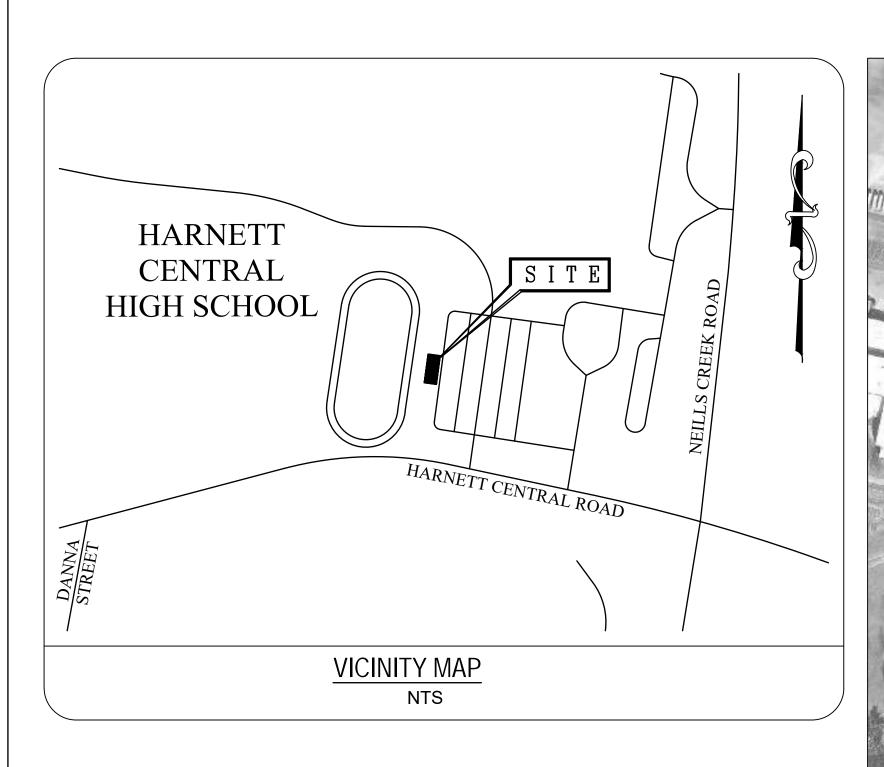
HARNETT CENTRAL PRESS BOX 2911 HARNETT CENTRAL RD, ANGIER, NC 27501





DRAWING INDEX							
SHEET#	SHEET TITLE	REVISION NUMBER	REVISION DATE				
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G-002	APPENDIX B	1	4/13/2023				
G-003	GENERAL NOTES AND ABBREVIATIONS						
G-101	FLOOR PLANS						
G-111	OVERALL ROOF PLAN						
G-201	EXTERIOR ELEVATIONS	1	4/13/2023				
G-301	BUILDING SECTIONS AND DETAILS	1	4/13/2023				
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G-501	CASEWORK DETAILS						
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G-503	GENERAL DETAILS						
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M-001	MECHANICAL NOTES LEGEND AND ABBREVS	1	4/13/2023				
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E-101	ELECTRICAL POWER PLAN						
E-201	ELECTRICAL LIGHTING PLAN	1	4/13/2023				
E-301	ELECTRICAL DETAILS	1	4/13/2023				

CLIENT

HARNETT COUNTY SCHOOL 1008 S 11th ST, LILLINGTON, NC 27546 (910) 893-8151 CONTACT: STEVE MATHEWS

Know what's below.
Call before you dig.





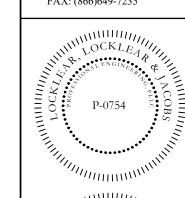
LOCKLEAR, LOCKLEAR & JACOBS

CIVIL | STRUCTURAL | MEP | ENVIRONMENTAL ENGINEERS 114 WEST 3RD. STREET - PEMBROKE, NORTH CAROLINA 28372 (910) 774-9306 WWW.LLANDJ.COM License No. P-0754

OWNER & BUILDER'S NOTES:

- PLANS SHALL NOT BE USED FOR CONSTRUCTION UNTIL STAMPED AND SIGNED BY AN ENGINEER AND APPROVED BY THE LOCAL INSPECTION DEPARTMENT. THE CONTRACTOR IS EXPECTED TO FOLLOW THESE PLANS, APPLICABLE BUILDING CODES AND LOCAL ORDINANCES. CONTRACTOR SHALL VERITY THAT SITE CONDITIONS ARE CONSISTENT WITH PLANS BEFORE STARTING WORK. WHILE PLANS ARE DRAWN TO SHOW THE PROPOSED WORK AS ACCURATELY AS POSSIBLE, SCHEMATIC DETAILS MAY BE USED IN SOME

TELEPHONE: (910)774-9306



DRAWN BY: RDH CHECKED BY: JEL SHEET TITLE

COVER SHEET

SHEET NUMBER G-001PROJECT# 21-11110

FINAL RELEASED FOR CONSTRUCTION



こしいいつきは ひるぜ、		RAL RD ANGIER, NC		e:	27501
Owner/Authorized Agent: _	STEVE MAT	HEWS Phone #	(910) 893-8		
Owned By: Code Enforcement Justifica		City/County City			State State
LEAD DESIGN PROFESSI	ONAL:	LO	OCKLEAR, LOC	KLEAR & JACOBS,	PLLC
DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE #	E-Mail
Building		Robby Locklear, P.E.		(910) 774-9306	
Civil Electrical	LL&J, PLLC	Robby Locklear, P.E.	NC 028880	(910) 774-9306	robbylocklear@lland
Fire Alarm Plumbing		Robby Locklear, P.E.	NC 028880	(910) 774-9306	robbylocklear@lland
Mechanical		Robby Locklear, P.E.	NC 028880	(910) 774-9306	robbylocklear@lland
Sprinkler-Standpipe Structural	LL&J, PLLC J	lonathan Locklear, P.E.	NC 029469	(910) 774-9306	jonathanlocklear@llar
Retaining Wall >5' High Foundation	LL&J, PLLC J	lonathan Locklear, P.E.	NC 029469	(910) 774-9306	jonathanlocklear@llan
2018 EDITION OF NC COL	DE FOR:	■ New Construction	☐ Addi	tion 🔲 Upfit	
EXISTING: Reconstru	ction	Alteration	Repa	air Renov	vation
CONSTRUCTED:	(Date)	ORIGINAL US	E(S):	(Chapter 3)	
RENOVATED:	(Date)	CURRENT US	` ,	(Chapter 3)	
		PROPOSED U	JSE(S):	(Chapter 3)	
Construction To	714	BASIC BUILD	_	□ n./	
,. <u> </u>]	□ II-A □ II-B	☐ III-A ☐ III-B	□IV	V-A V-B
Sprinklers:] Partial 🔲 Yes	s 🗌 NFPA 13	☐ NFPA 13		
— —] Yes	ıss		☐ Wet ☐ Dry ■ No ☐ Yes	
Building Height: Feet	19'-4"	⊢lood Haz 	.aru Area:	III ∐ Yes	
Gross Building Area:					
FLOOR EXISTING 6th Floor	NG (SQFT)		NEW (SQFT)		SUB-TOTAL (SQ
5th Floor					
4th Floor					
2nd Floor0 Mezzanine			279		279
1st Floor 0			267		267
Basement					
TOTAL BUILDING ARE	A:	546 sq. ft.	TOTAL FIR	E AREA:	0 s
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Assembly A-1 A Factory F-1 Moders Hazardous H-1 De Institutional I-1 I-3 Use Condition Storage S-1 Moderat Parking Gar Accessory Occupancies: Assembly A-1 A Factory F-1 Moderat Hazardous H-1 De Institutional I-1 I-3 Use Condition Storage S-1 Moderat Hazardous H-1 De Institutional I-1 I-3 Use Condition Storage S-1 Moderat Parking Gar Incidental Uses (Table 509) Furnace room where at Refrigerant machine ro Hydrogen cutoff rooms Incinerator rooms Paint shops, not classif Laboratories and vocat Group E or I-2 occupar Laundry rooms over 10 Group I-3 cells equippe Group I-2 waste and line Waste and linen collect Stationary storage of ba gallons, or a lithium-ion power or uninterrupted Rooms containing fire p Group I-2 storage room Group I-2 laundries equ Group I-2 rooms or spa Special Uses: 402 403 404 413 414 415 424 425 426 Special Provisions: 509.2 509.3 Mixed Occupancy:	ate F-2 Lo etonate H- I-2 I-3 1 2 te S-2 L age Oper A-2 A-3 I ate F-2 Lo etonate H- I-2 I-3 1 2 te S-2 L age Oper Oper	A-4	-3 Combust -3 Combust Residentian-piled pair Garage -3 Combust Mercantile Residentian-piled pair Garage -3 Combust Mercantile 15 Residentian-piled pair Garage -3 Combust Mercantile 15 Residentian-piled pair Garage -3 Combust Mercantile -3 Combust Mercantile -3 Combust -3 Combust -3 Combust -4 Capacity of more of the stand	H-4 Health H-4 Health H-4	2
Assembly	ate F-2 Lo etonate H- I-2 I-3 1 2 te S-2 Lo age Oper A-2 A-3 I-3 ate F-2 Lo etonate H- I-2 I-3 1 2 te S-2 Lo etonate H- I-2 I-3 1 2 te S-2 Lo age Oper O	A-4	-3 Combust Mercantile Is Residentian-piled Pair Garage -3 Combust Mercantile Residentian-piled Pair Garage -3 Combust -3 Combust Mercantile Residentian-piled Pair Garage -3 Combust -4 Combust -3 Combust -4 Combus	H-4 Health H-4 Health H-4	2

