GENERAL NOTES

- 1. THE CONTRACT DOCUMENTS DEFINE THE DESIGN INTENT AND SCOPE OF THE WORK AND SHALL BE CONSIDERED AS A WHOLE IN DEFINING THE PROJECT. THOUGH PORTIONS OF THE WORK HAVE BEEN DIVIDED INTO DIFFERENT TRADES AS IS CUSTOMARY, REQUIREMENTS FOR EACH TRADE MAY HAVE INFORMATION PERTINENT TO THAT TRADE IN OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
- 2. THESE NOTES APPLY TO THE CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL AND OTHER CONTRACT DOCUMENTS FOR ADDITIONAL GENERAL NOTES, SCOPE, ABBREVIATIONS AND SYMBOLS.
- 3. IN CASE OF CONFLICT BETWEEN ARCHITECT'S AND ENGINEER'S DRAWINGS IN LOCATION OF MATERIALS OR EQUIPMENT, THE ARCHITECTURAL DRAWINGS SHALL GOVERN, BUT GC SHALL VERIFY WITH ARCHITECT PRIOR TO WORK.
- 4. DRAWINGS OF BASE BUILDING CONDITIONS ARE BASED ON EXISTING BUILDING DRAWINGS AND ON LIMITED FIELD OBSERVATION BY ARCHITECT. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. IF DISCREPANCIES ARE FOUND BETWEEN THE DOCUMENTS AND ACTUAL CONDITIONS AT THE SITE, NOTIFY ARCHITECT IMMEDIATELY.
- 5. IF DOCUMENTS ARE AT VARIANCE WITH ONE ANOTHER ON A PARTICULAR ITEM OR ITEMS, THE BETTER QUALITY OR MORE EXPENSIVE OF THE CONDITIONS SHALL GOVERN. ITEMS OR EQUIPMENT SPECIFIED UNDER ONE TRADE SHALL BE BINDING AS IF SPECIFIED UNDER ALL APPLICABLE TRADES.
- 6. WORK SHALL CONFORM TO LOCAL BUILDING CODES AND ORDINANCES AND OTHER AGENCIES HAVING JURISDICTION. ADHERE TO OSHA RULES AND REGULATIONS.
- 7. MAINTAIN FOR ENTIRE LENGTH OF THE WORK EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES AND ALARMS TO CONFORM TO LOCAL BUILDING CODE REQUIREMENTS.
- 8. PROVIDE BRACING AND PROTECT EXISTING WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTION, AND/OR MISALIGNMENT IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, AND GOOD PRACTICE.
- 9. PERFORM WORK SO AS TO NOT UNDERMINE THE STRUCTURAL INTEGRITY OF THE BUILDING.
- 10. PROVIDE INTERIOR FINISH MATERIALS PER CODE REQUIREMENTS FOR FLAME SPREAD / SMOKE DEVELOPED PER LIMITS NOTED ON CODE ANALYSIS BASED ON ASTM E-84 TEST METHOD. COMPLETELY COVER FOAMED PLASTIC INSULATION (URETHANE, POLYSTYRENE, POLYISOCYANURATE OR OTHER TYPE) WITH A MINIMUM 1/2 INCH THICKNESS OF GYPSUM WALLBOARD. PROVIDE CEILINGS AND INSULATION ABOVE CEILINGS THAT ARE NON-COMBUSTIBLE.
- 11. PROVIDE WOOD MATERIALS TO MEET APPLICABLE CODES. BLOCKING SHALL BE FIRE RETARDANT TREATED WOOD WHERE REQUIRED IN ACCORDANCE WITH LOCAL BUILDING CODES.
- 12. PATCH ANY SURFACES WHERE DAMAGED IN THE PERFORMANCE OF WORK IN A MANNER SUITABLE TO RECEIVE SCHEDULED FINISHES AND TO MATCH ADJACENT NON-DAMAGED SURFACES, AND TO NOT BE APPARENT FROM WITHIN 3' OF SURFACE.

- 13. ISOLATE DISSIMILAR METALS FROM EACH OTHER TO AVOID MOLECULAR BREAKDOWN.
- 14. PROVIDE STIFFENERS, BRACINGS, BACKING PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE PROPER INSTALLATION OF CASEWORK, AS WELL AS WALL-MOUNTED OR SUSPENDED MECHANICAL, ELECTRICAL AND/OR MISCELLANEOUS EQUIPMENT WHETHER SHOWN OR NOTED.
- 15. WHETHER OR NOT EXPLICITLY INDICATED, PROVIDE SAFETY GLAZING WHEN GLAZING IS WITHIN 18" OF FLOOR OR WITHIN 3'-0" HORIZONTAL DISTANCE FROM ANY DOOR. SUPPLY A CERTIFICATE TO ACCOMPANY GLAZING PRODUCTS STATING THAT PRODUCTS CONFORM TO APPLICABLE CONSUMER PRODUCT SAFETY STANDARDS. COORDINATE LOCATION OF PERMANENT STAMPS ON GLASS WITH ARCHITECT.
- 16. APPLY, INSTALL, CONNECT, ERECT, CLEAN, AND CONDITION MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS. IN CASE OF CONFLICT BETWEEN MANUFACTURER'S INSTRUCTIONS AND CONTRACT DOCUMENTS, OBTAIN WRITTEN CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING
- 17. ANY WORK NOTED "BY OTHERS" OR "NIC" WILL BE PROVIDED BY OWNER OR UNDER SEPARATE CONTRACT. COORDINATE AND SCHEDULE THIS WORK WITH OWNER AND OWNER'S SEPARATE CONTRACTORS TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
- 18. DRAWINGS AT A LARGER SCALE TAKE PRECEDENCE OVER DRAWINGS AT SMALLER SCALE. WHERE INCONSISTENCIES ARE FOUND IN THE DRAWINGS, REQUEST CLARIFICATION FROM ARCHITECT PRIOR TO PROCEEDING.
- 19. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT OF REQUIRED CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- 20. FINISH FLOOR ELEVATIONS ARE TO TOP OF FINISH, UNLESS OTHERWISE NOTED.
- 21. PRIOR TO FINAL FINISHING, PATCH AND REPAIR PARTITIONS TO A SMOOTH CONDITION.
- 22. PROVIDE METAL BACKING PLATES OR SOLID WOOD BLOCKING (FIRE TREATED) IN PARTITIONS FOR MILLWORK AND WALL ATTACHED ITEMS. COORDINATE PLACEMENT OF BLOCKING FOR MILLWORK PRIOR TO CLOSING WALLS.
- 23. GC SHALL PROVIDE INTERIOR SIGNAGE FOR ALL REQUIRED ROOMS WITHIN PROJECT SCOPE
- 24. GC SHALL PROVIDE FIRE EXTINGUISHERS AT LOCATIONS DESIGNATED BY LOCAL FIRE OFFICIAL.

Covered Patio Enclosure Renovation Efland Cheeks Community Center

GENERAL FINISH NOTES

- 1. LOCATE FLOOR FINISH TRANSITIONS AT CENTERLINE OF DOOR, UNLESS OTHERWISE NOTED. NOTE TRANSITIONS INDICATED ON FINISH PLANS.
- 2. PAINT REVEALS AND FILLER STRIPS TO MATCH ADJACENT PARTITION FINISH, UNLESS OTHERWISE NOTED.
- 3. WHERE NEW PAINTED SURFACES ADJOIN EXISTING SURFACES, ADEQUATELY MASK EXISTING SURFACES TO PREVENT OVER-PAINT.
- 4 WHERE EXISTING PARTITIONS ARE AFFECTED BY NEW WORK, REFINISH GYPSUM WALLBOARD TO MATCH ADJACENT NON-AFFECTED WORK. EXTEND REFINISHING FROM CORNER OF WALL TO CORNER OF WALL FULL HEIGHT. PROVIDE NEW BASE AND WALL FINISHES TO MATCH. COORDINATE WITH BUILDING MANAGEMENT FOR ATTIC STOCK. WHERE FLOOR FINISHES ARE AFFECTED, PROVIDE NEW FLOORING TO MATCH EXISTING FLOORING TO REMAIN. PATCHING SHALL NOT BE EVIDENT WHEN REVIEWED FROM A STANDING POSITION.
- 5. PROVIDE THE FOLLOWING PAINT SHEENS:
- GYPSUM WALLBOARD CEILINGS: FLAT GYPSUM WALLBOARD PARTITIONS: EGGSHELL WOOD TRIM, FRAMES AND DOORS:

WHICH SHALL BE AS SPECIFIED AND BLIND DOORS WHICH SHALL MATCH ADJACENT PARTITION, WHERE APPLICABLE.

- 6. USE PRIMER COMPATIBLE WITH SUBSTRATE TO BE PAINTED AND APPLY FINAL FINISH COAT AS RECOMMENDED BY MANUFACTURER TO MATCH ARCHITECT SPECIFIED FINISH. TINT PRIME COAT TOWARD FINAL COLOR.
- ROLL APPLY PAINT TO GYPSUM BOARD. SPRAY APPLICATION IS NOT ACCEPTABLE. 8. SPRAY-APPLY PAINT TO METAL SURFACES UNLESS OTHERWISE NOTED OR
- APPROVED BY ARCHITECT. 9. PAINT AND FINISH EXPOSED SURFACES UNLESS OTHERWISE NOTED. PAINT
- SURFACES BEHIND REMOVABLE EQUIPMENT/ FURNITURE. PAINT BEHIND NON-REMOVABLE ITEMS WITH PRIME COAT ONLY.
- 10. UNLESS OTHERWISE NOTED, LAY RESILIENT TILE FROM CENTER MARKS ESTABLISHED WITH PRINCIPAL WALLS, DISCOUNTING MINOR OFFSETS, SO THAT TILE AT OPPOSITE EDGES OF THE ROOM ARE EQUAL WIDTH. ADJUST AS NECESSARY TO AVOID USE OF CUT WIDTHS LESS THAN 3" WIDE AT ROOM PERIMETERS. LAY TILE SQUARE TO HALLWAY AXES, UNLESS OTHERWISE NOTED.
- 11. MATCH RESILIENT TILES FOR COLOR AND PATTERN BY USING TILE FROM CARTONS IN SAME SEQUENCE AS MANUFACTURED AND PACKAGED. BROKEN, CRACKED, CHIPPED OR DEFORMED TILE WILL NOT BE ACCEPTABLE.
- 12. LAY RESILIENT TILE DIRECTIONAL GRAIN PATTERN AS DIRECTED BY ARCHITECT.
- 13. GRILLES, PLATES, DIFFUSERS, AND OTHER ITEMS OCCURRING IN WALLS OR CEILING SHALL BE PAINTED TO MATCH SURFACES ON WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
- 14. PRIME METAL SURFACES PRIOR TO PAINTING.
- 15. DO NOT SEAM WALLCOVERING IN MIDDLE OF WALLS OR COLUMNS.
- 16. LEVEL FLOOR THAT EXCEEDS 1/4" VARIANCE IN A 10'-0" RADIUS.

SUBMITTALS FOR ARCHITECT AND OWNER'S REVIEW

DOORS, DOOR HARWARE, WINDOWS, PLUMBING FIXTURES, TOILET ROOM ACCESSORIES, FLOORING, & VINYL BASE

SCOPE OF WORK

SCOPE OF WORK INVOLVES THE ENCLOSURE OF AN EXISTING COVERED PATIO WHICH IS ATTACHED TO THE REAR SIDE OF A COMMUNITY CENTER BUILDING. THE ADDITION ADDS 336 SF OF CONDITIONED SQUARE FOOTAGE TO THE EXISTING BUILDING, BRINGING THE TOTAL CONDITIONED SQUARE FOOTAGE OF THE BUILDING TO 3,091 SF.

AN ADD ALTERNATE PROPOSES TO ADD AN ADDITIONAL OFF THE COVERED PATIO ENCLOSURE OF 93 SF OF CONDITIONED SQUARE FEET

ABBREVIATI	ONS
AFF	ABOVE FINISHED FLOOR
BO	BOTTOM OF
DN	DOWN
DS	DOWNSPOUT
EQ	EQUAL
EXIST	EXISTING
FIN. FL.	FINISHED FLOOR
GB	GRAB BAR
GWB	GYPSUM WALLBOARD
MC	MEDICINE CABINET
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PKT	POCKET DOOR
PT	PRESSURE TREATED
PTD	PAINTED
RO	ROUGH OPENING
SIM	SIMILAR
STD	STAINED
TBD	TO BE DETERMINED
TME	TO MATCH EXISTING
TO	TOP OF
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD

DOOR SCHEDULE

NO		THICKNESS	MATERIAL	ΤΥΡΕ	Frame	HARDWR	REMARKS
NO.	(W x H)	1.0.(4)					
1	Pair 3'-0"	1 3/4"	Wood/Glass	Full-	Metal	See	Tempered glass. Ball bearing hinges. Push pull
	X			lite		remarks	plates with 8" on center pulls. Kick plates.
	6'-8"						Door closers
2	3'-0" x	1 3/4"	Metal	Full-	Metal	See	Ball bearing hinges. Door closer (non-hold
	6'-8"			lite		remarks	open). Rim panic bar x outside lever passage
							(no key)
3	Pair 3'-0"	1 3/4"	Solid Core	Flush	Wood		
	x		Wood				
	6'-8"						
4	+/- 2'-0" x	Exist.	Exist.	Exist.	Wood		Existing door. Rehang in new opening.
	+/- 2'-4"						
5	+/- 3'-0" x	Exist.	Exist.	Exist.	Wood		Existing door. Rehang in existing opening.
	+/- 6'-8"						Rebuild frame as needed.
Add-Alter	nate Doors						
6	Pair 2'-0"	1 3/4"	Solid Core	Flush	Wood		Confirm in field that height of doors will work
	x +/- 5'-0"		Wood				in opening
7	Pair 3'-0"	1 3/4"	Wood/Glass	Full-	Metal	See	Tempered glass. Ball bearing hinges. Push pull
	x			lite		remarks	plates with 8" on center pulls. Kick plates.
	6'-8"						Door closers

- 1. Hardware finish to match existing.
- Per ANSI A117.1-2009 4. Door handles, pulls, latches, locks, and other operating devices on doors shall not require tight grasping, tight
- 404.2.6

WINDOW SCHEDULE						
Mark	Mfr. &	Frame Size W x H	Exterior	Interior	Glazing	Misc.
	Model #		Finish	Finish		
А	Marvin Elevate	2'-9 1/2" x	White	Painted	Low-E	White hardware
	Double Hung	5'-3 3/4"		White		screen, no exterior trim
	ELDH 3464					

Bret Horton Architect

1308 Broad Street
Durham, NC 27705
919.619.2258





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2. Doors and doorways shall be ADA compliant and comply with ANSI A117.1-2009 section 404.

3. The difference in finished floor elevation on one side of a door and another must be no more than 1/2". A 1/4" difference is preferred. Changes in elevation greater than 1/4" and not more than 1/2" max. Shall be beveled with a slope not steeper than 1:2.

Pinching or twisting of the wrist to operate. Provide lever handle hardware unless noted otherwise. Per ANSI A117.1-2009 section

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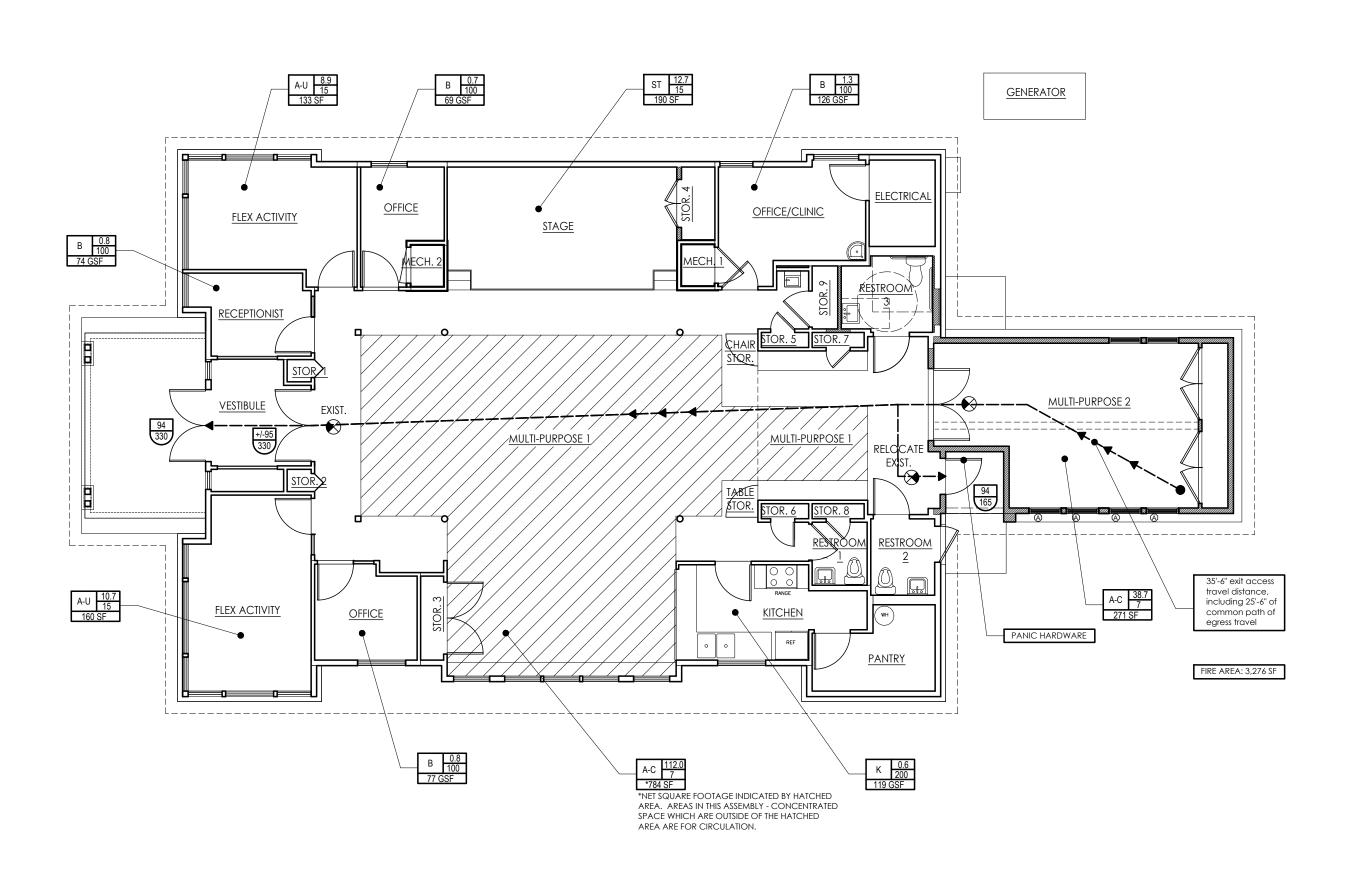
Bid Documents

For Construction

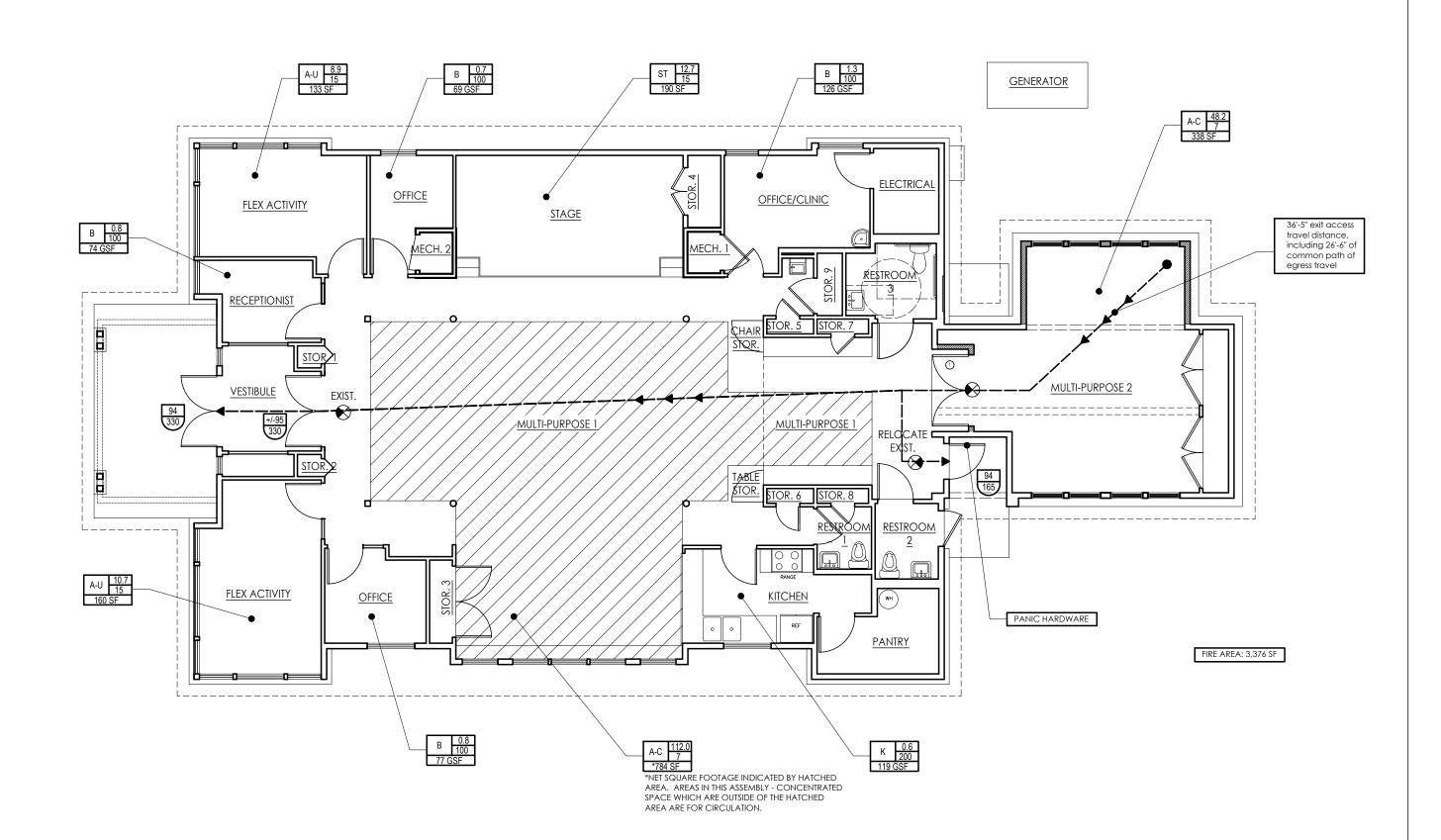
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DATE	SHEET
7.16.24	
SCALE	
AS NOTED	AO
DRAWN	AU
BH	
PROJECT NUMBER	

