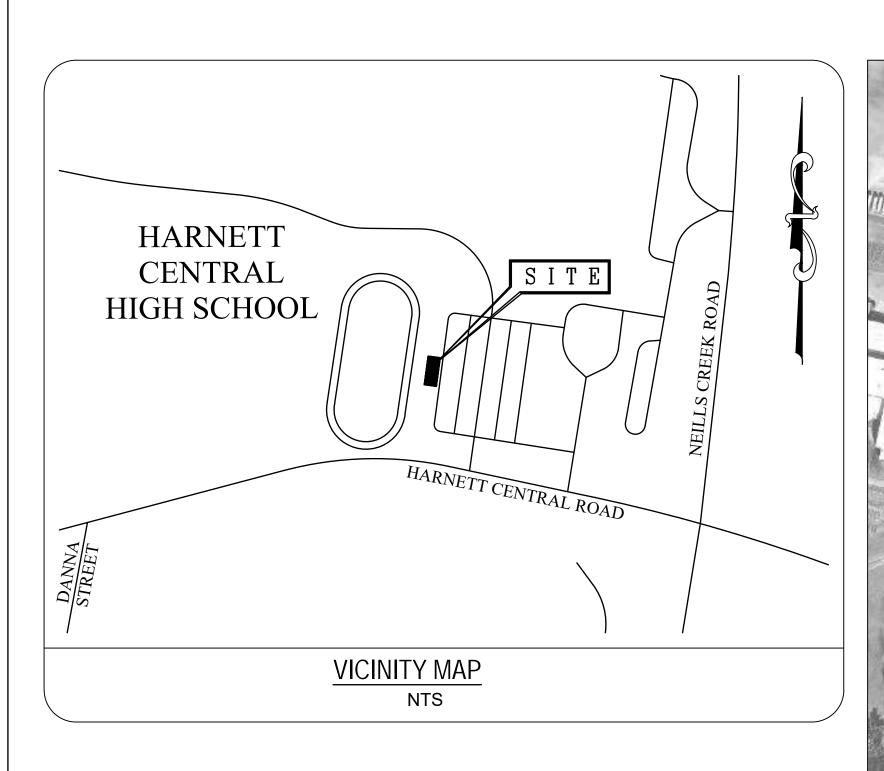
HARNETT CENTRAL PRESS BOX

2911 HARNETT CENTRAL RD, ANGIER, NC 27501





SHEET#	SHEET TITLE	REVISION NUMBER	REVISION DATE
G-001	COVER SHEET		
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
G-401	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS		
G-501	CASEWORK DETAILS		
G-502	GENERAL DETAILS	1	4/13/2023
G-503	GENERAL DETAILS		
G-601	ROOM FINISH SCHEDULE		
S-001	STRUCTURAL NOTES AND ABBREVIATIONS		
S-101	FOUNDATION PLAN		
S-102	FRAMING PLAN	1	4/13/2023
S-501	STRUCTURAL DETAILS		
S-502	STRUCTURAL DETAILS	1	4/13/2023
P-001	PLUMBING NOTES AND SCHEDULES		
P-101	PLUMBING PLAN		
P-301	PLUMBING DETAILS		
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		
E-001	ELECTRICAL NOTES LEGENDS AND ABBREVS		
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.



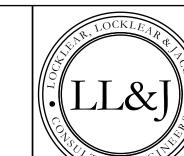


114 WEST 3RD. STREET - PEMBROKE, NORTH CAROLINA 28372 (910) 774-9306 WWW.LLANDJ.COM License No. P-0754

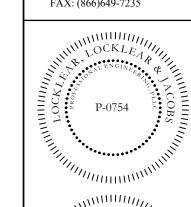
LOCKLEAR, LOCKLEAR & JACOBS

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-001

roposed Use:		RAL RD ANGIER, NC		e:	27501
Owner/Authorized Agent:	STEVE MA	THEWS Phone #	(910) 893-81		
Owned By: Code Enforcement Justificat		City/County City] State] State
LEAD DESIGN PROFESSIO	DNAL: _	LC	OCKLEAR, LOCK	(LEAR & JACOBS,	PLLC
DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE #	E-Mail
Building	LL&J, PLLC	Robby Locklear, P.E.	NC 028880	(910) 774-9306	robbylocklear@llandj.c
Civil Electrical	LL&J, PLLC	Robby Locklear, P.E.	NC 028880	(910) 774-9306	robbylocklear@llandj.c
Fire Alarm					
Plumbing Mechanical	L <u>L&J, PLLC</u> LL&J, PLLC	Robby Locklear, P.E. Robby Locklear, P.E.	NC 028880 NC 028880	(910) 774-9306 (910) 774-9306	robbylocklear@llandj.c robbylocklear@llandj.c
Sprinkler-Standpipe					
Structural Retaining Wall >5' High		Jonathan Locklear, P.E.		(910) 774-9306	jonathanlocklear@llandj
Foundation	LL&J, PLLC	Jonathan Locklear, P.E.	NC 029469	(910) 774-9306	jonathanlocklear@llandj.
2018 EDITION OF NC COD	F FOR:	■ New Construction	n ∏ Addi	tion 🔲 Upfit	
EXISTING: Reconstruc	tion	Alteration	Repa	air Reno	vation
CONSTRUCTED:	(Date)	ORIGINAL US	E(S):	(Chapter 3)	
RENOVATED:	(Date)	CURRENT US	SE(S):	(Chapter 3)	
	,			(Chapter 3)	
		BASIC BUILD	ING DATA		
Construction Type:	I-A	☐ II-A	□ III-A	□IV	□ V-A
_ =	I-B	☐ II-B	☐ III-B		W-B
• = =	Partial Y		☐ NFPA 13I	_	13D ESFR
— —		ass 🔲 I 🔠 II		☐ Wet ☐ Dry	
Fire District:	Yes 19'-4"	Flood Haz	zard Area:	■ No ☐ Yes	
Gross Building Area:					
	G (SQFT)		NEW (SQFT)		SUB-TOTAL (SQF)
6th Floor 5th Floor					
th Floor					
3rd Floor 0			279		279
2nd Floor <u> </u>			219		219
1st Floor 0			267		267
Basement					
TOTAL BUILDING AREA	λ:	546 sq. ft.	TOTAL FIRI	E AREA:	sq.
Occupancy: Assembly		ALLOWABL A-4 A-5 Busine ow		tional 🔲	
Assembly A-1 A-Factory F-1 Modera Hazardous H-1 Det	te F-2 L	A-4 A-5 Busing	ess	H-4 Health	☐ H-5 HPM
Assembly A-1 A-Factory F-1 Modera Hazardous H-1 Det Institutional I-1	te F-2 L	A-4 A-5 Busing A-5 Busing A-4 A-5 Busing A-2 Deflagrate H-2 I-4	ess 🗌 Educa	H-4 Health	☐ H-5 HPM ☐
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Assembly A-1 A-Factory F-1 Modera Hazardous H-1 Det Institutional I-1 I-3 Use Condition Storage S-1 Moderate Parking Gara	onate	☐ A-4	ess	H-4 Health	-2 R-3 R-4
Assembly A-1 A-Factory F-1 Modera Hazardous H-1 Det Institutional I-1 I-3 Use Condition Storage S-1 Moderate	te F-2 L onate H 1-2 I-3 1	A-4 A-5 Busing A-5 Busing A-4 A-5 Busing A-7	ess	H-4 Health R-1 R Utility and Miscella	-2 R-3 R-4
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Assembly A-1 A-1 Factory F-1 Moderated Hazardous H-1 Detentional I-1 I-3 Use Condition Farking Garated Hazardous H-1 Moderated Parking Garated Hazardous H-1 Detentional H-1 D	te	A-4 A-5 Busing ow H-2 Deflagrate	Educa -3 Combust -3 Fesidentia -3 Fesidentia -4 Fesidentia -5 Fesidentia -6 Fesidentia -7 Fesidentia	H-4 Health H-4 Health H-4 Health H-4 Health H-4 Health H-4 Health H-4 Health H-4 Health H-4 Health	R-3
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Assembly	te F-2 L conate H	A-4 A-5 Busing ow	Education Education Education Sesidentia Education Educa	H-4 Health Company and Miscella H-4 Health H-4 Health Company and Miscella H-4 Health H-4	2-2
Assembly	te F-2 L conate H	A-4 A-5 Busing ow	Educa I-3 Combust Mercantile Residentia h-piled bair Garage I-3 Combust Mercantile Residentia h-piled bair Garage TU per hour input 15 psi and 10 ho other than Group cated in a capacity of more y standby power, nent 1409	H-4 Health Company and Miscella H-4 Health H-4 Health Company and Miscella H-4 Health Company and Miscella H-4 Health	2-2

Actual Are	Use Calculations a:	Α	В	С		D	
Allowable Area:		A +	——— + В	C	- +	=	0.00 < 1
		(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					

2. The sprinkler increase per Section 506.2 is as follows:

3. Unlimited area applicable under conditions of Section 507;

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

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

a. Multi-story building I_s = 200%

b. Single story building I_s = 300%

		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

FIRE PROTECTION REQUIREMENTS

	FIRE		RATING				
BUILDING ELEMENT	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (w/ <u>1A</u> * REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PEN.	DESIGN # FOR RATED 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

Emergency Lighting: □ No ■ Yes

Exit Signs: □ No ■ Yes

Exit Signs: No Yes

Fire Alarm: No Yes

Smoke Detection Systems: No Yes Partial

Panic Hardware: No Yes

SITE PLAN NOTE

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					(L
LIFE SA	AFETY PLAN	SHEET#	:									(-
					NS (CHAPTER	(7)						
				Y LINE LOCAT A WITH RESP	TIONS ECT TO DISTA	ANCE TO) ASSI	IMED	PROPER	RTY I INF	S (705.8)	
					PROPOSED BL		7,000		I KOI LI	VIII EIIVE	-0 (100.0)	
	CUPANCY TY	PES FOR	EACH	AREA AS IT F	RELATES TO C	OCCUPA	NT LO	AD CA	LCULAT	TON (TA	BLE 1004.1.1)
	CUPANT LOAI	_	_									
	T ACCESS TR			• •	2 0 1020 0)							ENEF
	D END LENG			TANCE (1014.	.3 & 1020.0j							The
	AR EXIT WID			EXIT DOOR								ene pro
					APACITY EAC	H EXIT C	AN AC	CCOM	MODATE	Ξ		cos
	ED ON EGRE		•	5.1) EACH DOOR								
					WHERE FIRE	RATED F	LOOR	/CEILI	NG AND	/OR		Clin
ROC	OF STRUCTU	RE IS PR	OVIDE	D FOR PURPO	OSES OF OCC	UPANCY	SEP/	ARATIO	NC			
					RE (1008.1.10)				>=\ ^ \(\)	1000 1 0	- \	THER
					SS LOCKS AN MAGNETIC EG				•	1008.1.9	.7)	Ro
					O-OPEN DEVIC		JONO ((1000.	1.3.0)			
LOC	CATION OF EN	/IERGEN	CY ES	CAPE WINDO	NS (1029)							
				CH FIRE AREA		· (40 7-4)						
)MPARTMENT)TES THAT MA	` ,	BEFN					
	IZED REGAR											Ex
			AC	CESSIBLE DV	VELLING UNIT	S (Section	n 110	7)				
	ACCESSIBLE	ACCES	SIBLE	TYPE A	TYPE A	TYPE	В	TYP	ЕВ	Т	OTAL	ן ווון ך
TOTAL UNITS	UNITS	UNI	TS	UNITS	UNITS	UNIT	s	UN	ITS	ACC	ESSIBLE	
	REQUIRED	PROV	IDED	REQUIRED	PROVIDED	REQUII	RED	PROV	IDED	UNITS	PROVIDED	1 111
												J
												■
					ESSIBLE PARI SECTION 1106							W
LOT OF	`	# OF PA	RKING	SPACES	# OF ACCE	SSIBLE	SPACE	ES PR	OVIDED		TOTAL#	
PARKIN AREA		IRED	PF	ROVIDED	REGULAR W ACCESS A		1	/AN SF	PACES 96" ACCE		CCESSIBLE PROVIDED	Fi
NEW					ACCESS A	IIOLE		SLE	AISLE			┤ ' ' '
EXISTIN	IC .											1
TOTAL												1 1
TOTAL	<u> </u>											J ∭ FI
												= ∥
				STR	UCTURAL DES	SIGN						
_	LOADS:			11								
•	ance Factors: d (Iw): <u> </u>	1.0		Live Load Roof:	S:	20	psf	11 7	Ground Snow Loa	ad:	<u>15</u> pst	f
	w (ls): _	1.0		Mezza	nine:	100	psf					
Seis	smic (le): _	1.0		Floor:		100	psf					
Wind L	oad: Basid	: Wind Sp	eed	12	0mph (A	SCE-7)		11				Thern
	•	sure Cate	• •	B		,						wi
	Wind	Base Sh	ears (fo	or MWFRS)	Vx =	3,500	lbs	٧	/y = _	7,70	<u>)</u> lbs	su
	IC DESIGN C		_]C D							Interio
Provide	e the following		-	_	7, 	п -	¬					wi su
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	Spectral Re	•		_	<u>13.0 </u> %g S₁		_	_				Buildi
	Site Classifi	cation (Ta ata Sourc		13.5.2) ∟ ⊒ Field Test]A □ B □ C Presumptiv							Buildi
	Basic struct		_		E r resumptiv	,	1010110	ai Dala				Mech
		Bearing	•	Dua	l w/Special Mo							Ur
	[Buildin	a Fram	e □ Dua	l w/Intermediat	e R/C or	Specia	l Steel				

LATERAL DESIGN CONTROL:	☐ Earthquake Ⅲ Wind	SOIL BEARING CAPACITIES: Field Test (provide copy of test report) psf Presumptive Bearing Capacity psf Pile size, type, and capacity
SPECIAL INSPECTIONS REQUIR	RED: 🔳 No 🗌 Y	es: See below
☐ Fabricators (1704.2) ☐ Steel Construction (1704.3) ☐ Construction (1704.4) ☐ Masonry Construction (1704.6) ☐ Wood Construction (1704.6) ☐ Verification of Soils (1704.7) ☐ Driven Deep Foundations (17 ☐ Cast-in Place Deep Foundation ☐ Helical Pile Foundations (170.6)	04.8) ons (1704.9)	 Vertical Masonry Foundation Elements (1704.11) Sprayed Fire-resistant Materials (1704.12) Mastic and Intumescent Fire-resistant Coatings (1704.13) Exterior Insulation and Finish Systems - EFIS (1704.14) Special Cases (1704.15) Smoke Control (1704.16) Wind Requirements (1706) Seismic Resistance (1707)

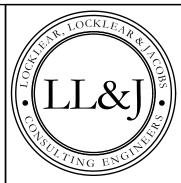
☐ Moment Frame ☐ Inverted Pendulum

Architectural, Mechanical, Components anchored?