	·	(508.4) - See below for the area of the occup		ch that the sum of	the ratios of th	e actual	
	floor area of e	ach use divided by the	allowable floor a	area for each use	shall not exceed	d 1.	
Separated	Use Calculations						
Actual Are	a:	Α	В	С		D	
Allowable	Area:	A +	+ B	С	- +	=	0.00 <
		(A)	(B)	(C)	(D)	(E)	(F)
STORY NO.	DESCRIPTION AND USE	AREA PER STORY (ACTUAL)	TABLE 503 ³ AREA	AREA FOR OPEN SPACE INCREASE ¹	AREA FOR SPRINKLER INCREASE 2	ALLOWABLE AREA OR UNLIMITED ³	MAXIMUM BUILDING AREA ⁴
1	RESTROOMS	72	UL	N/A	N/A	N/A	N/A
1	CONCESSION	183	UL	N/A	N/A	N/A	N/A
2	PRESSBOX	279	UL	N/A	N/A	N/A	N/A
		from Section 506.3 are					
b. Tota c. Rati	ll Building Perimet o (F/P) =			feet minimum wic	Ith = (F)		
e. Perd 2. The spi	ent of frontage in	crease I _f = 100[F/P-0.2 er Section 506.2 is as f	25]xW/30 =	(%)			

		ALLOWABLE HEIGHT		
	ALLOWABLE	WITH	SHOWN ON	CODE
	(TABLE 504.3)	SPRINKLERS	PLANS	REFERENCE
Construction Type:	V-B		Type V-B	TABLE 504.3
Bldg. Height in Feet	40	60	19'-4"	TABLE 504.3
Bldg. Height in Stories	UL	UL	2	TABLE 504.3
		-	_	

4. Maximum Building Area = total number of stories in the building x E (506.2).

5. The maximum area of parking garages must comply with 406.3.4.

	FIRE		RATING			
BUILDING ELEMENT	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (w/ 1A * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATE JOINTS
Structural Frames, including columns, girders, trusses	N/A	0				
Bearing Walls						
Exterior						
South	None	0				
East	None	0				
West	None	0				
South	None	0				
Interior	None	0				
Nonbearing walls and partitions Exterior						
South	None	0				
East	None	0				
West	None	0				
South	None	0				
Interior Walls & Partitions	None	0				
Floor construction:	None	0				
Roof construction	None	0				
Shafts - Exit	None	0				
Shafts - Other	None	0				
Corridor Separation	None	0				
Occupancy Separation	None	0				
Party/Fire Wall Sep.	None	0				
Smoke Barrier Sep.	None	0				
Tenant Separation	None	0				
Incidental Use Separation	None	0				

LIFE SAFETY SYSTEM REQUIREMENTS

☐ No **Ⅲ** Yes Emergency Lighting: ☐ No **III** Yes Exit Signs: Fire Alarm: ■ No ☐ Yes Smoke Detection Systems: ■ No ☐ Yes ☐ Partial ■ No ☐ Yes Panic Hardware:

SITE PLAN NOTE

PROVIDED

EXISTING

NEITHER A SURVEY OR SITE PLAN WAS PROVIDED BY THE OWNER AT TIME OF COMPLETION OF THESE PLANS. OWNER MUST VERIFYING INFORMATION ON THIS SHEET IS CORRECT. LL&J, PLLC HAS DONE IT BEST TO VERIFY AND COMPLETE THIS SHEET IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODES WITHOUT THE USE OF SAID INFORMATION.

				LIFE SAFET	Y PLAN REQU	JIREMEN	ITS			
LIFE S	AFETY PLA	AN SHEET :	# :							
					NS (CHAPTER	R 7)				
				Y LINE LOCA ^T A WITH RESE		ANCE TO	MISSA (ED PROPE	ERTY LINES (705	; 8)
☐ EXI	STING STR	UCTURES	WITHIN	30' OF THE F	PROPOSED BI	UILDING			,	,
					RELATES TO	OCCUPA	NT LOAD	CALCULA	ATION (TABLE 10	04.1.1)
		DADS FOR TRAVEL D								
				TANCE (1014	.3 & 1028.8)					
		NGTHS (10	,	EVIT DOOD						
				EXIT DOOR	APACITY EAC	H FXIT C	AN ACC	OMMODAT	r F	
		RESS WID					,,	0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· -	
				EACH DOOR	WILEDE EIDE	DATED			ID/OD	
_					WHERE FIRE OSES OF OCC				ID/OR	
					RE (1008.1.10)					
					SS LOCKS AN MAGNETIC EG				(1008.1.9.7)	
					D-OPEN DEVIC			700.1.9.0)		
				CAPE WINDO	` ,					
				H FIRE AREA	A (902) OMPARTMENT	(407.4)				
					OMPARTMENT OTES THAT MA	` ,	BEEN			
UTII	LIZED REG	ARDING TI	HE ABO	VE ITEMS						
		ı	AC	CESSIBLE DV	VELLING UNIT	ΓS (Section	on 1107)		.	
ΓΟΤΑL	ACCESSIE UNITS	BLE ACCE	SSIBLE IITS	TYPE A UNITS	TYPE A UNITS	TYPE		TYPE B UNITS	TOTAL ACCESSIBI	ı _F
JNITS	REQUIRE		/IDED	REQUIRED	_	1	- 1	ROVIDED	UNITS PROVI	
					ESSIBLE PARI	_				
_	_	-	\ D. <	ì	SECTION 1106		0045-	DD0: "	<u> </u>	
LOT O PARKIN	ig -	AL # OF PA	1		# OF ACCE			N SPACES	101712	
AREA	RE	QUIRED	PR	ROVIDED	ACCESS A		132" ACCE	SS 96" ACC	PROVID)ED
NEW										
EXISTIN										
TOTA	L									
Importa Wir Sno	LOADS: ance Factor nd (lw): ow (ls):	1.0 1.0		Live Load Roof: Mezza		20 100	psf psf	Ground Snow L	oad: <u>15</u>	psf
	smic (le):	1.0		Floor:		100	psf			
Wind L		asic Wind S cposure Cat		12 B	<u>0</u> mph (<i>A</i>	ASCE-7)				
		ind Base Sl	• .	r MWFRS)	Vx =	3,500	lbs	Vy =	7,700	lbs
		I CATEGOR	_]C D					
Provide		ing Seismic cy Category	•	Parameters:						
	•	Response A	`	,						
	•	sification (T			<u>10.0 </u>					
		Data Soul	ce: [Field Test				Data		
	Basic str	uctural systo Bearir			I w/Special Mo	ment Fra	me			
		Buildi	•	_	l w/Intermediat			Steel		
	6 :	_	nt Fram	_	erted Pendulum					
		pase shear:			lbs Vy = <u>2,9</u>				、	
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				•		_	_			
LATEF	RAL DESIG	N CONTRO		Earthquake Wind	SOIL BEARI Field Test				n	esf
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					Pile size, t	ype, and	capacity			-
SPECI	AL INSPEC	TIONS RE	QUIRED	: III No 🗌 Y	es: See below					
☐ Fa	abricators (1	704.2)			☐ Vertical	Masonry	Foundat	ion Elemen	ts (1704.11)	
St	eel Constru	ction (1704	.3)		 ☐ Sprayed	d Fire-res	istant Ma	iterials (170)4.12)	
_	onstruction	(1704.4) struction (1	704 51						t Coatings (1704. ns - EFIS (1704.14	
_	•	struction (1 uction (1704	,			· Insulatio Cases (1		nən əystem	13 - EFIS (1/U4.14	* /
U Ve	erification of	Soils (1704	1.7)		Smoke	Control (1704.16)			
	· ·	Foundations	•	'		equireme	•	•		
_		Deep Foun		` /	∐ Seismic	Resistar	ice (1707)		
			, · ·	·						
				PLUMBING F	IXTURE REQ	UIREMEI	NTS			
-	JSE	WATERC	LOSETS	URINALS	LAVATOF		SHOWER	``J	NKING FOUNTAI	NS
Ų	JOE	MALE		-T UKINALS	MALE		/ TUBS		II AR ACCESS	SIBLE

