY HIGH TEMPERATURE HOT WATER (HTHW) AT 120 DEGREES (MAX.) F. PROVIDE/VERIFY LOW TEMPERATURE HOT WATER (LTHW) AT 110 DEGREES (MAX.) F. VERIFY LTHW FROM ALL LAVATORY FAUCETS, ANY OTHER REQUIRED FIXTURES (VERIFY). PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE (TMV) WHERE REQUIRED, ASSE 1017 TMV WHERE REQUIRED, AND PER CODE WHETHER OR NOT SHOWN ON PLANS. ASSE 1070 TMV FOR LAVATORIES SHALL BE WATTS LFUSG-B 'LEAD FREE' GUARDIAN OR EQUAL.
12. PROVIDE CLEANOUTS AS REQUIRED BY CODE. NOT MORE THAN 100 FEET FOR 4" DRAIN.
13. PROPERLY SEAL ALL PIPING PENETRATIONS PER APPLICABLE PENETRATION SYSTEM DETAIL (THIS SHEET) THROUGH FIRE BARRIER WALLS/FLOORS/CEILINGS. PROVIDE CAST IRON PIPING FOR ALL DWV PIPING THROUGH FIRE BARRIERS.

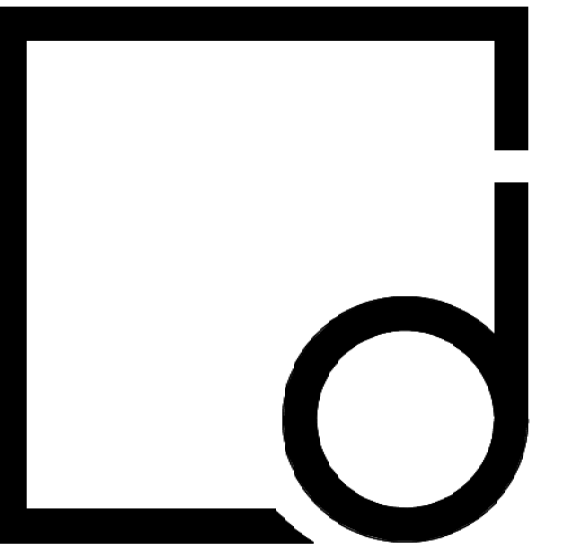
SYMBOL LEGEND – PLUMBING

SYMBOL	DESCRIPTION (U.O.N.)
—————	WASTE PIPING (W)
-----	VENT PIPING (V)
-----	COLD WATER PIPING (CW)
-----	HOT WATER PIPING (HW)
-----HTHW-----	HIGH TEMPERATURE HW PIPING (HTHW) 120 DEG. F
-----LTHW-----	LOW TEMPERATURE HW PIPING (LTHW) 110 DEG. F
○ COFF	CLEANOUT FINISH FLOOR
⊥ WCO/HCO	WALL/HORIZONTAL CLEANOUT
□ COFG	CLEANOUT FINISH GRADE
	DIELECTRIC UNION
⊗	SHUT-OFF VALVE
⊥	VENT THRU ROOF (VTR)
A.F.F.	ABOVE FINISHED FLOOR
U.O.N.	UNLESS OTHERWISE NOTED
— — — — —	1 HOUR FIRE BARRIER
⊕	CONNECTION FROM EXISTING TO NEW

FIXTURE SCHEDULE – PLUMBING *

- LAV * LAVATORY (WALL MOUNTED)
KOHLER CHESAPEAKE LAVATORY, K-1722, WHITE COLOR, ADA COMPLIANT. PROVIDE SLOAN OPTIMA #EFT-187 BATTERY OPERATED SENSOR FAUCET. PROVIDE DRAIN WITH GRID STRAINER, P-TRAP AND SHUT-OFF VALVES.
- VB * ICE MAKER VALVE BOX
OATEY VALVE BOX WITH 3/8" BRONZE SHUT-OFF VALVE. FLUSH TO WALL.

* OR APPROVED EQUAL. SUBMIT ALL ITEMS FOR APPROVAL BY TENANT AND ARCHITECT PRIOR TO ORDERING.
ALL OTHER PLUMBING FIXTURES SHOWN ARE PROVIDED BY THE TENANT AND INSTALLED BY THE PLUMBING CONTRACTOR. SEE PLANS FOR NUMBER AND LOCATION. COORDINATE ALL REQUIREMENTS WITH EQUIPMENT SERVED.



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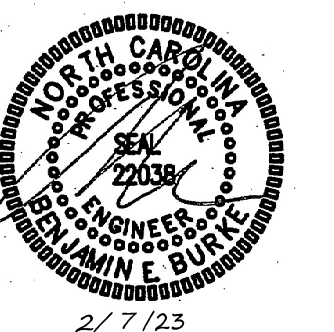
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No.	Description	Date
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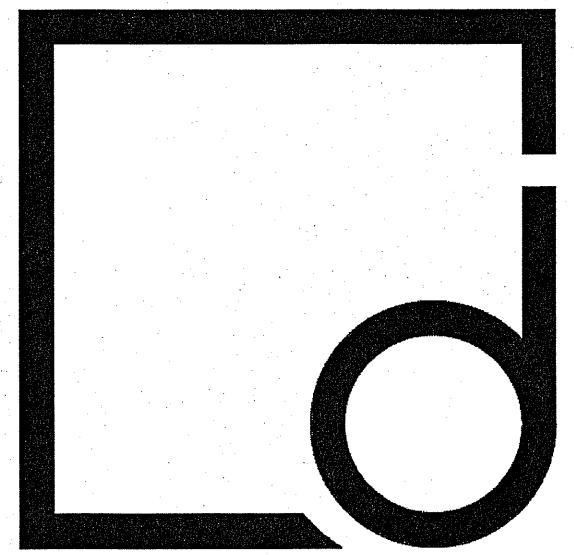
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PLUMBING SPECIFICATIONS