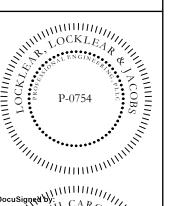
Seismic base shear: Vx = 1.800 lbs Vy = 2.900 lbs

PLUMBING FIXTURE REQUIREMENTS								
USE	WATERCLOSETS MALE FEMALE		WATERCLOSETS URINALS LAVATORIES		SHOWERS	DRINKING FOUNTAINS		
USE			UKINALS	MALE	FEMALE	/ TUBS	REGULAR	ACCESSIBLE
REQUIRED	0	0 0		0	0	0	0	0
PROVIDED	1 1		0	1	1	0	0	0
EXISTING	0	0	0	0	0	0	0	0

SPECIAL APPROVALS CAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC ETC, DESCRIBE BELOW) **ENERGY SUMMARY** REQUIREMENTS: llowing 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) Prescriptive (ASHRAE 90.1) 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: cylights 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: -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 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 requiremen ab heated: MECHANICAL SUMMARY MECH. SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT esign conditions 70° F 50% e humidity: {15,000 BTU/HR } heating load: 2.6 TON cooling load: ical Spacing Conditioning System HEATPUMP escription of unit: SEE EQUIPMENT SCHEDULES heating efficiency: SEE EQUIPMENT SCHEDULES cooling efficiency: size category of unit: Size category. If oversized, state reason: Size category. If oversized, state reason: List equipment efficiencies: _____ ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT Method Of Compliance Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive Performance Lighting schedule: (each fixture type) Lamp type required in fixture: LED Number of lamps in fixture: N/A Ballast type used in the fixture: N/A Number of ballasts in fixture: SEE LIGHTING SCHEDULE Total wattage per fixture: 366 VS 537 { Total interior wattage specified vs allowed: (whole building or space by space) Total exterior wattage specified vs allowed: Additional 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



Docusigned by H CARO, A CARO,

HARNETT CENTRAL PRESS BOX HARNETT COUNTY SCHOOLS 2911 HARNETT CENTRAL RD

	HTING WATTAGE U					PIED, REUSED
REV# - DATE - DESCRIPTION:	1. 4/13/2023 CLIMATE ZONE AND ASSOCIATED VALUES UPDATED, LIGHTING WATTAGE U					2023 COPYRIGHT BY LL&J. THIS DRAWING MAY NOT BE COPIED, REUSED
V# - DAT	4/13/2023					23 COPY
		2.	3.	4.	5.	20
	TE:		2023			
DR	AW	N BY	: R	DH		

APPENDIX B

CHECKED BY: JEL

SHEET TITLE

G-002

PROJECT# 21-11110

GENERAL NOTES:

- ALL WORK TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
- NEW CONSTRUCTION, ACCESSORIES AND EQUIPMENT INSTALLATION SHALL BE PROVIDED IN COMPLIANCE WITH ADA ACCESSIBILITY REQUIREMENTS.
 CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL FROM THE SITE AND PROPER DISPOSAL OF ANY DEBRIS ACCUMULATED DURING CONSTRUCTION ON A DAILY

GENERAL NOTES

- BASIS.
- 4. ALL INTERIOR WALL AND CEILING FINISHES TO MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATING IN ACCORDANCE TO ASTM E 84. ALL INTERIOR FLOOR FINISHES SHALL NOT BE LESS THAN CLASS II (0.22 WATTS/CM SQ) FOR MINIMUM CRITICAL RADIANT FLUX IN ACCORDANCE WITH NFPA 253.
- 5. DOORS SHALL OPERATE FREELY WITHOUT BINDING. ALL DOORS TO BE OFF FACE OF WALL UNLESS OTHERWISE NOTED. DOOR FRAMES SHALL BE SECURED RIGIDLY IN PLACE AND BRACED TO FLOOR AND STRUCTURE ABOVE TO PREVENT BREAK OUT OF PARTITIONS.
- 6. ALL MECHANICAL, ELECTRICAL AND NON-STRUCTURAL SYSTEMS, COMPONENTS, AND ELEMENTS PERMANENTLY ATTACHED TO STRUCTURES, INCLUDING SUPPORTING STRUCTURES AND ATTACHMENTS, AND NON-BUILDING STRUCTURES THAT ARE SUPPORTED BY OTHER STRUCTURES SHALL COMPLY WITH 2018 NORTH CAROLINA BUILDING CODE.
- 7. STORED MATERIALS SHALL BE KEPT DRY AND IN AN ORDERLY FASHION IN AN AREA DESIGNATED BY THE GENERAL CONTRACTOR.
- 8. TYPICAL DIMENSIONS ARE TO THE STRUCTURAL FACE OF PARTITION UNLESS OTHERWISE NOTED.
- 9. CONTRACTOR IS TO PROVIDE METAL/TREATED WOOD BLOCKING AT LOCATIONS RECEIVING CABINETRY OR EQUIPMENT.
- 10. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL NEW EQUIPMENT, DEVICES, LIGHTING, AND FOR ADDITIONAL NOTES.
- 11. A DUMPSTER MAY BE LOCATED AS DIRECT FOR THE DISPOSAL OF DEBRIS. PROTECT THE EXISTING BUILDING FROM DAMAGE (INTERIOR AND EXTERIOR), AND ALONG THE PATH OF TRAVEL TO THE DUMPSTER. DAMAGE AS A RESULT OF CONSTRUCTION USE SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR.

DETAILS:

THESE DRAWINGS AND SPECIFICATIONS REPRESENT THE GENERAL DIMENSIONS, AESTHETIC REQUIREMENTS, AND MATERIALS FOR THE WORK TO BE PERFORMED. IF ANY DETAIL SHOWN ON THESE DRAWINGS APPEARS INCONSISTENT WITH THIS INTENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AND AWAIT INSTRUCTION FROM ENGINEER BEFORE PROCEEDING WITH WORK. DETAILS PROVIDED DO NOT REPRESENT ALL OF THE DETAILS REQUIRED TO PERFORM THE PROPOSED WORK. ADDITIONAL DETAILS MAY BE FURNISHED BY THE CONTRACTOR ON SUBMITTED SHOP DRAWINGS, OR SCALED DRAWINGS, FOR APPROVAL BY THE ENGINEER.

PATCHING:

CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTABLE CLOSURE AND REPAIR OF ALL AREAS DISTURBED DURING CONSTRUCTION. REPAIR WORK SHALL UTILIZE LIKE MATERIALS WHERE POSSIBLE, OR MATERIALS COMPATIBLE TO EXISTING AND SHALL RESTORE DISTURBED SURFACE TO ORIGINAL CONDITION. UNLESS OTHERWISE NOTED, PAINT EXPOSED PIPING, CONDUITS, AND HANGER ASSEMBLIES TO MATCH EXISTING FEATURES.

CLEANUP & SITE MAINTENANCE:

CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEANING AND MAINTENANCE OF ALL INVOLVED AREAS FROM CONSTRUCTION DEBRIS AND DUST. UPON OVERALL COMPLETION OF THE PROJECT, CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANING/TREATMENT (INCLUDING WINDOW WASH) AS FOLLOWS: DUST INVOLVED SURFACES WITH A TREATED RAG OR CLOTH, USE METHODS, AND CHEMICALS AS RECOMMENDED FOR A SPECIFIC SURFACE BY THE RELATED MANUFACTURERS OF THE SURFACE MATERIAL.

MEANS AND VERIFICATIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND MATERIALS SUPPLIED FOR THE CONSTRUCTION AND INSTALLATION, VERIFICATION OF DIMENSIONS AT THE SITE, AND THE VERIFICATION OF QUANTITIES. THE BUILDER SHALL VERIFY THAT SITE CONDITIONS ARE CONSISTENT WITH THESE PLANS BEFORE STARTING WORK. WORK NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED TO THE SAME QUALITY AS SIMILAR WORK THAT IS DETAILED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODES AND LOCAL CODES.

CONSTRUCTION ACTIVITY NOTES:

CONTRACTOR SHALL OBSERVE THE FOLLOWING INSTRUCTIONS FOR WORKING WITHIN THE BUILDING AREAS. THESE WILL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- 1. ALL SHUTDOWNS WILL BE COORDINATED AND APPROVED THROUGH THE OWNER'S REPRESENTATIVE AND WILL REQUIRE ADVANCE NOTICE OF TWO DAYS FOR SHUTDOWNS THAT AFFECT BUILDING OPERATIONS END/OR SYSTEMS. LENGTH OF TIME MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS AT THE OWNER'S DISCRETION. SOME SHUTDOWNS MAY BE MORE DIFFICULT TO ARRANGE WHERE BUILDING OPERATIONS ARE ADVERSELY AFFECTED. ANY AND ALL SHUTDOWNS WILL BE INITIATED AND CONTROLLED BY BUILDING SYSTEM STAFF. THE CONTRACTOR MAY NOT SHUTDOWN ANY OPERATING SYSTEM. BUILDING FACILITIES MANAGEMENT WILL SHUTDOWN SYSTEMS SCHEDULED, AND AFTER CONTRACTOR HAS PERFORMED THE WORK BUILDING FACILITIES MANAGEMENT WILL COORDINATE AND OBSERVE RE-ACTIVATION.
- 2. AREAS ON THE BUILDING OUTSIDE THE MAIN PROJECT LIMITS, IN WHICH WORK MUST TAKE PLACE WILL BE CLEANED AND RETURNED TO NORMAL CONDITION AT THE END OF EACH DAY. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE EACH DAY BEFORE LEAVING THE CONTRACT PROJECT LIMITS AND ENTERING THE SITE AND SHALL CHECK OUT EACH DAY WITH SAID REPRESENTATIVE REGARDING THE CLEANLINESS OF THE AREA IN WHICH WORK TOOK PLACE.
- 3. WORK IN OPERATIONAL ROADWAYS AND INTERSECTIONS AND/OR MERGING CONSTRUCTION TRAFFIC WITH THE PUBLIC, AND WHERE SCHEDULED WHETHER LOADING, OR UNLOADING CONSTRUCTION WILL BE IMPLEMENTED ONLY WITH THE USE OF A FLAG MAN DEDICATED FOR THE PURPOSE OF DIRECTING TRAFFIC AT THE FRONT, REAR, OR POINT OF SUCH OPERATION.
- 4. WORK TAKING PLACE IN A WALKWAY OR SIDEWALK ON A DAILY BASIS SHALL BE MARKED AT FRONT AND REAR WITH SAFETY CONES OR OTHER SUITABLE CAUTIONARY DEVICES
- 5. CONTRACTOR, OR EMPLOYEE OF SAME, ON BUILDING GROUNDS OR ENTERING THE BUILDING TO PERFORM WORK SHALL HAVE WE NAME OF THE COMPANY <u>IDENTIFIED</u> ON THEIR DOTTING, HARD HAT, JACKET. OR OTHER ON THEIR PERSON AT ALL TIMES.
- 6. NO CONSTRUCTION PERSONNEL SHALL BE PERMITTED WITHIN THE BUILDING EXCEPT FOR THE EXPLICIT PURPOSE OF PERFORMING THEIR CONTRACTED WORK.
 SITE FACILITIES, INCLUDING BUT NOT LIMITED TO TOILETS, BREAK ROOMS, CAFETERIA, ETC., SHALL BE OFF LIMITS EXCEPT THOSE EXPRESSLY DESIGNATED FOR CONTRACTOR USE.
- 7. WORK ACTIVITY MUST NOT JEOPARDIZE BUILDING OPERATIONS. WHERE, IN THE OPINION OF THE ENGINEER OR OWNER, THE CONTRACTOR'S ACTIVITIES ARE SERIOUSLY HAMPERING BUILDING OPERATIONS, OR WHERE OPERATIONS ARE DEEMED AT RISK, THE CONTRACTOR WILL BE DIRECTED BY ENGINEER / OWNER TO CEASE SAID ACTIVITIES UNTIL OTHER MEANS AND METHODS CAN BE MUTUALLY AGREED UPON.
- 8. OWNER WILL NOT RECEIVE, UNLOAD, SIGN FOR, OR STORE ANY DELIVERIES MADE TO ANY CONTRACTOR. CONTRACTOR WILL RECEIVE, UNLOAD, SIGN FOR, AND STORE ALL DELIVERIES FOR THE WORK, AT THE JOB SITE STAGING OR LAY-DOWN AREA, AND BE RESPONSIBLE FOR SAME.
- CONTRACTOR SHALL TURN OVER TO THE OWNER, DESIGNATED PLACE OF STORAGE, A QUANTITY OF SURPLUS MATERIALS, AS APPLICABLE, FOR THE WORK.
 EXISTING STAIRS MAY BE USED FOR CONSTRUCTION ACTIVITIES (DEBRIS REMOVAL, ETC.). INTERIOR SURFACES OF THE STAIRS SHALL BE PROTECTED. DAMAGES
- AS A RESULT OF CONSTRUCTION USE SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR.

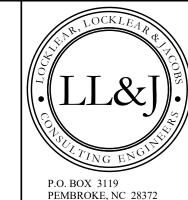
DRAWING REVISIONS

- 1. REVISIONS TO DRAWINGS SHALL BE SHOWN WITH THE REVISION DATE AND DESCRIPTION IN THE TITLE BLOCK. THE REVISION NUMBER AND A TRIANGLE WILL BE SHOWN AT THE LOCATION OF CHANGE ON THE REVISED DRAWING.
- 2. REVISION NUMBERS ARE IN ASCENDING ORDER UNIQUE TO EACH DRAWING. PREVIOUS DATES AND REVISION REMAIN ON THE DRAWINGS REVISED AS A RECORD OF ALL CHANGES TO DRAWINGS.