A0	COVER SHEET
A1	LIFE SAFETY PLANS
A2	SITE PLAN
A3	DEMOLITION PLAN
A4	FLOOR PLAN
A5	EXTERIOR AND INTERIOR ELEVATIONS
A6	ADD-ALTERNATE ADDITION
STRU	CTURAL
S1	FOUNDATION, CEILING, AND ROOF FRAMING PLANS
PLUN	1BING
P1	PLUMBING FLOOR PLANS & RISERS
P2	PLUMBING DETAILS
MEC	HANICAL
M1	HVAC FLOOR PLAN
M2	hvac details
ELEC	TRICAL
E1	ELECTRICAL COVER SHEET
E2	LIGHTING PLANS
E3	POWER PLANS
E4	RISER & SCHEDULES
FIRE /	ALARM
FA1	FIRE ALARM COVER SHEET
FA2	FIRE ALARM PLANS







2 LIFE SAFETY PLAN - FOR ADD ALTERNATE ADDITION A1 1/8" = 1'-0"

LIFE SAFETY LEGEND - FUNCTION OF SPACE/EGRESS FUNCTION OF SPACE LEGEND: B BUSINESS AREAS A-C ASSEMBLY - CONCENTRATED (CHAIRS ONLY - NOT FIXED) A-U ASSEMBLY - UNCONCENTRATED (TABLES AND CHAIRS) K KITCHENS ST STAGES AND PLATFORMS X EGRESS DOOR SYMBOL XXX X-# X X,XXX SF ROOM OCCUPANCY SYMBOL AREA F.E.C. FIRE EXTINGUISHER CABINET exit sign \otimes (HATCHED TRIANGLE INDICATES DIRECTION OF DIRECTIONAL INDICATORS FOR SIGN) MAXIMUM TRAVEL DISTANCE **•**-----(MEASURED IN FEET) PATH OF EGRESS **____**►

ACTUAL OCCUPANT LOAD OF OPENING ALLOWABLE OCCUPANT LOAD OF OPENING. - NOTE: CLEAR OPENING ASSUMED TO BE 3" LESS THAN DOOR WIDTH - FUNCTION OF SPACE - OCCUPANT LOAD - ALLOWABLE AREA PER OCCUPANT

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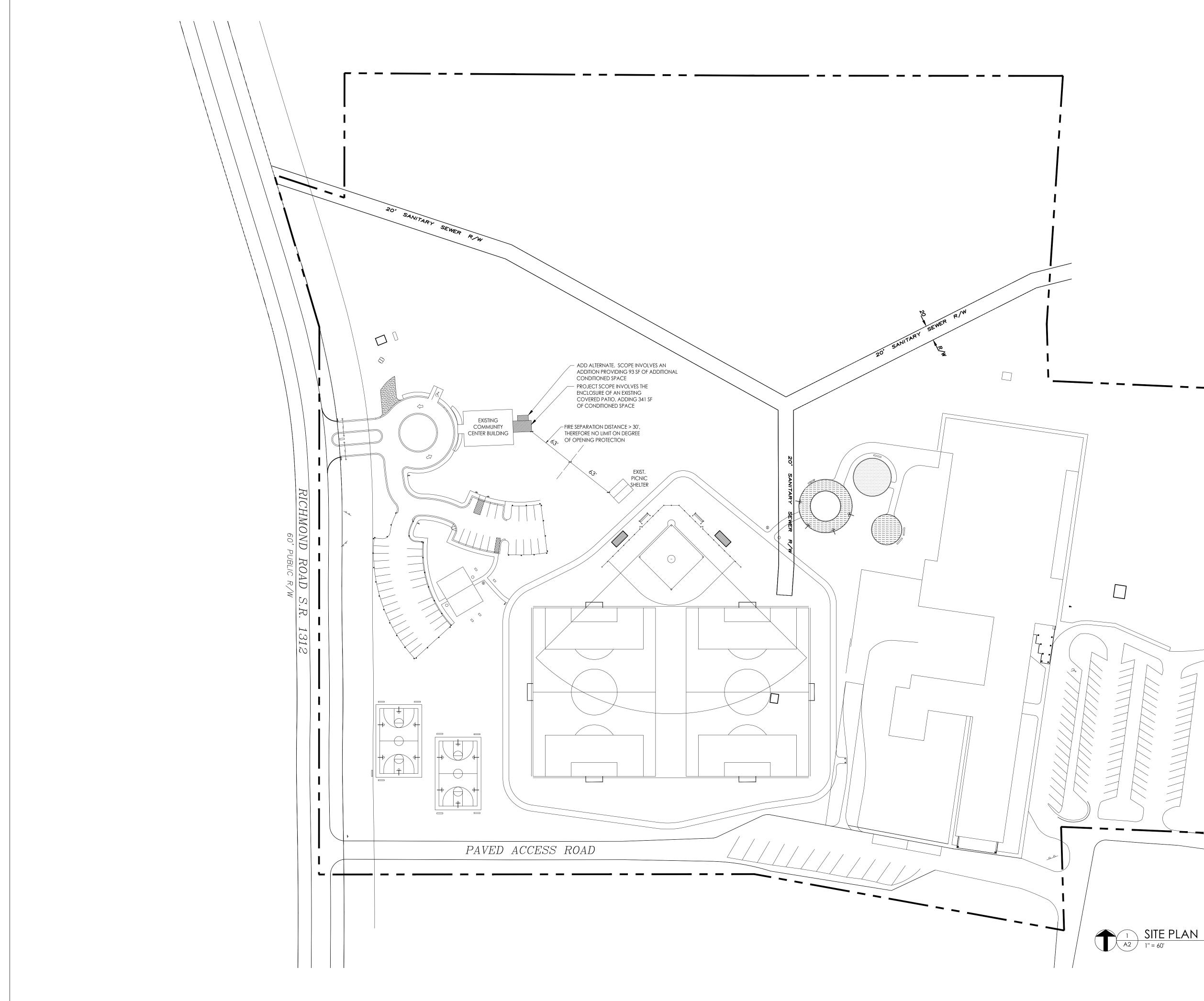
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REVISIONS		
NO.	DATE	

LIFE SAFETY PLANS DATE 7.16.24 SCALE AS NOTED DRAWN ΒH

SHEET **A1**

PROJECT NUMBER



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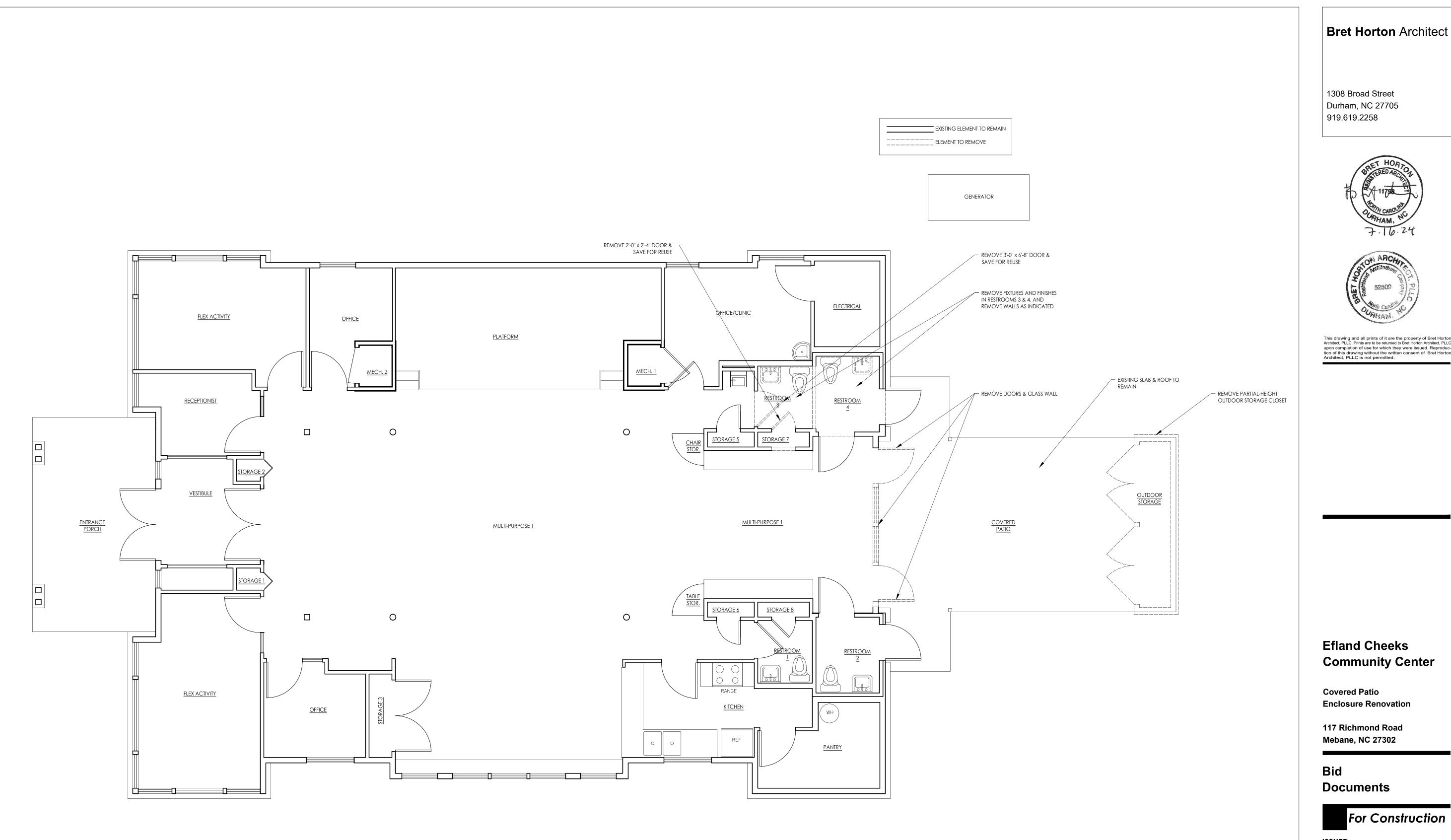
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For Construction

ISSUED

REVISIONS		
NO.	DATE	

SITE PLAN DATE SHEET 7.16.24 SCALE AS NOTED DRAWN BH PROJECT NUMBER



1 DEMOLITION PLAN A3 1/4" = 1'-0"

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NO.	DATE	

DEMOLITION PLAN

DATE 7.16.24 SCALE AS NOTED DRAWN BH PROJECT NUMBER

A3

SHEET

DIMENSION & FRAMING NOTES

1. DO NOT SCALE DRAWINGS, CONTACT ARCHITECT CONCERNING DISCREPANCIES

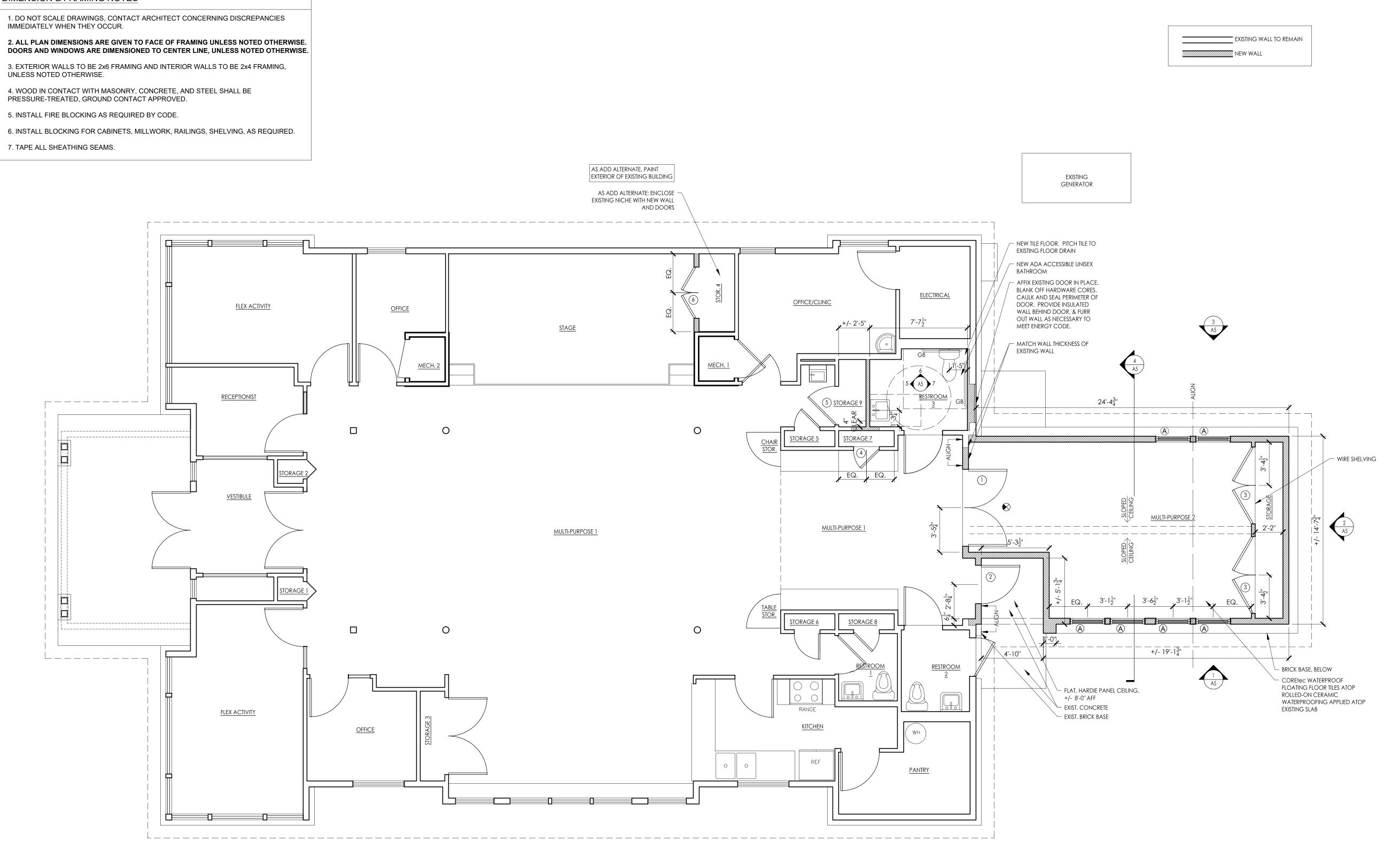
2. ALL PLAN DIMENSIONS ARE GIVEN TO FACE OF FRAMING UNLESS NOTED OTHERWISE.

3. EXTERIOR WALLS TO BE 2x6 FRAMING AND INTERIOR WALLS TO BE 2x4 FRAMING,

4. WOOD IN CONTACT WITH MASONRY, CONCRETE, AND STEEL SHALL BE

6. INSTALL BLOCKING FOR CABINETS, MILLWORK, RAILINGS, SHELVING, AS REQUIRED.

7. TAPE ALL SHEATHING SEAMS.



1 FLOOR PLAN A4 1/4" = 1'-0"

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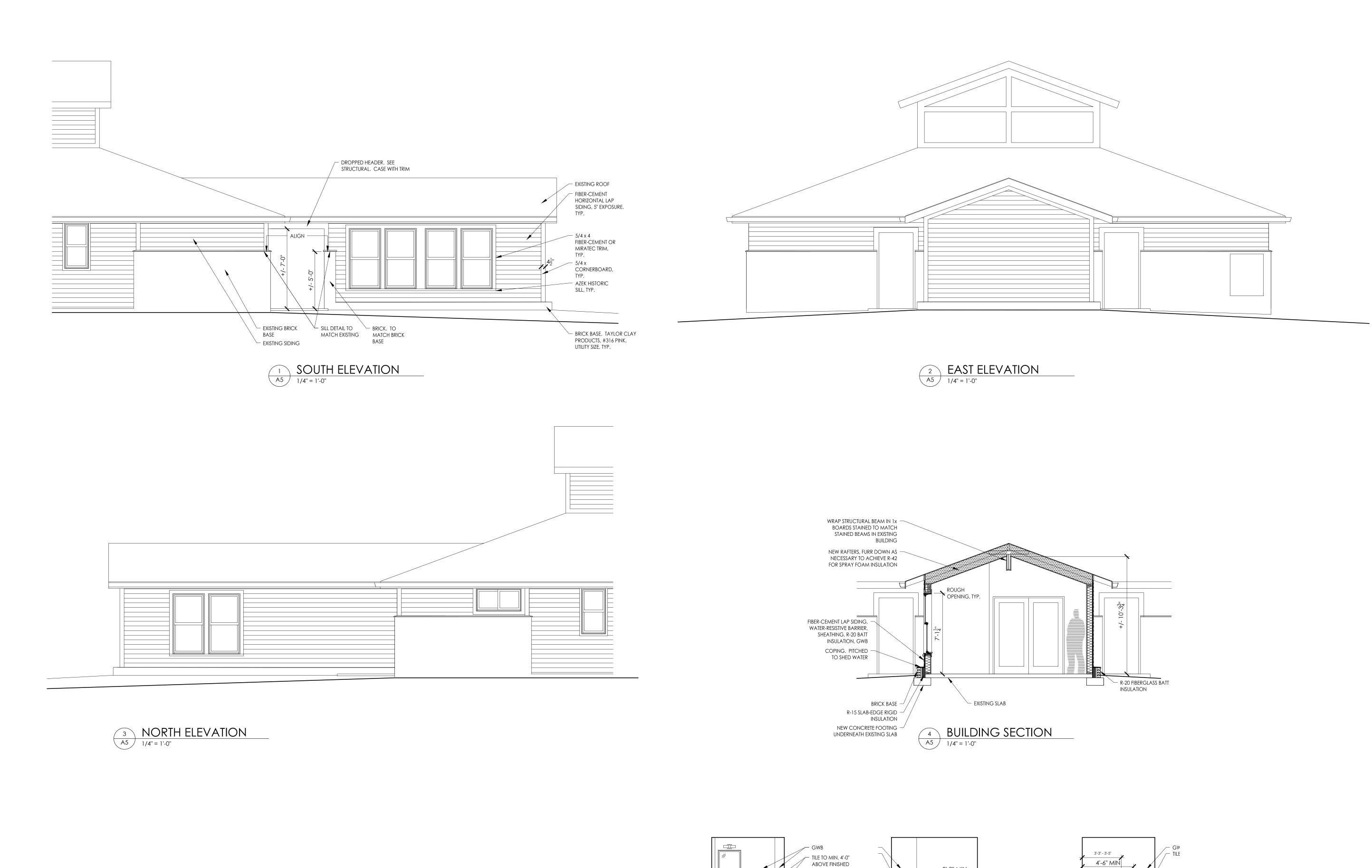
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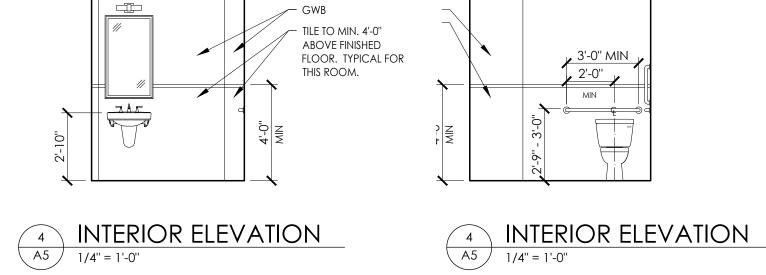
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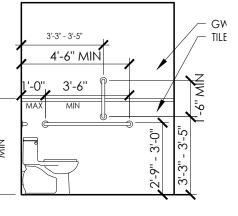
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FLOOR PLAN DATE SHEET 7.16.24 SCALE **A4** AS NOTED DRAWN ΒH