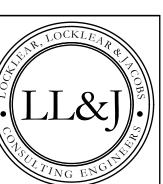
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SPECIAL APPROVALS CAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC ETC, DESCRIBE BELOW) **ENERGY SUMMARY** REQUIREMENTS: ollowing data shall be considered minimum and any special attribute required to meet the y code shall also be provided. Each designer shall furnish the required portions of the t information for the plan data sheet. If performance method, state the annual energy or the standard reference design vs annual energy cost for the proposed design... Prescriptive (Energy Code) Performance (Energy Code) Performance (ASHRAE 90.1) AL ENVELOPE /ceiling Assembly (each assembly) FILLED CAVITY FIBERGLASS INSULATION } escription of assembly: -Value of total assembly: -Value of insulation: kylights in each assembly: U-Value of skylight: tal square footage of skylights in each assembly: rior Walls (each assembly) WOOD FRAMED WALL escription of assembly: J-Value of total assembly: -Value of insulation: penings (windows or doors with glazing) U-Value of assembly: SHGC coefficient: projection factor: low e required, if applicable: Door R-Values: 1.45, 1.3 FOR ENTRANCE DOOR s below grade (each assembly escription of assembly: Value of total assembly -Value of insulation: s over unconditioned space (each assembly escription of assembly Value of total assembly -Value of insulation: s slab on grade: SLAB ON GRADE escription of assembly: -Value of total assembly NOT REQUIRED -Value of insulation: orizontal/Vertical requirement lab heated: MECHANICAL SUMMARY MECH. SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT design conditions 70° F 50% ve humidity: {15,000 BTU/HR heating load: 2.6 TON cooling load: ical Spacing Conditioning System HEATPUMP escription of unit: SEE EQUIPMENT SCHEDULES eating efficiency: SEE EQUIPMENT SCHEDULES ooling efficiency: ze category of unit: ize category. If oversized, state reason: Size category. If oversized, state reason: pment efficiencies: ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT d Of Compliance rgy Code: Prescriptive Performance
HRAE 90.1: Prescriptive Performance schedule: (each fixture type) type required in fixture: ber of lamps in fixture: N/A st type used in the fixture: N/A ber of ballasts in fixture: SEE LIGHTING SCHEDULE wattage per fixture: 366 VS 537 { interior wattage specified vs allowed: whole building or space by space) exterior wattage specified vs allowed: al Prescriptive Compliance 506.2.1 More Efficient Mechanical Equipment 506.2.2 Reduced Lighting Power Density 506.2.3 Energy Recovery Ventilation System 506.2.4 Higher Efficiency Service Water Heating 506.2.5 On-Site Supply of Renewable Energy 506.2.6 Automatic Daylighting Control Systems



P.O. BOX 3119 PEMBROKE, NC 28372 TELEPHONE: (910)774-9306 FAX: (866)649-7235

028880 4/13/202/3///////

PRESS BOX SCHOOLS
RAL RD

2 | 1 | 2 | 8 | 4 | 8

DATE: 1/10/2023 DRAWN BY: RDH CHECKED BY: JEL SHEET TITLE

APPENDIX B

SHEET NUMBER G-002

PROJECT# 21-11110

FINAL RELEASED FOR CONSTRUCTION

PROJECT# 21-11110

8 SUPPORT POST DETAIL
8 NTS

OVERALL BUILDING SECTION

SUPPORT CROSS MEMBER PERPENDICULAR TO METAL BAR

METAL BAR GRATE

SUPPORT POSTS BOLTED TO PLATFORM BASE.

REFER TO DETAIL 3/S-103 —

FOR FOOTER DESIGN (8/G-301 FOR REFERENCE)

GRATE

5 MEDIA PLATFORM DETAIL

5 NTS

(SEE 7/G-301 FOR REFERENCE)

\PLATFORM BRACKET CONNECTION

NOTE: THIS DRAWING IS FOR REFERENCE ONLY. ALL DIMENSIONS AND STRUCTURAL

CONNECTIONS ARE TO BE DESIGNED BY FABRICATOR PER THE CONTRACTOR'S

REQUEST. THE STRUCTURAL ENGINEER WILL REVIEW THE DESIGN AND ADVISE AS NEEDED TO PROVIDE A SECURE AND STABLE PLATFORM. THE ENTIRE STRUCTURE IS

TO BE BLACK POWDER COATED. STAIR CONNECTIONS TO THE BUILDING ARE TO BE

DETERMINED BY THE FABRICATOR.

FINAL RELEASED FOR CONSTRUCTION

BUILDING SECTIONS AND DETAILS

G-301

PROJECT# 21-11110

HEET NUMBER

MECHANICAL NOTES

- 1. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF THE VENTILATION AND AIR CONDITIONING SYSTEMS. DETAILS OF CONSTRUCTION AND OF WORKMANSHIP WHERE NOT SPECIFICALLY DESCRIBED HEREIN OR INDICATED ON THE DRAWINGS SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE COMPLETE SYSTEMS, LEFT IN GOOD WORKING ORDER, READY FOR OPERATION, INCLUDING NECESSARY LABOR AND MATERIALS, WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS OR MENTIONED HEREIN. IT IS NOT THE INTENTION OF THESE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER TO AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER COST OR INSTRUCTIONS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST APPLICABLE CODES AND STANDARDS LISTED BELOW. IN ADDITION THE WORK SHALL COMPLY WITH ANY LOCAL, STATE OR FEDERAL CODES, STANDARDS, AND REGULATIONS, HAVING JURISDICTION IN THE AREA WHERE THE EQUIPMENT OR WORK WILL BE INSTALLED
 - AMERICAN AIR BALANCE COUNCIL
 - AMCA AIR MOVING AND CONTROL ASSOCIATION, INC. ANSI AMERICAN NATIONAL STANDARD INSTITUTE
 - AIR CONDITIONING AND REFRIGERATION INSTITUTE
 - **ASHARE** AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
- ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
- ASTM AMERICAN SOCIETY OF TESTING AND MATERIALS
- NEC NATIONAL ELECTRICAL CODE
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION SMACNA SHEET METAL AND AIR CONDITION CONTRACTORS NATIONAL ASSOCIATION
- UNDERWRITERS LABORATORY UL
- BOCA THE BOCA NATIONAL MECHANICAL CODE LATEST EDITION
- ALL CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS AND EQUIPMENT LOCATIONS PRIOR TO FABRICATION AND PURCHASE OF NEW EQUIPMENT. (I.E. DIFFUSERS, ETC...)
- 3. THE CONTRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS FOR PROPER INSTALLATION OF NEW WORK, AND INCLUDE ALL MATERIALS AND LABOR IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
- 4. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS, CONDUCT A COMPLETE FIELD SURVEY TO FAMILIARIZE THEMSELVES WITH ALL THE REQUIREMENTS OF THE PROJECT, AND SHALL NOTIFY THE OWNER/ENGINEER OF ANY OBSERVED FAULTS AND AMBIGUITY IN THE CONTRACT DOCUMENTS.
- 5. BY SUBMISSION OF BID, THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THE CONTRACT DOCUMENTS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.
- SUBMISSION OF A PROPOSAL SHALL BE CONSTRUCTED AS EVIDENCE THAT EXAMINATION OF PLANS HAVE BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AS EXAMINATION.
- 7. ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER/ENGINEER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR. PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR A COMPLETE AND SAFE INSTALLATION OF HVAC SYSTEMS IN FULL CONFORMITY WITH REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION. INCLUDE ALL COSTS FOR PERMITS, LICENSES, CERTIFICATES, FILING AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION; AS INDICATED ON DRAWINGS AND/OR HEREIN SPECIFIED FOR THE SYSTEMS INCLUDED.
- WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL. ALL SYSTEMS SHALL BE CLEAN OF FOREIGN MATERIAL AND ROUGH SPOTS PRIOR TO BEING PLACES IN SERVICE AND BEFORE OPERATIONAL TESTS ARE PERFORMED. THE CONTRACTOR SHALL THOROUGHLY CLEAN HIS WORK AREA DAILY. CONTRACTOR SHALL THOROUGHLY CLEAN ALL AIR HANDLING UNITS AND REPLACE FILTERS, AS WELL AS REMOVE ALL TRASH AT COMPLETION OF WORK.
- 9. INSTALLATION OF ALL EQUIPMENTS AND THIS ACCESSORIES SHALL BE PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS
- 10. THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF ACCEPTANCE BY OWNER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENTS SUPPLIED BY THE CONTRACTOR.
- 11. SUPPORT ALL DUCTWORK FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING.
- 12. FOR EXACT LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS REFER TO REFLECTED CEILING PLAN AND DETAILS. OBTAIN FROM THE ENGINEER THE LOCATION OF ANY APPARATUS NOT DEFINITELY LOCATED ON THE DRAWINGS. LOCATE EQUIPMENT AND ACCESSORIES IN SUCH A MANNER AS TO PROVIDE EASY ACCESS FOR PROPER SERVICE AND MAINTENANCE OF ALL EQUIPMENT AND ITEMS REQUIRING MAINTENANCE
- 13. REVIEW WITH THE ENGINEER ANY CONDITION WHICH PREVENT ADEQUATE ACCESSIBILITY FOR MAINTENANCE PRIOR TO INSTALLATION OF THE WORK, ALL EQUIPMENT AND/OR ACCESSORIES THAT ARE INSTALLED WITHOUT PROPER ACCESS, IN THE OPINION OF THE ENGINEER, AND INSTALLED WITHOUT THE ENGINEER'S APPROVAL, SHALL BE REMOVED AND REVISED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO OWNER.
- 14. ALL WALL AND ROOF OPENINGS SHALL BE WATER PROOFED AND AIR TIGHT SEALED AND SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- 15. ALL DUCTS SHALL BE FABRICATED OF GALVANIZED LOCK FORMING QUALITY STEEL, AND INSTALLED IN STRICT COMPLIANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) BULLETIN 90A, THE SHEET METAL AND AIR CONDITIONING CONTRACTORS AND NATIONAL ASSOCIATION (SMACNA) DUCT CONSTRUCTION STANDARDS. SHEET METAL DUCTS SHALL BE FABRICATED USING THE FOLLOWING MINIMUM GAUGES FOR RECTANGULAR DUCT:

DIMENSION OF LONGEST SIDE OF DUCT MINIMUM GAUGE ALL FOUR SIDES

UP THRU 12" 26 (0.022") 13" THRU 30" 24 (0.028") 31" THRU 54" 22 (0.034")

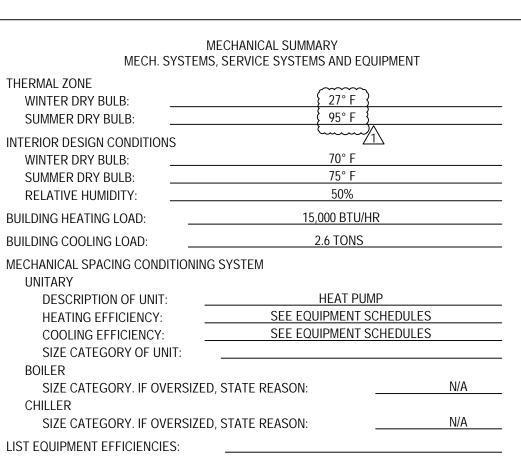
- 16. ALL DUCT DIMENSIONS SHOWN ARE INSIDE METAL DIMENSIONS AND ARE IN INCHES. DUCT SIZES HAVE BEEN INCREASED, WHERE REQUIRED, TO ALLOW FOR LINING.
- 17. MECHANICAL CONTRACTOR SHALL TAKE ACTUAL MEASUREMENTS IN THE FIELD BEFORE FABRICATION AND SHEET METAL WORK AND SHALL OBSERVE AND ALLOW FOR CLEARANCES AND SPACE REQUIREMENTS FOR PIPING AND EQUIPMENT, OR OTHER OBSTRUCTIONS.
- 18. THE DUCTWORK SHALL INCLUDE FURNISHING AND INSTALLING GALVANIZED SHEET METAL DUCTS, FLEXIBLE CONNECTIONS ROOF/WALL EXHAUST CAP, DUCT SUPPORTERS, REGISTERS, GRILLES, DAMPERS, BRACING AND OTHER ACCESSORIES TO MAKE A COMPLETE AND OPERABLE SYSTEM.
- 19. PROVIDE SQUARE ELBOWS WITH TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES, ALL TURNING VANES SHALL BE 16-GAUGE SINGLE THICKNESS METAL WITH A 4-INCH RADIUS. DOUBLE WALL TURNING VANES ARE NOT ACCEPTABLE.
- 20. ALL JOINTS IN DUCTS, CASINGS, AND PLENUMS SHALL BE SEALED TO PREVENT AIR LEAKAGE. ALL SEALANT AND TAPES SHALL HAVE A FLAME RATING UNDER 25 AND A SMOKE DEVELOPED BY HARDCAST, INC., UNITED SHEET METAL DUCT SEALER OR APPROVED EQUAL, DUCTWORK TAPE SHALL BE HARDCAST, INC., TYPE DT-5300 OR DT-5400 OR APPROVED EQUAL. TAPE ADHESIVE SHALL BE HARDCAST, INC, TYPE FTA-20, OR APPROVED EQUAL.
- 21. BRANCH TAKE-OFF TO THE CEILING MOUNTED DIFFUSERS, NOT EXCEEDING 8FT. IN LENGTH, SHALL BE BY PRE-INSULATED FLEXIBLE DUCT. FLEXIBLE DUCTS SHALL HAVE A R-6 MINIMUM VALUE AND COVERED WITH AN OUTER VAPOR BARRIER JACKET. FLEXIBLE DUCTS SHALL BE ATTACHED TO SHEET METAL MAIN DUCTS USING SPIN-IN CONICAL BELLMOUTH FITTINGS WITH DAMPERS AND LOCKING QUADRANTS.
- 22. ALL HVAC PENETRATIONS THROUGH FIRE RATED WALLS AND CEILING SHALL BE PROTECTED WITH FIRE DAMPERS, CLASSIFIED UNDER UL STANDARD 555.
- 23. A FLEXIBLE CONNECTION AT THE INLET AND OUTLET OF EACH FAN AND AIR CONDITIONING EQUIPMENT SHALL BE PROVIDED. CONNECTION SHALL BE VENTLAS (VENTFABRIC, INC.) OR APPROVED EQUAL, NOT LESS THAN 4 INCHES LONG, INSTALL IN ANGLE OR SHEET METAL FRAMES SECURELY FASTENED TO DUCTS AND EQUIPMENT. JOINTS IN FABRIC SHALL BE SEWN AND MADE AIRTIGHT WITH AN APPROVED SEALER.
- 24. ACCESS DOORS SHALL BE PROVIDED AT EACH FIRE DAMPER LOCATION. ACCESS DOORS SHALL BE RUSKIN (OR APPROVED EQUAL).
- 25. FURNISH AND INSTALL FULL SIZE COIL CONDENSATE DRAIN LINES FROM ALL AIR CONDITIONING UNITS AS INDICATED ON THE MECHANICAL DRAWINGS AND APPROVED BY THE ENGINEER. PIPE SHALL BE TYPE "L" COPPER.
- 26. REFER TO MANUFACTURER GUIDELINES FOR COPPER REFRIGERANT LINES WALL THICKNESS, TEMPER GRADES, AND INSTALLATION. FLUSH ALL LINES WITH NITROGEN.
- 27. REFER TO MANUFACTURER GUIDELINES FOR INSULATING REFRIGERANT LINES.
- 28. MECHANICAL CONTRACTOR SHALL FURNISH SUBMITTALS CONTAINING EQUIPMENT, DUCTWORK AND CONTROL DRAWINGS FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT, OR
- 29. DUCT INSULATION: R-8 INSULATION FOR ALL SUPPLY AND RETURN DUCT LOCATED IN BUILDING. DUCTWORK OUTSIDE THE BUILDING SHALL BE INSULATED EXTERNALLY USING 2" POLY ISO FOAM BOARD.
- 30. ALL NECESSARY OFFSETS AND ELEVATION CHANGES ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR TO REFLECT/COORDINATE THE REQUIRED RISE/DROPS WITH FIELD CONDITIONS. 31. ALL DUCTWORK SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE AND CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
- 32. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.
- 33. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE REQUIRED PLUMBING WORK FOR HVAC EQUIPMENT AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING REQUIRED FOR HVAC WORK SHALL BE BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND CIVIL SITE PLANS FOR WORK BY OTHERS.
- 34. ALL AIR HANDLING SYSTEMS TO BE TESTED AND BALANCED BY A NEBB OR AABC CERTIFIED FIRM.