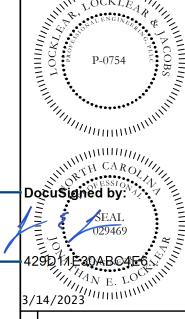
		GENE	RAL ABBREVIATIONS		
AB	ANCHOR BOLT	FDP	FLUID DISTRIBUTION POINT	PLYD	PLYWOOD
AC	ACRE AIR CONDITIONED	FE FEC	FIRE EXTINGUISHER	PNL PP	PANEL POWER POLE
A/C ACCH	AIR COOLED CHILLER	FES	FIRE EXTINGUISHER CABINET FLARED END SECTION	PRESS	PRESSURE
ACM	ASBESTOS CONTAINING	FFE	FINISH FLOOR ELEVATION	PRZ	PRESSURE REDUCING VALVE
	MATERIAL	FH	FIRE HYDRANT	PSF	POUNDS / SQUARE FOOT
ACP ACT	AIR COMPRESSOR ACOUSTICAL CEILING TILE	FIN FLR	FINISH FLOOR	PSI PSIG	POUNDS / SQUARE INCH POUNDS / SQUARE INCH GAGE
AD	AREA DRAIN/ACCESS DOOR	FM	FLOOR FLOW METER	PTD	PAPER TOWEL DISPENSER
AEL	AIR ELIMINATOR	FMS	FLOW MEASURING STATION	PUX	PUMP/HEAT EXCHANGER
AFF AHU	ABOVE FINISH FLOOR AIR HANDLING UNIT	FND FR	FOUNDATION FIRE RATED	QTR	QUARTER
ALT	ALTERNATE	FRM	FRAME	QUAN	QUANTITY
ALUM	ALUMINUM	FS	FLOOR SINK	OVFL	OVERFLOW
AP APPROX	ACCESS PANEL APPROXIMATELY	FT FTG	FOOT / FEET FOOTING	R/W	RIGHT OF WAY
ASD	APPROXIMATELY ADJUSTABLE SPEED DRIVES	FIG	FOOTING	R	RISER
ASHRAE	AMERICAN SOCIETY OF	GA	GAGE	RA	RETURN AIR
	HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS	GAL GALV	GALLON GALVANIZED	RAD RCP	RADIUS REINFORCED CONCRETE PIPE
ASME	AMERICAN SOCIETY OF	GI	GRATE INLET	RD	RELIEF DAMPER
	MECHANICAL ENGINEERS	GL	GLASS	REF RFG	REFRIGERANT RETURN FILTER GRILLE
ASPE PLUMBING	AMERICAN SOCIETY OF	GND GOV'T	GROUND GOVERNMENT	RND	ROUND
1 EOMBING	ENGINEERS	GPH	GALLONS PER HOUR	RDP	RESIDENTIAL DRAINAGE PLAN
ASR	AUTOMATIC SPRINKLER RISER	GPM	GALLONS PER MINUTE	REC'D. RECIRC	RECESSED RECIRCULATING
BAL	BALANCE	GWB GYP	GYPSUM WALL BOARD GYPSUM	RECP	RECEPTACLE
BC	BACK OF CURB	011	311 33m	REG	REGISTER
BD	BOARD	Н	HIGH	REINF REQ'D.	REINFORCING REQUIRED
BDD BF	BACK DRAFT DAMPER BOOSTER FAN	HB HC	HOSE BIBB HOLLOW CORE / HEATING COIL	RET	RETURN
BFP	REDUCED PRESSURE	HDPE	HIGH DENSITY POLYETHYLENE	RF	RETURN FAN
BACKFLOW		PIPE	HARDWARE	RGH RH	RELIEF GRAVITY HOOD RELIEF HOOD
BHP	PREVENTER BREAK HORSEPOWER	HDW HM	HOLLOW METAL	RHC	REHEAT COIL
BLDG	BUILDING	HP	HORSE POWER	RM	ROOM
BOT	BOTTOM BLACK OTEEL DIDE	HR	HOUR HEIGHT	RO RPM	ROUGH OPENING REVOLUTIONS / MINUTE
BSP	BLACK STEEL PIPE	HT HTG	HEIGHT HEATING	RT	RETURN AIR SENSOR
CB CAB	CATCH BASIN CABINET	HVAC	HEATING, VENTILATION & AIR CONDITIONING	RTG	RETURN GRILLE
CAP	CAPACITY	HW	HEADWALL	S	SUPPLY
CC	COOLING COIL	HVU	HEATING & VENTILATION UNIT	SA	SUPPLY AIR / SOUND ATTENUATOR
CEM CER	CEMENT CERAMIC	HYD HORIZ	HYDRANT HORIZONTAL	SCH	SCHEDULE
CF	CUBIC FEET		11011120111112	SECT	SECTION
CFM	CUBIC FEET/MINUTE	ID	INSIDE DIAMETER	SEF SERV	SMOKE EXHAUST FAN SERVICE
CFP CH	CHEMICAL FEED PUMP CHILLER	IH IL	INFRARED HEATER INTAKE LOUVER	SES	SAFETY END SECTION
CHP	CHILLED WATER PUMP	IN	INCHES	SEP	SEPARATOR
CIRC CJ	CIRCULATING	INSUL INT	INSULATION INTERIOR	SF SH	SUPPLY FAN SUPPLY HOOD
CK'D	CONTROL JOINT CHECKERED	INV	INVERT	SHT	SHEET
CKT	CIRCUIT	IPF	IRON PIN FOUND	SIH SJ	SUPPLY INTAKE HOOD SLIP JOINT
CL CLG	CENTER LINE CEILING	IPS	IRON PIN SET	SPECS	SPECIFICATIONS
CMU	CONCRETE MASONRY UNIT	JB	JUNCTION BOX	SQ	SQUARE
CMP	CORRUGATED METAL PIPE	JT	JOINT	SQFT STL	SQUARE FEET STEEL
COL COL	CLEAN OUT COLUMN	KVA	KILOVOLT AMPERE	SS	SANITARY SEWER
CONC	CONCRETE	KW	KILOWATT	SSE	SANITARY SEWER EASEMENT
COND	CONDENSATE	LD	DOLIND	STOR STRUC	STORAGE STRUCTURAL
CONN CP	CONNECTION CHANNEL PROTECTION	LB LG	POUND LONG	SUSP	SUSPENDED
	/CONDENSATE PUMP	LP	LIGHT POLE	SW	SWITCH
CONST	CONSTRUCTION	LTG LAV	LIGHTING LAVATORY	SWCB STD	SINGLE WING CATCH BASIN STANDARD
CONT CONV	CONTINUOUS CONVERTER	LAV	LAVATORT	015	
CRK	CREEK	M	MOTOR	T&G	TONGUE & GROOVE
CT CTC	CERAMIC TILE CENTER TO CENTER	MAINT MAU	MAINTENANCE MAKE UP AIR UNIT	TOIL TEL	TOILET TELEPHONE
CWP	CONDENSER WATER PUMP	MAX	MAXIMUM	TEMP	TEMPERATURE
		MDP	MAIN DISTRIBUTION PANEL	THK THD	THICKNESS
DE DET	DRAINAGE EASEMENT DETAIL	MECH MH	MECHANICAL MANHOLE	TK	THRESHOLD TANK
DHC	DUCT RE-HEAT COIL	MET	METAL	TOS	TOP OF STEEL
DI	DROP INLET	MIN	MINIMUM	TR TRF	THREAD TRANSFER AIR FAN
DIA DIFF	DIAMETER DIFFUSER	MISC MO	MISCELLANEOUS MASONRY OPENING	TRP	TRANSFER AIR FAIN TRANSFER PUMP
DIM	DIMENSION	MTD	MOUNTED	TTD	TOILET TISSUE DISPENSER
DISC	DISCONNECT	MTG MV	MOUNTING MECHANICAL VENTILATION	TYP	TYPICAL
DN DR	DOWN DOOR	IVIV	WEGHANICAL VENTILATION	UH	UNIT HEATER
DS	DOWNSPOUT	NA	NOT APPLICABLE	UON	UNLESS OTHERWISE NOTED
DWCB	DOUBLE WING CATCH BASIN	NIT NO, #	NOT IN CONTRACT NUMBER	UNO	UNLESS NOTED OTHERWISE
DWG(S) DSB	DRAWING(S) DOUBLE STRENGTH "B" GLASS	NC	NORMALLY CLOSED	V	VOLT
		NG	NATURAL GAS	VAV	VARIABLE AIR VOLUME
E/A	EXHAUST AIR	NIC NOM	NOT IN CONTRACT NOMINAL	VCT	TERMINAL VINYL COMPOSITION TILE
EA EDH	EACH ELECTRIC DUCT HEATER	NPW	NOMINAL NON POTABLE WATER	VFD	VARIABLE FREQUENCY DRIVE
EF	EXHAUST FAN	NTS	NOT TO SCALE	XENT VERT	VENTILATION VERTICAL
EIP ELEV	EXISTING IRON PIPE ELEVATION	OA	OUTSIDE AIR	VERT VTR	VENT THRU ROOF
ELEC	ELECTRIC	OC	ON CENTER		
EP	EDGE OF PAVEMENT	OCS	OUTLET CONTROL STRUCTURE	W W/	WATT WITH
EQUIP EWC	EQUIPMENT ELECTRIC WATER COOLER	OD OH	OUTSIDE DIAMETER OVERHEAD	WC	WATER CLOSET
EJ	EXPANSION JOINT	OL	OVERLOAD	WD	WOOD
EX	EXISTING	OPNG	OPENING	WG WM	WATER GAGE WATER METER
EXH EXT	EXHAUST EXTERIOR	OPP OSD	OPPOSITE OPEN SIGHT DRAIN	WP	WEATHERPROOF
				WPD	WATER PRESSURE DROP
F	FILTER / FAHRENHEIT	P PARTN	PUMP PARTITION	WSA WTR	WATER SURFACE AREA WATER
FA FCO	FIRE ALARM FLOOR CLEANOUT	PARTN PD	PRESSURE DROP	WTS	WATER TEMPERATURE SENSOR
FCU	FAN COIL UNIT	PER	PERIMETER	WV WWF	WATER VALVE
FCW FD	FILTERED COLD WATER FLOOR DRAIN	PF PIV	PRE-FILTER POST INDICATOR VALVE	WH	WELDED WIRE FABRIC WATER HEATER
FDC FDC	FLOOR DRAIN FIRE DEPARTMENT	PL	PLATE		
	CONNECTION	PLBG	PLUMBING	YCO YH	YARD CLEANOUT YARD HYDRANT
				111	D WO THE WAY

SYMBOL LEGE	END
SYMBOL	DESCRIPTION
DETAIL DESIGNATION AREA TO BE DETAILED SHEET DETAIL IS FOUND ON	DETAIL INDICATOR
SECTION DESIGNATION X X.X SHEET SECTION IS FOUND ON	SECTION SYMBOL
ELEVATION DESIGNATION SHEET ELEVATION IS FOUND ON	ELEVATION SYMBOL
A	STRUCTURAL GRID
F <u>FE</u> = 0'-0"	ELEVATION TAG
	AREA OF REVISION AND REVISION NUMBER
1	KEY NOTE

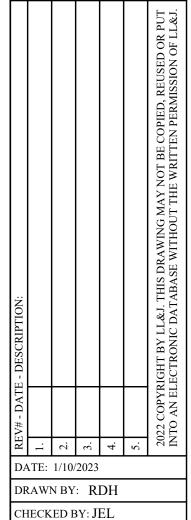
	TAG LEGEND
SYMBOL	DESCRIPTION
ROOM NAME	ROOM TAG AND ROOM NUMBER
W-1>	WINDOW TAG
101A	DOOR TAG
ES	DOOR ELECTRIC STRIKE











SHEET TITLE

SHEET NUMBER

GENERAL

NOTES AND ABBREVIATIONS

G-003

NORTH

NORTH

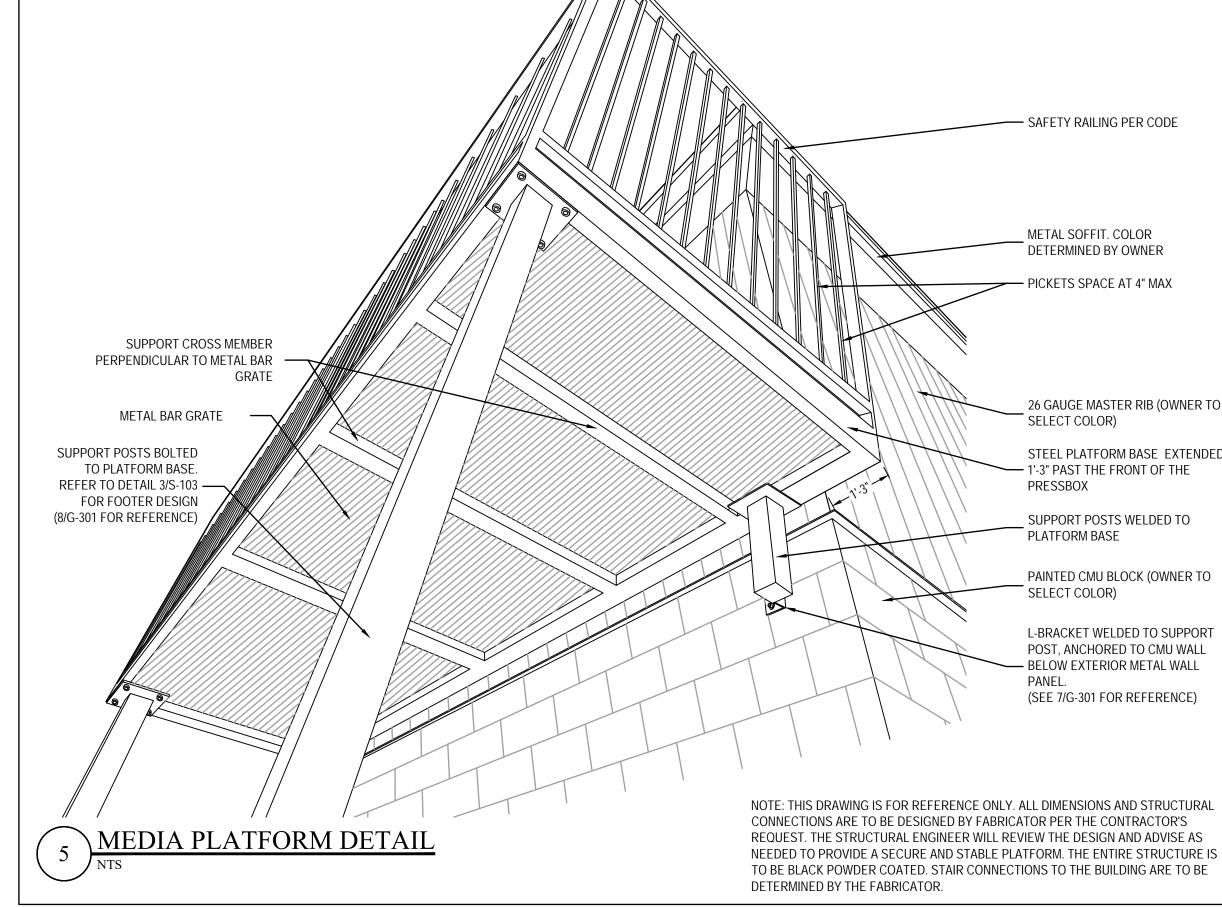
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FINAL RELEASED FOR CONSTRUCTION

FINAL RELEASED FOR CONSTRUCTION

FINAL RELEASED FOR CONSTRUCTION

OVERALL BUILDING SECTION





\PLATFORM BRACKET CONNECTION

BUILDING SECTIONS AND **DETAILS**

G-301

PROJECT# 21-11110

HEET NUMBER

FINAL RELEASED FOR CONSTRUCTION

DULE,
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x.dwg, G-601 ROOM FINISH SCHEDUL
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						ROOI	M AND FII	VISH SC	HEDULE									
ROOM	ROOM NAME	FLOOR	BASE	No	ORTH WALL	S	OUTH WALL		EAST WALL	WES	T WALL		CEILING		REMARKS	HDW	DOC	OR SIGNAGE
NO.	ROOW NAME	FLOOR	DASE	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	HEIGHT	REWARKS	SET	TYPE	NAME
101	WOMEN	CONC		MRGWB	P-2	CMU	P-1	CMU	P-1	MRGWB	P-2	GWB	P-2	9'-0"		5		
102	MEN	CONC		CMU	P-1	MRGWB	P-2	CMU	P-1	MRGWB	P-2	GWB	P-2	9'-0"		5		
103	CONCESSION	CONC		CMU	P-1	CMU	P-1	MRGWB	P-2	CMU	P-1	GWB	P-2	9'-0"		3		
201	MEDIA 1																	
202	COACH ROOM 1	LVT-1	RB-1	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	8'-0"				
203	PRESS BOX	LVT-1	RB-1	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	8'-0"				
204	COACH ROOM 2	LVT-1	RB-1	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	8'-0"				
205	MEDIA 2																	