P1.0

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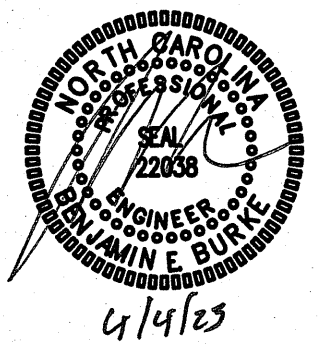
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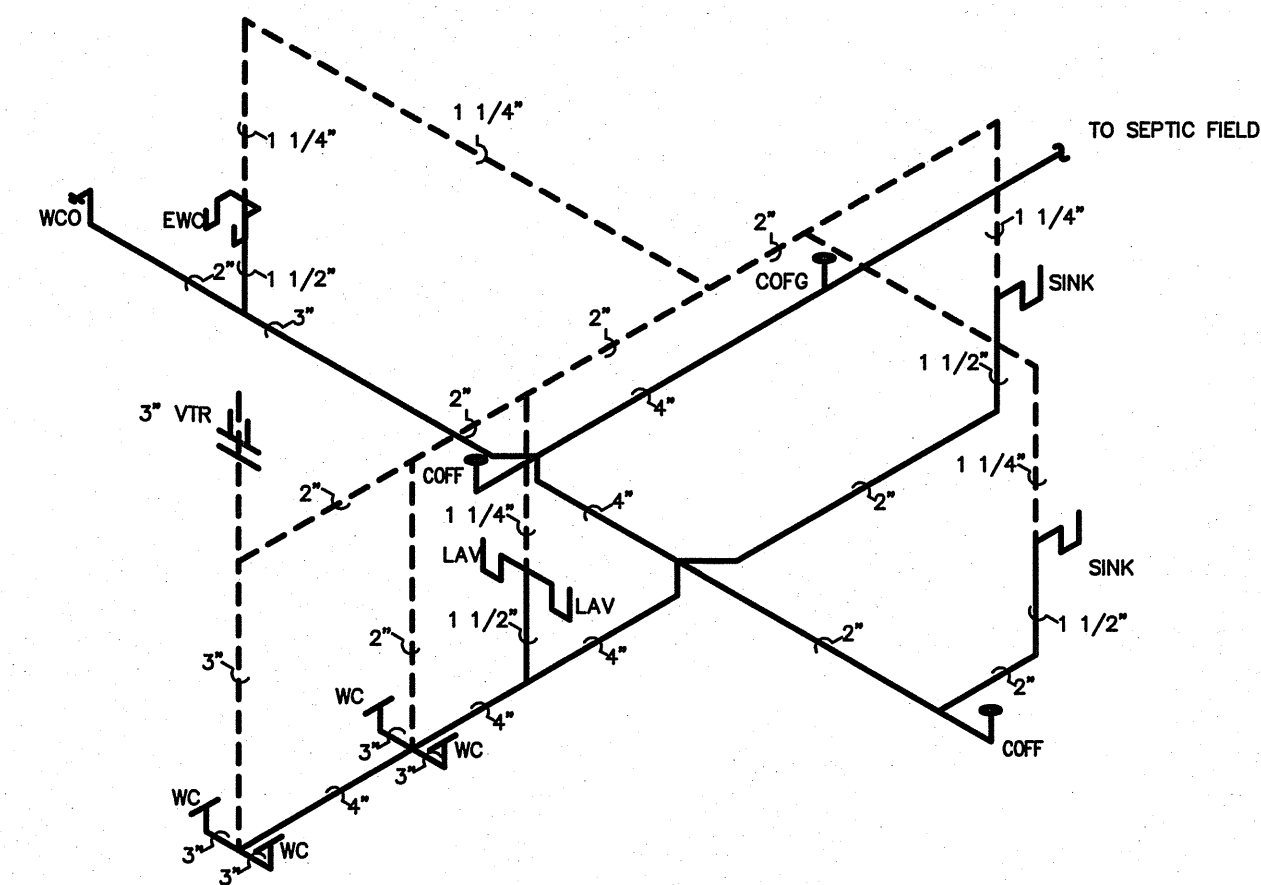
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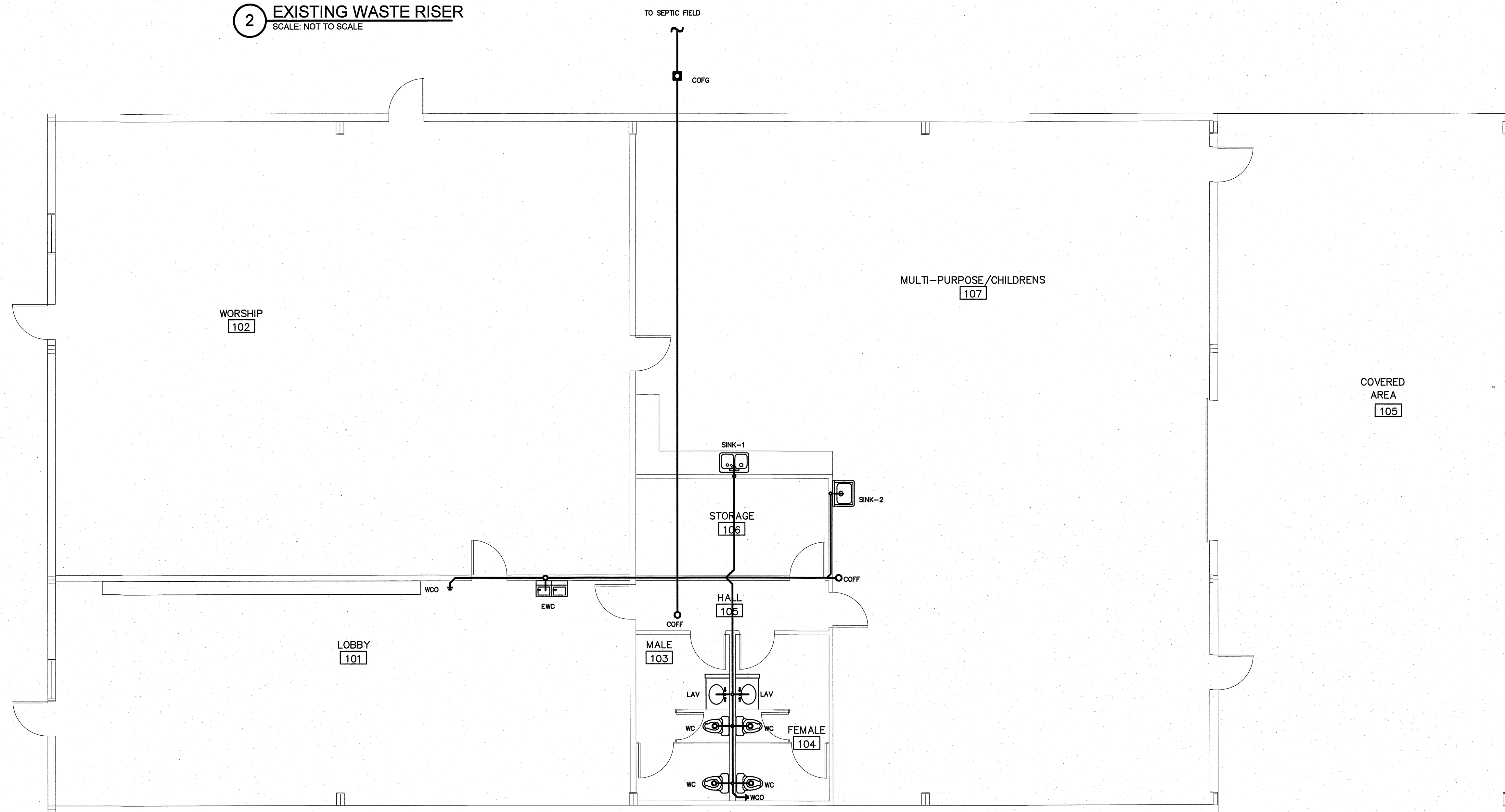
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FLOORPLAN