PROJECT NUMBER







4 INTERIOR ELEVATION A5 1/4" = 1'-0"

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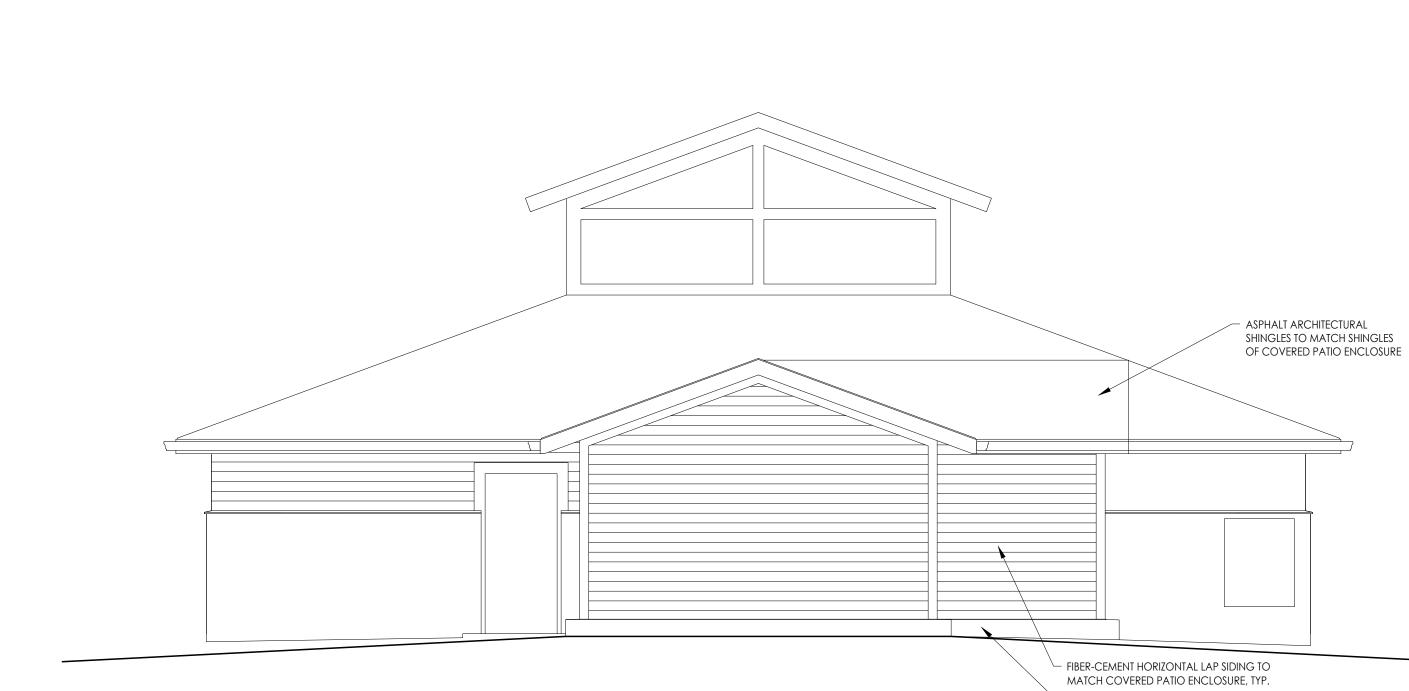
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EXTERIOR & INTERIOR ELEVATIONS DATE SHEET 7.16.24 SCALE AS NOTED DRAWN

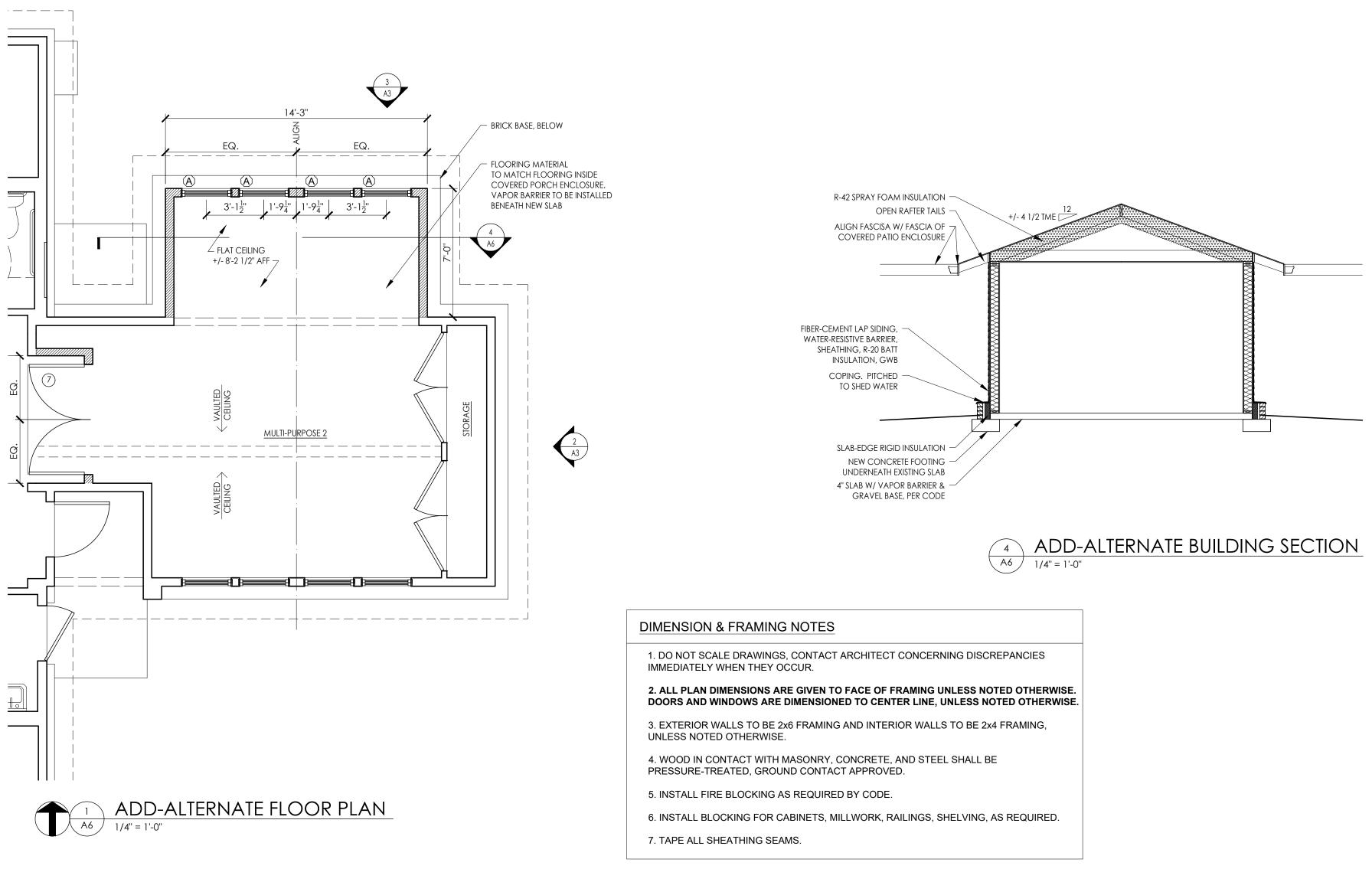
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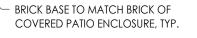
BH

A5













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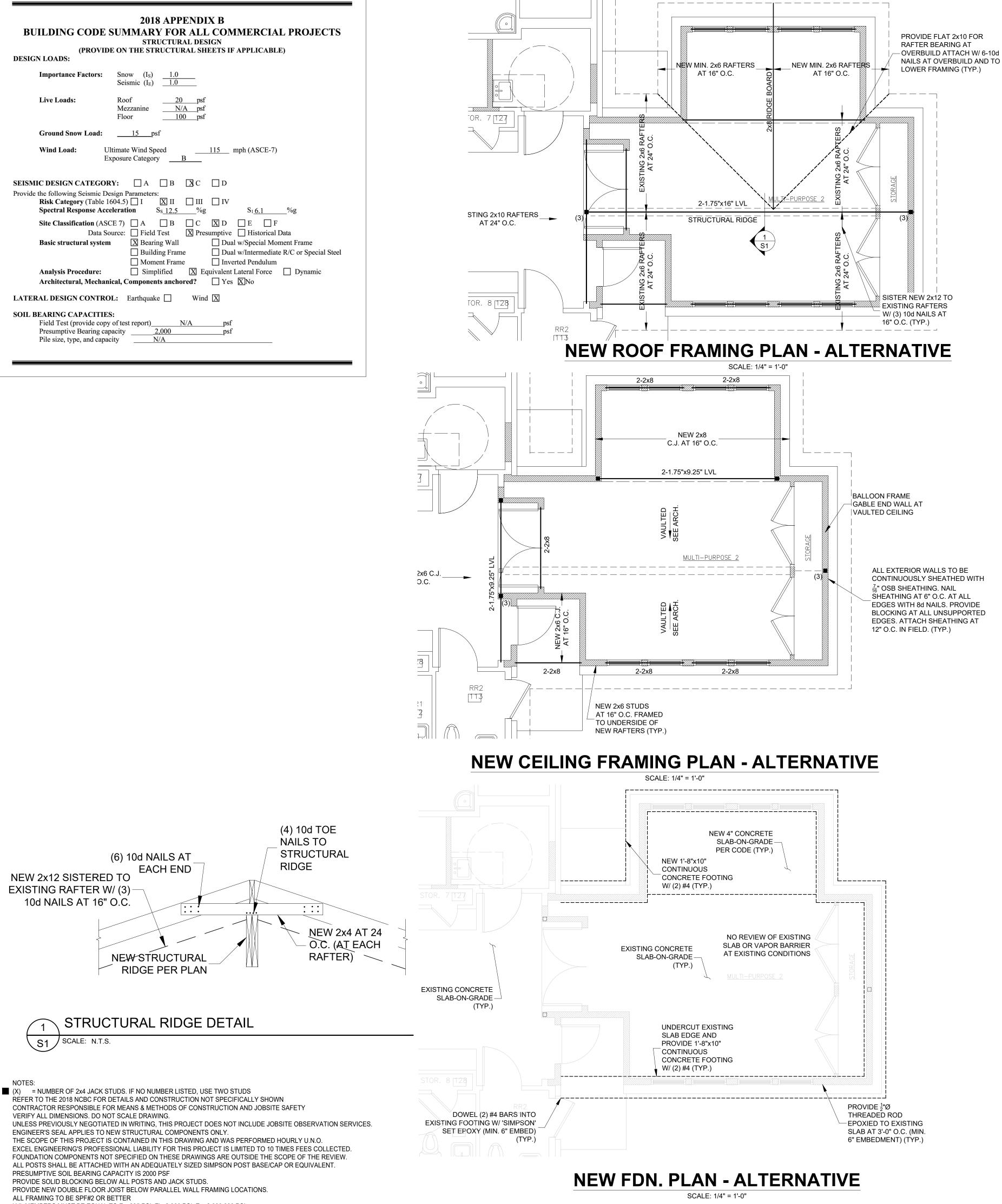
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For Construction

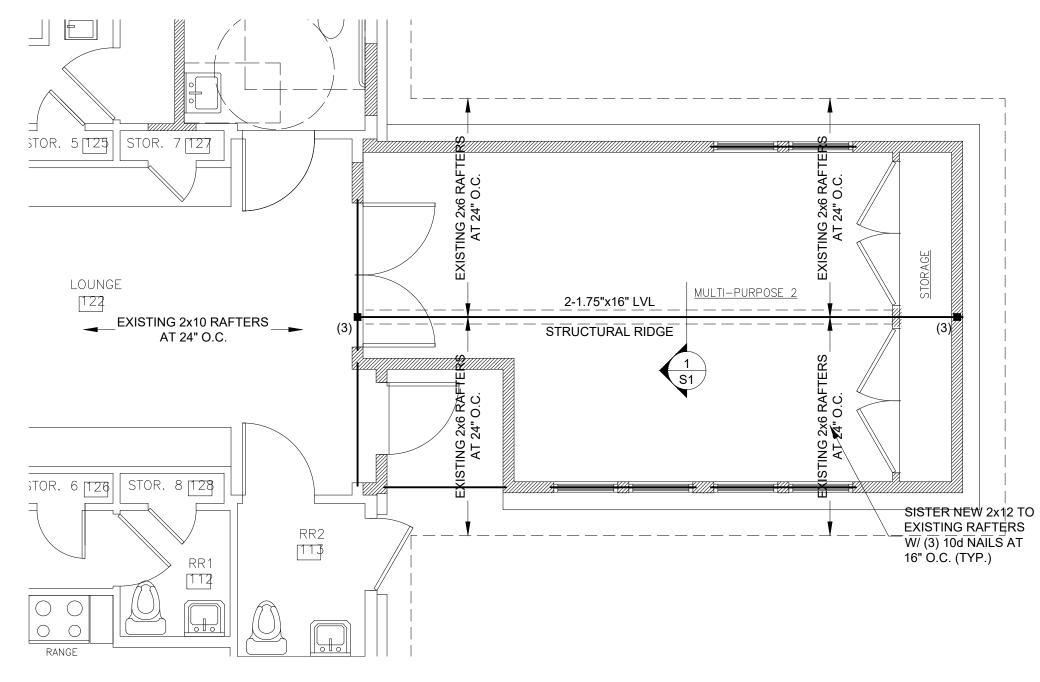
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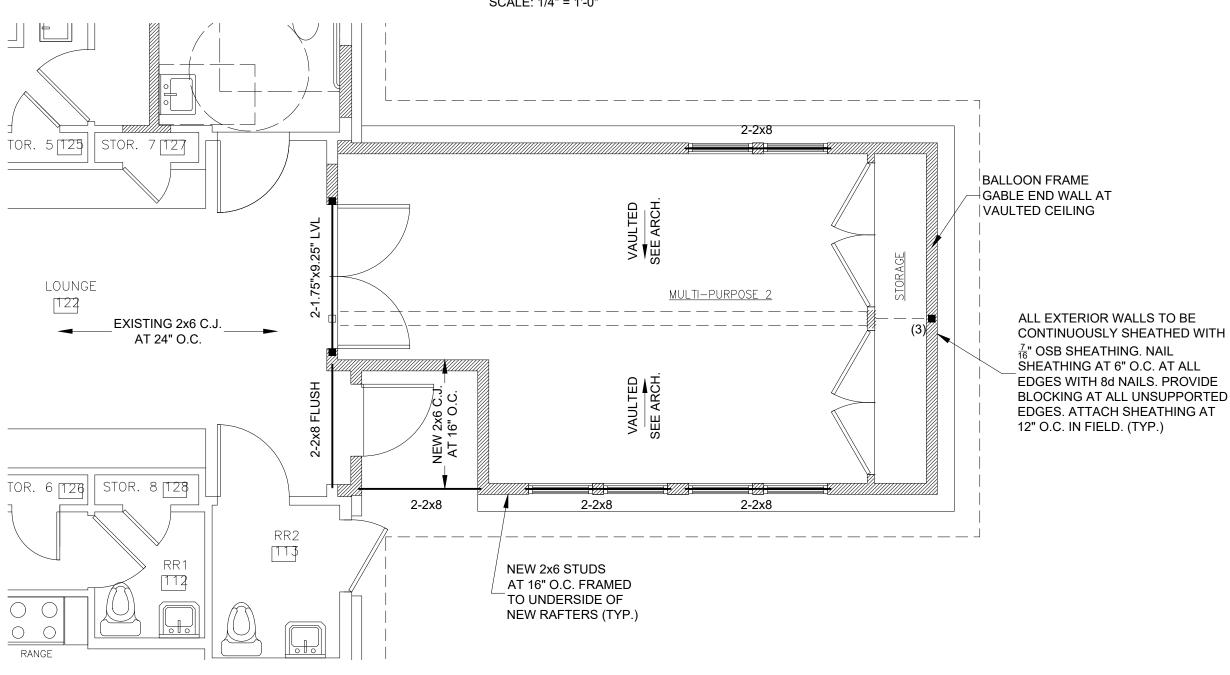
ADD-ALTERATE ADDITION DATE SHEET 7.16.24 SCALE **A6** AS NOTED DRAWN BH PROJECT NUMBER



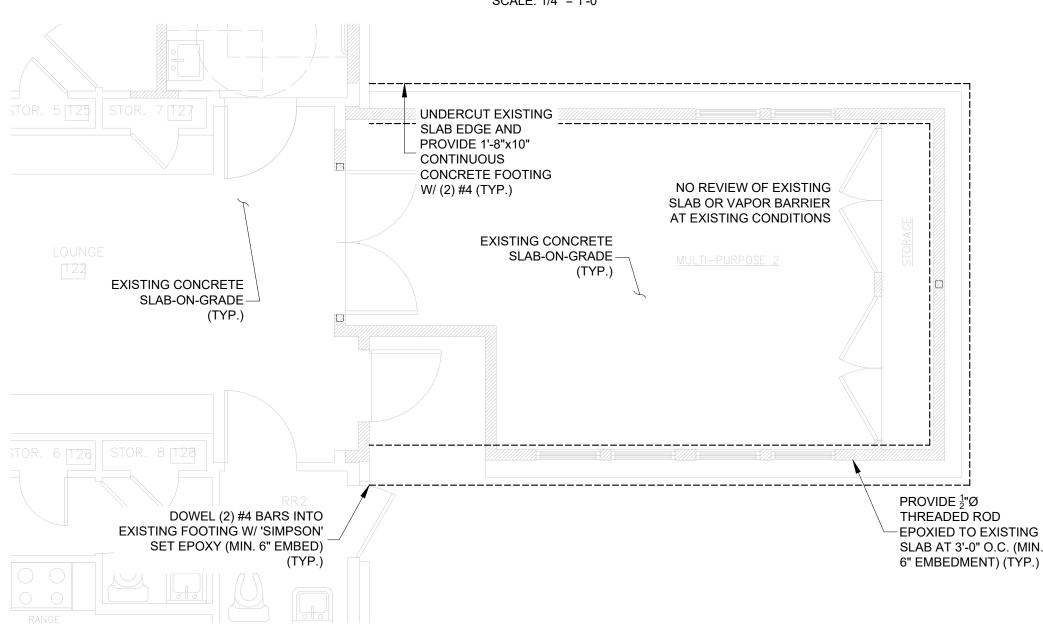
LVL MEMBERS MUST BE EQUAL TO Fv=285 PSI, Fb=2,900 PSI, E = 2,000,000 PSI











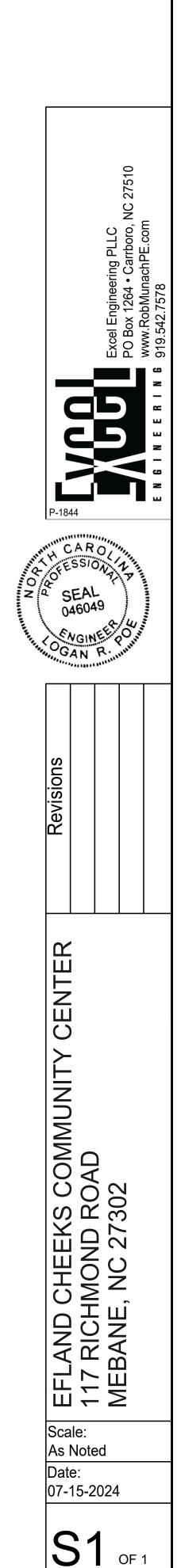
NEW ROOF FRAMING PLAN

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

NEW CEILING FRAMING PLAN

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





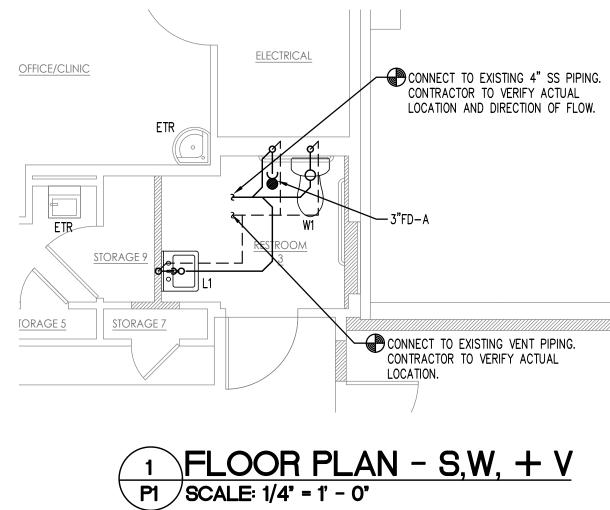
ALL EXTERIOR WALLS TO BE

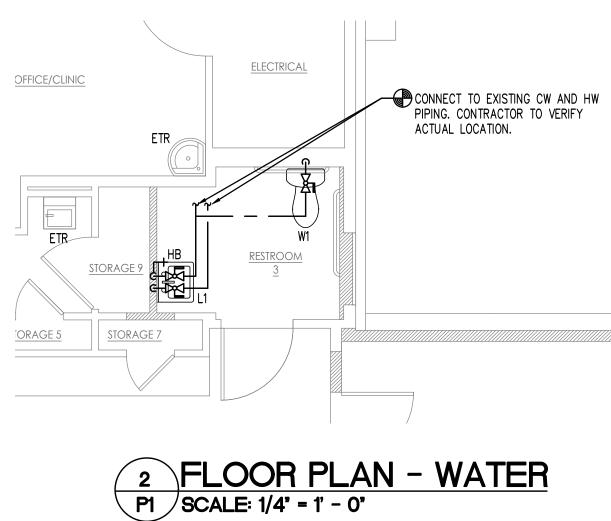
SHEATHING AT 6" O.C. AT ALL

EDGES WITH 8d NAILS. PROVIDE

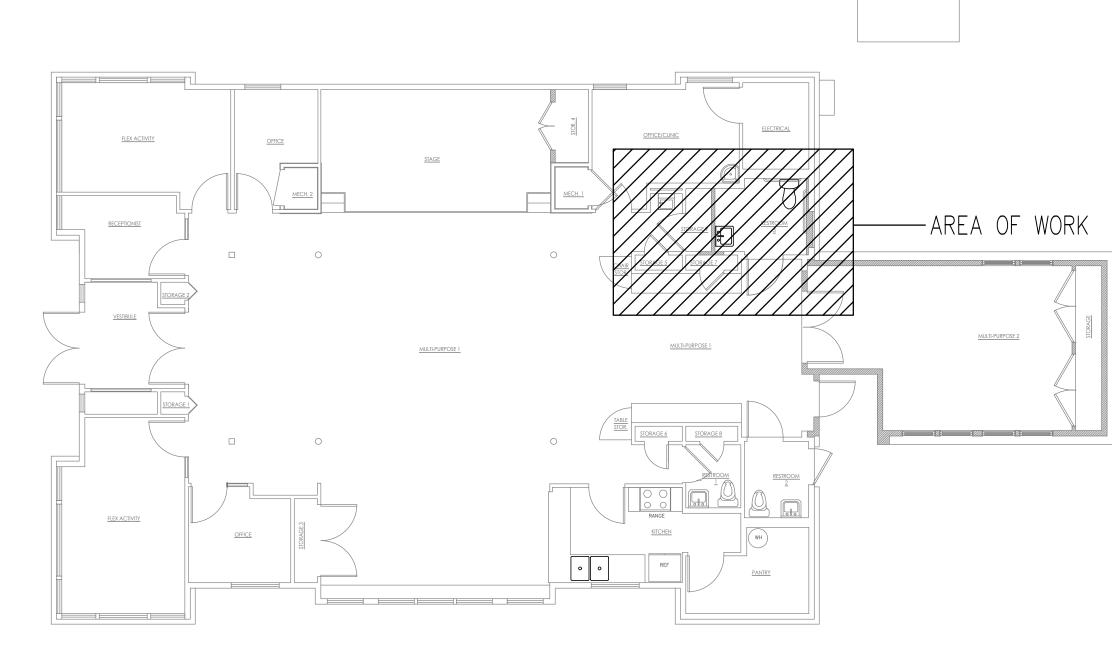
7/16" OSB SHEATHING. NAIL

CONTINUOUSLY SHEATHED WITH





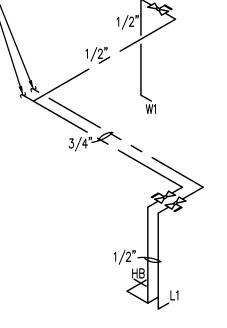
5 KEY PLAN P1 SCALE: NO SCALE



3 RISER - S,W, + V P1 SCALE: NO SCALE

3"FD—A CONNECT TO EXISTING VENT PIPING. LOCATION. CONNECT TO EXISTING 4" SS PIPING. CONTRACTOR TO VERIFY ACTUAL LOCATION AND DIRECTION OF FLOW.