						DO	OOF	RSC	HEDUI	LE				
		DO	OR / OPE	NING			FRA	ME		DETAILS		HDW	FIRE	REMARKS
NO.	TYPE	MAT'L	WIDTH	HEIGHT	THK.	FIN.	TYPE	MAT'L	HEAD	JAMB(S)	SILL	SET	RATING	KEWAKKS
101A	D-1	HM	6'-0"	7'-0"	13/4"	Р	F-1	НМ	2/S-501	2/S-501	1/S-502	2		
102A	D-1	HM	6'-0"	7'-0"	13/4"	Р	F-1	НМ	2/S-501	2/S-501	1/S-502	2		
103A	D-1	HM	6'-0"	7'-0"	13/4"	Р	F-1	НМ	2/S-501	2/S-501	1/S-502	2		
201A	D-1	НМ	3'-0"	7'-0"	13/4"	Р	F-1	НМ	7/G-502			2		
202A	D-2	WD	3'-0"	7'-0"	13/4"	Р	F-2	НМ	2/G-601	3/G-601		1		
203A	D-2	WD	3'-0"	7'-0"	13/4"	Р	F-2	НМ	2/G-601	3/G-601		2		
204A	D-2	WD	3'-0"	7'-0"	13/4"	Р	F-2	НМ	2/G-601	3/G-601		1		
205A	D-1	НМ	3'-0"	7'-0"	13/4"	Р	F-1	НМ	7/G-502			2		

	ABBRE	EVIATIONS LEGEND
		NONE OR NOT APPLICABLE
	CONC	SEALED CONCRETE
$\frac{1}{2}$	GWB	GYPSUM WALL BOARD
$\frac{1}{1}$	НМ	HOLLOW METAL
1	LVT	LUXURY VINYL TILE
	MRGWB	MOISTURE RESISTANT GYPSUM
		WALL BOARD
$\frac{1}{1}$	Р	PAINTED
$\frac{1}{2}$	RB	RESILIENT BASE
_	TIG	TEMPERED INSULATED GLASS

DOOR HARDWARE SCHEDULE

- OFFICE FUNCTION LOCKSET, BEST 45H7A-16H 626

- 1.5 PR HEAVY DUTY HINGES, HAGER BB1168 USP 4 1/2" X 4 1/2" MEDIUM STILE EXIT DEVICE, DORMA 9300-08
- SURFACE-MOUNTED CLOSER, DORMA 8616 AF86P 626
- DOOR SWEEP, NGP 101VA THRESHOLD, NGP 426E

HW SET #1 OFFICE - STC 49

- SURFACE-MOUNTED CLOSER, DORMA 8616 AF86 626 WALL STOP, ROCKWOOD
- THRESHOLD, NGP 412

HW SET #2 TYPICAL EXTERIOR DOOR

1 SET WEATHERSTRIPPING, NGP 155V

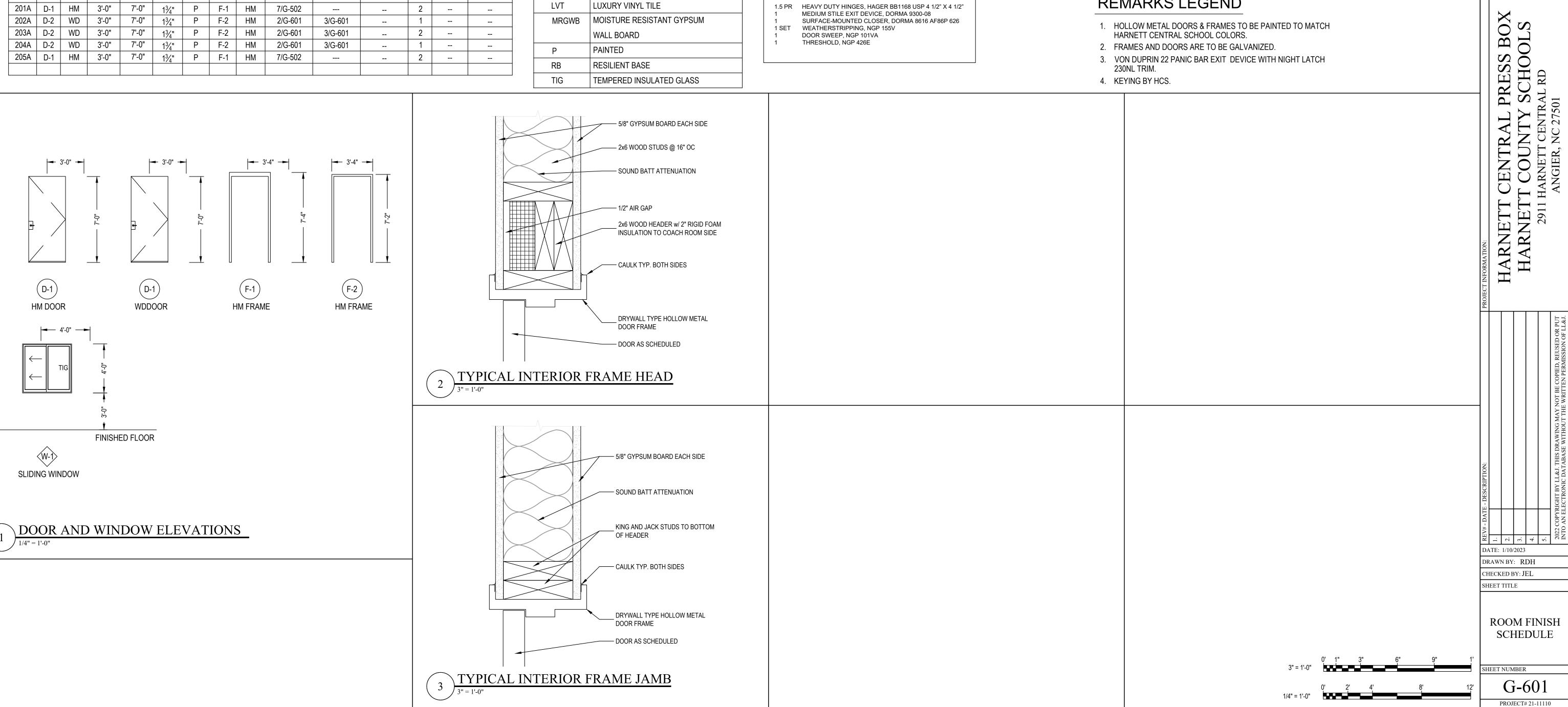
	MATERIALS LEGEND
CEILING	
GWB	GYPSUM BOARD
FLOORIN	G
CONC	SEALED CONCRETE
LVT-1	ARMSTRONG, NATURAL CREATIONS COMMERCIAL COLLECTION, COLOR (TBD
	BY OWNER).
BASE	
RB-1	ARMSTRONG, 4" HIGH COVE CONTINUOUS ROLL, COLOR (TBD BY OWNER).
WALLS	
P-1	SHERWIN WILLIAMS - LOXON MASONRY TOPCOAT (OR SIMILAR),
	COLOR (TBD BY OWNER).
P-2	SHERWIN WILLIAMS - EMERALD DESIGNER EDITION INTERIOR LATEX PAINT
	(OR SIMILAR), COLOR TBD BY OWNER.
DOORS	•
P-3	SHERWIN WILLIAMS - FLEXTEMP EXTERIOR ACRYLIC LATEX PAINT (OR SIMILAR),
	COLOR (TBD BY OWNER).

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

3/14/2023

REMARKS LEGEND

- 1. HOLLOW METAL DOORS & FRAMES TO BE PAINTED TO MATCH
- HARNETT CENTRAL SCHOOL COLORS.
- 2. FRAMES AND DOORS ARE TO BE GALVANIZED.
- 3. VON DUPRIN 22 PANIC BAR EXIT DEVICE WITH NIGHT LATCH 230NL TRIM.
- 4. KEYING BY HCS.



- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS. ALL DIMENSIONS SHOWN ARE FOR REPRESENTATION ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION AND ALL REQUIRED CLEARANCES. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCY
- 2. DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.
- 3. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 4. COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH GENERAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL. NOTIFY CONTRACTING OFFICER OF ANY CONFLICT AND/OR OMISSION. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE CONTRACTING OFFICER. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE GENERAL, MECHANICAL AND PLUMBING DRAWINGS.
- 5. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE CONTRACTING OFFICER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE CONTRACTING OFFICER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION.
- ANY BRAND SPECIFIC EQUIPMENT/MATERIALS MAY BE SUBSTITUTED W/ AN EQUIVALENT PRODUCT BY AN ALTERNATE MANUFACTURER IF APPROVED BY THE ENGINEER OF RECORD, UNO.
- THICKENED SLAB LOCATIONS SHALL BE FIELD VERIFIED/LOCATED BELOW FINAL ANCHOR BOLT LOCATIONS. ANCHOR BOLTS SHALL BE INSTALLED PER MANUFACTURE'S INSTRUCTIONS.
- 8. ALL OPENINGS IN THE EXTERIOR BUILDING ENVELOPE SHALL BE SEALED AGAINST AIR INFILTRATION.

ARCHITECT/ENGINEER

BFF

BELOW FINISH FLOOR

DEMOLITION

- NO GEOTECHNICAL BORINGS WERE PERFORMED FOR THIS PROJECT. THE DESIGN OF FOUNDATIONS IS BASED ON A PRESUMPTIVE ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF.
- 2. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING CONSTRUCTION TO DIRECT WATER AWAY FROM FOUNDATION CONSTRUCTION AREAS. ANY SUB-GRADE SOILS WEAKENED BY THROUGH SATURATION OR DISTURBANCE SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL. CONTRACTOR SHALL COORDINATE EXTERIOR SITE WORK WITH FOUNDATION WORK.
- AFTER STRIPPING MATERIAL FROM AREA TO BE GRADED, REMOVE ALL UNSUITABLE MATERIAL FROM EXPOSED SUB-GRADE, SUCH AS DEBRIS, TRASH, ORGANIC MATTER OR SOFT SOIL. SOIL SURFACES RECEIVING COMPACTED STRUCTURAL FILL SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK. AREAS EXHIBITING EXCESSIVE PUMPING. WEAVING OR RUTTING SHALL BE EXCAVATED AND REPLACED WITH COMPACTED STRUCTURAL FILL OR SCARIFIED, DRIED AND RECOMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING
- 4. ALL FILL SHALL BE PLACED IN 6"-8" UNCOMPACTED LIFTS (MAXIMUM) AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR). THE MOISTURE CONTENT OF FILL AT TIME OF PLACEMENT SHALL BE WITHIN +/- 3% OF THE OPTIMUM MOISTURE CONTENT DETERMINED IN THE LABORATORY. COMPACTED FILL SUB-GRADES WITH A SLOPE GREATER THAN 4H:1V SHALL BE BENCHED TO ALLOW PLACEMENT OF HORIZONTAL LIFTS.
- 5. ALL STRUCTURALLY COMPACTED FILL SHALL BE OF MATERIAL CLASSIFIED CL, ML, CS, SM, SP, SW, GC, GM, OR GW ACCORDING TO ASTM D-2487, FREE FROM CLAY BALLS, TRASH, DEBRIS OR OTHER DELETERIOUS MATTER
- 6. A QUALIFIED GEOTECHNICAL ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL SUBGRADES, FILLS AND BACKFILLS BEFORE PLACEMENT OF FOUNDATIONS, FOOTINGS, SLABS, WALLS, FILLS, BACKFILLS, ETC.

REINFORCED CONCRETE NOTES

- FLOOR SLAB SHALL BE 4" (MIN) THICK CONCRETE. ALL CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI AFTER 28 DAYS. MAXIMUM WATER TO CEMENT RATIO SHALL BE 0.50 WITH MAXIMUM SLUMP OF 4 INCHES. CONCRETE SLAB SHALL CONTAIN A MINIMUM OF 3LBS/CUYD OF FORTA-FERRO FIBER REINFORCEMENT.
- ALL CONCRETE WALLS SHALL BE SUPPORTED LATERALLY DURING BACKFILLING. ALL DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL, FORM WORK, MIXING, HANDLING, PLACING, FINISHING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILED REINFORCED CONCRETE STRUCTURES" (ACI-315) AND ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318).
- 4. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615, NEW BILLET STEEL DEFORMED BARS, GRADE
- 60 UNLESS NOTED OTHER WISE, ALL REINFORCING BAR SPLICES SHALL BE ACI CLASS B TENSION LAP SPLICES. PRIOR TO CASTING FOUNDATIONS, PREPARE THE SITE IN ACCORDANCE WITH PLANS, SPECIFICATIONS AND REQUIRED COMPACTION.
- ALL CONCRETE WORK SHALL CONFORM TO ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. DESIGN IS BASED ON ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.

W/C RATIO

7. UNLESS NOTED OTHERWISE, ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS:

	<u>1 U</u>	<u> </u>
FOUNDATIONS	3,500 PSI	0.50 MAX
SLABS-ON-GRADE	3,500 PSI/MIN	0.50 MAX
SUSPENDED FLOOR SLAB	3,000 PSI	0.50 MAX

- USE OF CALCIUM CHLORIDE, CHLORIDE IONS OR OTHER SALTS IN CONCRETE IS NOT PERMITTED
- 9. PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE; SPLICE ONLY AS SHOWN OR APPROVED; STAGGER SPLICES WHERE POSSIBLE; USE FULL TENSION SPLICE (CLASS "B") FOR CONTINUOUS REINFORCEMENT AND MATCHING DOWELS UNLESS NOTED OTHERWISE
- 10. REINFORCING STEEL SHALL HAVE THE FOLLOWING CONCRETE COVER UNLESS NOTED OTHERWISE
 - A. CONCRETE CAST AGAINST EARTH (NOT FORMED)......3"
 - B. FORMED CONCRETE EXPOSED TO THE EARTH OR WEATHER: #6 THROUGH #18 BARS...

#5 BARS AND SMALLER...

- C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER SUSPENDED SLABS AND WALLS: #14 THROUGH #18 BARS. #11 BARS AND SMALLER.
- BEAMS (STIRRUPS) AND COLUMNS (TIES)...
- 15. DO NOT PLACE PIPES OR DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB OR WALL UNLESS SPECIFICALLY SHOWN AND DETAILED ON STRUCTURAL DRAWINGS. ANY PIPES SHALL BE BETWEEN THE OUTER HORIZONTAL AND VERTICAL LAYERS OF REINFORCEMENT.
- 16. REINFORCE SLAB-ON-GRADE AT ALL PENETRATIONS AND AT RE-ENTRANT CORNERS. PLACE THREE #3X3'-0 AROUND FLOOR DRAINS. PLACE #4X4'-0" (MIN) AT RE-ENTRANT CORNERS. HOLD REINFORCING 1" CLEAR FROM TOP OF
- 17. WALLS AND OTHER INTERSECTING ELEMENTS SHALL HAVE CORNER BARS TO PROVIDE CONTINUITY. USE CRSI STANDARDS OR AS SHOWN ON THE DRAWINGS
- 18. SLAB SHALL BE PLACED IN ACCORDANCE WITH ACI 302.1R AND F-NUMBERS

STRUCTURAL NOTES

- THERE ARE NO LOAD BEARING WALLS DESIGNED AS PART OF THIS PROJECT
- LIGHT GAUGE FRAMING SHALL BE GALVANIZED STEEL, G-60 COATING TO COMPLY WITH ASTM A653, MINIMUM YIELD, SIZES AND GAUGES SHOWN.
- LIGHT GAUGE FRAMING SHALL BE INSTALLED IN COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND THE
- MANUFACTURER'S RECOMMENDATIONS. ALL LIGHT GAUGE FRAMING SHALL BE INSTALLED BY EXPERIENCED WORKMEN SO AS TO PRODUCE RIGID
- ASSEMBLIES, ADD SUFFICIENT CONNECTIONS AS REQUIRED. FOR STUD FRAMING AT WALL OPENINGS, REFER TO DETAILS.
- 6. AT INTERIOR STUD WALLS, ATTACH TRACKS TO CONCRETE WITH ONE POWER DRIVEN FASTENER PER STUD MINIMUM.
- 7. WALL BRIDGING SHALL BE PER STRUCTURAL DETAILS.