SYMBOL	DESCRIPTION
OTWIDOL	
	T = TRANSFER — — INSTALLED LOCATION: C = CEILING
SC-1 — — —	
	DEVICE NO F = FLOOR H = HIGH SIDEWAL - — AIR QUANTITY L = LOW SIDEWALL
	IN CFM
AHU	— — — — EQUIPMENT DESIGNATION — — — — UNIT NUMBER
X	- — — — SECTION NUMBER
M-X — — —	— — — SHEET WHERE LOCATED
T ₂₋₃	THERMOSTAT (UNIT & ZONE DESIGNATION)
1	KEYED NOTE
<u> </u>	SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER, REGISTER OR GRILLE AS SCHEDULED
	CEILING RETURN GRILLE OR REGISTER AS
	SCHEDULED
	SLOT DIFFUSER AS SCHEDULED SIDEWALL GRILLE OR REGISTER AS
	SCHEDULED
DUCT SIZE	ROUND DUCT (INTERNAL SIZE INDICATED)
# x #	DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (INTERNAL SIZE INDICATED)
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER (1-1/2 HR RATED)
	SMOKE DAMPER
	TURNING VANES
—— CD ——	CONDENSATE DRAIN LINE
→	FLOW IN DIRECTION OF ARROW
	SLOPE DOWN IN DIRECTION OF ARROW
	GATE VALVE
	BUTTERFLY VALVE
	BALL VALVE
——————————————————————————————————————	
<u>'''</u>	UNION
	CAP
<u> </u>	RISE AND DROP IN PIPING
	CONCENTRIC REDUCER
<u>E.R.</u>	ECCENTRIC REDUCER
⊕ ₂₋₃	HUMIDISTAT (UNIT & ZONE DESIGNATION)
<u>\$</u>	TEMPERATURE SENSOR
\$	SMOKE DETECTOR
RT	RETURN AIR THERMOSTAT

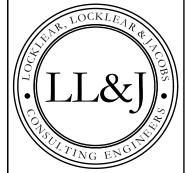
AD AEL AFF AFG AHU APD AS ATC ATM BDD BOD BTU BTUF CC CEN. CF CFM CFP CH CHW CHP CHW CHW CO CON CON CP CRA CT CTBI CUH CWP CWR CWS DB DEG DDC DHC DIA DP FAH FAT EDH EWT FXH FXT EXP FD FDP THERMAL ZONE WINTER DRY BULB: SUMMER DRY BULB: INTERIOR DESIGN CONDITIONS WINTER DRY BULB: SUMMER DRY BULB: RELATIVE HUMIDITY: BUILDING HEATING LOAD: BUILDING COOLING LOAD: MECHANICAL SPACING CONDITIONING SYSTEM UNITARY DESCRIPTION OF UNIT: HEATING EFFICIENCY: COOLING EFFICIENCY: SIZE CATEGORY OF UNIT: BOILER CHILLER

;	AIR OR COMPRESSED AIR AIR CONDITIONING	FF FLA	FINAL FILTER FULL LOAD AMPS	P PCF	PUMP POUNDS PER CUBIC FOOT
CH	AIR COOLED CHILLER	FLEX	FLEXIBLE	PD	PRESSURE DROP
D P	AUTOMATIC CONTROL DAMPER AIR COMPRESSOR	FLRDR FMS	FLOOR DRAIN FLOW MEASURING STATION	PF PH	PRE-FILTER PHASE
)	ACCESS DOOR	FPM	FEET PER MINUTE	PHC	PRE-HEAT COIL
L	AIR ELIMINATOR	FPS	FEET PER SECOND	PRV	PRESSURE REDUCING VALVE
	AIR FOIL	FRP	FIBERGLASS REINFORCED PLASTIC	PSI	POUNDS PER SQUARE INCH
F	ABOVE FINISHED FLOOR	FS 	FLOW SWITCH	PSIA	POUNDS PER SQUARE INCH -
G	ABOVE FINISHED GRADE	FT	FEET	DOID	ABSOLUTE
IU 1P	AIR HANDLING UNIT AMPERE	FTK FTR	FLASH TANK FIN TUBE RADIATION	PSID	POUNDS PER SQUARE INCH - DIFFERENTIAL
11F	ACCESS PANEL	LIK	FIN TUBE RADIATION	PSIG	POUNDS PER SQUARE INCH - GAUGE
D	AIR PRESSURE DROP	G	GAS	PUX	PUMP/HEAT EXCHANGER
_	AIR STREAM	GA	GAUGE	PVC	POLYVINYL CHLORIDE
C	AUTOMATIC TEMPERATURE CONTROL	GAL	GALLONS		
M	ATMOSPHERE	GALV	GALVANIZED	R	RADIUS
_		GFU	GLYCOL FEED UNIT	RA	RETURN AIR
D	BACK-DRAFT DAMPER	GLYP	GLYCOL PUMP	RD	RELIEF DAMPER
Р	BOOSTER FAN BRAKE HORSEPOWER	GPH GPM	GALLONS PER HOUR GALLONS PER MINUTE	RE RET	RELOCATE EXISTING RETURN
Г	BACKWARDS INCLINED	GR	GRADE	REF	REFRIGERANT
D	BOTTOM OF DUCT	GX	GENERAL EXHAUST	RF	RETURN FAN
Ū	BRITISH THERMAL UNIT	.		RGH	RELIEF GRAVITY HOOD
UH	BTU PER HOUR	Н	HUMIDIFIER	RH	RELATIVE HUMIDITY OR RELIEF HOOD
		НВ	HOSE BIB (CONNECTION)	RHC	REHEAT COIL
;	COILING COIL	HC	HEATING COIL	RL	RELIEF LOUVER
NT	CENTER OR CENTRIFUGAL	HD	HEAD	RLA	RUNNING LOAD AMPS
М	CUBIC FEET CUBIC FEET PER MINUTE	HOA HP	HAND OFF AUTOMATIC HORSEPOWER OR HIGH POINT	RLF RPM	RELIEF REVOLUTIONS PER MINUTE
ivi P	CHEMICAL FEED PUMP	пг HR	HOUR	RT	RETURN AIR THERMOSTAT
. 	CHILLED OR CHILLER	HRU	HEAT RECOVERY UNIT	RTU	ROOF-TOP UNIT
IW	CHILLED WATER	HTG	HEATING		
IP	CHILLED WATER PUMP	HV	HEATING AND VENTILATION UNIT	SA	SUPPLY AIR OR SOUND ATTENUATOR
IWR	CHILLED WATER RETURN	HWR	HOT WATER RETURN	SCR	SCREEN
IWS	CHILLED WATER SUPPLY	HWS	HOT WATER SUPPLY	SCT	SATURATED CONDENSING
)	CARBON MONOXIDE	HZ	HERTZ (CYCLES PER SECOND)	CD	TEMPERATURE
NN NV	CONNECTION CONVERTER	ID	INSIDE DIAMETER	SD SE	SMOKE DETECTOR OR SMOKE DAMPER SMOKE EXHAUST
, , , , , , , , , , , , , , , , , , ,	CONDENSATE PUMP	IH	INFRARED HEATER	SEF	SMOKE EXHAUST FAN
AC	COMPUTER ROOM AC UNIT	IL	INTAKE LOUVER	SEN	SENSIBLE
	COOLING TOWER	IN	INCHES	SEP	SEPARATOR
BD	COOLING TOWER BLOW DOWN			SF	SUPPLY FAN
ΙΗ	CABINET UNIT HEATER	KW	KILOWATT	SFD	COMBINATION SMOKE / FIRE DAMPER
VP	CONDENSER WATER PUMP	KVU	KITCHEN VENTILATION UNIT	SH	SUPPLY HOOD
VR	CONDENSER WATER SURPLY	1 A T	LEAVING AIR TEMPERATURE	SHC SIH	SENSIBLE HEAT CAPACITY
VS	CONDENSER WATER SUPPLY	LAT LB	POUND	SP	SUPPLY INTAKE HOOD STATIC PRESSURE
	DRAIN	LF	LINEAR FEET	SF	SQUARE FEET
ı	DRY BULB (TEMPERATURE)	LD	LINEAR DIFFUSER	SS	STAINLESS STEEL
G	DEGREE `	LP	LOW POINT	SSF	SMOKE SUPPLY FAN
C	DIRECT DIGITAL CONTROL	LPS	LOW PRESSURE STEAM	SUP	SUPPLY
IC	DUCT RE-HEAT COIL	LRA	LOCKED ROTOR AMPS	_	
4	DIAMETER	LVR	LOUVER	T	TEMPERATURE OR THERMOSTAT
М	DIMENSION	LVDR	LOUVERED DOOR	TEFC TEMP	TOTALLY ENCLOSED FAN COOLED
	DIFFERENTIAL PRESSURE	LVG LWT	LEAVING LEAVING WATER TEMPERATURE	TEMP	TEMPERATURE TANK
	EACH OR EXHAUST AIR		LEAVING WATER TEIM ERATORE	TON	12,000 BTUH (COOLING CAPACITY)
HU	EXHAUST AIR HANDLING UNIT	MAU	MAKE UP AIR UNIT	TRF	TRANSFER AIR FAN
Т	ENTERING AIR TEMPERATURE	MAX	MAXIMUM	TRP	TRANSFER PUMP
Н	ELECTRIC DUCT HEATER	MBH	1000 BTUH	TSP	TOTAL STATIC PRESSURE
	EXHAUST FAN	MCA	MINIMUM CIRCUIT AMPS	TSTAT	THERMOSTAT
IER	EMERGENCY	MCP	MAIN CONDENSATE PUMP	TX	TOILET EXHAUST
IS	ENERGY MANAGEMENT SYSTEM	MD	MOTORIZED DAMPER	TYP	TYPICAL
U	ENERGY RECOVERY OUTSIDE AIR	MECH	MECHANICAL MINIMUM	UC	LINDEDCHT (DOOD)
Р	PRE-CONDITIONER UNIT EXTERNAL STATIC PRESSURE	MIN MU	MINIMUM MAKE-UP WATER	UH	UNDERCUT (DOOR) UNIT HEATER
Г	EXPANSION TANK	MUA	MAKE-UP AIR	OH	ONIT FILATER
Н	ELECTRICAL UNIT HEATER			V	VOLTS
/T	ENTERING WATER TEMPERATURE	N	NEW	VAV	VARIABLE AIR VOLUME
	EXISTING	NC	NOISE CRITERIA OR NORMALLY	VD	VOLUME DAMPER
H	EXHAUST		CLOSED	VEL	VELOCITY
T	EXTERNAL	NO	NORMALLY OPEN	VFD	VARIABLE FREQUENCY DRIVE
Р	EXPANSION	NOM	NOMINAL	\ <i>\\</i> D	VALET DI II DITEMBEDATURE
	FAHRENHEIT OR FILTER	OA	OUTSIDE AIR	WB WC	WET BULB TEMPERATURE WATER COLUMN
	FREE AREA OR FIRE ALARM	OAI	OUTSIDE AIR OUTSIDE AIR INTAKE	WCCH	WATER COLUMN WATER COOLED CHILLER
	FLEXIBLE CONNECTION	OC	ON CENTER	WG	WATER COOLED CHILLER WATER GAUGE
U	FAN COIL UNIT	OD	OUTSIDE DIAMETER	WPD	WATER PRESSURE DROP
	FLOOR DRAIN, FIRE DAMPER, OR FIRE	ODP	OPEN DRIP PROOF	WTD	WATER TEMPERATURE DIFFERENCE
_	DEPARTMENT	OV	OUTLET VELOCITY	WTS	WATER TEMPERATURE SENSOR
Р	FLUID DISTRIBUTION POINT				
		NOTE: NO	T ALL ABBREVIATIONS MAY APPLY TO PLA	NS	
		INOTE. INO	I ALL ADDINEVIATIONS WAT APPLT TO PLA	11 1 O	
				ŊD	AWING INDEX
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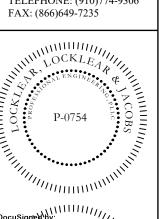
MECHANICAL ABBREVIATIONS