CONNECT TO EXISTING CW AND HW PIPING. CONTRACTOR TO VERIFY ACTUAL LOCATION.





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117 Richmond Road Mebane, NC 27302

Issued for Permitting

REVISIONS	
NO.	DATE
ΡL	UMBING
FLO	ORPLANS
AN[d risers
DATE SCALE	SHEET 07.15.24
DRAWN	— P1
PROJECT	NUMBER

PLUMBING SPECIFICATIONS:

1.) THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH 2018 NORTH CAROLINA PLUMBING CODE AND LOCAL PLUMBING INSPECTOR. 2.) ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING

WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.

3.) THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSET, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.

4.) THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC.

5.) CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS PRIOR TO BEGINNING WORK.

6.) ALL DOMESTIC WATER PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.

7.) ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE TYPE "L" COPPER WITH 95/5 LEAD FREE SOLDER. ABOVE SLAB, OUTSIDE OF PLENUM SPACES, PEX PIPING IS ACCEPTABLE. ALL WATER PIPING (BELOW SLAB) SHALL BE TYPE "K" SOFT COPPER. COMPLY W/ ASTM B-88-88A.

8.) ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK.

9.) ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY. FULL PORT, CHROME PLATED BALL, TEFLON SEATS, 150# WSP, FOR SIZES 1/2" THRU 2". SIZES ABOVE 2" SHALL BE BRONZE GATE VALVE, NRS SOLID DISC, SCREW OVER BONNET, 125# WSP. PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.

10.) ALL PLUMBING FIXTURES AND KITCHEN EQUIPMENT SHALL HAVE A PISTON TYPE WATER HAMMER ARRESTOR SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & PDI STANDARDS.

11.) ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.

12.) ALL WASTE & VENT PIPING (ABOVE SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2665. PLENUM SPACE WASTE & VENT PIPING (ABOVE SLAB) SHALL BE SERVICE WEIGHT CAST IRON WITH NO-HUB FITTINGS CONFORMING TO CISPI 301. JOINTS SHALL BE ONE-PIECE NEOPRENE GASKET WITH STAINLESS STEEL BAND AND BOLTS CONFORMING TO ASTM C564-85.

13.) ALL WASTE & VENT PIPING (BELOW SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2665.

14.) ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY 2018 NORTH CAROLINA PLUMBING CODE & MANUFACTURER'S RECOMMENDATIONS.

15.) ALL PIPING PENETRATIONS THRU NEW/EXISTING WALLS/FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE NEW/EXISTING WALL OR FLOOR. 16.) ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED BY 2018 NORTH CAROLINA PLUMBING CODE.

17.) THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING WITH ALL STRUCTURAL FOUNDATIONS. P.C. SHALL COORDINATE

ALL UNDERSLAB PLUMBING PIPING ELEVATION INVERTS WITH SITE UTILITY ELEVATION INVERTS. 18.) P.C. SHALL COORDINATE ALL KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS WITH KITCHEN EQUIPMENT VENDOR. PROVIDE ALL

NECESSARY P-TRAPS, SUPPLY STOPS, INDIRECT PIPING, ETC. REQUIRED FOR COMPLETE HOOK-UP OF KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS.

19.) THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED AS REQUIRED PER LOCAL AUTHORITY.

20.) THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH 2018 NORTH CAROLINA PLUMBING CODE.

21.) ALL VENT THRU THE ROOF PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND SHALL BE CONCEALED BEHIND ROOF RIDGE WHERE POSSIBLE. P.C. SHALL PROVIDE ALL FLASHING MATERIAL REQUIRED FOR VENT THRU ROOF. ALL VTR'S SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.

22.) ALL GAS PIPING AND GAS FLUE TO GAS WATER HEATER BY PLUMBING CONTRACTOR.

23.) PLUMBING CONTRACTOR SHALL HAVE RECEIVED APPROVED SHOP DRAWINGS FROM THE ENGINEER PRIOR TO BEGINNING NEW WORK.

PLUMBING LEGEND A	AND ABBREVIATIONS
	SANITARY SEWER PIPING (W) VENT PIPING (V) COLD WATER PIPING (CW) HOT WATER PIPING (HW) HOT WATER RETURN PIPING (HWR) ELL TURNS UP ELL TURNS DOWN CHECK VALVE BALL VALVE
>	GATE VALVE IN HORIZONTAL POSITION
⊙	CLEANOUT IN GROUND (GCO)
⊙	CLEANOUT IN FLOOR OR SLAB (FCO)
A.F.F.	ABOVE FINISH FLOOR
FD – A	FLOOR DRAIN – TYPE (SEE SCHEDULE)
H.B.	HOSE BIBB
FPWH	FREEZE PROOF WALL HYDRANT
H.D.	HUB DRAIN
INV. ELEV. OR I.E.	INVERT ELEVATION
P.C.	PLUMBING CONTRACTOR
V.T.R.	VENT THROUGH ROOF
<u>CV</u>	COMMON VENT
<u>EOCV</u>	END OF CIRCUIT VENT
	BEGINNING OF CIRCUIT VENT 1 HOUR RATED BARRIER/PARTITION/WALL 2 HOUR RATED BARRIER/PARTITION/WALL 3 HOUR RATED BARRIER/PARTITION/WALL CONNECT TO EXISTING

	F
MARK	DE
W1	WATER FLR. M1 (ADA)
L1	LAVATO WALL M (ADA)
HB	HOSE BIB
ETR	EXISTIN REMAIN

PLU	ME	BIN	IG F	IXTURES AND EQUIPMENT
	PIPE S	ERVICE A	ND CONN. SIZE	
DESCRIPTION	CW	нพ	WASTE	FIXTURE SPECIFICATIONS
ER CLOSET MTD. \)	1/2"		4"	KOHLER "HIGHLINE" K-3979, ADA, 1.6 GPF WHITE VITREOUS CHINA ELONGATED BOWL WITH SIPHON JET FLUSHING, WITH SIDE TRIP LEVER, 12" ROUGH-IN, 17" HIGH, & 2 BOLT CAPS. <u>SEAT:</u> BEMIS MODEL 2055SSCT ANTI MICROBIAL HEAVY DUTY ELONGATED WHITE OPEN FRONT SEAT. <u>VALVE:</u> McGUIRE MODEL 2166. 3/8" x 12" FLEX RISER ANGLE CLOSET SUPPLY WITH STOP. MOUNT SIDE TRIP LEVER ON WIDE SIDE OF TOILET STALL.
ATORY - MOUNTED \)	1/2"	1/2"	1-1/2"	KOHLER "PINOIR" K-2028, VITREOUS CHINA 22"X18" LAVATORY WITH 4" FAUCET CENTERS. MOUNT LAVATORY RIM AT 34" A.F.F. TO MEET ADA REQUIREMENTS. <u>TRAP & SUPPLIES:</u> MCGUIRE NO. 8902 17 GA. 1 1/4" X 1 1/2" P-TRAP AND NIPPLE. McGUIRE NO. 2165 ANGLE SUPPLY STOPS. <u>FAUCET:</u> DELTA 500-DST SINGLE HANDLE WITH GRID WASTE ASSEMBLY AND 0.5 GPM FLOW RESTRICTOR. <u>ACCESSORIES:</u> TRUEBRO HANDI-LAV GUARD INSULATION MODEL NO. 101 3-PIECE INTERLOCKING TRAP ASSEMBLY AND 2-PIECE INTERLOCKING HOT WATER ANGLE VALVE ASSEMBLY, AND NYLON TYPE FASTENERS. PROVIDE WITH ASSE 1070 COMPLIANT MIXING VALVE.
	1/2"			WOODFORD MODEL 24 IN POLISHED CHROME WITH VACUUM BREAKER AND LOOSE TEE KEY OPERATION
TING TO AIN	1/2"			EXISTING PLUMBING FIXTURE TO REMAIN

VERIFY FIXTURES WITH OWNER PRIOR TO ORDERING.

	PLUMBING ACCESSORIES
SYMBOL	SPECIFICATION
FS-A	PLASTIC ODDITIES PFS SERIES 12"x12"x10" DEEP, PVC, 1/2 GRATE, WITH PLASTIC, REMOVABLE SECONDARY STRAINER.
FS-B	ZURN Z1907 CAST IRON BODY, 12"X12"X8" DEEP, BOTTOM DOME STRAINER WITH REMOVABLE SECONDARY STRAINER.
FD-A	ZURN ZN-415 DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEBRANE CLAMP AND ADJUSTABLE COLLAR WITH 6" TYPE " B " POLISHED NICKEL BRONZE STRAINER. DEEP SEAL P-TRAP WITH TRAP PRIMER CONNECTION
FD-B	ZURN ZN-415 DURACOATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEBRANE CLAMP AND ADJUSTABLE COLLAR WITH 7" TYPE " I " POLISHED NICKEL BRONZE STRAINER WITH RAISED FLANGE. DEEP SEAL P-TRAP WITH TRAP PRIMER CONNECTION
FCO	ZURN ZN-1400 "LEVELTROL" ADJUSTABLE FLOOR CLEANOUT, DURACOATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED POLISHED NICKEL BRONZE TOP ADJUSTABLE TO FINISH FLOOR.
WCO	ZURN ZN-1441 WALL CLEANOUT, DURACOATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.
SA	WATTS SERIES 15 WATER HAMMER ARRESTOR TO MEET ALL REQUIREMENTS OF ASSE 1010 AS REQUIRED BY 2018 NCSBC, PLUMBING CODE, SECTION 604.9.
VB	ZURN MODEL VACUUM BREAKER TO MEET ALL REQUIREMENTS OF ASSE 1011 AS REQUIRED BY 2018 NCSBC, PLUMBING CODE, SECTION 608.13.6.

PLUMBING SU	MMAR	Y
SYSTEM & MATERIAL	FIXTURE UNITS	MAIN SIZE
WASTE AND VENT SYSTEM		
SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D-2665	N/A	4"
DOMESTIC WATER SYSTEM		
BELOW SLAB: TYPE "K" SOFT COPPER WITH NO JOINTS BELOW SLAB ABOVE SLAB: TYPE "L" ANNEALED COPPER WITH 95/5 SOLDER JOINTS.	N/A	"
PLUMBING SUMMARY NOT APPLICABLE - NO NEW	FIXTURES ADDED.	-

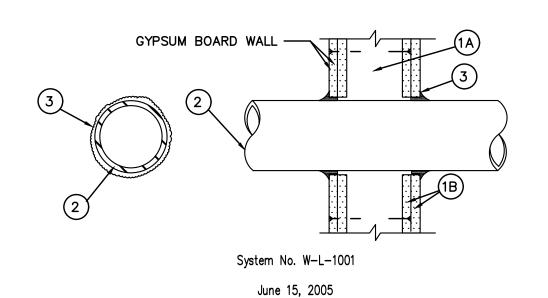
A. <u>Studs</u> — Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3—5/8 in. (92 mm) wide by 1—3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

2. <u>Through-Penetrant</u> - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

electrical metallic tubing

may be used:

3M COMPANY - CP 25WB+ or FB-3000 WT.



F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3) T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3) L Rating At Ambient — less than 1 CFM/sq ft L Rating At 400 F — less than 1 CFM/sq ft

1. <u>Wall Assembly</u> — The 1, 2, 3 or 4 hr fire—rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

B. <u>Gypsum Board</u> - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

A. <u>Steel Pipe</u> – Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. <u>Conduit</u> — Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel

D. <u>Copper Tubing</u> — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

F. Through Penetrating Product* - Flexible Metal Piping The following types of steel flexible metal gas piping

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITEFLEX

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly

WARD MFG INC

Fill. Void or Cavity Material* - Caulk or Sealant - Min 5/8., 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

x Pipe	F	T
Conduit	Rating	Rating
m In (mm)	Hr	Hr
25)	1 or 2	0+, 1 or 2
25)	3 or 4	3 or 4
(102)	1 or 2	0
(152)	3 or 4	0
(305)	1 or 2	0

+When copper pipe is used, T Rating is 0 h.

FOR FRAMED WALL ONLY 1,2,3, OR 4 HOUR PENETRATION FIRESTOP DETAIL

P2 / SCALE: NTS

wkcc engineers | consultan

WEST KEY CONSULTING CORPORATION 4008 BARRETT DR SUITE 204 RALEIGH NC 27609 919.881.8020 www.westkeyconsulting.com C-1474

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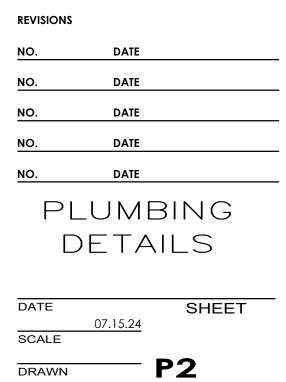
Efland Cheeks **Community Center**