CONSTRUCTION NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS. ALL DIMENSIONS SHOWN ARE FOR REPRESENTATION ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION AND ALL REQUIRED CLEARANCES WITH
- ALL ANCHOR BOLTS ARE TO BE ASTM F1554, GRADE 36.
- THICKENED SLAB LOCATIONS SHALL BE FIELD VERIFIED/LOCATED BELOW FINAL ANCHOR BOLT LOCATIONS. ANCHOR BOLTS SHALL BE INSTALLED PER MANUFACTURE'S INSTRUCTIONS.

ROOF FRAMING / TRUSS NOTES

- TRUSSES MANUFACTURER TO DESIGN ENTIRE ROOFING SYSTEM. TRUSS MANUFACTURER TO BE SELECTED BY GENERAL CONTRACTOR.
- 2. TRUSS DRAWING IS FOR ILLUSTRATION ONLY. ALL TRUSSES SHALL BE INSTALLED & BRACED TO MANUFACTURERS DRAWINGS & SPECIFICATIONS.
- 3. ALL TRUSSES WILL NOT BE FIELD ALTERED WITHOUT PRIOR MANUFACTURER APPROVAL OR APPROVAL OF
- STRUCTURAL ENGINEERING CALCULATIONS. 4. ALL TRUSSES SHALL HAVE DESIGN DETAILS & DRAWINGS ON SITE FOR FRAMING INSPECTION.
- ALL CONNECTIONS OF RAFTERS, JACK OR HIP TRUSSES TO MAIN GIRDER TO BE PROVIDED BY TRUSS MANUFACTURER, RAFTER OVERHANGS SHALL NOT EXCEED THE LESSER OF ONE-THIRD OF THE RAFTER SPAN OR 2
- ROOFS SHALL BE SHEATHED WITH A MINIMUM OF 7/16" WOOD STRUCTURAL PANEL SHEATHING WITH ROOF FRAMING
- MEMBER SPACING OF 24" O.C. WOOD ROOF TRUSS SYSTEMS SHALL BE DESIGNED, MANUFACTURED, AND INSTALLED IN ACCORDANCE ANSI/TPI 1 NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, THE TRUSS DESIGN
- DRAWINGS, AND/OR THE MANUFACTURER'S CODE EVALUATION REPORT. BLOCKING AND CONNECTIONS SHALL BE PROVIDED AT PANEL EDGES PERPENDICULAR TO ROOF FRAMING
- MEMBERS IN THE FIRST TWO TRUSS OR JOIST SPACES AND SHALL BE SPACED AT A MAXIMUM OF 4 FEET ON
- ALL ROOF PITCH SHALL BE AS SHOWN UNLESS NOTED OTHERWISE

MICRO-LAMINATED

QUANTITY

- 10. PROVIDE 1" MIN. AIR GAP AT EAVES WITH INSULATION BAFFLES AT ALL TRUSS BAYS.
- 11. ALL EXPOSED INSULATION TO HAVE A FLAME SPREAD RATING OF LESS THEN 25 AND A SMOKE DENSITY RATING OF LESS THAN 450.
- 12. THE CONTRACTOR SHALL NOT USE MATERIALS UNLESS THEY MEET CURRENT CODES AND ARE APPROVED FOR THAT SPECIFIC USE BY THE BUILDING OFFICIAL

THRU BOLT

19. HURRICANE STRAPS SHALL BE INSTALLED AS ROOF ANCHORAGE TO LOAD BEARING WALLS. HURRICANE STRAPS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

- . ATTIC SHALL HAVE VENTILATION EQUAL TO 1 SQ. FOOT PER 300 SQ. FEET OF ATTIC SPACE. VENTILATION SHALL BE PROTECTED FROM SNOW AND RAIN AND SHALL BE COVERED WITH GALVANIZED WIRE SCREEN. OPENINGS SHALL BE LOCATED TO PROVIDE CROSS VENTILATION.
- 2. EXHAUST ALL VENTS AND FANS DIRECTLY TO OUTSIDE VIA METAL DUCTS.

ALL OPENINGS IN THE EXTERIOR BUILDING. ENVELOPE SHALL BE SEALED AGAINST AIR INFILTRATION. THE FOLLOWING

- AREAS MUST BE SEALED. * JOINTS AROUND WINDOW AND DOOR FRAMES
- JOINTS BETWEEN WALL CAVITY AND WINDOW/DOOR FRAMES.
- JOINTS BETWEEN WALL AND FOUNDATION
- JOINTS BETWEEN WALL AND ROOF
- JOINTS BETWEEN WALL PANELS UTILITY PENETRATIONS THROUGH EXTERIOR WALLS

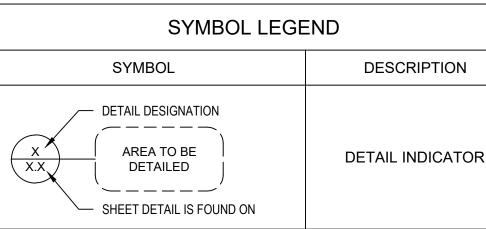
- BUILDING CODE: NCSBC 2018, ASCE 7-16 OCCUPANCY CATEGORY: CATEGORY II (NORMAL USE)
- 2. LIVE LOAD 1ST FLOOR: 100 PSF 2.1.1.
- 2.1.2. 2ND FLOOR: 100 PSF 2.1.3. ROOF: 20 PSF
- 2.1.4. STAIRS: 100 PSF
- 3. SNOW LOAD 3.1.1. GROUND SNOW: 15 PSF 3.1.2. FLAT ROOF SNOW (Pf): 15 PSF (CONSERVATIVE)
- SNOW EXPOSURE FACTOR, (Ce): 0.9 (FULLY) 3.1.3. 3.1.4. SNOW IMPORTANCE FACTOR, (Is): 1.0
- 3.1.5. THERMAL FACTOR, (Ct): 1.0

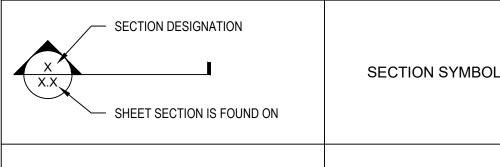
WIND 4.1. 120 MPH

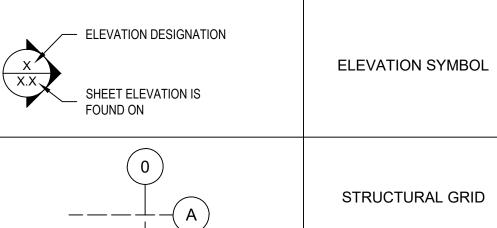
- WIND IMPORTANCE FACTOR, (Iw): 1.0 4.2.
- 4.3. WIND EXPOSURE: B 4.4. INTERNAL PRESSURE COEFFICIENT: +/- 0.18 (ENCLOSED)

EARTHQUAKE 5.1. RISK CATEGORY: II

- SEISMIC IMPORTANCE FACTOR (Ie): 1.0
- SPECTRAL RESPONSE ACCELERATION: Ss = 0.13 S1 = 0.064 SITE CLASS: D 5.4.
- SPECTRAL RESPONSE COEF: SDS = 0.139 SD1 = 0.103
- SEISMIC DESIGN CATEGORY: B
- SEISMIC RESISTING SYSTEM: BEARING WALL DESIGN BASE SHEAR: Vx = 1.8 KIPS Vy = 2.9 KIPS
- SEISMIC RESPONSE COEF (Cs) = 0.0556
- RESPONSE MODIFICATION COEF, (R): 3
- 5.11. ANALYSIS PROCEDURE: SIMPLIFIED PRESUMPTIVE SOILS BARING CAPCITY OF 2000 PSF
- FROST LINE DEPTH: 12-INCHES.