P2.0

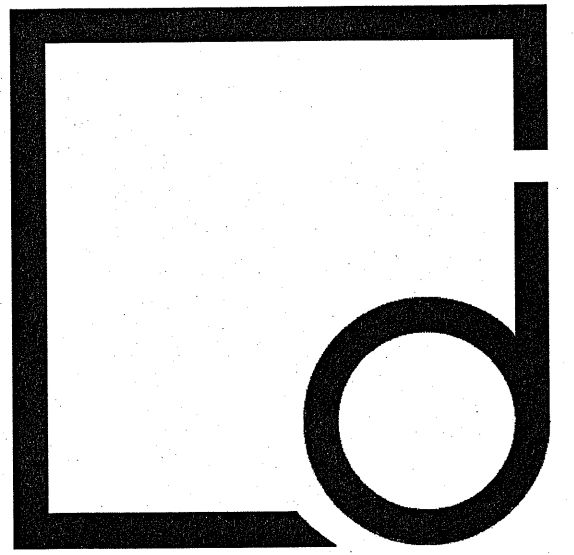


2 EXISTING WASTE RISER
SCALE: NOT TO SCALE



1 EXISTING WASTE PLAN
SCALE: 3/16" = 1'-0"

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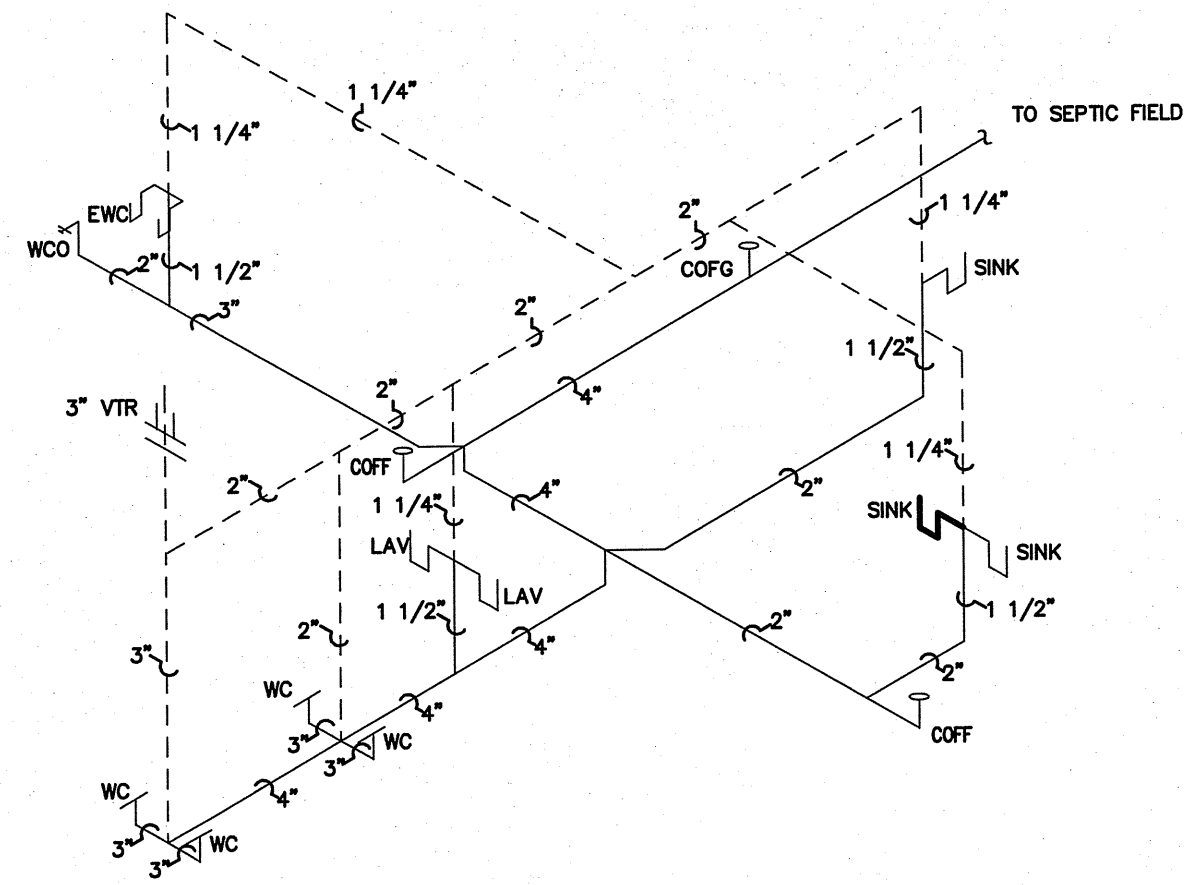