Covered Patio Enclosure Renovation

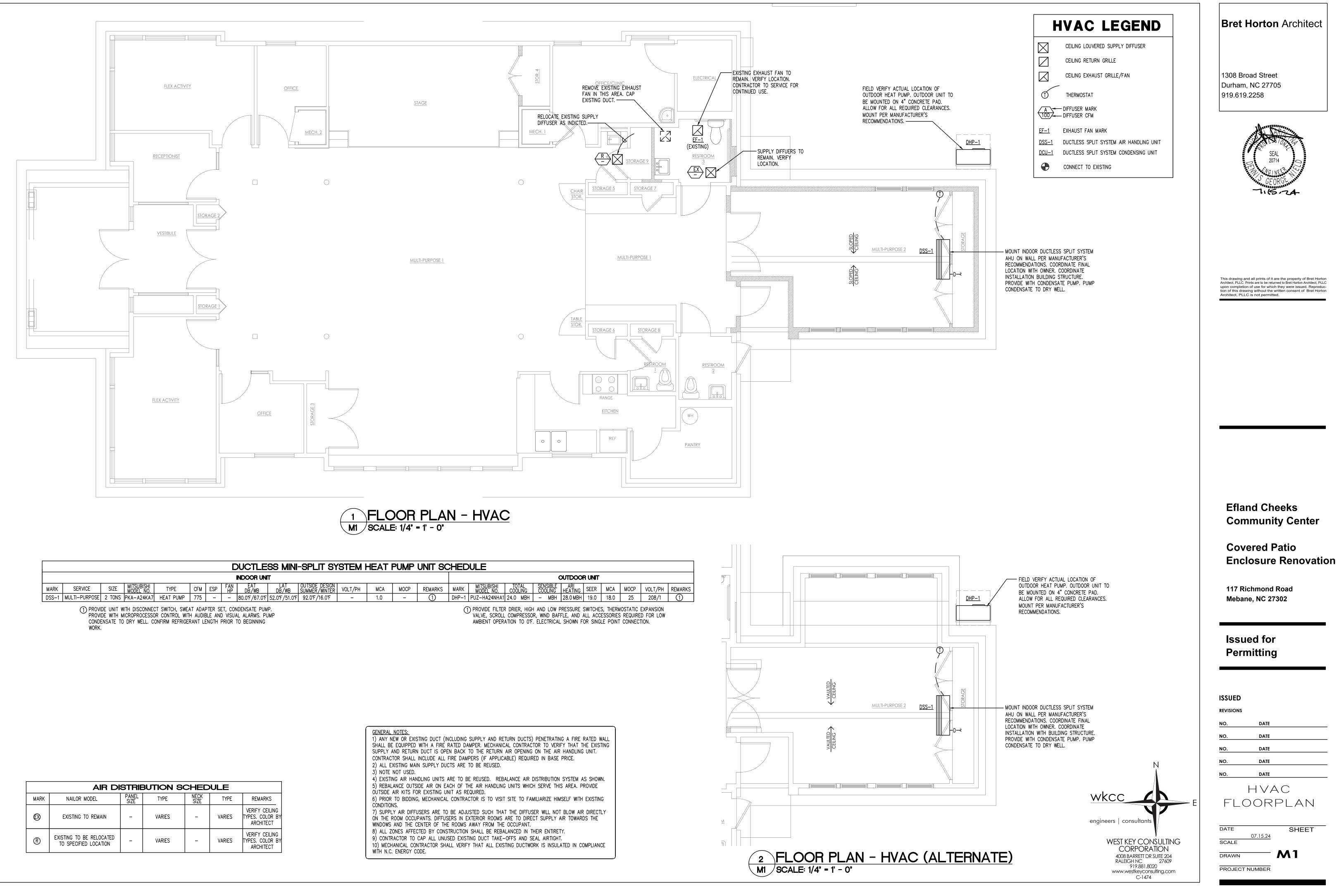
117 Richmond Road Mebane, NC 27302

Issued for Permitting

ISSUED



PROJECT NUMBER

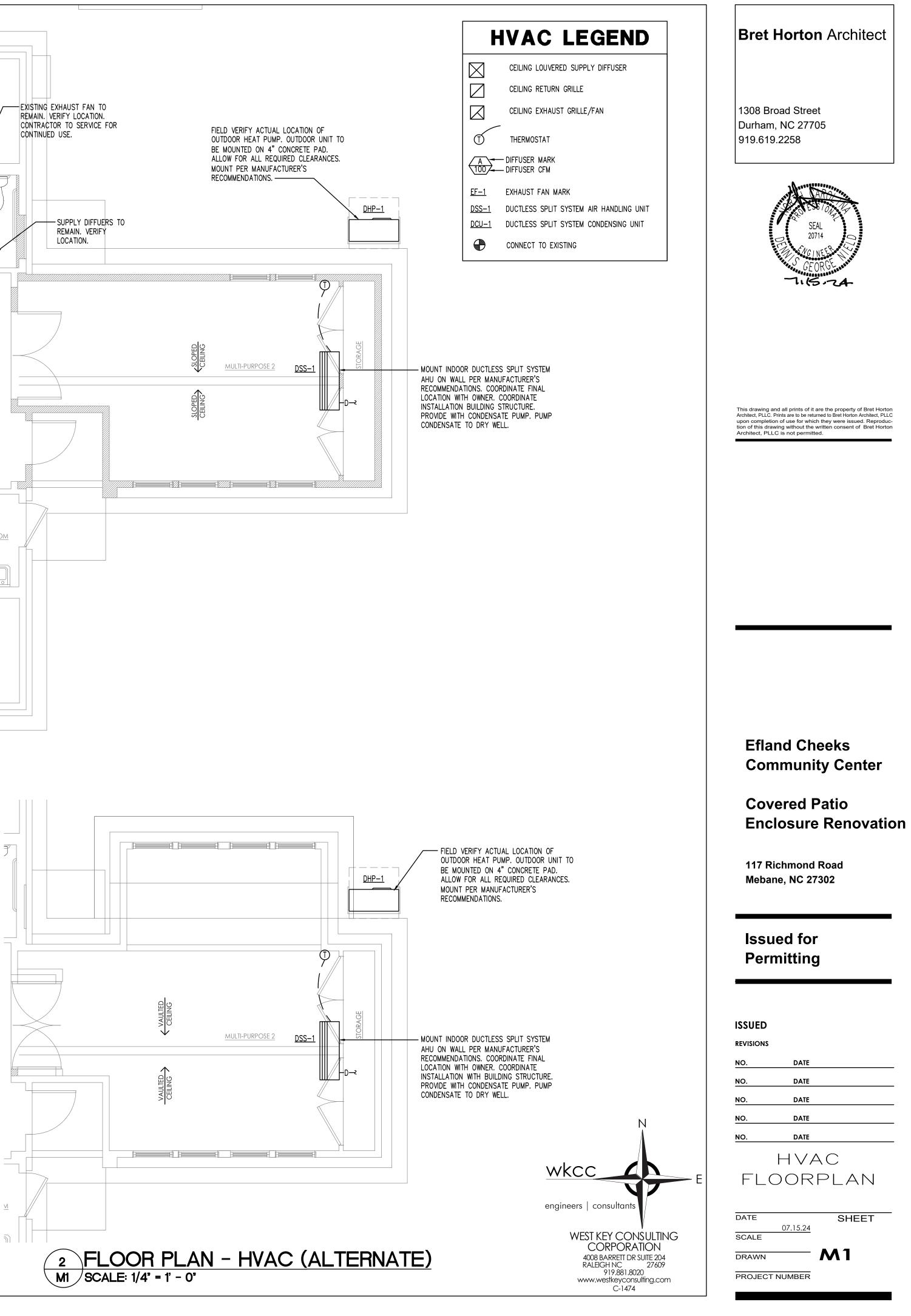


							INDOOR U	IT									(OUTDOO	r unit				
MARK	SERVICE	SIZE	MITSUBISHI MODEL NO.	TYPE	CFM	SP FAN	EAT DB/WB	LAT DB/WB	OUTSIDE DESIGN SUMMER/WINTER	VOLT/PH	MCA	MOCP	REMARKS	MARK	MITSUBISHI MODEL NO.	TOTAL COOLING	SENSIBLE COOLING	ARI HEATING	SEER	MCA	MOCP	VOLT/PH	REMARKS
DSS-1	MULTI-PURPOSE 2			HEAT PUMP	775			52.0°F/51.0		-	1.0	-	1	DHP-1	PUZ-HA24NH		– MBH	28.0 MBH		18.0	25	208/1	1
		: WITH MIC	CROPROCESS	CT SWITCH, SW OR CONTROL W CONFIRM REFRIG	TH AUDIBL	E AND VIS	JAL ALARMS.	PUMP								ER DRIER, HIG LL COMPRESS RATION TO 01	DR, WIND BAF	FLE, AND	ALL ACCI	ESSORIES	s require	D FOR LOW	
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						C	OUTDOO	r unit				
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.0	-	1	DHP-1	PUZ-HA24NHA1		– MBH	28.0 MBH	19.0	18.0	25	208/1	1
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AIR DISTRIBUTION SCHEDULE						
MARK	NAILOR MODEL	PANEL SIZE	TYPE	NECK SIZE	TYPE	REMARKS
	EXISTING TO REMAIN	-	VARIES	_	VARIES	VERIFY CEILING TYPES. COLOR BY ARCHITECT
R	EXISTING TO BE RELOCATED TO SPECIFIED LOCATION	_	VARIES	_	VARIES	VERIFY CEILING TYPES. COLOR BY ARCHITECT



GENERAL NOTES:

1. THE HEATING AND AIR CONDITIONING CONTRACTOR (THE CONTRACTOR) SHALL PROVIDE ALL SPECIFIED AND MISCELLANEOUS MATERIAL AND LABOR AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS.

2. ALL FLEXIBLE DUCT CONNECTIONS TO HAVE MANUFACTURED SPIN-IN FITTINGS WITH DAMPER, AND MANUAL LOCKING QUADRANT.

3. PROVIDE AN ELECTRONIC PROGRAMMABLE THERMOSTAT FOR EACH AIR HANDLING UNIT. THERMOSTAT SHALL BE HONEYWELL MODEL T7351 WITH SUBBASE (OR EQUAL). PROVIDE WITH TRANSPARENT LOCKING COVERS. THE HIGHEST OPERATING COMPONENT OF THE THERMOSTAT SHALL BE MOUNTED AT 48" MAX. A.F.F. AND IN COMPLIANCE WITH NC ACCESSIBILITY CODE. THERMOSTAT SHALL BE CAPABLE OF CONTROLLING COOLING AND HEATING SYSTEM OPERATION IN COMPLIANCE WITH SECTION C403.2.4 OF THE NC ENERGY CONSERVATION CODE.

4. THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS EQUIPMENT, DUCTWORK, OR PIPING.

5. ALL EQUIPMENT, MATERIALS, AND INSTALLATION OF SUCH SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. IF THERE IS A CONFLICT IN THE ABOVE REQUIREMENTS, THE MORE STRINGENT SHALL BE USED. ACCESS TO ALL EQUIPMENT SHALL BE PROVIDED IN COMPLIANCE WITH CHAPTER 3 OF THE NORTH CAROLINA MECHANICAL CODE.

6. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK.

7. WORKMANSHIP SHALL BE FIRST-CLASS AND PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.

8. REFER TO ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS, DO NOT SCALE THESE DRAWINGS.

9. COORDINATE EXACT LOCATION OF ALL DIFFUSERS WITH LIGHTS, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES.

10. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT EQUIPMENT. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.

11. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE. ALL EQUIPMENT INSTALLATIONS SHALL ALLOW FOR ALL CODE AND MANUFACTURER REQUIRED CLEARANCES.

12. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER HIS CONTRACT.

13. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING FOR HIS FOUIPMENT

14. ALL OUTSIDE AIR SUPPLY AND EXHAUST DUCTWORK, FANS, AND EXTERIOR OPENINGS SHALL BE PROVIDED WITH CLASS I MOTORIZED DAMPERS IN COMPLIANCE WITH SECTION C403.2.4.3 OF THE NC ENERGY CONSERVATION CODE. GRAVITY DAMPERS MAY BE PERMITTED IN BUILDING LESS THAN 3 STORIES IN HEIGHT OR FOR EXHAUST AIRFLOW OF 300 CFM OR LESS.

15. FOR SPACES LARGER THAN 500 SQUARE FEET, THE CONTRACTOR SHALL PROVIDE CO2 SENSORS AND MOTORIZED DAMPERS ON ALL HVAC SYSTEMS TO PROVIDE DEMAND CONTROLLED VENTILATION IN COMPLIANCE WITH SECTION C403.2.6 OF THE NC ENERGY CONSERVATION CODE UNLESS OTHERWISE NOTED.

16 LINE SUPPLY AND RETURN DUCT WITH DUCT LINER A MINIMUM OF FIVE FEET BEYOND FIRST ELBOW DOWNSTREAM OF DISCHARGE AND INTAKE OF UNIT. DUCT LINER SHALL BE A MINIMUM OF R-6 ACOUSTICAL LINER. INSULATE ALL SUPPLY AND RETURN DUCT DOWN STREAM OF LINED DUCT WITH BLANKET INSULATION. BLANKET INSULATION SHALL A MINIMUM OF R-6 GLASS FIBER WITH FIRE RETARDANT FOIL-SCRIM KRAFT JACKET. AS AN ALTERNATE, THE MECHANICAL CONTRACTOR MAY LINE RIGID DUCTWORK WITH ACOUSTICAL LINER IN LIEU OF WRAPPING DUCTWORK WITH BLANKET INSULATION. PROVIDE R-8 DUCT INSULATION FOR ANY DUCTWORK LOCATED OUTSIDE OF OUTSIDE OF BUILDING ENVELOPE. ALL INSULATION R-VALUES SHALL BE IN COMPLIANCE WITH SECTION C403.2.9 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE.

17. DUCTWORK AS SHOWN ON THE DRAWINGS IS STRICTLY DIAGRAMMATIC. ALL DUCT SIZES SHOWN ARE FREE AREA. COORDINATE EXACT LOCATION OF ALL DUCTWORK WITH THE BUILDING STRUCTURE AND OTHER TRADES.

18. IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SERVICE CLEARANCES, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THESE DRAWINGS AND SPECIFICATIONS.

19. ALL DUCT TO BE CONSTRUCTED OF GALVANIZED STEEL SHEETS IN ACCORDANCE WITH SMACNA GAGES AND STANDARDS. SUPPLY DUCT JOINTS SHALL BE SEALED AIRTIGHT AND SHALL BE IN COMPLIANCE WITH SECTION C403.2.9.1 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE. ALL SQUARE BENDS OR ELBOW FITTINGS SHALL HAVE TURNING VANES. PROVIDE SPLITTER DAMPERS AT SUPPLY TEES AND EXTRACTORS AT ALL SUPPLY AIR BRANCHES. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE REQUIRED FOR SYSTEM BALANCING AS SHOWN ON PLANS OR AS REQUIRED.

20. INSTALL FLEXIBLE DUCT CONNECTIONS AT THE SUPPLY AND RETURN DUCTWORK CONNECTIONS OF ALL AIR HANDLING UNITS FOR VIBRATION ISOLATION.

21. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH THE FIRE-RATED WALLS AS SHOWN ON PLANS OR AS REQUIRED. PROVIDE RADIATION DAMPERS AT ALL DIFFUSERS/GRILLES MOUNTED IN FIRE-RATED CEILINGS AND CEILING ASSEMBLIES AS SHOWN ON PLANS OR AS REQUIRED.

22. PROVIDE ACCESS PANELS IN THE DUCTWORK FOR ALL FIRE DAMPERS OR OTHER DUCT MOUNTED EQUIPMENT. LOCATE ACCESS PANEL SO THAT ACCESS TO EQUIPMENT IS EASILY ATTAINED.

23. CONTRACTOR SHALL PROVIDE ENTHALPY CONTROLLED ECONOMIZERS FOR ANY AIR CONDITIONING UNIT OVER 65,000 BTHU OF COOLING UNLESS OTHERWISE NOTED. ECONOMIZER SHALL CONFORM TO REQUIREMENTS OF SECTION C403.3 OF THE NC ENERGY CONSERVATION CODE.

24. PRIOR TO BIDDING, MECHANICAL CONTRACTOR IS TO VISIT SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND RESOLVE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THESE PLANS WITH THE ENGINEER.

25. PROVIDE A COMPLETE 1-YEAR WARRANTY ON ALL LABOR AND MATERIALS. ALSO, MANUFACTURER'S PUBLISHED 5-YEAR NON PRORATED COMPRESSOR WARRANTY.

26. CONTRACTOR SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF PROJECT. MANUALS SHALL INCLUDE ALL ITEMS AS SPECIFIED IN SECTION C408.2.5 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE.

27. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SYSTEM COMMISSIONING AS REQUIRED PER SECTION C408 OF THE NC ENERGY CONSERVATION CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STATEMENT OF SYSTEM COMMISSIONING (APPENDIX C1) AS REQUIRED IN SECTION 503.2.9.3 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STATEMENT OF COMPLIANCE AS REQUIRED

28. OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ALL EXHAUST DISCHARGE AND PLUMBING VENTS.

29. INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.

30. REPLACE ALL FILTERS JUST PRIOR TO ACCEPTANCE BY THE OWNER.

31. THE MECHANICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS PER SECTION 606 OF N.C. MECHANICAL CODE IN THE RETURN OF EACH UNIT TO DE-ENERGIZE UNIT IN THE EVENT OF FIRE. SMOKE DETECTORS SHALL BE U.L. LISTED FOR DUCT INSTALLATION. SUPERVISION OF DUCT DETECTOR SHALL BE PER SECTION 606.4.1. MECHANICAL CONTRACTOR SHALL PROVIDE VISUAL AND AUDIBLE ALARM FOR EACH DETECTOR.

32. MOUNT AIR HANDLING UNIT IN SUCH A WAY THAT ADEQUATE SLOPE IS PROVIDED FOR ALL DRAIN LINES. PIPE CONDENSATE FROM COIL AND DRAIN PAN FULL SIZE TO AN APPROVED PLACE OF DISPOSAL IN COMPLIANCE WITH NCMC, SECTION 307. PROVIDE FLOAT SWITCH IN CONDENSATE PANS TO STOP FAN UPON ACCUMULATION OF CONDENSATE IN PAN.

33. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, INCLUDING THE SCHEDULES AND DETAILS PRIOR TO INSTALLATION OF ANY MECHANICAL SYSTEMS AND SHALL RESOLVE ANY CONFLICTS WITH THE ENGINEER.

34. PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. ALL DRAWINGS INDICATE THE GENERAL ARRANGEMENT DESIRED. THE EXACT LOCATIONS AND DETAILS OF CONSTRUCTION MAY BE SUCH THAT VARIANCES ARE REQUIRED. THE DRAWINGS DO NOT SHOW ALL BENDS. OFFSETS. AND FITTINGS THAT MAY BE REQUIRED FOR THE COMPLETE EXECUTION OF THIS CONTRACT. SUCH VARIANCES AND CONTINGENCIES SHALL BE ALLOWED FOR IN THE CONTRACTOR'S BID AND SHALL BE ACCOMPLISHED WITHOUT ADDITIONAL COST TO THE OWNER. PRIOR TO ORDERING EQUIPMENT, THE CONTRACTOR SHALL PREPARE COORDINATION DRAWINGS SHOWING HOW HIS EQUIPMENT IS TO BE LOCATED IN THE SPACE INDICATED. THIS DRAWING SHALL SHOW THE NEW AND EXISTING WORK OF ALL OTHER TRADES. THE CONTRACTOR SHALL CONTACT THE OTHER CONTRACTORS INVOLVED FOR DIMENSIONS, LOCATIONS, AND REQUIRED CLEARANCES OF THE EQUIPMENT THEY INTEND TO PROVIDE FOR THIS JOB. THE AFOREMENTIONED COORDINATION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

35. ALL MATERIALS USED SHALL BE NEW AND FREE OF DEFECTS. WHERE TRADE NAMES ARE MENTIONED. THEY ARE GIVEN AS A REFERENCE TO THE QUALITY OF THE APPARATUS REQUIRED. ALL MATERIALS AND EQUIPMENT SHALL BEAR THE UL LABEL OR EQUIVALENT WHERE APPLICABLE OTHER MAKES MAY BE USED IF APPROVED IN WRITING BY THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF MATERIALS AND EQUIPMENT PROPOSED FOR USE IN THIS CONTRACT TO THE ENGINEER WITHIN TEN DAYS FOLLOWING THE AWARD OF CONTRACT. IF SUCH LIST IS NOT SUBMITTED. THE CONTRACTOR SHALL SUPPLY THE MATERIALS AND EQUIPMENT SPECIFIED OR AS DIRECTED BY THE ENGINEER.

36. FLEXIBLE DUCT SHALL BE INSULATED, SOUND ATTENUATING, LOW VELOCITY TYPE AND SHALL COMPLY WITH NFPA 90A AND 90B. FLEXIBLE DUCT SHALL BE U.L. LISTED, CLASS 1 INSULATED TYPE. RATED FOR A MINIMUM OF 4" POSITIVE STATIC PRESSURE AND A MINIMUM OF 1" NEGATIVE STATIC PRESSURE. FLEXIBLE DUCT SHALL BE FACTORY-FORMED, COMPOSED OF SPIRAL WOUND, CORROSION RESISTANT WIRE BONDED TO AN INNER FABRIC LINER, COVERED WITH INSULATION WITH A VAPOR BARRIER. INSULATION R-VALUES SHALL BE PER THE NORTH CAROLINA ENERGY CONSERVATION CODE.

37. ROUTE REFRIGERANT LINES FROM OUTDOOR CONDENSING UNITS IN THE MOST DIRECT PATH TO AIR HANDLER LOCATED ABOVE CEILING. INSULATE WITH FOAM INSULATION. INSULATION SHALL BE IN COMPLIANCE WITH THE NORTH CAROLINA ENERGY CONSERVATION CODE. PROVIDE LONG LINE REFRIGERATION KIT AS REQUIRED.

38. IF FIRE ALARM SYSTEM IS PROVIDED IN BUILDING, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND WIRE ALL SMOKE DETECTORS. IF FIRE ALARM SYSTEM IS NOT PROVIDED IN BUILDING, THE MECHANICAL CONTRACTOR SHALL PROVIDE AND WIRE SMOKE DETECTORS. REGARDLESS OF WHO PROVIDES DETECTOR, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO INSTALL THE SMOKE DETECTORS IN THE RETURN OF REQUIRED UNITS TO DE-ENERGIZE UNIT IN THE EVENT OF FIRE. SMOKE DETECTORS SHALL BE U.L. LISTED FOR DUCT INSTALLATION. ELECTRICAL CONTRACTOR AND MECHANICAL CONTRACTOR SHALL COORDINATE SMOKE DETECTOR REQUIREMENTS FOR SYSTEM PRIOR TO INSTALLATION.

39. UPON COMPLETION OF THE WORK, A TEST AND BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH "AABC" REQUIREMENTS. AIR FLOW AND STATIC PRESSURE SHALL BE MEASURED AND RECORDED FOR ALL OUTLETS ON EACH SYSTEM. ONE WEEK AFTER THE OWNER HAS OCCUPIED THE BUILDING AND OPENED FOR BUSINESS, THE CONTRACTOR SHALL RE-BALANCE THE SYSTEM ACCORDING TO THE NEEDS OF THE OCCUPANTS. PROVIDE A COMPLETE TEST AND BALANCE REPORT TO THE ENGINEER.

40. AS APPLICABLE, THE CONTRACTOR SHALL VERIFY THE OPERATION OF ALL EXISTING MECHANICAL EQUIPMENT IN THE AREA OF WORK. ALL MEASUREMENTS SHALL BE RECORDED NECESSARY TO ASCERTAIN THE PROPER OPERATION OF THE EQUIPMENT INCLUDING, BUT NOT LIMITED TO, AMPERAGE, GPM FLOW, INLET AND OUTLET TEMPERATURES, AIR FLOW, AND INLET AND OUTLET STATIC PRESSURES. ANY DEFICIENCY IN THE RATED OUTPUT OF THE EQUIPMENT SHALL BE REPORTED TO THE ENGINEER AND BUILDING OWNER. IN ANY CASE, SAID REPORT SHALL BE SUBMITTED TO THE ENGINEER UPON REQUEST.

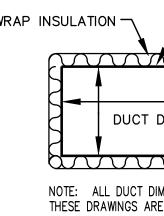
41. THE CONTRACTOR SHALL, AT THE COMPLETION OF THE WORK, CLEAN, POLISH, AND/OR WASH ALL EXPOSED ITEMS OF MATERIALS, EQUIPMENT, AND FIXTURES IN HIS CONTRACT TO LEAVE SUCH ITEMS BRIGHT AND CLEAN. THE CONTRACTOR SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT COMPLETION OF THE CONTRACT.

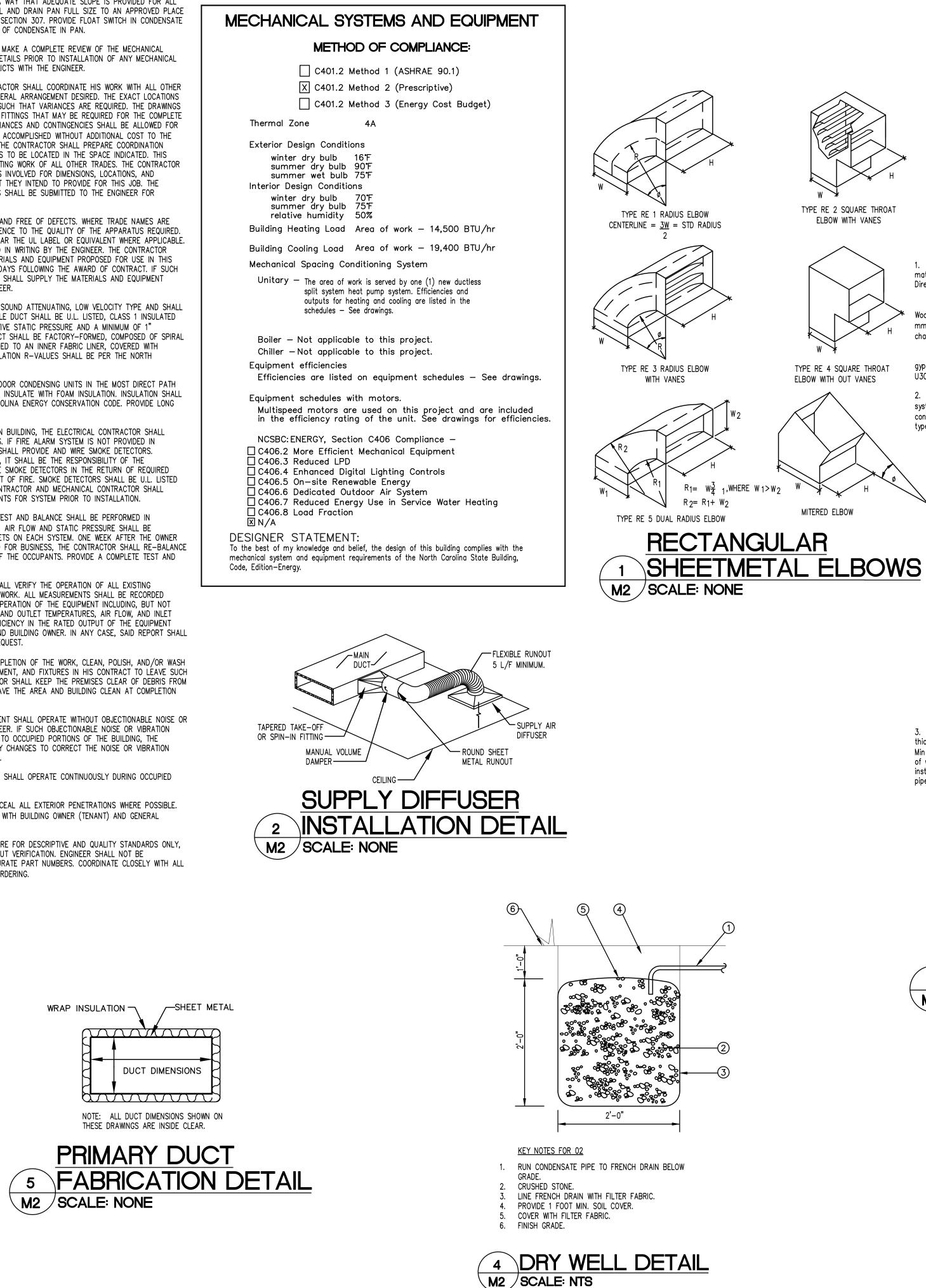
42. MECHANICAL AND ELECTRICAL EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION, AS DETERMINED BY THE ENGINEER. IF SUCH OBJECTIONABLE NOISE OR VIBRATION SHOULD BE PRODUCED AND TRANSMITTED TO OCCUPIED PORTIONS OF THE BUILDING, THE CONTRACTOR SHALL MAKE THE NECESSARY CHANGES TO CORRECT THE NOISE OR VIBRATION WITHOUT ADDITIONAL COST TO THE OWNER.