	DRAWING INDEX		
SHEET	SHEET TITLE	REV#	DATE
M-001	MECHANICAL NOTES LEGEND AND ABBREVS	1	4/13/2023
M-101	MECHANICAL PLAN	1	4/13/2023
M-102	MECHANICAL CONDENSATE PLAN	-	
M-301	MECHANICAL DETAILS	-	



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HEET NUMBER

MECHANICAL

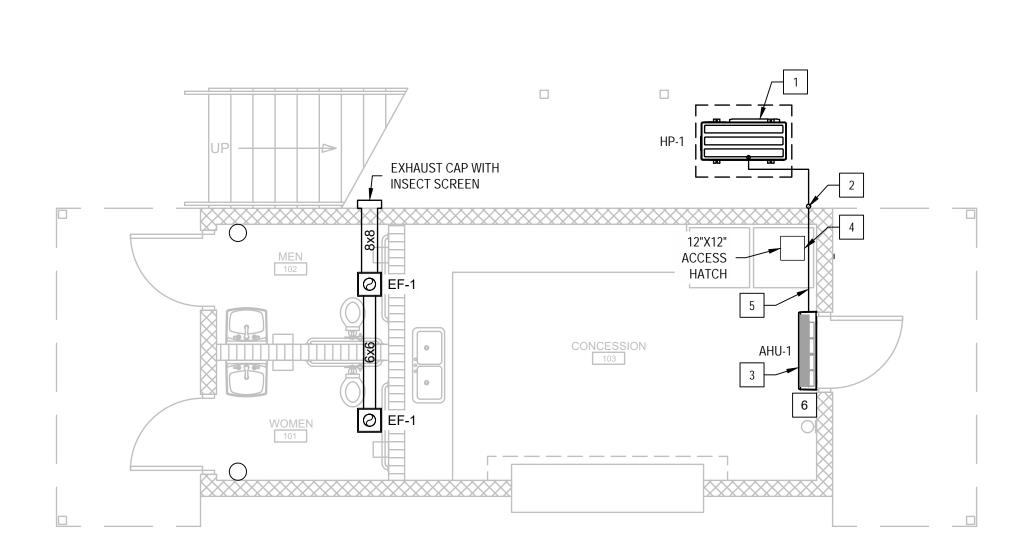
NOTES LEGEND

AND ABBREVS

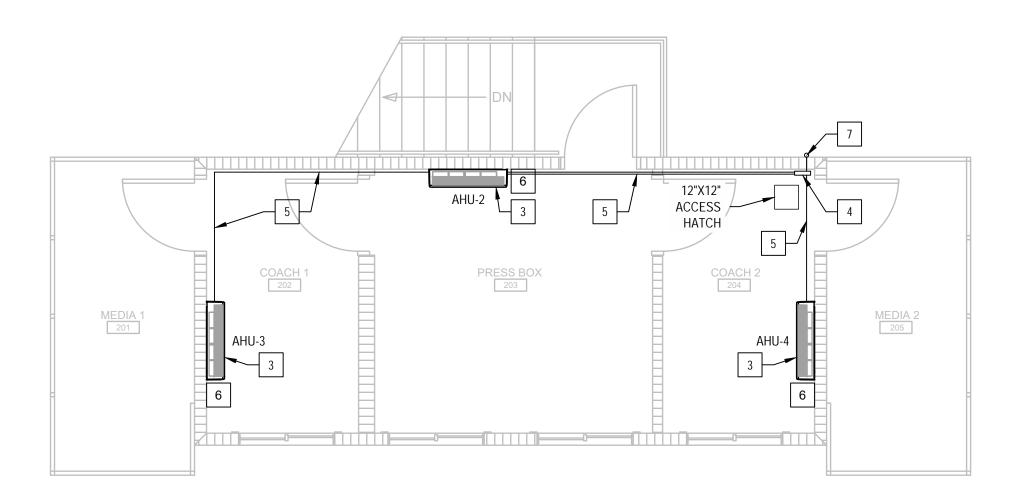
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PROJECT# 21-11110

SHEET TITLE



FIRST FLOOR MECHANICAL PLAN



\bigcirc	SECOND FLOOR MECHANICAL PLAN
	SCALE: 1/4" = 1'-0"

				EQUIPMENT	SCHEDULE					
TAG	MITISUBISHI MODEL#	DESCRIPTION	VOLT, φ, Hz	MCA	MOCP	AIRFLOW (CFM)	NOMINAL COOLING CAPACITY	NOMINAL HEATING CAPACITY @ 17°F	SEER	EER
HP-1	NTXMSM36A142AA	HEAT PUMP	208-230, 1, 60	29	40	N/A	36,000 BTU/H	26,400 BTU/H	23	15
AHU-1,2	TPKFYP012LM140A	WALL MTD.	208-230, 1, 60	0.24	15	152-297	12,000 BTU/H	13,500 BTU/H	N/A	N/A
AHU-3,4	TPKFYP008LM140A	WALL MTD.	208-230, 1, 60	0.24	15	141-237	8,000 BTU/H	9,000 BTU/H	N/A	N/A

- NOTES:
 1. EQUIPMENT AS MANUFACTURED BY MITSUBISHI OR APPROVED EQUAL BY FUJITSU / LG / CARRIER.
- 2. LINE SET COVERS AS MANUFACTURED BY DIVERSITECH OR EQUAL BY RECTORSEAL / FORTRESS.
- HARD WIRED THERMOSTATS FOR FOR EACH AREA (TOTAL OF 4 WIRED THERMOSTATS).
 REFRIGERANT LINES TO BE HARD COPPER, REFRIGERANT LINE SIZING PER MANUFACTURER'S GUIDELINES.
- 5. AHU'S 2,3,4 TO REQUIRE CONDENSATE PUMP.