LEVEL 1 +15'-0" AFF LEVEL TAG AREA OF REVISION AND

REVISION NUMBER KEY NOTE

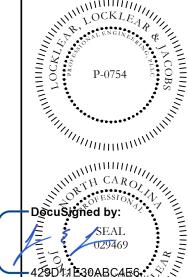
STRUCTURAL NOTES AND

CHECKED BY: JEL

SHEET TITLE

S-001PROJECT# 21-11110

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



3/14/2023

RE

| 1 | 2 | E | 4 | C | DATE: 1/10/2023 DRAWN BY: RDH

ABBREVIATIONS HEET NUMBER

STRUCTURAL ABBREVIATIONS

A/L	ANOTHE CITENGINEER	BNG	DACKING	DET	DETAIL	LIN LFU	FINISHFLOOR	INCL	INCLUDED	IVIL	IVIICAO-LAIVIINATED,			I LIVIE	ILIVIFORANI
AB	ANCHOR BOLT	BKGD	BACKGROUND	DEV	DEVELOPMENT	FLG	FLANGE	INFO	INFORMATION		MONOLITHIC	R	RADIUS, RISER	THD	THREAD
ABBRV	ABBREVIATION	BLDG	BUILDING	DIA	DIAMETER	FLR	FLOOR	IN-LB	INCH-POUND	MO	MASONRY OPENING	RC	REINFORCED CONCRETE	THK	THICKNESS
ACI	AMERICAN CONCRETE	BLK	BLOCK/BLOCKING	DIAG	DIAGONAL	FLR SK	FLOOR SINK	IN-LBF	INCH-POUND FORCE	MS	MACHINE SCREW	RD	ROAD, ROOF DRAIN	THRU	THROUGH
	INSTITUTE	BLVD	BOULEVARD	DIFF	DIFFERENCE, DIFFERENTIAL	FOC	FACE OF CONCRETE	INSTL	INSTALL	MSL	MEAN SEA LEVEL	REC	RECESSED	TJI	TRUSS JOIST INSTITUTE
ACP	ASPHALTIC CONCRETE PAVING	BLW	BELOW	DIM	DIMENSION	FOF	FACE OF FINISH	INSUL	INSULATION	MTL	METAL	REF	REFERENCE	TO	TOP OF
AD	AREA DRAIN	BM	BEAM	DIST	DISTANCE	FOM	FACE OF MASONRY	INT	INTERIOR			REINF	REINFORCED	TOB	TOP OF BEAM
ADA	AMERICANS WITH DISABILITIES	ВО	BOTTOM OF	DIV	DIVIDE	FOS	FACE OF SLAB, FACE OF STUD	IR	INSIDE RADIUS	N	NORTH	REQ	REQUIRE	TOC	TOP OF CONCRETE
	ACT	BOS	BOTTOM OF STEEL	DJ	DOUBLE JOIST	FOW	FACE OF WALL			NA	NOT APPLICABLE	REQD	REQUIRED	TOC	WALL TOP OF CONCRETE WALL
ADDL	ADDITIONAL	BOT	BOTTOM	DL	DEAD LOAD	FR	FRAME	K	KIP, THOUSAND	NF	NEAR FACE	REV	REVISION	TOF	TOP OF FOOTING
ADDM	ADDENDUM	B PL	BASE PLATE	DOC	DOCUMENT	FRMG	FRAMING	KB	KNEE BRACE	NIC	NOT IN CONTRACT	RGD INS	RIGID INSULATION	TOG	TOP OF GRATE
ADJ	ADJACENT/ADJOINING	BRCG	BRACING	DWG	DRAWING	FS	FAR SIDE	KCJ	KEYED CONTROL JOINT	NO	NUMBER	RND	ROUND	TOJ	TOP OF JOIST
ADMIN	ADMINISTRATION	BRDG	BRIDGING			FSTNR	FASTENER	KIP	THOUSAND POUNDS	NOM	NOMINAL	RO	ROUGH OPENING	TOL	TOLERANCE
AFF	ABOVE FINISHED FLOOR	BRG	BEARING	EA	EACH	FT	FOOT / FEET	KIP FT	THOUSAND FOOT/POUNDS	NS	NEAR SIDE	RT	RIGHT	TOM	TOP OF MASONRY
AFG	ABOVE FINISHED GRADE	BRG PL	BEARING PLATE	EE	EACH END	FT/LB	FOOT/POUND	KLF	KIPS PER LINEAL FOOT	NTS	NOT TO SCALE	RVL	REVEAL	TOP	TOP OF PARAPET
AGGR	AGGREGATE	BS	BOTH SIDES	EF	EACH FACE	FT/LBF	FOOT/POUND FORCE	KO	KNOCK OUT					TOS	TOP OF SLAB
AHR	ANCHOR	BSMT	BASEMENT	EIFS	EXTERIOR INSULATION AND	FTG	FOOTING	KOP	KNOCK OUT PANEL	0/0	OUT TO OUT	S	SOUTH	TOS	TOP OF STEEL
AIA	AMERICAN INSTITUTE OF	BT WLD	BUTT WELD		FINISH SYSTEM	FUT	FUTURE	KSF	KIPS PER SQUARE FOOT	OA	OVERALL	SCHEM	SCHEMATIC	TOW	TOP OF WALL
	ARCHITECTS	BTWN	BETWEEN	EJ	EXPANSION JOINT			KSI	KIPS PER SQUARE INCH	OC	ON CENTER	SD	SHOP DRAWINGS	TRANS	TRANSVERSE
AISC	AMERICAN INSTITUTE OF STEEL			EL	ELEVATION	G	GIRDER			OD	OUTSIDE DIAMETER	SDI	STEEL DECK INSTITUTE	TRNBKL	TURNBUCKLE
	CONSTRUCTION	С	CHANNEL	ELAST	ELASTOMERIC	GA	GAGE	L	ANGLE	OF	OUTSIDE FACE	SE	STRUCTURAL ENGINEER	TYP	TYPICAL
AISI	AMERICAN IRON AND STEEL	C/C	CENTER TO CENTER	ELEC	ELECTRIC	GALV	GALVANIZED	LAM	LAMINATE	OFS	OUTSIDE FACE OF STUD	SECT	SECTION		
	INSTITUTE	CD	CONSTRUCTION DOCUMENTS,	ELEM	ELEMENTARY	GALV STL	GALVANIZED STEEL	LATL	LATERAL	OPH	OPPOSITE HAND	SF	SQUARE FEET (FOOT)	UBC	UNIFORM BUILDING CODE
AITC	AMERICAN INSTITUTE OF		CONTRACT DOCUMENTS	ELEV	ELEVATOR	GR BM	GRADE BEAM	LBF	POUND-FORCE	OPNG	OPENING	SHT	SHEET, SHAFT	UNO	UNLESS NOTED OTHERWISE
	TIMBER CONSTRUCTION	CEM	CEMENT	EMBED	EMBEDDED/EMBEDMENT	GC	GENERAL CONTRACTOR	LBR	LUMBER	OPP	OPPOSITE	SIM	SIMILAR		
ALNMT	ALIGNMENT	CHFR	CHAMFER	ENCL	ENCLOSURE	GEN	GENERAL	LBS	POUND	OPT	OPTIONAL	SJI	STEEL JOIST INSTITUTE	VAR	VARIES
ALT	ALTERNATE, ALTERNATIVE	CI	CAST IRON	ENGR	ENGINEER	GLU LAM	GLUED LAMINATED WOOD	LD BRG	LOAD BEARING	OR	OUTSIDE RADIUS	SLNT	SEALANT	VERT	VERTICAL
ALUM	ALUMINUM	CIP	CAST-IN-PLACE	EOS	EDGE OF SLAB	GLZ	GLAZING	LF	LINEAR FEET (FOOT)	•		SM	SMOOTH	VIF	VERIFY IN FIELD
AMT	AMOUNT	CJ	CONSTRUCTION JOINT,	EPA	ENVIRONMENTAL PROTECTION	GOVT	GOVERNMENT	LIN	LINEAR	PAR	PARALLEL, PARAPET	SPEC	SPECIFICATION	VNR	VENEER
ANSI	AMERICAN NATIONAL		CONTRACTION JOINT,		AGENCY	GRTG	GRATING	LL	LIVE LOAD	PC	PIECE, PORTLAND CEMENT	SQ	SQUARE	VR	VAPOR RETARDER
7	STANDARDS INSTITUTE		CONTROL JOINT	EQ	EQUAL	GT	GROUT	LLBB	LONG LEG BACK TO BACK	PCC	PRECAST CONCRETE	SQ IN	SQUARE INCH	VRFY	VERIFY
APA	AMERICAN PLYWOOD	CL	CENTER LINE	EQUIP	EQUIPMENT	0.	GING GI	LLH	LONG LEG HORIZONTAL	PCF	POUNDS PER CUBIC FOOT	SQ YD	SQUARE YARD		
"""	ASSOCIATION	CLG	CEILING	EQUIV	EQUIVALENT	Н	HIGH	LLV	LONG LEG VERTICAL	PED	PEDESTAL	SSPC	STRUCTURAL STEEL PAINTING	W	WEST, WIDE
APPD	APPROVED	CLR	CLEAR	EST	ESTIMATE	HAS	HEADED ANCHOR STUD	LONG	LONGITUDINAL	PEN	PENETRATE	33. 3	COUNCIL	W/	WITH
APPROX	APPROXIMATE	CM	CENTIMETER	ETC	ET CETERA	HC	HOLLOW-CORE	LT GA	LIGHT GAGE	PERIM	PERIMETER	ST	STAIRS	W/O	WITHOUT
APPX	APPENDIX	CMU	CONCRETE MASONRY UNIT	EW	EACH WAY	HCP	HANDICAPPED	LT WT	LIGHT WEIGHT	PH	PHASE	STAG	STAGGERED	WBL	WOOD BLOCKING
ARCH	ARCHITECT	COL	COLUMN	EX	EXAMPLE	HD.	HEAVY DUTY	LVR	LOUVER	PIL	PILASTER	STD	STANDARD	WD	WOOD
ASCE	AMERICAN SOCIETY OF CIVIL	COM	COMMON	EXC	EXCAVATE	HGR	HANGER	LWC	LIGHTWEIGHT CONCRETE	PL	PLATE	STL	STEEL	WF	WIDE FLANGE
	ENGINEERS	CONC	CONCRETE	EXCL	EXCLUDE	HLDN	HOLDDOWN			PLAT	PLATFORM	STR	STRINGERS	WF BM	WIDE FLANGE BEAM
ASSN	ASSOCIATION	CONN	CONNECTION	EXIST	EXISTING	HORIZ	HORIZONTAL	М	MOMENT	PLBG	PLUMBING	STRUCT	STRUCTURAL	WL	WIND LOAD
ASTM	AMERICAN SOCIETY FOR	CONSTR	CONSTRUCTION	EXP	EXPANSION	HS	HIGH STRENGTH	MAINT	MAINTENANCE	PLF	POUNDS PER LINEAR FOOT	SUB	SUBSTITUTE	WLD	WELDED
1.01	TESTING AND MATERIALS	CONT	CONTINUOUS, CONTINUE	EXT	EXTERIOR	HSKPG	HOUSEKEEPING	MATL	MATERIAL	POS	POSITION	SUF	SUFFICIENT	WM	WIRE MESH
ATCH	ATTACHMENT	COORD	COORDINATE	2711	Z// Z/ (G/)	HSS	HOLLOW STRUCTURAL	MAX	MAXIMUM	PP	PANEL POINT	SUP	SUPPLEMENTARY	WP	WATERPROOFING
ATTN	ATTENTION	CTR	CENTER	F/F	FACE TO FACE	1100	SECTIONS	MB	MACHINE BOLT	PRCST	PRECAST	SUPPL	SUPPLEMENT	WSCT	WAINSCOT
AWS	AMERICAN WELDING SOCIETY	CTRL	CONTROL	FAB	FABRIC	HST	HOIST	MC	MOMENT CONNECTION	PREFAB	PREFABRICATE	SYM	SYMBOL	WT	WEIGHT
/	, and do at the bird doore it	CU	CUBIC	FB	FLAT BAR	HT	HEIGHT	MCJ	MASONRY CONTROL JOINT	PRELIM	PRELIMINARY	SYMM	SYMMETRICAL	WWF	WELDED WIRE FABRIC
B&F	BELL AND FLANGE	CU YD C	UBIC YARD	FD	FLOOR DRAIN		TIEIGITI	MD	METAL DECK	PREV	PREVIOUS	SYS	SYSTEM	WWM	WELDED WIRE MESH
BAL	BALANCE	00 10 0	CD10 17111D	FDTN	FOUNDATION	IBC	INTERNATIONAL BUILDING	MECH	MECHANICAL	PSF	POUNDS PER SQUARE FOOT	010	3.31EM		
B/B	BACK TO BACK	D	DEEP, DEPTH	FF	FAR FACE	.50	CODE	MEZZ	MEZZANINE	PSI	POUNDS PER SQUARE INCH	Т	TREAD	X BRACE	CROSS BRACING
BC BC	BOTTOM CHORD	DBL	DOUBLE	FF EL	FINISH FLOOR ELEVATION	ID	INSIDE DIAMETER	MFR	MANUFACTURER	PTN	PARTITION	T&B	TOP AND BOTTOM	XXH	DOUBLE EXTRA HEAVY
BD	BOARD	DEG	DEGREE	FIN GR	FINISH GRADE	IF	INSIDE FACE	MID	MIDDLE	PVG	PAVING	T&G	TONGUE AND GROOVE	7011	
BEV	BEVEL	DEL	DELETE	FH	FLAT HEAD	ir IFS	INSIDE FACE OF STUD	MIN	MINIMUM			TAN	TANGENT	YD	YARD
DEC		DEMO	DEMOLITION	EINI	FINICIA	11.0	INOLI	MICC	MICCELLANICOLIC	OTV	OLIANITITY	1/ U V	TUDU DOLT	. 5	

MISC

MISCELLANEOUS

- FINISH FLOOR ELEVATION SHALL BE FIELD DETERMINED BASED ON EXISTING GRADES AND DESIRED STORMWATER RUNOFF PATTERNS.
- 2. CONTRACTOR SHALL WORK WITH OWNER AND ENGINEER TO ESTABLISH FINIAL SLOPES AND GRADING PATTERNS FOR STORMWATER RUNOFF AROUND THE BUILDING.

ALL FILL SHALL BE PLACED IN 6"-8" UN-COMPACTED LIFTS (MAXIMUM) AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR). THE MOISTURE CONTENT OF FILL AT TIME OF PLACEMENT SHALL BE WITHIN +/- 3% OF THE OPTIMUM MOISTURE CONTENT DETERMINED IN THE LABORATORY. COMPACTED FILL SUB-GRADES WITH A SLOPE GREATER THAN 4H:1V SHALL BE BENCHED TO ALLOW PLACEMENT OF HORIZONTAL

- A CONTINUOUS TURNED DOWN SLAB FOOTING SHALL BE USED TO SUPPORT THE BUILDING
- WALLS. THE FOOTING SHALL BE 16-INCHES WIDE AND SHALL BE A MINIMUM OF 12-INCHES DEEP. 2. ALL SIDEWALKS SHALL BE A MIN. OF 4-INCH THICK AND SHALL HAVE EXPANSION JOINTS LOCATED Docusioned by:
- AT ALL LOCATION ADJACENT TO EXISTING SIDEWALKS, CURBS AND PROPOSED BUILDING. 3. ALL CONCRETE SHALL HAVE FORTA-FERRO FIBER AT 3LBS/YD MIXED AT THE PLANT PER
- MANUFACTURES RECOMMENDATION.
- CONCRETE FINISHES: 4.1. SIDEWALKS - BROOM
- 4.2. INTERIOR SLAB SMOOTH AND SEALED WITH ARDEX MOISTURE TREATMENT 4.3. NOTE: ALL FIBER PROTRUDING OUT OF CONCRETE AFTER FINISH AND CONCRETE HAS
- NON-DESTRUCTIVE METHOD.

CURED SHALL BE REMOVED FROM THE SURFACE VIA BURNING OR OTHER

- 5. ALL BACKFILL AND SOIL BELOW SLABS AND FOOTINGS MUST BE COMPACTED TO 2000 PSF MIN.
- 6. CONTRACTOR TO CONFIRM FOOTERS ARE BELOW FROST LINE. THE MINIMUM DEPTH OF FOOTINGS BELOW THE UNDISTURBED GROUND SURFACE SHALL BE 12 INCHES.
- MASONRY UNITS SHALL BE INSTALLED WITH TYPE "M" OR "S" MORTAR.
- ALL DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL, FORM WORK, MIXING, HANDLING, PLACING, FINISHING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILED REINFORCED CONCRETE STRUCTURES" (ACI-315) AND ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318).
- CONCRETE SHALL CONFORM TO ASTM C94. MINIMUM STRENGTH AT 28 DAYS SHALL BE 3000 PSI. MAXIMUM WATER TO CEMENT RATIO SHALL BE 0.60 WITH MAXIMUM SLUMP OF 4 INCHES. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4 INCH AND ALL AGGREGATES SHALL CONFORM TO
- 10. EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH AIR CONTENT TO BE BETWEEN 5 AND 7 PERCENT BY VOLUME.
- 11. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 (S1), NEW BILLET STEEL
- DEFORMED BARS, GRADE 60. UNLESS NOTED OTHER WISE, ALL REINFORCING BAR SPLICES SHALL BE ACI CLASS B TENSION LAP SPLICES. REBAR LAPS SHALL BE A MINIMUM OF 24".
- 12. THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT NEAREST THE DESCRIBED SURFACE, UNLESS NOTED OTHERWISE:
- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
- B. CONCRETE CAST NOT EXPOSED TO EARTH OR WEATHER: 1 1/2 INCHES
- C. CONCRETE EXPOSED TO EARTH OR WEATHER: i. #6 OR LARGER BARS: 2 INCHES
- ii. #5 OR SMALLER BARS: 1 1/2 INCHES

- **COLUMN FOOTER NOTES** ALL COLUMN SUPPORT FOOTERS SHALL BE 2-FT X 2-FT X 16-INCH DEPTH.
- 2. ALL COLUMN FOOTERS SHALL BE CENTER UNDER COLUMNS.

3. ALL COLUMN FOOTERS REQUIRE #5 REBAR @ 18 O/C EACH WAY, TOP AND BOTTOM.

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P-0754

3/14/2023^{///}

PRESS SCHOC

DATE: 1/10/2023

DRAWN BY: RDH CHECKED BY: JEL SHEET TITLE

FOUNDATION PLAN

PROJECT# 21-11110

SHEET NUMBER S-101

Know what's below.

Call before you dig.