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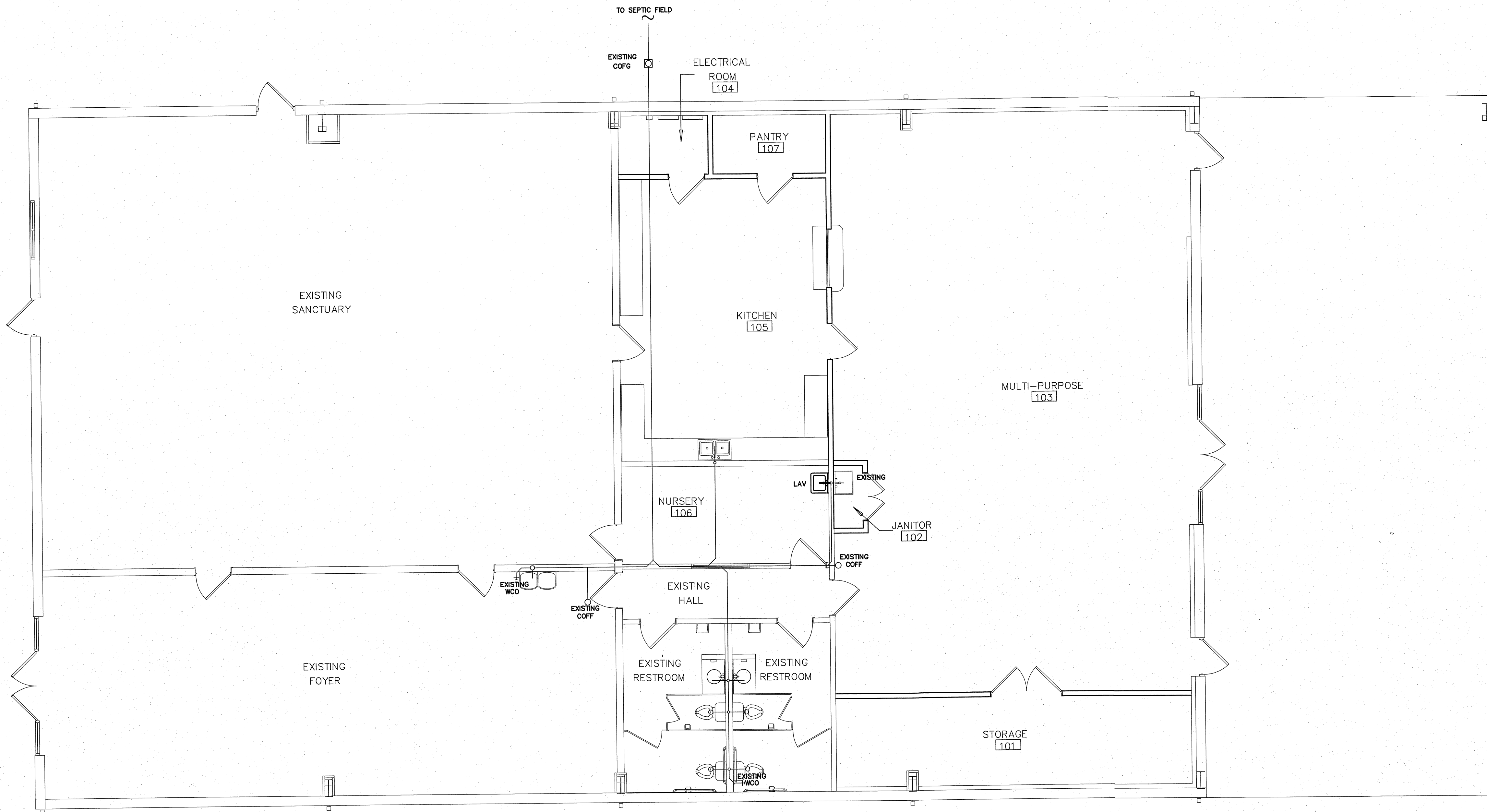
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REVISED
WASTE PLAN/ RISER