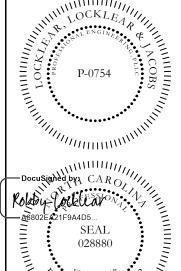
EXHAUST FAN SCHEDULE											
TAG	MAKE	MODEL	MOUNTINGTYP E	CFM	EXT STATIC AT MAX FLOW (IN. WG)	MAX INPUT WATTS	AMPS	NOTES			
EF-1	BROAN/NUTONE	765H80L	CEILING	80	.25	1300	12.5	FAN WITH 1300W HEATER			

ACCEPTABLE ALTERNATE MANUFACTURES ARE BROAN AND PENN.
 PROVIDE FAN WITH INSULATED HOUSING, FLEXIBLE DUCT CONNECTORS AND GRAVITY BACK DRAFT DAMPER.

KEY NOTES:

- 1 HEAT PUMP-1 (INSTALLED ON 4" CONCRETE PAD). COORDINATE LOCATION WITH OWNER/ENGINEER.
- 2 LINE SET TO TRANSITION UP EXTERIOR WALL TO THE FIRST LEVEL AND PENETRATE EXTERIOR WALL BELOW CEILING(COORDINATE LOCATION).
- 3 AHU (WALL MOUNTED). COORDINATE LOCATION WITH OWNER/ENGINEER.
- 4 BRANCH JOINT ABOVE ACCESS HATCH. COORDINATE LOCATION WITH OWNER/ENGINEER.
- LINE SET(S) TO BE INSTALLED TIGHT AGAINST CEILING/WALL IN LINE SET COVER. LINE SET COVER TO CONTAIN ALL LINE SET(S), POWER, CONTROL, AND CONDENSATE. CONTRACTOR TO ENSURE LINE SET COVERS ARE ADEQUATELY SIZED.
- 6 INSTALL 7 DAY PROGRAMMABLE THERMOSTAT(TO BE MOUNTED ON THERMAL BLOCK). COORDINATE LOCATION WITH OWNER/ENGINEER.
- 7 LINE SET TO TRANSITION UP EXTERIOR WALL TO THE SECOND LEVEL AND PENETRATE EXTERIOR WALL BELOW CEILING (COORDINATE LOCATION).

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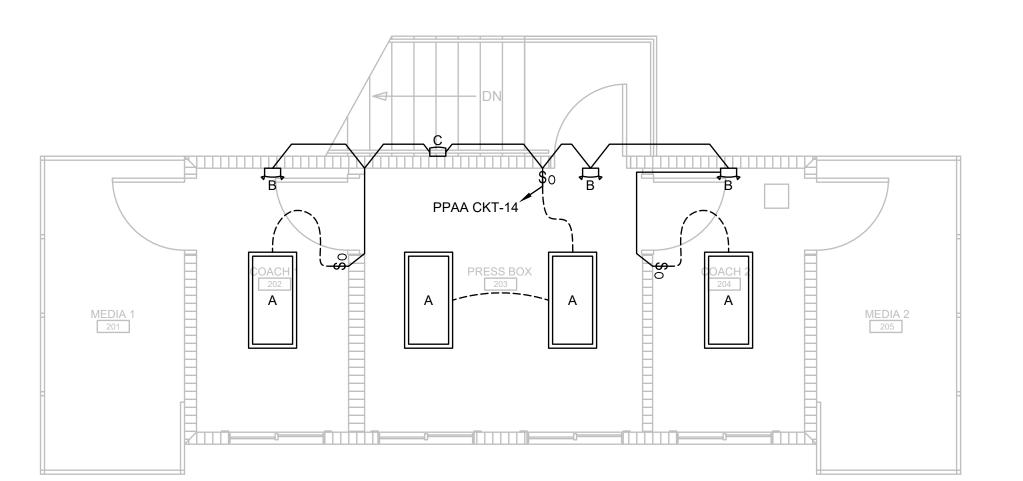
SHEET TITLE

SHEET NUMBER

MECHANICAL PLAN

PROJECT# 21-11110

FINAL RELEASED FOR CONSTRUCTION



SECOND FLOOR ELECTRICAL LIGHTING PLAN

			LIGHT FIXT	URE SCH	EDULE		
TAG	DESCRIPTION	MOUNTING	VOLTS / WATTS	LUMENS	LAMP TYPE	MANUFACTURER	MODEL#
А	2'X4' LED LIGHT FIXTURE	SURFACE	120V / 42W	4550	LED	COOPER	24FP4740C
В	EMERGENCY LIGHT	WALL	120V / 1W	N/A	LED	COOPER	CU2-LED
С	OUTDOOR EMERGENCY LIGHT	WALL	120V / 2W	300	LED	COOPER	SELDWA50
{ D	REMOTE HEAD	WALL	1W	N/A	LED	COOPER	APWR1

NOTES:

1. LIGHT FIXTURES TO BE MANUFACTURED BY COOPER, LITHONIA OR METALUX.

2. ALL LIGHTING FIXTURES SHALL BE U.L. LISTED.

3. VERIFY ALL MOUNTING HEIGHTS WITH PRIOR TO ROUGH-IN.

4. COORDINATE ALL COLORS/FINISH OPTIONS OF LIGHT FIXTURES WITH THE OWNER/ENGINEER PRIOR TO PURCHASING.

5. ALL LIGHTING FIXTURES INDICATES INDICATES AND ANY OTHER NEEDED FIXTURE OPTIONS FOR A COMPLETE AND OPERATIONAL INSTALL AT ION AS INTENDED ON THE PRAYMINGS. CONTRACTORS CONTRACTORS AND ANY OTHER NEEDED FIXTURE OPTIONS FOR A COMPLETE AND OPERATIONAL INSTALL AT ION AS INTENDED ON THE PRAYMINGS. CONTRACTORS CONTRACTORS AND ANY OTHER NEEDED FIXTURE OPTIONS FOR A COMPLETE AND OPERATIONAL INSTALL AT ION AS INTENDED. A COMPLETE AND OPERATIONAL INSTALLATION AS INTENDED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED COMPONENTS AT NO ADDITIONAL COST TO THE OWNER.

6. THE E.C. SHALL COORDINATE CLOSELY WITH THE ENGINEER AND/OR GENERAL CONTRACTOR FOR THE DESIRED MOUNTING METHODS OF THE LED LIGHT FIXTURES IN ALL LOCATIONS OF THE BUILDING AS SHOWN ON THE PLANS. THE E.C. SHALL COORDINATE AND VERIFY THE EXACT LOCATIONS FOR THE POWER SUPPLY (LOW-VOLTAGE TRANSFORMERS) WITH THE ENGINEER AND/OR GENERAL CONTRACTOR

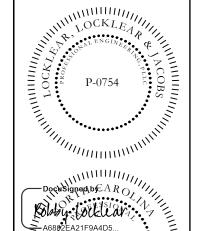
PRIOR TO ROUGH-IN. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE AS REQUIRED TO MOUNT THESE FIXTURES AS DIRECTED BY THE ENGINEER. 7. ALL LIGHT SWITCH COVER PLATES TO BE STAINLESS STEEL.