FINAL RELEASED FOR CONSTRUCTION

\FOUNDATION PLAN

PLAN ACTUAL NORTH

	PLUMBING ABBR	EVIATIO	ONS
A/E AAV AD AFF AFG AG AP AS ASD ASD ASHRAE ASME ASPE ASR AV	ARCHITECT / ENGINEER AUTOMATIC AIR VENT AREA DRAIN/ACCESS DOOR ABOVE FINISH FLOOR ABOVE FINISH GRADE AIR GAP ACCESS PANEL AUTOMATIC SPRINKLER ADJUSTABLE SPEED DRIVES AUTOMATIC SPRINKLER DRAIN AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS AMERICAN SOCIETY OF MECHANICAL ENGINEERS AMERICAN SOCIETY OF PLUMBING ENGINEERS AUTOMATIC SPRINKLER RISER AUTOMATIC SPRINKLER RISER ACID VENT	LA LAV LBS/HR LCW LHW LNG LOX LPG LV LW M MA MAV MBH MED MH MS MV	LABORATORY AIR LAVATORY POUNDS PER HOUR LABORATORY COLD WATER LABORATORY HOT WATER LIQUID NATURAL GAS LIQUID OXYGEN LIQUEFIED PROPANE GAS LABORATORY VACUUM LOW WATER METER MEDICAL AIR MANUAL AIR VENT 1000 BTUH MEDICAL MANHOLE MOP SINK MEDICAL VACUUM
BFP BFF BFV BHP BSP BT BV	BACKFLOW PREVENTER BELOW FINISH FLOOR BUTTERFLY VALVE BRAKE HORSEPOWER BLACK STEEL PIPE BATHTUB BALL VALVE CELSIUS	N2 N20 NC NG NIC NO NOM NPW NTS	NITROGEN NITROUS OXIDE NORMALLY CLOSED NATURAL GAS NOT IN CONTRACT NORMALLY OPEN NOMINAL NON POTABLE WATER NOT TO SCALE
CA CFM CGA CHWR CHWS CO CS CV CWR	COMPRESSED AIR CUBIC FEET PER MINUTE COMPRESSED GAS ASSOCIATION CHILLED WATER RETURN CHILLED WATER SUPPLY CLEANOUT CLINICAL SINK CONTROL VALVE CONDENSER WATER RETURN	O2 OC OD OFD OR OVFL	OXYGEN ON CENTER OUTSIDE DIAMETER OVERFLOW DRAIN OPERATING ROOM OVERFLOW
CWS DCW DF DFU DHW DHWR DHWS DI DN DOE DS DW DWG DWH DWR DWS	CONDENSER WATER SUPPLY DOMESTIC COLD WATER DRINKING FOUNTAIN DRAINAGE FIXTURE UNITS DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN DOMESTIC HOT WATER SUPPLY DEIONIZED WATER DOWN DEPARTMENT OF ENERGY DOWNSPOUT DISHWASHER DRAWING DOMESTIC WATER HEATER DRINKING WATER RETURN DRINKING WATER SUPPLY	PD PDI PG PP PPM PRS PRV PSI PSIA PSIG PTRV PW	PRESSURE DROP OR DIFFERENCE PLUMBING AND DRAINAGE INSTITUTE PRESSURE GAUGE PLUMBING PUMP PARTS PER MILLION PRESSURE REDUCING STATION PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH ATMOSPHERE POUNDS PER SQUARE INCH GAUGE PRESSURE TEMPERATURE RELIEF VALVE POTABLE WATER
DWV EL EPA EPACT ESC ESH ET EWH EWS EWS/SH EX	DRAIN WASTE VENT ELEVATION ENVIRONMENTAL PROTECTION AGENCY ENERGY POLICY ACT ESCUTCHEON EMERGENCY SHOWER EXPANSION TANK ELECTRIC WATER HEATER EYE WASH STATION EYE WASH/DRENCH SHOWER EXISTING	RD RDL RL RP RPZ RO RWL SA SC SS	ROOF DRAIN ROOF DRAIN LEADER ROOF LEADER RECIRCULATION PUMP REDUCED PRESSURE ZONE BACKFLOW DEVICE REVERSE OSMOSIS WATER RAIN WATER LEADER SHOCK ARRESTOR SWING CHECK VALVE SANITARY SEWER
F FCO FCW FD FDC FM FS FS	FAHRENHEIT FLOOR CLEANOUT FILTERED COLD WATER FLOOR DRAIN FIRE DEPARTMENT CONNECTION FLOW METER FLOOR SINK FLOW SWITCH FIXTURE UNITS	SCW SDMH SNK SMH SP SPR SQFT/SF SST ST SW	SOFTENED COLD WATER STORM DRAIN MANHOLE SINK SANITARY MANHOLE SUMP PUMP SPRINKLER LINE SQUARE FEET STAINLESS STEEL STORAGE TANK STORM WATER
GAL GCO GPD GPH GPM GPR GRS GT GV GVTR GWH	GALLON GRADE CLEANOUTS GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE GAS PRESSURE REGULATOR GAS REGULATOR STATION GREASE TRAP GATE VALVE GAS VENT THROUGH ROOF GAS FIRED WATER HEATER	TCV TD TDH TEMP TMV TP TSTAT TWR TWS TYP	TEMPERATURE CONTROL VALVE TEMPERATURE DIFFERENCE TRENCH DRAIN TOTAL DYNAMIC HEAD TEMPERATURE THERMOSTATIC MIXING VALVE TRAP PRIMER THERMOSTAT TEMPERED WATER RETURN TEMPERED WATER SUPPLY TYPICAL
HB HD HEX HHWR HHWS HP HS HST HWB HWCP HWP	HOSE BIBB HUB DRAIN HEAT EXCHANGER HEATING HOT WATER RETURN HEATING HOT WATER SUPPLY HORSEPOWER HAND SINK HOT WATER STORAGE TANK HOT WATER BOILER HOT WATER CIRCULATING PUMP HOT WATER PUMP HYDRANT	UR V VAC VB VCO VP VS VSD VTR	URINAL VENT VACUUM VACUUM BREAKER VACUUM CLEANER OUTLET VACUUM PUMP VENT STACK VARIABLE SPEED DRIVE VENT THROUGH ROOF
ID IE IMB INV IPC IRW IV IW IWH IWR	INSIDE DIAMETER INVERT ELEVATION ICE MAKER BOX INVERT INTERNATIONAL PLUMBING CODE IRRIGATION WATER ISOLATION VALVE INDIRECT WASTE INSTANTANEOUS WATER HEATER INDUSTRIAL WATER RETURN INDUSTRIAL WATER SUPPLY	W WC WCO WG WH WH WHA WL WM WPD WS WSFU	WASTE WATER CLOSET WALL CLEANOUT WATER GAGE WALL HYDRANT WATER HEATER WATER HAMMER ARRESTER WATER LINE WATER METER WATER PRESSURE DROP WASTE STACK WATER SUPPLY FIXTURE UNITS
KW KWH L/S	KILOWATT KILOWATT-HOUR LITER PER SECOND	YCO YH ZV	YARD CLEANOUT YARD HYDRANT ZONE VALVE

	
SYMBOL	DESCRIPTION
	SANITARY WASTE
sp	STORM DRAIN
OD	STORM OVERFLOW DRAIN
	SANITARY VENT
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (H.W)
—— DHWR ——	DOMESTIC HOT WATER RETURN (HWR)
—— G ——	GAS PIPE
	CAP
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
D	DRAIN (INDIRECT)
	RISE AND DROP IN PIPING
—— O—— D	CLEANOUT
ICO	GATE VALVE
	-
	BALL VALVE
<u> </u>	BUTTERFLY VALVE
	CHECK VALVE
——————————————————————————————————————	UNION
,¶,SA	SHOCK ABSORBER (TYPE 'A')
— XI	STRAINER W/ BLOW DOWN VALVE
——▼	GAS COCK
	PRESSURE REDUCING VALVE
i δ̂+	PRESSURE RELIEF VALVE
<u></u>	TEMPERATURE AND PRESSURE RELIEF VALVE
<u> </u>	GAUGE COCK
<u> </u>	PRESSURE GAUGE W/ GAUGE COCK
<u> </u>	THERMOMETER
↔ wн	WALL HYDRANT
+	HOSE BIBB
——————————————————————————————————————	SOLENOID VALVE
	FLOW SWITCH
\oplus	FLOOR DRAIN
<u> </u>	ROOF DRAIN
—— A ——	COMPRESSED AIR
—— F ——	FIRE LINE
SP	FIRE SPRINKLER PIPING
	WET FIRE SPRINKLER VALVE ASSEMBLY
<u> </u>	OS&Y GATE VALVE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
BTC	BRANCH TO CONNECTION
	FLOW LINE ELEVATION
Ę .	
—— SPU ——	STORM PIPING UNDERSLAB
	FIRE SPRINKLER RISER
NOTE: NOT ALL	SYMBOLS SHOWN ARE NECESSARILY USED

PLUMBING LEGEND

PLUMBING NOTES

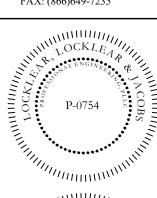
- 1. ALL SITE UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK. DRAWINGS AND RISERS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW ALL REQUIRED FITTINGS AND OFFSETS REQUIRED FOR ACTUAL INSTALLATION. PROVIDE OFFSETS IN PIPING AS NEEDED TO AVOID CONFLICTS WITH OTHER TRADES.
- 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NC STATE PLUMBING CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.
- 3. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND DRAWINGS FOR WORK BY OTHERS. LOCATION OF UTILITIES (WASTER AND WATER LINES, MANHOLES ETC) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED. COORDINATE ALL WORK WITH OTHER TRADES.
- 4. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.
- 5. ALL FIXTURES ARE TO BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NC PLUMBING CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.
- 6. WATER SUPPLY LINES ARE TO BE TYPE L COPPER. ALL DRAIN AND VENT PIPING MATERIAL TO BE SCH 40 PVC. VENTS WILL BE COMBINED BEFORE PENETRATING ROOF TO REDUCE ROOF PENETRATIONS.
- 7. SHUT OFF VALVES SHALL BE PROVIDED ON HOT AND COLD WATER LINES. ALL FIXTURES SHALL BE COMPLETE AND INCLUDE ALL STOPS, SUPPLIES, FAUCETS, DRAINS, TRAPS, ESCUTCHEONS,
- 8. HOT WATER LINES TO BE INSULATED FULL LENGTH WITH 1" INSULATION THAT MEETS 2018 NC ENERGY CODE.
- 9. ADA COMPLIANT UNDER SINK PIPE COVERS SHALL BE INSTALLED ON ALL LAVS.
- 10. THE ENTIRE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE. WATER LINES SHALL BE TESTED IN ACCORDANCE THE INDUSTRY STANDARDS AND DOMESTIC WATER SHALL BE STERILIZED IN COMPLIANCE WITH LOCAL STANDARDS.
- 11. HOSE BIBS SHALL BE MOUNTED 1' 6" ABOVE FINISHED FLOOR. HOSE BIBS SHALL BE PROVIDED WITH A NON-REMOVABLE VACUUM BREAKER.
- 12. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. ANNULAR SPACES BETWEEN SLEEVES AND PIPES SHALL BE SEALED AS REQUIRED BY LOCAL AUTHORITY. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. FIRE STOP ALL PENETRATIONS OF FIRE RATED ASSEMBLIES AS NECESSARY TO MAINTAIN THE RATING OF WALL. REFER TO FLOOR PLAN DRAWINGS FOR ASSEMBLY RATINGS.
- 13. ALL SOIL, WASTE, AND STORM PIPING SHALL BE INSTALLED BELOW THE FLOOR UNLESS NOTED OTHERWISE.
- 14. PROVIDE CLEANOUTS AT THE BASE OF ALL SOIL, WASTE, VENT, AND STORM RISER OVER ONE STORY IN HEIGHT. PROVIDE CLEANOUTS AT EVERY 100 FT.
- 15. ALL STORM AND OVERFLOW DRAIN LINES DISCHARGING ONTO SPLASH BLOCKS SHALL DO SO THROUGH DOWNSPOUT NOZZLES.
- 16. PIPING PENETRATING A VAULT ENCLOSURE SHALL BE SLEEVED AND SEALED.
- 17. PROVIDE ACCESS PANELS FOR VALVES LOCATED ABOVE INACCESSIBLE CEILINGS.
- 18. ALL VENT-THRU-ROOF (VTR) TERMINATIONS SHALL BE COLOR-KEYED TO THE MATCH THE ADJACENT ROOFING COLOR. VENTS TO BE INSTALLED WITH DOUBLE FLASHING TO ALLOW MOVEMENT.
- 19. ALL HOLES AND NOTCHES FOR HORIZONTAL PLUMBING PIPES TO BE OVERSIZED TO COMPENSATE FOR SHRINKAGE.
- 20. ALL WATER HAMMER ARRESTORS MAY NOT BE SHOWN ON DRAWINGS. CONTRACTOR IS REQUIRED TO SIZE, PROVIDE AND LOCATE ALL WATER HAMMER ARRESTORS IN ACCORDANCE WITH PDI WH 201. APPROPRIATELY-SIZED ACCESS DOORS OR REMOVABLE PANELS SHALL BE PROVIDED WHERE WATER HAMMER ARRESTORS ARE CONCEALED. WATER HAMMER SHOCK ARRESTORS SHALL BE INSTALLED FOR FIXTURES WITH QUICK CLOSING VALVES. WATER HAMMER SHOCK ARRESTOR SHALL BE A HYDROTROL 5020 AS MANUFACTURED BY JAY R SMITH OR EQUAL BY SIOUX CHIEF / WATTS.
- 21. PIPING INSTALLED IN PLENUM SPACES SHALL MEET ASTM E-84, ASTM E-136 AND UL 723 STANDARDS FOR FLAME SPREAD AND SMOKE GENERATION. COORDINATE PLENUM LOCATIONS WITH MECHANICAL CONTRACTOR.
- 22. ALL FLOOR AND HUB DRAINS SHALL BE PROVIDED WITH INLINE TRAP SEAL DEVICES (IE TRAP GUARD/SEAL).
- 23. PROVIDE DRAIN VALVES AT ALL LOW POINTS IN ALL WATER PIPING SYSTEMS.
- 24. ALL WATER, VENT AND GAS PIPING SHALL BE INSTALLED ABOVE THE CEILING UNLESS NOTED OTHERWISE.
- 25. SLIP JOINTS SHALL NOT BE USED FOR DRAIN CONNECTIONS IN CONCEALED LOCATIONS, USE SOLDERED OR SCREWED JOINTS ONLY.
- 26. DIELECTRIC CONNECTIONS SHALL BE USED BETWEEN FERROUS AND NON-FERROUS PIPING.
- 27. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
- 28. WATER AND WASTE PIPES SHALL BE A MINIMUM OF 5 FT APART. WHEN PIPES CROSS OR ARE CLOSER THAN 5 FT, WATER PIPE SHALL BE 12 INCHES ABOVE CROWN OF SEWER PIPE.
- 29. ALL PIPING SHALL BE RUN IN AREAS NOT SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSULATED AND RUN ON THE CONDITIONED SIDE OF THE WALL INSULATION. IF ROUTED IN UNCONDITIONED AREAS, PIPING MUST BE INSULATED WITH A MINIMUM OF R-6.5.
- 30. PROVIDE PRESSURE REDUCING VALVE AT ALL BUILDINGS WHERE PRESSURE EXCEEDS 80 PSI.

			PLUMBING FIXTURE LEGEND			
				WA	ATER LINE SIZ	ZES
MARK	SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	COLD	НОТ	VENT (MIN)
LAV		LAVATORY	AMERICAN STANDARD MODEL # 4869.004.020 WITH METERING FAUCET OR APPROVED EQUAL BY ZURN OR KOHLER	1/2"	1/2"	1-1/2"
WC		WATER CLOSET	AMERICAN STANDARD - FLUSH VALVE ADA TOILET MODEL #2857.128.020, OR APPROVED EQUAL BY ZURN OR TOTO WITH ELONGATED SEAT	1"	N/A	2"
SNK	•••	DOUBLE SINK	ELKAY CR2918 DOUBLE BOWL STAINLESS WITH DELTA 400 FAUCET OR APPROVED EQUAL BY AMERICAN STANDARD OR MOEN	1/2"	1/2"	1-1/2"
СО	(CLEAN-OUT	PVC CLEAN-OUT	N/A	N/A	N/A
FD	ΙΦ	FLOOR DRAIN	ZURN, MODEL ZN415B, STRAINER & TRAP GUARD OR APPROVED EQUAL BY WATTS OR JONES STEPHENS	N/A	N/A	N/A
IWH	IWH	INSTANTANEOUS WATER HEATER	EEMAX SPEX4208T	3/4"	3/4"	N/A
IMB	[IMB]	ICE MAKER BOX	OATEY MODEL# 38689 OR APPROVED EQUAL BY SIOUX CHIEF OR EASTMAN	1/2"	N/A	N/A
REF		REFRIGERATOR	BY OWNER	N/A	N/A	N/A

	DRAWING INDEX		
SHEET	SHEET TITLE	REV#	DATE
P-001	PLUMBING NOTES AND SCHEDULES	-	
P-101	PLUMBING PLAN	-	
P-301	PLUMBING DETAILS	-	



P.O. BOX 3119
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FAX: (866)649-7235



3/14/2023

ENTRAL PRESS BOCOUNTY SCHOOLS
ARNETT CENTRAL RD

1.

2.

3.

4.

5.