P3.0

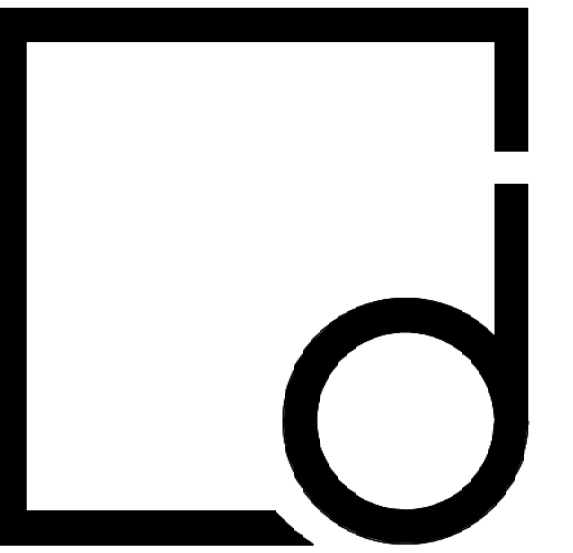


2 REVISED WASTE RISER
SCALE: NOT TO SCALE



1 REVISED WASTE PLAN
SCALE: 3/16"=1'-0"

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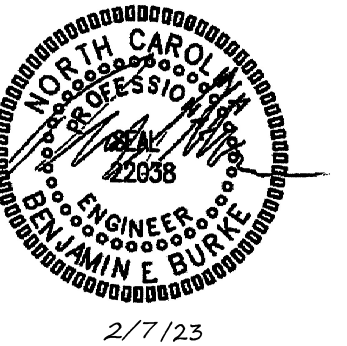
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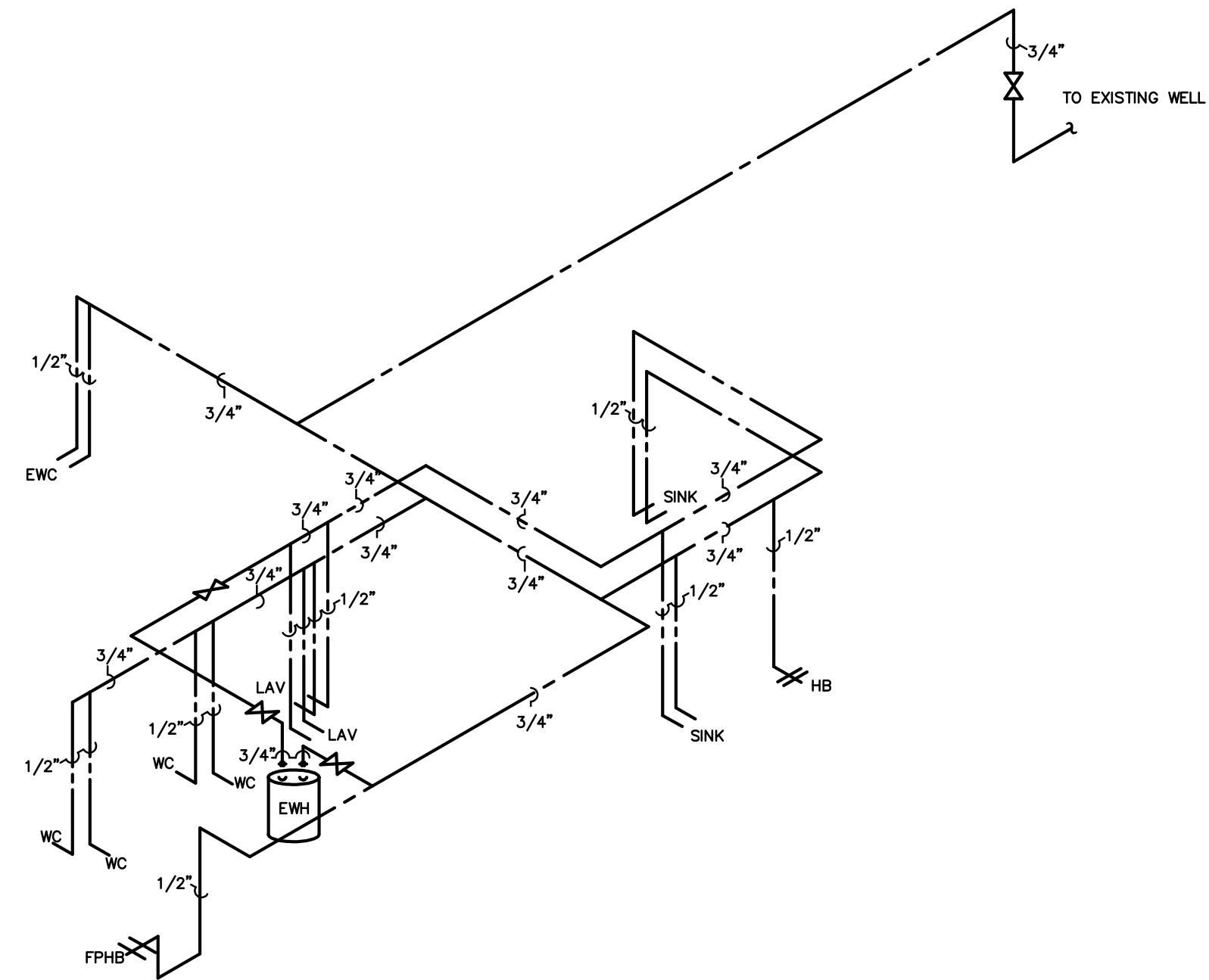