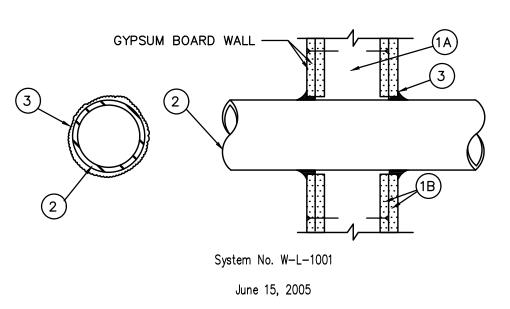
43. ALL AIR HANDLING UNIT SUPPLY FANS SHALL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS.

44. MECHANICAL CONTRACTOR SHALL CONCEAL ALL EXTERIOR PENETRATIONS WHERE POSSIBLE. COORDINATE ALL EXTERIOR PENETRATIONS WITH BUILDING OWNER (TENANT) AND GENERAL CONTRACTOR.

45. CATALOG PART NUMBERS INDICATED ARE FOR DESCRIPTIVE AND QUALITY STANDARDS ONLY, NOT TO BE UTILIZED FOR ORDERING WITHOUT VERIFICATION. ENGINEER SHALL NOT BE RESPONSIBLE FOR MISMATCHED OR INACCURATE PART NUMBERS. COORDINATE CLOSELY WITH ALL TRADES PRIOR TO MATERIAL/EQUIPMENT ORDERING.







F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3) T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3) L Rating At Ambient — less than 1 CFM/sq ft L Rating At 400 F — less than 1 CFM/sq ft

<u>Wall Assembly</u> – The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. <u>Studs</u> — Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. <u>Gypsum Board*</u> — Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. <u>Through-Penetrant</u> - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. <u>Steel Pipe</u> – Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. <u>Iron Pipe</u> — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. <u>Conduit</u> – Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

D. <u>Copper Tubing</u> – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

F. Through Penetrating Product* — Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITEFLEX

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

Fill, Void or Cavity Material* - Caulk or Sealant - Min 5/8., 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe	F	T
or Conduit	Rating	Rating
Diam In (mm)	Hr	Hr
1 (25)	1 or 2	0+, 1 or 1
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 h. 3M COMPANY - CP 25WB+ or FB-3000 WT.

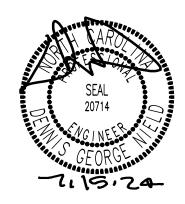
FOR FRAMED WALL ONLY 1,2,3, OR 4 HOUR PENETRATION **3 FIRESTOP DETAIL** M2 / SCALE: NONE

WKCC engineers | consultan

WEST KEY CONSULTING CORPORATION 4008 BARRETT DR SUITE 204 RALFIGH NC 27609 919.881.8020 www.westkeyconsulting.com C-1474

Bret Horton Architect

1308 Broad Street Durham, NC 27705 919.619.2258



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Efland Cheeks Community Center

Covered Patio Enclosure Renovation

117 Richmond Road **Mebane, NC 27302**

Issued for Permitting

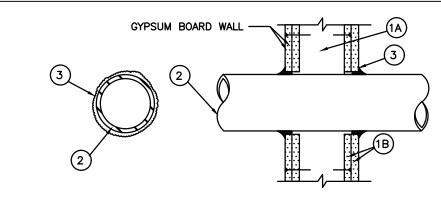
ISSUED

REVISIONS DATE DATE DATE DATE DATE HVAC DETAILS DATE SHEET 07.15.24 SCALE

DRAWN	M2
PROJECT NUMBER	

GENERAL NOTES AND REQUIREMENTS.

- 1. WORKMANSHIP SHALL CONFORM TO NECA PUBLICATION "STANDARDS OF INSTALLATION"
- 2. INSTALLATION SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, STATE BUILDING CODE, AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR (FURNISH INSPECTION CERTIFICATE). ALL WORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR.
- 3. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
- 4. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO INSTALLATION OF ELEC. EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
- 5. ALL BRANCH CIRCUITS SHALL BE IN ZINC-COATED EMT, OR RIGID CONDUIT AS PERMITTED OR REQUIRED BY THE NATIONAL ELECTRICAL CODE. TYPE MC CABLE MAY BE USED AS PERMITTED BY THE NATIONAL ELECTRICAL CODE. SCHEDULE 40 PVC CONDUIT MAY BE USED ONLY FOR THE SECONDARY UNDERGROUND SERVICE, THE UNDERGROUND TELEPHONE SERVICE CONDUIT, AND BRANCH TELEPHONE SYSTEM CONDUITS LOCATED BELOW THE FLOOR SLAB ON GRADE OR BURIED ON THE EXTERIOR OF THE BUILDING, OR IN CONCRETE BLOCK WALLS. ALL CONDUIT SHALL BE A 1/2" MINIMUM SIZE. EMT FITTINGS SHALL BE STEEL COMPRESSION TYPE.
- 6. PROVIDE 4"WIDE PLASTIC TAPE, MAGNETIC DETECTABLE TYPE, COLORED RED WITH SUITABLE WARNING LEGEND DESCRIBING BURIED ELECTRICAL LINES OR ORANGE DESCRIBING BURIED TELEPHONE LINES.
- 7. ALL CONDUCTORS SHALL BE COPPER TYPE THHN, OR XHHW, SOLID FOR #10 AWG OR #12 AWG, AND STRANDED FOR ALL LARGER SIZES.
- 8. ALL WIRING SHALL BE CONCEALED IN WALLS, UNDER SLAB, OR ABOVE SUSPENDED CEILING SPACE.
- 9. ALL WIRE AND CONDUIT SIZES ARE BASED ON 75°C THHN WIRE UNLESS OTHERWISE NOTED.
- 10. CONDUITS MAY BE RUN EXPOSED IN MECHANICAL AREAS. CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS AND SHALL BE RUN IN GROUPS. SEAL ALL PENETRATIONS TIGHT AROUND ALL CONDUITS WHEN PASSING INTO MECHANICAL ROOMS.
- 11. ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING SYSTEM. 12. WHERE FIRST OUTLET ON BRANCH CIRCUIT IS GREATER THAN FIFTY (50) FEET FROM THE PANELBOARD, USE #10 AWG MINIMUM TO THE FIRST OUTLET.
- 13. ALL MOUNTING HEIGHTS ARE GIVEN TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED. RECEPTACLES, DATA AND TELEPHONE OUTLET TO BE MOUNTED 18"AFF UNLESS OTHERWISE NOTED. LIGHT SWITCHES TO BE MOUNTED 48"AFF UNLESS OTHERWISE NOTED.
- 14. THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- 15. ALL FUSES, DISCONNECT SWITCHES, AND BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
- 16. ALL DISCONNECT SWITCHES ARE TO BE FUSIBLE TYPE. FUSE IN ACCORDANCE WITH THE NAMEPLATE DATA WITH DUAL ELEMENT TYPE FUSES BY BUSSMAN OR EQUAL.
- 17. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES. COORDINATE CLOSELY.
- 18. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE-REQUIRED AND MANUFACTURER-RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED. INSTALLATIONS SHALL FULLY COMPLY WITH NEC 110-26 FOR CLEARANCE REQUIREMENTS.
- 19. COORDINATE LOCATIONS OF ALL LIGHT FIXTURES WITH THE REFLECTED CEILING PLANS. LIGHT FIXTURES INSTALLED IN MECHANICAL AREAS SHALL AVOID MECHANICAL PIPING, EQUIPMENT, DUCTWORK, ETC.
- 20. GROUND SHALL BE PER N.E.C. PROVIDE SEPARATE GROUNDING CONDUCTOR FOR ALL CIRCUITS. PROVIDE DRIVEN AND COLD WATER GROUND FOR MAIN SERVICE.
- 21. GROUND TELEPHONE EQUIPMENT PER NEC.
- 22. THE ELECTRICAL CONTRACTOR SHALL PATCH ANY WALL, CEILING, OR FLOOR OPENING AND PENETRATIONS RESULTING FROM DEMOLITION OR NEW WORK IN EXISTING AREAS.
- 23. ALL WIRING SHALL BE CONCEALED IN METALLIC CONDUIT.
- 24. COMBINE HOMERUNS IN CONDUIT AS DESIRED (3 ON 3-PHASE, 2 ON SINGLE PHASE). DO NOT OVERLOAD NEUTRALS.
- 25. ALL CIRCUITS SHALL BE TESTED WITH 500 VOLT TESTER PRIOR TO ENERGIZING.
- 26. ALL WALL OUTLET BOXES SHALL BE STEEL CITY OR RACO
- 27. RECEPTACLES, SWITCHES, COVERPLATES, ETC. SHALL BE HUBBELL, LEVITON, OR LEGRAND EXCEPT AS SPECIFIED. COLOR SPECIFIED BY ARCHITECT, VERIFY COLOR PRIOR TO PURCHASE.
- 28. PROVIDE PULL WIRE IN ALL EMPTY CONDUIT.
- 29. CONDUIT SHALL BE LABELED EVERY TEN FEET.
- 30. ALL RECEPTACLE AND SWITCH PLATES SHALL BE LEGIBLY MARKED WITH LABEL MARKER TO CLEARLY INDICATE PANELBOARD ORIGIN AND CIRCUIT NUMBER. VERIFY IF LABEL SHOULD BE ON THE INSIDE OR OUTSIDE FACE OF COVERPLATE WITH OWNER/TENANT.
- 31. PROVIDE PHENOLIC LABELS ON ALL MAJOR EQUIPMENT INCLUDING SWITCHBOARDS, MOTOR CONTROL CENTERS, PANELBOARDS, INDIVIDUAL STARTERS, SAFETY SWITCHES, AND TRANSFORMERS. PROVIDE ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND.
- 32. ALL CIRCUIT BREAKERS IN PANEL SHALL BE SERIES RATED WITH MAIN BREAKER OR FULLY RATED FOR THE SYSTEM.
- 33. CONTRACTOR SHALL PROVIDE ENGINEER A MINIMUM OF 3 COPIES OF SHOP DRAWINGS FOR LIGHTS. SWITCHGEAR, PANELS, ETC.
- 34. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE W/ ALL OTHER TRADES REGARDING VOLTAGES, LOADS, CIRCUIT BREAKERS, ETC. PRIOR TO BEGINNING ANY WORK.
- 35. AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.
- 36. PANELS SHALL BE BY SQUARE "D", G.E. AND SIEMENS. PANELS SHALL BE SQUARE "D" TYPE NQOD OR "I-LINE" AS REQUIRED.
- 37. FOR NEW OR MODIFIED SERVICES, PRIOR TO ENERGIZATION AND AFTER UTILITY FAULT CURRENT CONFIRMATION AT THE DELIVERY POINT, PROVIDE PLAQUE AT SERVICE EQUIPMENT STATING MAXIMUM AVAILABLE FAULT CURRENT AND DATE OF CALCULATION PER NEC 110.24.
- 38. OPERABLE DEVICES SHALL BE ACCESSIBLE IN COMPLIANCE WITH ANSI A117.1, SECTION 309, OPERABLE PARTS. WHERE GFI RECEPTACLES ARE NOT ACCESSIBLE, PROVIDE GFI BREAKER.
- 39. RECESSED LIGHTING FIXTURES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE IC RATED AND LABELED AS MEETING ASTM E283. OR SHALL BE TENTED TO REMOVE THEM FROM THE THERMAL ENVELOPE
- 40. BRANCH CIRCUITS SERVING EXIT & EMERGENCY FIXTURES SHALL BE CLEARLY LABELED ON THE PANELBOARD DIRECTORY PER NEC 110.22(A), 408.4 & 700.12(I).
- 41. UPON PROJECT COMPLETION, THE EC SHALL PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND ALTERED PANELBOARDS WITH CIRCUIT DESIGNATIONS COMPLYING WITH THE REQUIREMENTS OF NEC 408.4(A).
- 42. ALL EXIT AND EMERGENCY LIGHTING SHALL BE FED FROM LOCAL BRANCH CIRCUIT, UNSWITCHED AND HAVE A MINIMUM OF 90 MINUTE BATTERY BACKUP PER NEC 700.12(I)(2).
- 43. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABELED AND LISTED BY A THIRD PARTY AGENCY. THE THIRD PARTY AGENCY SHALL BE AMONG THOSE ACCEPTABLE TO THE NC BUILDING CODE COUNCIL TO LABEL ELECTRICAL AND MECHANICAL EQUIPMENT.



constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features: A. Studs - Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plateds and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC. B. Wallboard, Gypsum* - Nom 1/2 or 5/8 in. thick, 4ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 13-1/2 in. 2. Pipe or Conduit - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing or Type L or (or heavier) copper tubing or nom 1 in. (or smaller) flexible steel conduit. When copper pipe or flexible steel conduit is used, max F Rating of firestop system (Item 3) is 2h. Steel pipes or conduits larger than nom 4 in. diam may only be used in wall constructed using steel channel studs. A max of one pipe or conduit is permitted in the firestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly. 3. Fill, Void or Cavity Material* - Caulk - Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically

on both sides of wall assembly. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below: Max Dina Annular

or Conduit Diam, In	Space, In
1	0 to 3/16
1	1/4 to 1/2
4	0 to 1/4
4	0 to 1-1/2#
6	1/4 to 1/2
12	3/16 to 3/8

(NOTE: L Rating apply only when Type CP-25 WB+ caulk is used). *Bearing the UL Classification Marking



	AMPS,	AMPERES	
IC	AMPS	INTERRUPTING	CURRENT

ATS	AUTOMATIC	TRANSFER	SWITCH
۵F	AMP FLISE		

- AFC ABOVE FINISHED CEILING AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AHJ AUTHORITY HAVING JURISDICTION BRKR CIRCUIT BREAKER
- BLDG BUILDING
- CONDUIT С
- CKT CIRCUIT
- CLG CEILING CTR COUNTER DEVICE MOUNTED ABOVE DISC DISCONNECT SWITCH
- EXISTING TO REMAIN
- ELECTRICAL CONTRACTOR
- ECB ENCLOSED CIRCUIT BREAKER EXHAUST FAN FF
- EM
- EMERGENCY EMT ELECTRICAL METALLIC TUBING
- ETR EXISTING TO REMAIN
- ΕX EXISTING FIRE ALARM FA
- GENERAL CONTRACTOR GC GFCI GROUND FAULT CURRENT INTERRUPTER
- GROUND HP
- HORSEPOWER IMC INTERMEDIATE METAL CONDUIT
- JB JUNCTION BOX
- KW KILOWATT

DEDICATED SPACE CONTINUES TO 6'-0" ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, PER NEC ARTICLE 110-26(F). - STRUCTURAL CEILING LIGHT FIXTURE CEILING EXCLUSIVELY DEDICATED SPACE

ELECTRICAL

EQUIPMENT

EXCLUSIVELY

DEDICATED SPACE

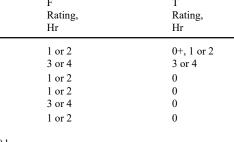
REQUIRED OVER AND UNDER THE ELECTRICAL EQUIPMENT FOR THE CABLES, RACEWAYS, ETC ... TO AND FROM THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26(F) OF THE NATIONAL ELECTRICAL CODE.

THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE

DEDICATED SPACE FOR ELECTRICAL EQUIPMENT E1 /SCALE: NTS

U.L. #WL1001

1. Wall Assembly - The 1,2,3, or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be



0 to 1-1/2 in. annular space applies only when Type CP-25 WB+ caulk is used.

Minnesota Mining & Mfg. Co. - Types CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+.

3 RATED WALL PENETRATION DETAIL

KVA KILOVOLT-AMPERES LTG LIGHTING

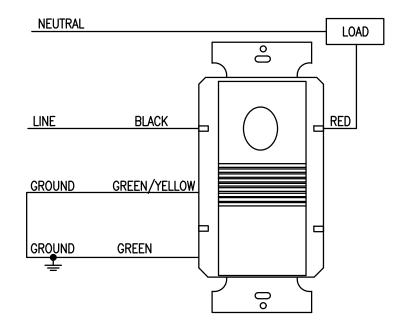
MC METAL CLAD CABLE MCA MINIMUM CIRCUIT AMPACITY

- MCB MAIN CIRCUIT BREAKER
- MLO MAIN LUGS ONLY NA NOT APPLICABLE
- NCSBC NORTH CAROLINA STATE BUILDING CODE NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC. NF NON-FUSED
- NL NIGHT LIGHT UNSWITCHED
- NIC NOT IN CONTRACT NTS NOT TO SCALE
- MC MECHANICAL CONTRACTOR
- POLES PC PLUMBING CONTRACTOR
- PH PHASE PNL PANELBOARD
- RELOCATED
- SW SHOW WINDOW RECEP, 18"MAX ABOVE WINDOW TAMPER RESISTANT RECEPTACLE
- UL UNDERWRITER'S LABORATORIES ULSE UL SERVICE ENTRANCE
- UON UNLESS OTHERWISE NOTED
- VOLTS W WIRE
- W/ WITH W/O WITHOUT
- WP WEATHERPROOF

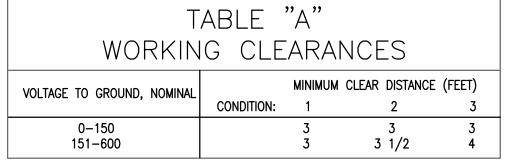
- SUSPENDED
- WALL

ELECTRICAL SYSTEM AND EQUIPMENT (SECTION C405) SECTION C405.1 METHOD OF COMPLIANCE LIGHTING SCHEDULE LAMP TYPE REQUIRED IN FIXTURE NUMBER OF LAMPS IN FIXTURE SEE LIGHTING BALLAST TYPE USED IN FIXTURE FIXTURE SCHEDULE NUMBER OF BALLASTS IN FIXTURE TOTAL WATTAGE PER FIXTURE TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED: .25KW VS x.5KW TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED: .025KW VS .65kW ADDITIONAL EFFICIENCY PACKAGE OPTIONS □ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE ■ C406.3 REDUCED LIGHTING POWER DENSITY □ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS □ C406.5 ON-SITE RENEWABLE ENERGY □ C406.6 DEDICATED OUTDOOR AIR SYSTEM □ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING

COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, ENERGY CODE 2018 EDITION ANGUS M. CLARK PE NAME ELECTRICAL ENGINEER TITLE:



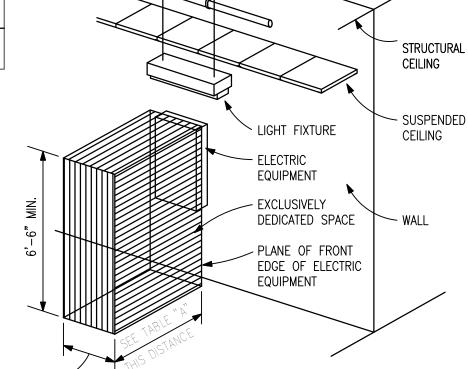




WHERE THE "CONDITIONS" ARE AS FOLLOWS:

- 1. 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 OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
- 2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
- 3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTE: THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRIC EQUIPMENT REQUIRED BY SECTION 110.26 OF THE NATIONAL ELECTRICAL CODE.