ELEC	TRICAL SYMBOL LEGEND
SYMBOL	DESCRIPTION
\$ _o	WALL MOUNTED OCCUPANCY SENSOR
T	WALL MOUNTED THERMOSTAT
	100A, SINGLE PHASE 208V, PANEL 'AA'
	OUTDOOR EMERGENCY LIGHT
	EMERGENCY LIGHT
	2'X4' LED LIGHT FIXTURE
0	EXHAUST FAN

RECEPTACLES————————————————————————————————————	48" AFF
EXIT SIGNS—	
DATA OUTLETS———————————————————————————————————	_
	10 AFF
NOTES: 1. DIMENSIONS ARE TO DEVICE CENTE OTHERWISE NOTED.	ERLINE UNLESS
2. REFER TO POWER SYMBOLS FOR A MOUNTING REQUIREMENTS.	DDITIONAL DEVICE
3. WHERE SHOWN WALL MOUNTED, EX	XIT SIGNS SHALL BE
MOUNTED 8'-0" AFF OR 1' ABOVE DC	OOR TO CENTER
LINE OF FIXTURE UNLESS OTHERWI	ISE NOTED.



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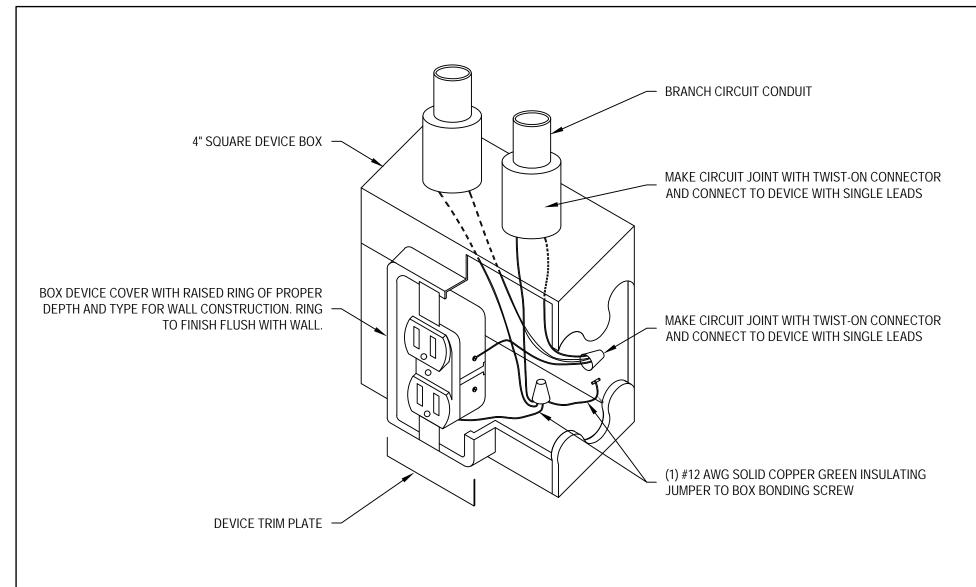
SH	СН	DR		RE	.V# - DATE	: - DESCRIPTION:
EET	IECK	AW		1.	4/13/2023	1. 4/13/2023 EXT FAN CHANGED, CONCESSIONS EMER LGT RELOCATED AND REMOTE HD ADDED.
TITL	ED E	N BY		2.		
Æ	3Y: F	: C	2023	3.		
	RL	KD		4.		
				5.		
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ELECTRICAL LIGHTING PLAN

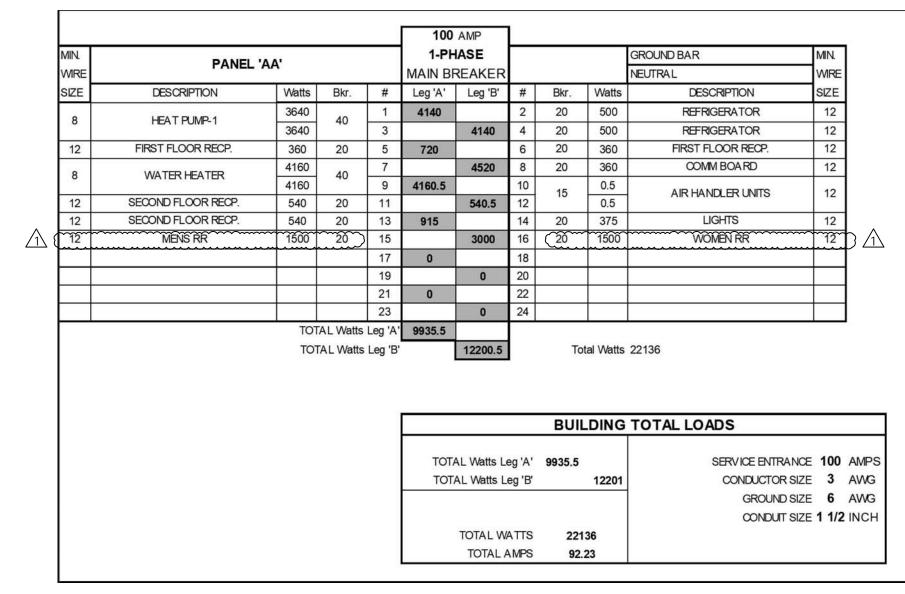
E-201

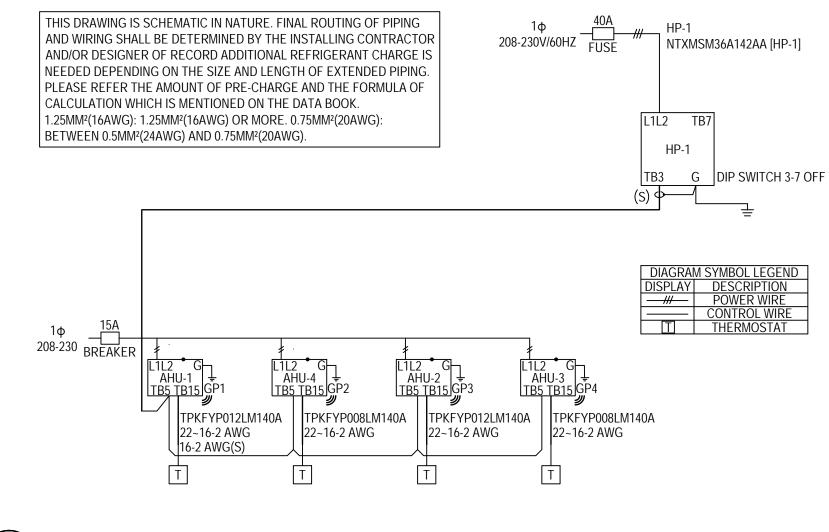
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SHEET NUMBER

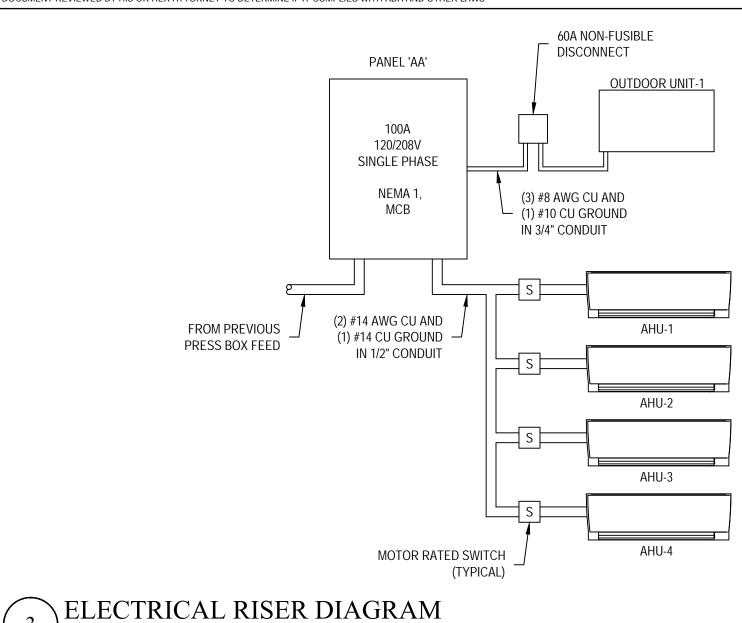


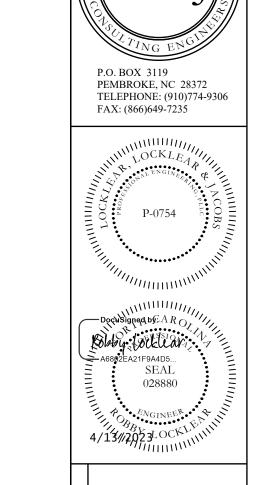
RECEPTACLE GROUNDING DETAIL











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SHEET TITLE ELECTRICAL

DETAILS SHEET NUMBER

> E-301 PROJECT# 21-11110

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