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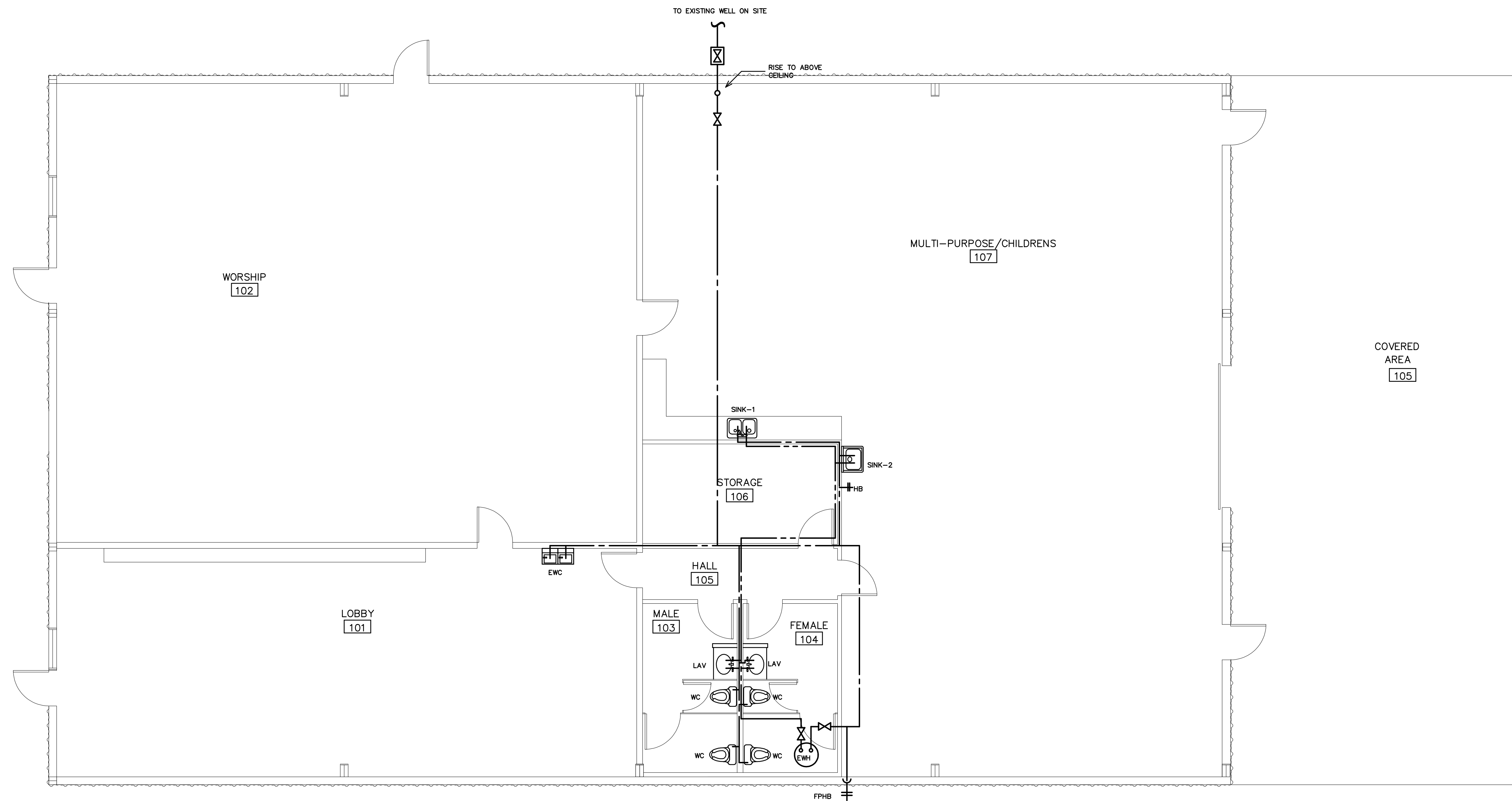
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1 EXISTING SUPPLY PLAN
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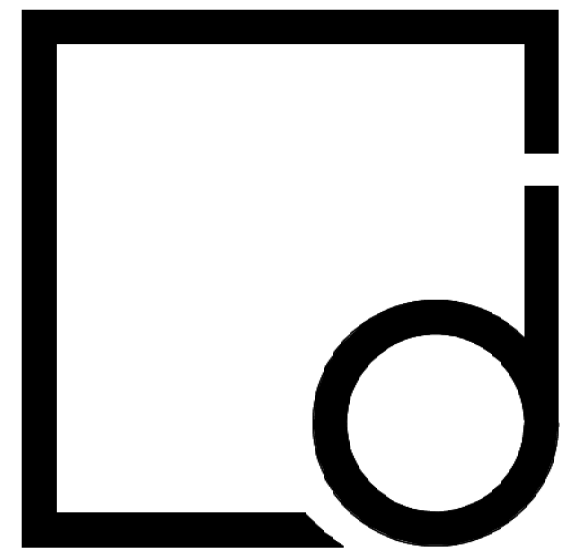
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EXISTING
SUPPLY PLAN/ RISER