30" MINIMUM OR WIDTH OF EQUIPMENT

2 WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT E1 / SCALE: NTS

ELECTRICAL LEGEND (ALL SYMBOLS MAY NOT BE LISED ON THIS PROJECT

	(ALL SIMDULS MAT NUT DE USED UN THIS PRUJECT)
+►	HOMERUN TO POWER SOURCE, 2#12,#12G 1/2"C UON
	BRANCH CIRCUIT WIRING CONCEALED IN WALLS AND CEILINGS
<``	BRANCH CIRCUIT WIRING CONCEALED UNDER FLOOR OR UNDERGROUND RECESSED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
0	DOWNLIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
Ю	WALL MOUNTED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
ю—	SURFACE MOUNTED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
⊗ 4 ►	EXIT SIGN, DIRECTIONAL ARROWS AS INDICATED. REFER TO LUMINAIRE SCHEDULE
	EMERGENCY LIGHT, REFER TO LUMINAIRE SCHEDULE EXIT/EMERGENCY LIGHT COMBINATION, REFER TO LUMINAIRE SCHEDULE
Q	DUPLEX RECEPTACLE
\$	QUADRUPLEX RECEPTACLE
Θ	SIMPLEX RECEPTACLE, AMP RATING AS NOTED, OR MATCH BREAKER SIZE
⊕ GFI	GFCI RECEPTACLE
GFI OWP	WEATHERPROOF WHILE N USE GFCI RECEPTACLE
₩P I I I I I I I I I I I I I I I I I I I	TAMPER RESISTANT RECEPTACLE
I	SHOW WINDOW RECEPTACLE MOUNTED 18"MAX ABOVE WINDOW
⊕ _{SW}	
	FLUGH MOUNTED FLOOR RECEPTACLE, CLOSED COVER WHILE-IN-USE
	FLUSH MOUNTED RECEPTACLE AND DATA, CLOSED COVER WHILE-IN-USE
0	JUNCTION BOX FOR POWER CONNECTION
\bigotimes	EQUIPMENT POWER CONNECTION
Ľ	FUSED DISCONNECT SWITCH
Ľ	NON-FUSED DISCONNECT SWITCH
	PANELBOARD
Т	DRY TYPE TRANSFORMER
\$	SINGLE POLE SWITCH
\$ ³	THREE WAY SWITCH
\$ ⁴	FOUR WAY SWITCH
\$ ^{os}	WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH (LINE VOLTAGE)
©S	CEILING OR WALL MOUNTED DUAL TECH OCCUPANCY SENSOR (LINE VOLTAGE)
\$ ^{lv}	LOW VOLTAGE LIGHTING CONTROL SWITCH
\$ ^D	DIMMER SWITCH. 1500W SLIDER TYPE
\$ ^{DOS}	DIMMER SWITCH WITH DUAL TECHNOLOGY OCCUPANCY SENSOR
\$ ^T	WALL MOUNTED DECORATOR DIGITAL TIMER SWITCH WITH ON/OFF BUTTON, 48"AFF, 120/277V PROGRAMMABLE . INTERMATIC E1400 SERIES OR EQUAL.
LC	LIGHTING CONTACTOR, MECHANICALLY HELD
LCP	LIGHTING CONTROL PANEL
•	COMBINATION TELEPHONE/DATA OUTLET, EMPTY SINGLE GANG BOX WITH 3/4"C STUBBED ABOVE CEILING.
TV	CABLE TV OUTLET, EMPTY SINGLE GANG BOX WITH 3/4"C STUBBED ABOVE CEILING. COORDINATE EXACT MOUNTING HEIGHT WITH GC PRIOR TO ROUGH-IN.
CR	CARD READER ROUGH-IN, WITH EMPTY 3/4"C STUBBED ABOVE CEILING
GND	BUILDING GROUND CONNECTION POINT, $3/8$ " COPPER STUD WITH #6G WIRE ROUTED TO GROUND BUS AT SERVICE DISCONNECT
DPC	PHOTOCELL, MOUNT WITH SENSOR FACING NORTH, EXACT LOCATION TO BE DETERMINED
(X)	EXISTING EQUIPMENT TO BE REMOVED
(E)	EXISTING EQUIPMENT TO REMAIN
(R)	EXISTING EQUIPMENT TO BE RELOCATED
	wkcc
	ANGUS CLARK engineers consultants

ENGINEERING PC WEST KEY CONSULTING P.O. Box 1507 CORPORATION CARY NORTH CAROLINA 27512 4008 BARRETT DR SUITE 204 919.881.8020 C-2726 RALEIGH NC 919.859.2674 www.westkeyconsulting.com

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Bret Horton Architect

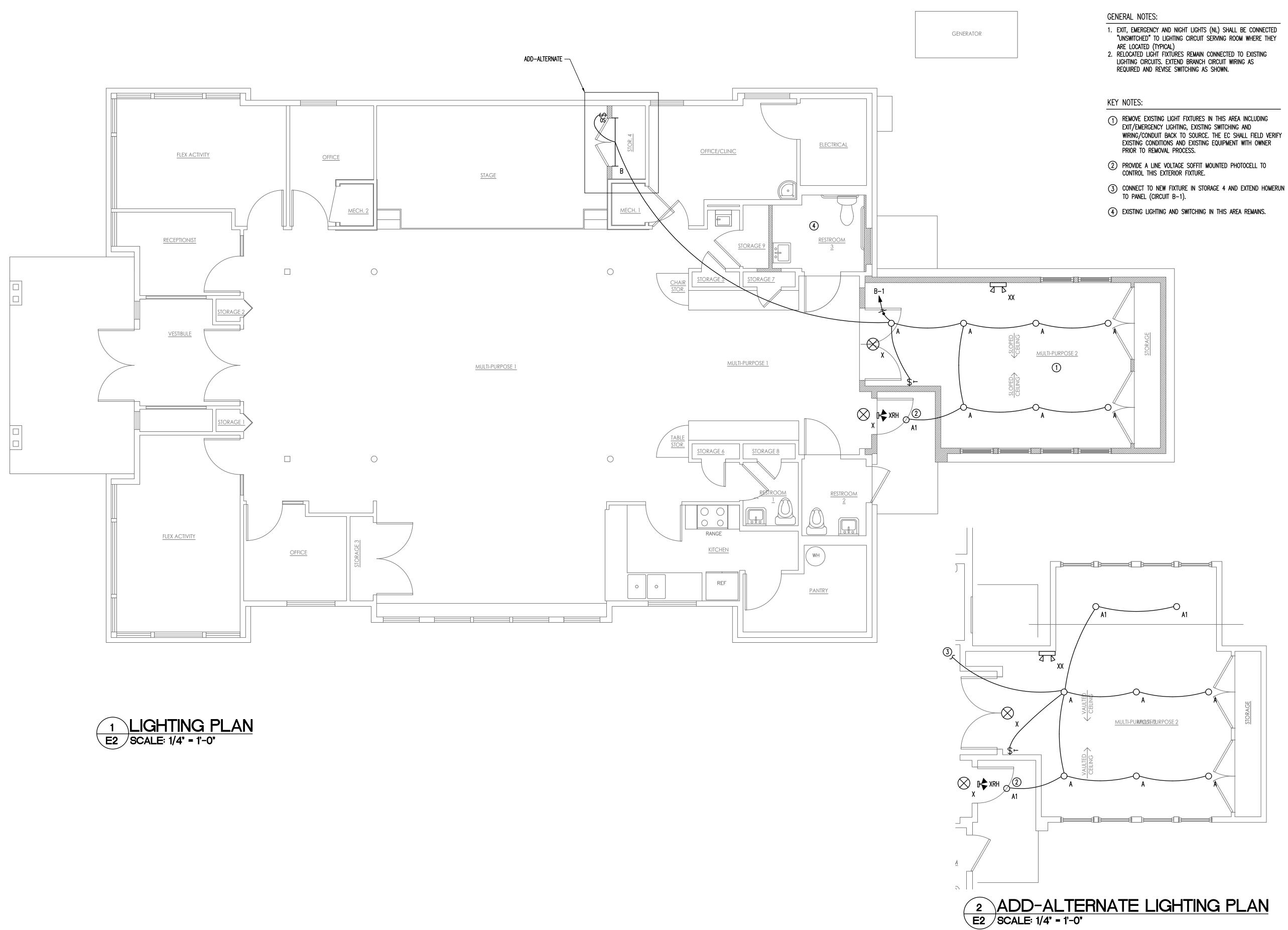
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C-1474

REVISIONS	
NO.	DATE

DATE	SHEET
07.15.24	
SCALE	
AS NOTED	C1
DRAWN	
CG	
PROJECT NUMBER	



- 1. EXIT, EMERGENCY AND NIGHT LIGHTS (NL) SHALL BE CONNECTED "UNSWITCHED" TO LIGHTING CIRCUIT SERVING ROOM WHERE THEY

- WIRING/CONDUIT BACK TO SOURCE. THE EC SHALL FIELD VERIFY EXISTING CONDITIONS AND EXISTING EQUIPMENT WITH OWNER



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Bret Horton Architect

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Efland Cheeks **Community Center**

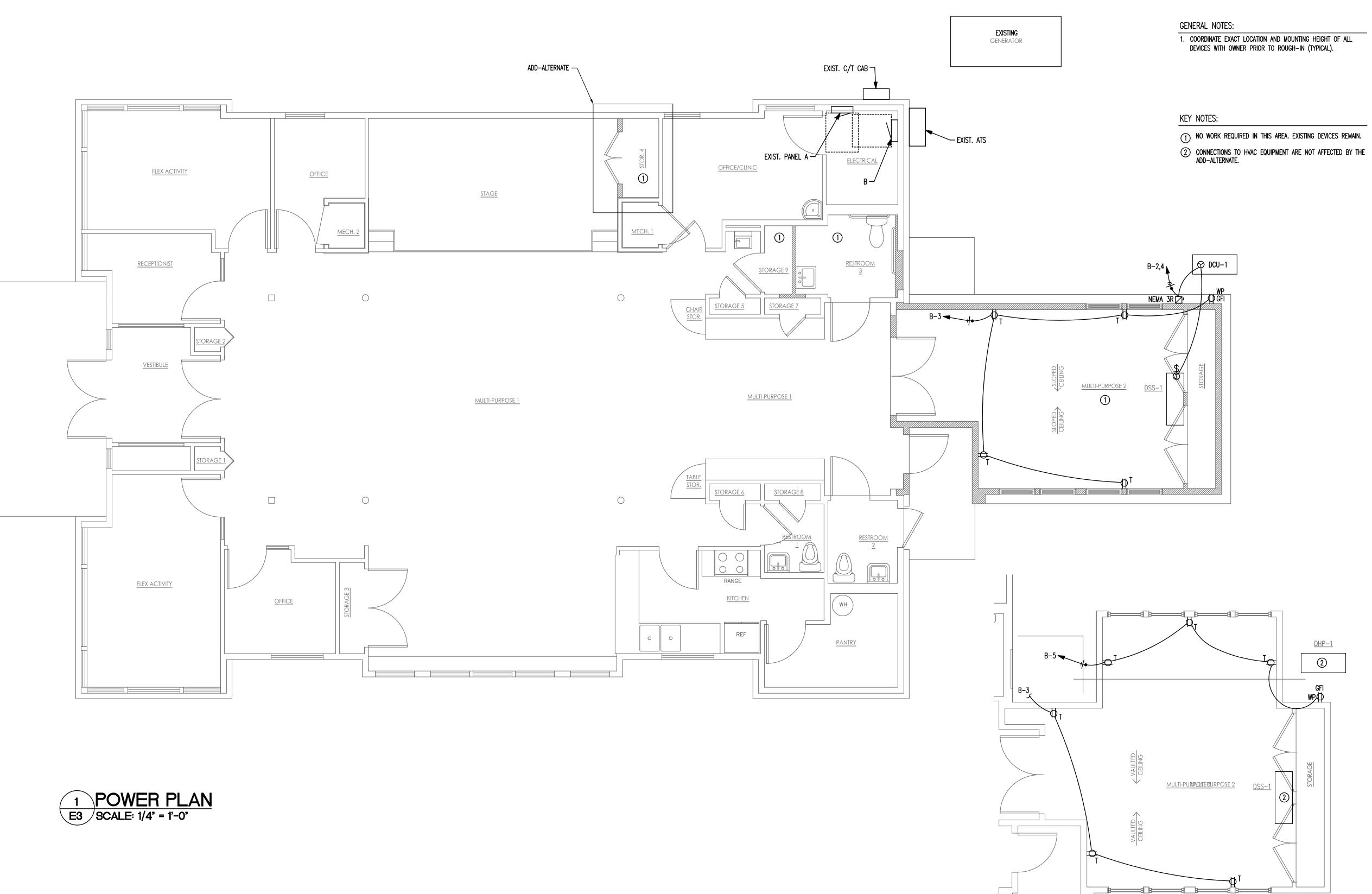
Covered Patio Enclosure Renovation

117 Richmond Road Mebane, NC 27302

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NO.	DATE	

DATE	SHEET
07.15.24	
SCALE	— -
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PROJECT NUMBER	





2 ADD-ALTERNATE POWER PLAN E3 SCALE: 1/4" = 1'-0"



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Efland Cheeks **Community Center**

Covered Patio Enclosure Renovation

117 Richmond Road Mebane, NC 27302

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REVISIONS	
NO.	DATE

DATE	SHEET
07.15.24	
SCALE	— -
AS NOTED	C 2
DRAWN	EJ
CG	
PROJECT NUMBER	

CALLOUT	SYMBOL	DESCRIPTION	MODEL	LAMP	MOUNTING	INPUT WATTS	VOLTS	NOTE 1
A	0	6" ROUND LED DOWNLIGHT - SLOPED CEILING ADAPTER	GOTHAM EV06-35-25-AR-LSS-MD-MVOLT-GZ10-SCA(12/4)	(1) LED	RECESSED	25	120V 1P 2W	
A1	0	6" ROUND LED DOWNLIGHT	GOTHAM EVO6-35-25-AR-LSS-MD-MVOLT	(1) LED	RECESSED	25	120V 1P 2W	DAMP LABEL
В	i	4' LENSED STRIPLIGHT	COLUMBIA LCL-4-35-ML-ED-U	(1) LED	SURFACE	42	120V 1P 2W	
X	\otimes	EXIT SIGN	COMPASS CER	(1) LED	WALL/CEILING	2	MULTIPLE	UNSWITCHED
XRH	*	EMERGENCY LIGHT (REMOTE HEAD)	COMPASS CORD	(1) LED	WALL/CEILING	2	MULTIPLE	UNSWITCHED
XX	ГР ГР	EMERGENCY LIGHT	COMPASS CU2	(1) LED	WALL/CEILING	1	MULTIPLE	UNSWITCHED

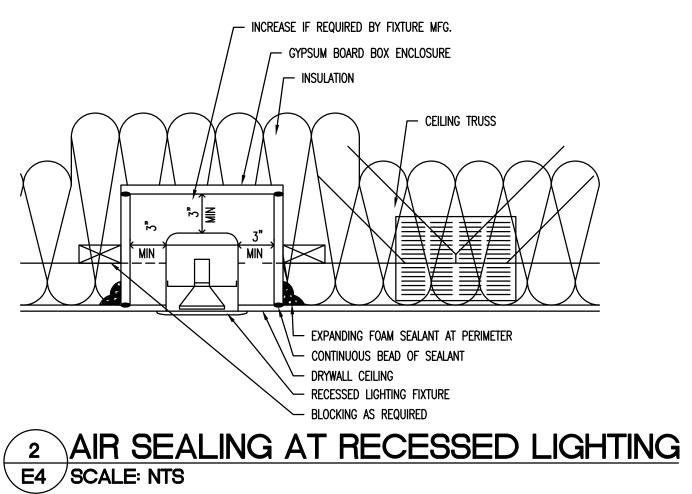
GENERAL LIGHTING FIXTURE SCHEDULE NOTES:

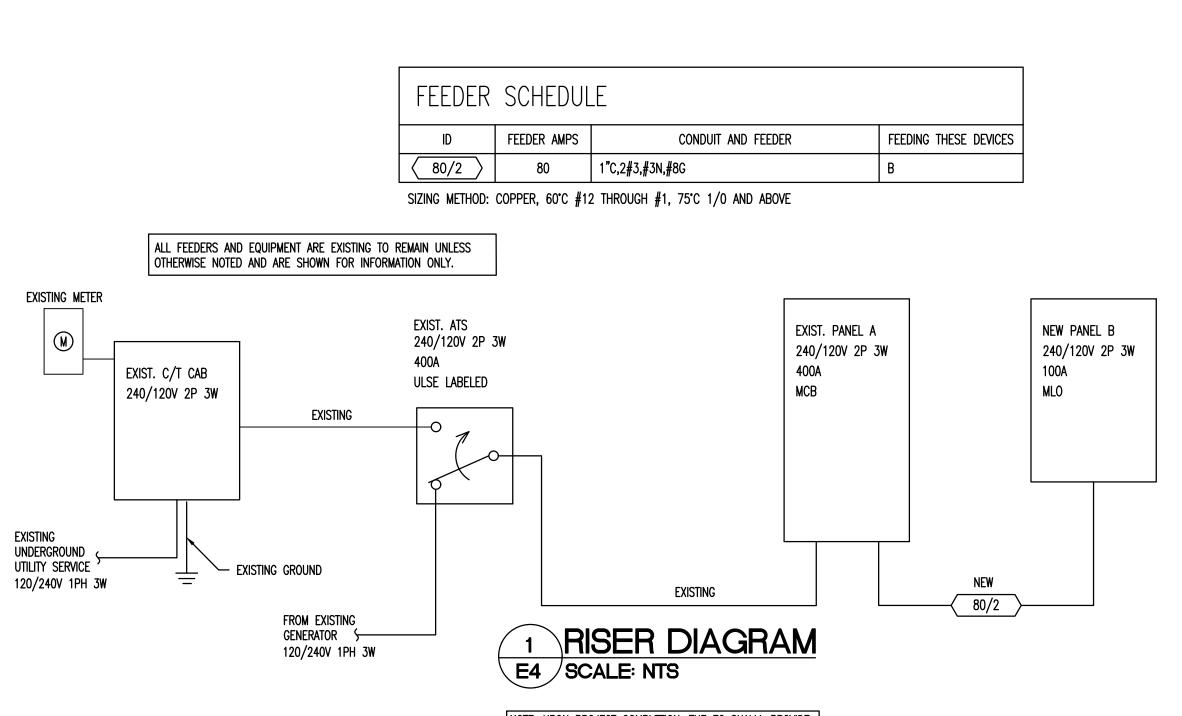
1. FIXTURES OF EQUAL QUALITY MAY BE SUBMITTED. ALL FINAL FIXTURE TYPES, FINISHES AND ANY SUBSTITUTIONS SHALL BE REVIEWED/APPROVED

BY ARCHITECT PRIOR TO RELEASE. 2. ALL EXIT, EMERGENCY & NIGHT LIGHTS (NL) SHALL BE CONNECTED "UNSWITCHED" TO LIGHTING CIRCUIT SERVING ROOM WHERE THEY ARE

LOCATED. 3. COORDINATE EXACT LOCATION & MOUNTING HEIGHT WITH PLUMBING & MECHANICAL CONTRACTORS SO THAT FIXTURE IS SUSPENDED BELOW

PIPING & DUCTWORK. 4. SEE ARCHITECTURAL ELEVATIONS & COORDINATE WITH GC FOR MOUNTING HEIGHTS.





NOTE: UPON PROJECT COMPLETION, THE EC SHALLL PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND ALTERED PANELBOARDS WITH CIRCUIT DESIGNATIONS COMPLYING WITH THE REQUIREMENTS OF NEC 408.4(A).