P4.0



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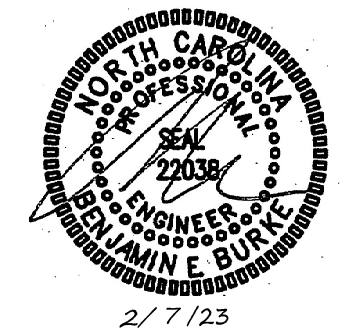
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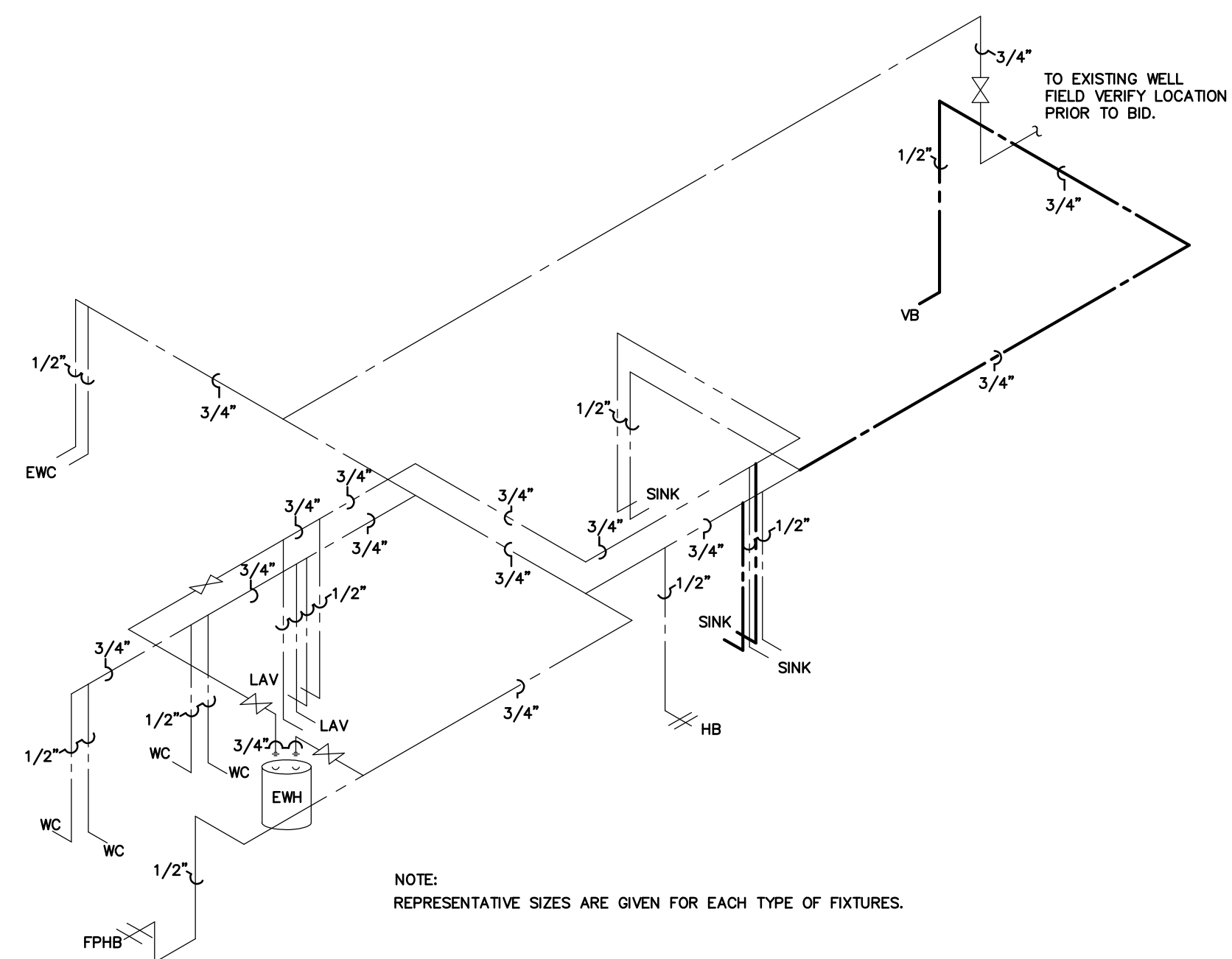
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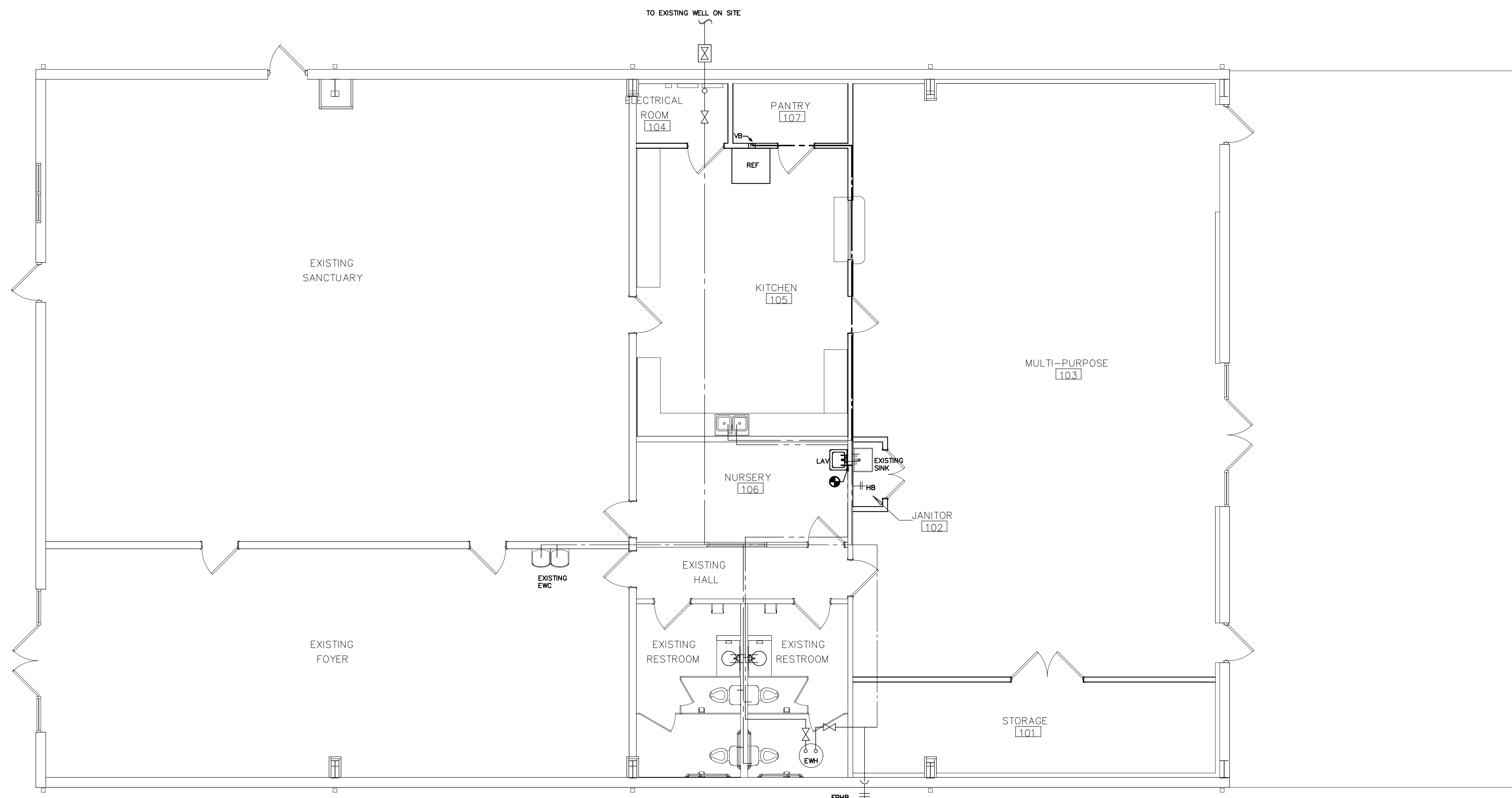
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SUPPLY PLAN/ RISER

P5.0



NOTE:
REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURES.

2 REVISED SUPPLY RISER
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1 REVISED SUPPLY PLAN
SCALE: 3/16" = 1'-0"