	ITING SL			BUS	TS 240/120 AMPS 400 ITRAL 100%		3W						
FED FROM EXIST. ATS NOTE			NLO					LUGS STAN					
скт	СКТ				LOAD	KVA	СКТ	СКТ				LOAD	KVA
#	BKR	CIRCUIT	DESCRIPTION		А	В	#	BKR	CIRCUIT DESCRIPTIC)N		А	В
1	20/1	EXIST. L	OAD		0.60		2	80/2	PANEL B			3.66	
3	20/1	EXIST. L				0.80	4	ÍÍ					3.78
5	20/1	EXIST. L	OAD		0.80	•	6	20/1	EXIST. LOAD			0.54	•
7	20/1	EXIST. L	OAD			0.50	8	20/1	EXIST. LOAD				0.72
9	20/1	EXIST. L	OAD		0.70		10	20/1	EXIST. LOAD		ĺ	0.54	
11	20/1	EXIST. L	OAD			0.40	12	20/1	EXIST. LOAD				0.72
13	20/1	EXIST. L	OAD		0.20		14	20/1	EXIST. LOAD			0.72	l
15	20/1	EXIST. L	OAD			0.30	16	20/1	EXIST. LOAD				0.72
17	20/1	EXIST. L	OAD		0.10		18	20/1	EXIST. LOAD			0.90	
19	20/1	EXIST. L	OAD			0.10	20	20/1	EXIST. LOAD				0.90
21	20/1	EXIST. L	OAD		0.20	Ĩ	22	20/1	EXIST. LOAD		ľ	0.90	
23	20/1	EXIST. L	OAD			0.20	24	20/1	EXIST. LOAD				0.10
25	20/1	EXIST. L	OAD		0.60		26	20/1	EXIST. LOAD			0.50	
27	20/1	EXIST. L	OAD			1.00	28	20/1	EXIST. LOAD				0.54
29	30/2	EXIST. L	OAD		2.25		30	25/1	EXIST. LOAD			0.40	
31						2.25	32	20/1	EXIST. LOAD				0.70
33	50/2	EXIST. L	OAD		4.80		34	60/2	EXIST. LOAD			5.75	
35						4.80	36						5.75
37	25/1	EXIST. L	OAD		0.72		38	60/2	EXIST. LOAD			5.75	
39	20/1	EXIST. L	OAD			0.54	40						5.75
								-	TOTAL CONNEC	TED KVA BY P	HASE	30.63	30.57
			CONN KVA	CALC KVA					CONN KVA	CALC KVA			
LIGHT	NG		5.74	7.18	- (125%)		CONTIN	IUOUS	4.90	6.13	- (125%)		
	ST MOTOR		11.50	2.88	(25%)			NTINUOUS	1.10	1.10	(100%)		
MOTO			0.70	0.70	(100%)		HEATIN		36.92	36.92	(100%)		
	PTACLES		11.84	10.92	(50%>10)		COOLIN		27.32	0.00	(0%)		
					- •		TOTAL	LOAD		65.82			
								CED LOAD		274.24 A			

	$\langle S $	T. PANE										
	ITING SU FROM EX	JRFACE XIST. ATS	BUS	TS 240/120 SAMPS 400 JTRAL 100%)	3W		400 DARD				
СКТ	СКТ			LOAD	KVA	СКТ	СКТ				LOAD	KVA
#	BKR	CIRCUIT DESCRIPTION		A	В	#	BKR	CIRCUIT DESCRIPTION	N		А	В
1	20/1	EXIST. LOAD		0.60		2	80/2	PANEL B			3.66	
3	20/1	EXIST. LOAD			0.80	4						3.78
5	20/1	EXIST. LOAD		0.80		6	20/1	EXIST. LOAD			0.54	
7	20/1	EXIST. LOAD			0.50	8	20/1	EXIST. LOAD				0.72
9	20/1	EXIST. LOAD		0.70		10	20/1	EXIST. LOAD			0.54	
11	20/1	EXIST. LOAD			0.40	12	20/1	EXIST. LOAD				0.72
13	20/1	EXIST. LOAD		0.20		14	20/1	EXIST. LOAD			0.72	
15	20/1	EXIST. LOAD			0.30	16	20/1	EXIST. LOAD		ĺ		0.72
17	20/1	EXIST. LOAD		0.10	Ĩ	18	20/1	EXIST. LOAD			0.90	
19	20/1	EXIST. LOAD			0.10	20	20/1	EXIST. LOAD				0.90
21	20/1	EXIST. LOAD		0.20	ľ	22	20/1	EXIST. LOAD			0.90	
23	20/1	EXIST. LOAD			0.20	24	20/1	EXIST. LOAD		·		0.10
25	20/1	EXIST. LOAD		0.60	ľ	26	20/1	EXIST. LOAD		ľ	0.50	
27	20/1	EXIST. LOAD			1.00	28	20/1	EXIST. LOAD				0.54
29	30/2	EXIST. LOAD		2.25		30	25/1	EXIST. LOAD			0.40	
31					2.25	32	20/1	EXIST. LOAD				0.70
33	50/2	EXIST. LOAD		4.80		34	60/2	EXIST. LOAD			5.75	
35				1	4.80	36						5.75
37	25/1	EXIST. LOAD		0.72	1	38	60/2	EXIST. LOAD		ľ	5.75	0.70
39	20/1	EXIST. LOAD		0.72	0.54	40					0.70	5.75
	20/1				0.01		. 1	TOTAL CONNECT			30.63	
		CONN KVA	CALC KVA					CONN KVA	CALC KVA		50.05	50.57
				- , .								
LIGHT		5.74	7.18	(125%)		CONTIN		4.90	6.13	(125%)		
	EST MOTOR	11.50	2.88	(25%)			NTINUOUS	1.10	1.10	(100%)		
MOTO		0.70	0.70	(100%)		HEATIN		36.92	36.92	(100%)		
RECE	PTACLES	11.84	10.92	(50%>10)		COOLIN	IG	27.32	0.00	(0%)		
						total Balanc	load Ced load		65.82 274.24 A			
	key notes:											
		20A/1P CIRCUITS TO NEW PANE					_					

LIGHTING LARGEST MOTOR		···· ··· ··· ··· ··· ··· ··· · ··· · ··· ·					Recept Heating Coolin	G	2.88 4.32 4.32	4.32 4.32	(50%) (100) (0%)	•			
			CONN KVA	CALC KVA	_				CONN KV	A CALC KVA					
									TOTAL CONNE	CTED KVA BY	PHASE	3.66	3.7		
23	_/1	SPACE				0.00	24	_/1	SPACE				0.0		
21	—/1 —/1	SPACE			0.00		20	/1	SPACE			0.00			
7 9	-/1 -/1	SPACE SPACE			0.00	0.00	18 20	-/1 -/1	SPACE SPACE			0.00	0.0		
5	-/1	SPACE				0.00	16	-/1	SPACE				0.		
3	-/1	SPACE			0.00		14	́/1	SPACE			0.00			
11	-/1	SPACE				0.00	12	/1	SPACE				0.		
9	-/1 -/1	SPACE			0.00		10	20/1 -/1	FROM PANEL A	NUUT KELUUAT	Ľν	0.00			
5 7	20/1	RECEPTA	CLE		0.72	0.00	6 8	20/1 20/1	EXIST. RECEP. CI FROM PANEL A EXIST. RECEP. CI			0.54	0.		
3	20/1	RECEPTA				0.90	4						2.		
1	20/1	LIGHTING			0.24		2	25/2	DCU-1			2.16			
кт #	CKT BKR	CIRCUIT	DESCRIPTION		LO	AD KVA	СКТ #	CKT BKR		TION		LOAD A) кv		
FED FROM EXIST. PANEL A N NOTE			EL A	BUS	.TS 240/1 5 AMPS 10 JTRAL 100	00) v v		AIC 10,000 MAIN BKR MLO LUGS STANDARD						

1. EXISTING LOADS ACCOUNTED FOR BY FIELD INVESTIGATION. 2. *EXIST. - INDICATES BREAKER/CIRCUIT IS EXISTING TO REMAIN. ALL OTHER BREAKERS/CIRCUITS SHOWN ARE NEW.

3. PANELBOARD CONFIGURATIONS ARE BASED ON PREVIOUS AS-BUILT DOCUMENTS AND MAY VARY ONSITE. EC SHALL FIELD VERIFY EXISTING CONDITIONS AND MODIFY ACCORDINGLY.

4. PROVIDE BLANK FILLER COVERS OVER EMPTY BREAKER SLOTS.

5. ALL UNUSED BREAKERS SHALL BE TURNED TO THE "OFF" POSITION & LABELED AS "SPARES" ACCORDINGLY. 6. ALL NEW 120V, SINGLE-PHASE, 15- & 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES SHALL BE PROTECTED BY ARC-FAULT CIRCUIT-INTERRUPTER PER NEC 210.12.

EQUIPMENT SCHEDULE

							_
	CALLOUT	SYMBOL	NEMA	VOLTAGE	BREAKER	CIRCUIT	
	DCU-1	0^¤	NEMA 3R	240/120V 2P	25/2	B-2,4	

GENERAL NOTE: VERIFY BREAKER & WIRE SIZES WITH EQUIPMENT NAMEPLATES.

NOTE: UPON PROJECT COMPLETION, THE EC SHALLL PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND ALTERED PANELBOARDS WITH CIRCUIT DESIGNATIONS COMPLYING WITH THE REQUIREMENTS OF NEC 408.4(A).

MOCP WIRING NOTE 1 MCA 1/2"C,2#12,#12N,#12G 18 25 wkcc engineers | consultants ANGUS CLARK ENGINEERING PC WEST KEY CONSULTING CORPORATION 4008 BARRETT DR SUITE 204 RALEIGH NC 27609 919.881.8020 www.westkeyconsulting.com C-1474 P.O. Box 1507 CARY NORTH CAROLINA 27512 C-2726 919.859.2674

Bret	Horton Architect
	oad Street , NC 27705
919.619	
	CAROL A
	SEAL 13719
	CUS M. CLANN
	7/15/2024
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Con	nmunity Center
	ered Patio
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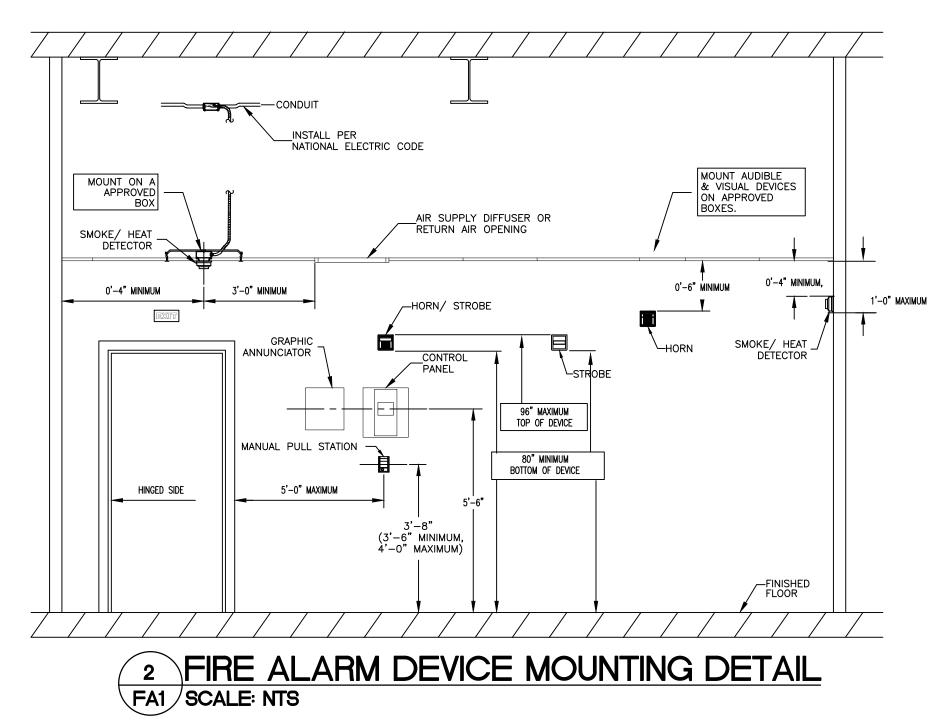
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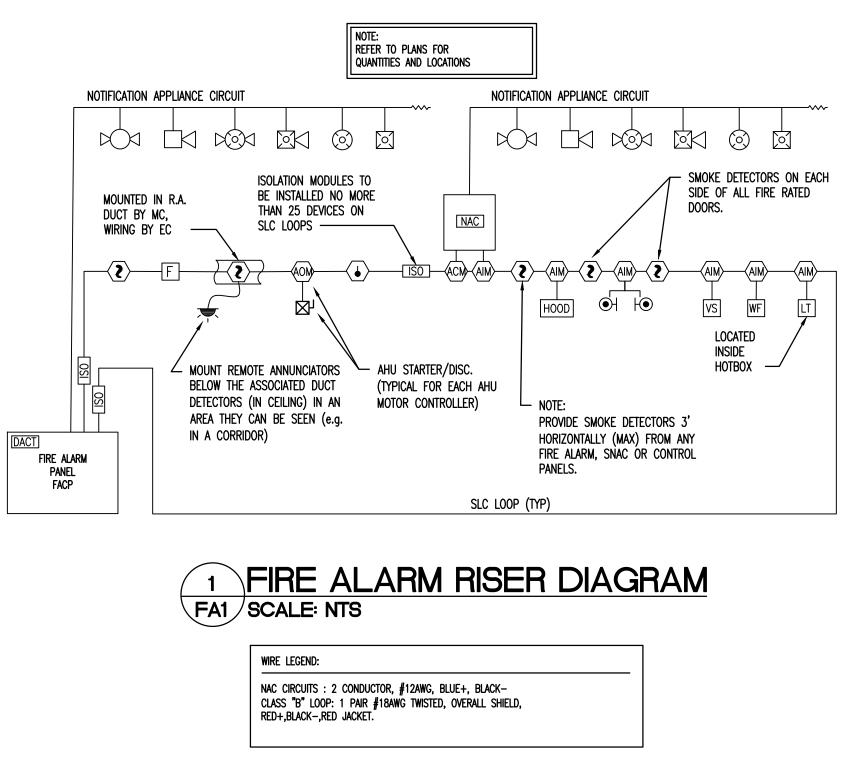
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NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS





FIRE ALARM RISER NOTES

- 1. PROVIDE "ADDRESSABLE" FIRE ALARM SYSTEM AS SHOWN. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 72. ALL WIRING SHALL BE SIZED AS REQUIRED BY THE MANUFACTURER.
- 2. SEE FIRE ALARM PLAN FOR LOCATION AND NUMBER OF DEVICES. THE DRAWINGS INDICATE THE SUGGESTED LOCATIONS FOR INITIATING, NOTIFICATION, AND OTHER MISCELLANEOUS DEVICES INDIRECTLY CONNECTED TO THE FIRE ALARM SYSTEM. MISCELLANEOUS REQUIREMENTS ARE FOR THE GENERAL INFORMATION OF THE CONTRACTOR EXACT LOCATIONS, INSTALLATIONS, AND CONNECTIONS SHALL BE PER FIRE ALARM MANUFACTURERS INSTRUCTIONS AND DIRECTIONS FOR A COMPLETED SYSTEM. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL BOXES, JUNCTION BOXES, AND MISCELLANEOUS REQUIREMENTS AS REQUIRED BY FIRE ALARM EQUIPMENT SUPPLIER.
- 3. PROVIDE BATTERY CALCULATIONS FOR THE DEVICES REQUIRED. ALLOW 25% ADDITIONAL CAPACITY FOR FUTURE DEVICES.
- 4. FIRE SEAL ALL CONDUIT PENETRATIONS.
- 5. PROVIDE GRAPHIC ANNUNCIATOR CHART AT THE MAIN LOBBY TO INDICATE ALL DEVICE POINT ASSIGNMENTS AND LOCATIONS.
- 6. ALL COMPONENTS SHALL BE COMPATIBLE. PROVIDE ALL NECESSARY CONTROL WIRING AND CONDUIT PER MANUFACTURERS REQUIREMENTS.
- 7. INITIATION OF FIRE ALARM SHALL CAUSE ALL AIR HANDLING UNITS TO SHUT DOWN.
- 8. ALL DEVICES/SUBMITTALS SHALL BE APPROVED BY THE FIRE MARSHALL PRIOR TO ORDERING/INSTALLATION.
- 9. COORDINATE WITH ELEVATOR CONTRACTOR/GC AND PROVIDE ALL CONTROL MODULES/RELAYS TO ACCOMPLISH ELEVATOR RECALL.
- 10. COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH SPRINKLER CONTRACTOR.
- 11. COORDINATE QUANTITY, LOCATION AND VOLTAGE OF FIRE DAMPERS WITH MECHANICAL CONTRACTOR. THE FIRE ALARM INSTALLER SHALL BE RESPONSIBLE FOR ALL WIRING REQUIRED TO FACILITATE DAMPER CONTROL FUNCTIONS AS INITIATED BY THE FACP.

NFW -	FIRE ALARM SCHEDULE	
SYMBOL	CALLOUT	
$\boxtimes \!$	AUDIBLE-VISUAL APPLIANCE (WALL MOUNTED)	CANDELA RA
(2)	SMOKE DETECTOR SENSOR - PHOTOELECTRIC TYPE	

EXISTIN	} –	FIRE	ALARM	SCHEDULE	
SYMBOL			CALLOUT		

	01111202	0,122001	
	[F]	PULL STATION – FIRE ALARM	
		VISUAL ONLY APPLIANCE (CEILING MOUNTED)	Candela R/
Ì			

"E" INDICATES DEVICE IS EXISTING TO REMAIN "R" INDICATES DEVICE IS RELOCATE

FIRE ALARM GENERAL NOTES

- 1. AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.
- 2. FIRE ALARM CONTRACTOR TO ENSURE CANDELA RATINGS OF EXISTING DEVICES MATCH THOSE INDICATED. ADJUST OR REPLACE EXISTING DEVICES AS REQUIRED TO ACHIEVE PROPER RATINGS AND COVERAGE. ALL FIRE ALARM NOTIFICATION DEVICES SHALL SYNC.
- 3. A SOUND PRESSURE LEVEL OF 75db or 15dB ABOVE AVERAGE AMBIENT NOISE LEVEL, WHICHEVER IS GREATER, IS REQUIRED IN ALL ROOMS (WITH DOORS CLOSED). ADJUST HORN OUTPUT LEVELS TO MEET THIS REQUIREMENT PRIOR TO FIRE MARSHALL INSPECTION.
- 4. EXISTING NOTIFICATION DEVICES SHALL BE FIELD INSPECTED BY FIRE ALARM CONTRACTOR TO ENSURE SYNCHRONIZATION CAPABILITY PRIOR TO PRICING. EXISTING DEVICES SHALL BE REMOVED & REPLACED AS REQUIRED.

NOTE RATING AS NOTED

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FIRE ALARM SCOPE OF WORK: PROVIDE SMOKE DETECTORS AND A HORN/STROBE IN THE ADDITION AS SHOWN.

Bret Horton Architect 1308 Broad Street Durham, NC 27705 919.619.2258 7/15/2024 This drawing and all prints of it are the property of Bret Horton Architect, PLLC. Prints are to be returned to Bret Horton Architect, PLLC upon completion of use for which they were issued. Reproduction of this drawing without the written consent of Bret Horton Architect, PLLC is not permitted. Efland Cheeks **Community Center Covered Patio Enclosure Renovation** 117 Richmond Road Mebane, NC 27302 Issued for Permitting ISSUED REVISIONS DATE NO. DATE DATE DATE DATE



ANGUS CLARK ENGINEERING PC P.O. Box 1507 CARY NORTH CAROLINA 27512 C-2726 919.859.2674

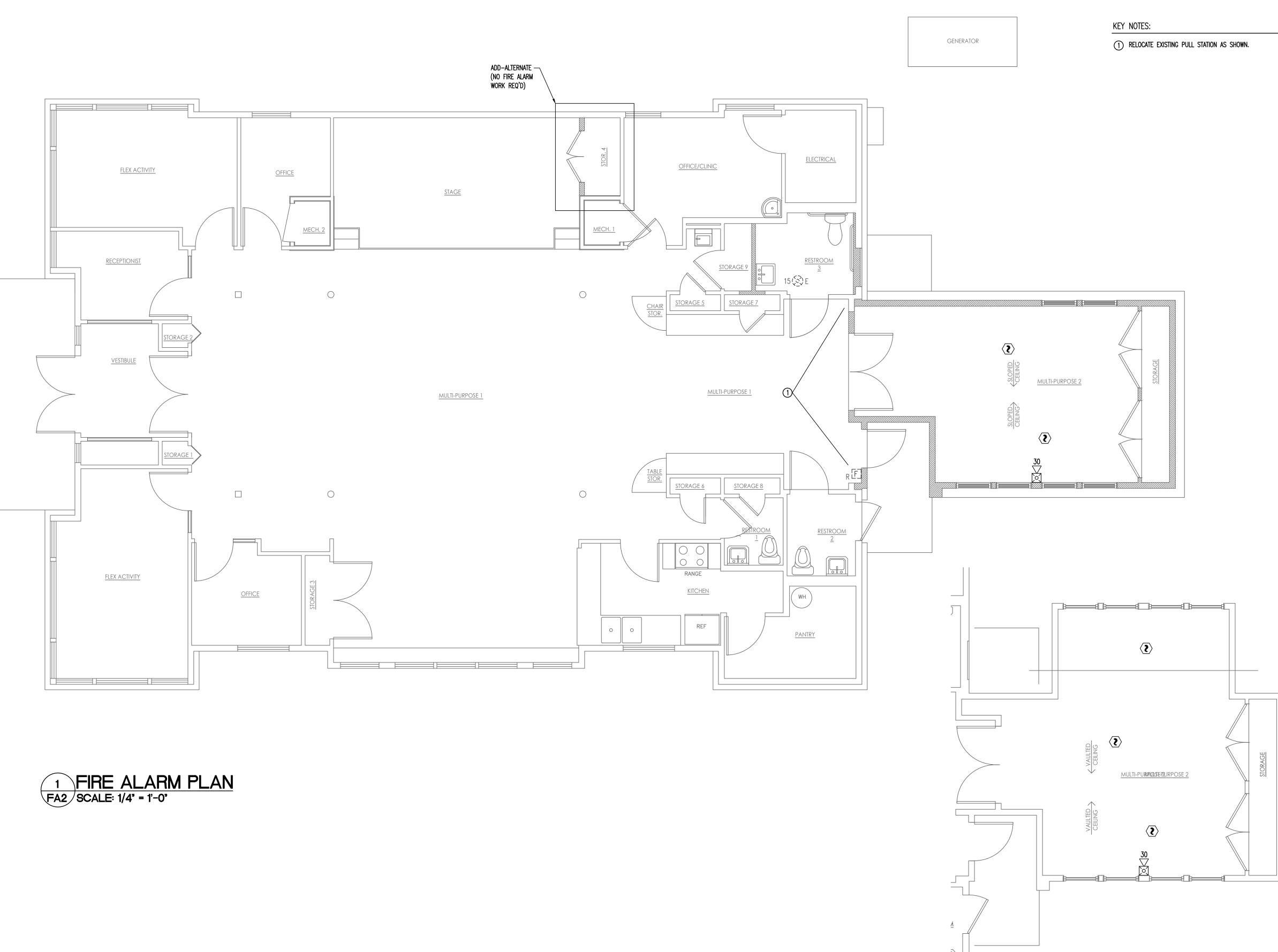
wkcc engineers | consultants

WEST KEY CONSULTING CORPORATION 4008 BARRETT DR SUITE 204 RALEIGH NC 27609 919.881.8020 www.westkeyconsulting.com C-1474

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Efland Cheeks **Community Center**

Covered Patio Enclosure Renovation

117 Richmond Road Mebane, NC 27302

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