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DATE: 1/10/2023

DRAWN BY: CKD

CHECKED BY: RL

SHEET TITLE

PLUMBING NOTES AND SCHEDULES

P-001

FIRST FLOOR SUPPLY PLAN

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

FINAL RELEASED FOR CONSTRUCTION

PLAN

P-101

PROJECT# 21-11110

SHEET NUMBER

FINAL RELEASED FOR CONSTRUCTION

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

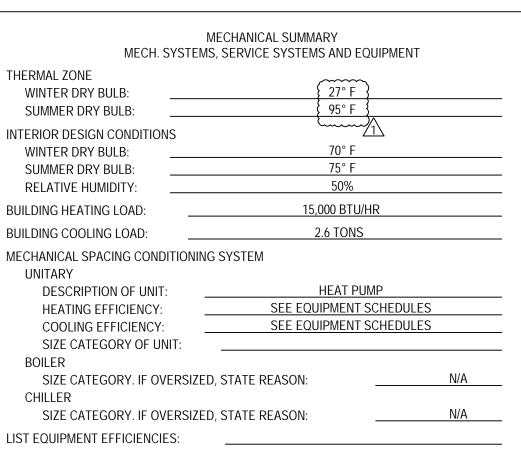
UP THRU 12" 26 (0.022") 13" THRU 30" 24 (0.028") 31" THRU 54" 22 (0.034")

- 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.

CVMDOL	DESCRIPTION
SYMBOL	DESCRIPTION
	- — TYPE OF SERVICE: S = SUPPLY R = RETURN E = EXHAUST
1	T = TRANSFER
SC-1 — — — —	INSTALLED LOCATION: C = CEILING SCHEDULED D = DUCT - DEVICE NO F = FLOOR
XXX	H = HIGH SIDEW
	- — AIR QUANTITY L = LOW SIDEWA IN CFM
AHU — — — — — — — — — — — — — — — — — — —	———— EQUIPMENT DESIGNATION ———— UNIT NUMBER
M-X	- — — — SECTION NUMBER - — — — SHEET WHERE LOCATED
T) 2-3	THERMOSTAT (UNIT & ZONE DESIGNATION)
1	KEYED NOTE
<u>(\$)</u>	SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER, REGISTER O GRILLE AS SCHEDULED
	CEILING RETURN GRILLE OR REGISTER A SCHEDULED
	SLOT DIFFUSER AS SCHEDULED
<u> </u>	SIDEWALL GRILLE OR REGISTER AS SCHEDULED
DUCT SIZE	ROUND DUCT (INTERNAL SIZE INDICATED
# x #	DUCT SIZE, FIRST FIGURE IS SIDE SHOWI (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
	UNION
	CAP
	-
<u> </u>	RISE AND DROP IN PIPING
	CONCENTRIC REDUCER
<u>E.R.</u>	ECCENTRIC REDUCER
<u> </u>	HUMIDISTAT (UNIT & ZONE DESIGNATION)
<u>(S)</u>	TEMPERATURE SENSOR
<u>(\$)</u>	SMOKE DETECTOR
RT	RETURN AIR THERMOSTAT

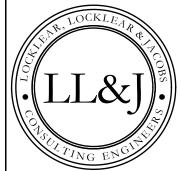
			MEC	HANICAL A	BBREVI	ATIONS
A AC	AIR OR COMPRESSED AIR AIR CONDITIONING	FF FLA	FINAL FILTE			P PCF
ACCH	AIR COOLED CHILLER	FLEX	FLEXIBLE			PD
ACD ACP	AUTOMATIC CONTROL DAMPER AIR COMPRESSOR	FLRDR FMS	FLOOR DRA	AIN SURING STATIOI	NI.	PF PH
AD	ACCESS DOOR	FPM	FEET PER N	INUTE	•	PHC
AEL AF	AIR ELIMINATOR AIR FOIL	FPS FRP	FEET PER S FIBERGLAS	SECOND S REINFORCED	PLASTIC	PRV PSI
AFF	ABOVE FINISHED FLOOR	FS FT	FLOW SWIT	CH		PSIA
AFG AHU	ABOVE FINISHED GRADE AIR HANDLING UNIT	FTK	FLASH TANI	K		PSID
AMP AP	AMPERE ACCESS PANEL	FTR	FIN TUBE R	ADIATION		PSIG
APD	AIR PRESSURE DROP	G	GAS			PUX
AS ATC	AIR STREAM AUTOMATIC TEMPERATURE CONTROL	GA GAI	GAUGE GALLONS			PVC
ATM	ATMOSPHERE	GALV	GALVANIZE			R
BDD	BACK-DRAFT DAMPER	GFU GLYP	GLYCOL FE GLYCOL PU			RA RD
3F	BOOSTER FAN	GPH	GALLONS P			RE
3HP 3I	BRAKE HORSEPOWER BACKWARDS INCLINED	GPM GR	GALLONS P GRADE	ER MINUTE		RET REF
BOD BTU	BOTTOM OF DUCT BRITISH THERMAL UNIT	GX	GENERAL E	XHAUST		RF RGH
BTUH	BTU PER HOUR	Н	HUMIDIFIER			RH
CC	COILING COIL	HB HC	HOSE BIB (0 HEATING C	CONNECTION)		RHC RL
CENT	CENTER OR CENTRIFUGAL	HD	HEAD			RLA
CF CFM	CUBIC FEET CUBIC FEET PER MINUTE	HOA HP	HAND OFF A	AUTOMATIC VER OR HIGH PC	DINT	RLF RPM
CFP	CHEMICAL FEED PUMP	HR	HOUR			RT
CH CHW	CHILLED OR CHILLER CHILLED WATER	HRU HTG	HEAT RECC HEATING	VEKY UNIT		RTU
CHP	CHILLED WATER PUMP	HV	HEATING AN	ND VENTILATION	N UNIT	SA
CHWS	CHILLED WATER RETURN CHILLED WATER SUPPLY	HWS	HOT WATER	R SUPPLY		SCR SCT
CONN		HZ		CLES PER SECO		SD
CONV	CONVERTER	ID	INSIDE DIAM			SE
CP CRAC	CONDENSATE PUMP COMPUTER ROOM AC UNIT	IH IL	INFRARED I INTAKE LOU			SEF SEN
CT	COOLING TOWER	IN	INCHES	, v ∟1 \		SEP
CTBD CUH	COOLING TOWER BLOW DOWN CABINET UNIT HEATER	KW	KILOWATT			SF SFD
CWP	CONDENSER WATER PUMP	KVU		ENTILATION UNI	Т	SH
CWR CWS	CONDENSER WATER RETURN CONDENSER WATER SUPPLY	LAT	LEAVING AI	R TEMPERATUR	ιE	SHC SIH
		LB	POUND			SP
) DB		LF LD	LINEAR DIF			SF SS
DEG	DEGREE	LP LPS	LOW POINT			SSF SUP
DDC DHC	DUCT RE-HEAT COIL	LRA	LOCKED RC	SURE STEAM OTOR AMPS		
DIA DIM	DIAMETER DIMENSION	LVR LVDR		DOOR		T TEFC
OP OP	DIFFERENTIAL PRESSURE	LVG	LEAVING			TEMP
ĒΑ	EACH OR EXHAUST AIR	LWT	LEAVING W	ATER TEMPERA	TURE	TK TON
EAHU	EXHAUST AIR HANDLING UNIT			IR UNIT		TRF
EAT EDH	ENTERING AIR TEMPERATURE ELECTRIC DUCT HEATER	MAX MBH				TRP TSP
EF .	EXHAUST FAN	MCA MCP	MINIMUM C	IRCUIT AMPS ENSATE PUMP		TSTAT TX
EMER EMS		MD	MOTORIZED	DAMPER		TYP
ERU	ENERGY RECOVERY OUTSIDE AIR PRE-CONDITIONER UNIT			AL		UC
ESP	EXTERNAL STATIC PRESSURE	MU	MAKE-UP W			UH
ET EUH		MUA	MAKE-UP A	IR		V
EWT	ENTERING WATER TEMPERATURE		NEW			VAV
EX EXH	EXISTING EXHAUST	NC	NOISE CRIT CLOSED	ERIA OR NORM	ALLY	VD VEL
EXT	EXTERNAL	NO	NORMALLY	OPEN		VFD
EXP	EXPANSION	NOM	NOMINAL			WB
= = ^	FAHRENHEIT OR FILTER	OA	OUTSIDE AI			WC
FA FC	FREE AREA OR FIRE ALARM FLEXIBLE CONNECTION	OAI OC	ON CENTER	₹		WCCH WG
-CU -D	FAN COIL UNIT FLOOR DRAIN, FIRE DAMPER, OR FIRE	OD ODP	OUTSIDE DI OPEN DRIP			WPD WTD
	DEPARTMENT	OV	OUTLET VE			WTS
-DP	FLUID DISTRIBUTION POINT					
		NOTE: NOT	ALL ABBREVIA	ATIONS MAY AP	PLY TO PLA	NS
				_		
	MECHANICAL SUMMARY	_	_			DF
	MECH. SYSTEMS, SERVICE SYSTEMS AND) EQUIPMENT		SHEET		SHE
THERMAL ZC	DNE DRY BULB: 27°	Ē)		M-001	MECHAN	ICAL NOTE
	DRY BULB: 27 DRY BULB: 95°	- 1		M-101	MECHAN	ICAL PLAN
	ESIGN CONDITIONS	~ <u>/1</u>		M-102		ICAL CONE
	DRY BULB: 70° 2 DRY BULB: 75°					
	E HUMIDITY: 50%			M-301	MECHAN	ICAL DETA
BUILDING HE	EATING LOAD: 15,000 B	TU/HR				
BUILDING CC	OOLING LOAD: 2.6 TO	NS				
	L SPACING CONDITIONING SYSTEM					
UNITARY DESC		PUMP				
HEATI	ING EFFICIENCY: SEE EQUIPMEI	NT SCHEDULE:				
	ING EFFICIENCY: SEE EQUIPMEI ATEGORY OF LINIT:	NT SCHEDULE:	<u>S</u>			
SIZE (BOILER	CATEGORY OF UNIT:					
SIZE (CATEGORY. IF OVERSIZED, STATE REASON:		N/A			
CHILLER			N/A			

21.1	AIR CONDITIONING	FLA	FULL LOAD A	\MPS		PCF	POUNDS PER CUBI	C FOOT	
CH	AIR COOLED CHILLER AUTOMATIC CONTROL DAMPER	FLEX FLRDR	FLEXIBLE FLOOR DRAII	INI		PD PF	PRESSURE DROP PRE-FILTER		
)	AIR COMPRESSOR	FLRDR FMS	FLOOR DRAII		ΤΔΤΙΩΝΙ	PF PH	PHASE		
	ACCESS DOOR	FPM	FEET PER MI		IATION	PHC	PRE-HEAT COIL		
	AIR ELIMINATOR	FPS	FEET PER SE			PRV	PRESSURE REDUC	ING VALVE	
	AIR FOIL	FRP			RCED PLASTIC	PSI	POUNDS PER SQUA		
	ABOVE FINISHED FLOOR	FS	FLOW SWITC			PSIA	POUNDS PER SQUA		
}	ABOVE FINISHED GRADE	FT	FEET				ABSOLUTE		
J	AIR HANDLING UNIT	FTK	FLASH TANK	, L		PSID	POUNDS PER SQUA	ARE INCH -	
)	AMPERE	FTR	FIN TUBE RA	NOITAID			DIFFERENTIAL		
	ACCESS PANEL					PSIG	POUNDS PER SQUA	ARE INCH -	GAUGE
)	AIR PRESSURE DROP	G	GAS			PUX	PUMP/HEAT EXCHA		
	AIR STREAM	GA	GAUGE			PVC	POLYVINYL CHLOR	IDE	
2	AUTOMATIC TEMPERATURE CONTROL		GALLONS	_		_			
/1	ATMOSPHERE	GALV	GALVANIZED			R	RADIUS		
	DACK DDAET DAMPED	GFU	GLYCOL FEE			RA	RETURN AIR		
)	BACK-DRAFT DAMPER	GLYP	GLYCOL PUN			RD	RELIEF DAMPER	VIO	
,	BOOSTER FAN BRAKE HORSEPOWER	GPH GPM	GALLONS PE GALLONS PE			RE RET	RELOCATE EXISTIN	NG	
-	BACKWARDS INCLINED	GR	GRADE	IK WIINU	I C	REF	REFRIGERANT		
)	BOTTOM OF DUCT	GX	GENERAL EX	TRIIAHX		RF	RETURN FAN		
ĺ	BRITISH THERMAL UNIT	OΛ	OLIVLI LA	117001		RGH	RELIEF GRAVITY H	OOD	
IH	BTU PER HOUR	Н	HUMIDIFIER			RH	RELATIVE HUMIDIT		F HOOD
		HB	HOSE BIB (Co		ION)	RHC	REHEAT COIL		
	COILING COIL	HC	HEATING CO		- /	RL	RELIEF LOUVER		
١T	CENTER OR CENTRIFUGAL	HD	HEAD			RLA	RUNNING LOAD AM	1PS	
	CUBIC FEET	HOA	HAND OFF A	.UTOMAT	TC .	RLF	RELIEF		
1	CUBIC FEET PER MINUTE	HP	HORSEPOWE	ER OR H	IGH POINT	RPM	REVOLUTIONS PER		
)	CHEMICAL FEED PUMP	HR	HOUR			RT	RETURN AIR THER	MOSTAT	
	CHILLED OR CHILLER	HRU	HEAT RECOV	√ERY UN	IIT	RTU	ROOF-TOP UNIT		
V	CHILLED WATER	HTG	HEATING						
)	CHILLED WATER PUMP	HV	HEATING AN			SA	SUPPLY AIR OR SC	UND ATTEN	NUATOR
٧R	CHILLED WATER RETURN	HWR	HOT WATER			SCR	SCREEN		
VS	CHILLED WATER SUPPLY	HWS	HOT WATER			SCT	SATURATED COND	ENSING	
15.1	CARBON MONOXIDE	HZ	HERTZ (CYCI	LES PER	(SECOND)	0.0	TEMPERATURE		
NN	CONNECTION	ID	INICIDE DIAM	ICTCD		SD	SMOKE DETECTOR		DAMPER
٧V	CONVERTER CONDENSATE PUMP	ID	INSIDE DIAMI			SE SEF	SMOKE EXHAUST SMOKE EXHAUST F		
AC	COMPUTER ROOM AC UNIT	IH IL	INFRARED HI			SEN	SENSIBLE	-AIN	
10	COOLING TOWER	IN	INCHES	VER		SEP	SEPARATOR		
BD	COOLING TOWER BLOW DOWN	IIN	INOTILO			SF	SUPPLY FAN		
,D 1	CABINET UNIT HEATER	KW	KILOWATT			SFD	COMBINATION SMO	OKE / FIRE C	DAMPER
Р	CONDENSER WATER PUMP	KVU	KITCHEN VEI	NTII ATIC	ON UNIT	SH	SUPPLY HOOD		27 (IVII
R	CONDENSER WATER RETURN					SHC	SENSIBLE HEAT CA	APACITY	
S	CONDENSER WATER SUPPLY	LAT	LEAVING AIR	R TEMPE	RATURE	SIH	SUPPLY INTAKE HO		
		LB	POUND			SP	STATIC PRESSURE		
	DRAIN	LF	LINEAR FEET	Γ		SF	SQUARE FEET		
	DRY BULB (TEMPERATURE)	LD	LINEAR DIFF	USER		SS	STAINLESS STEEL		
}	DEGREE	LP	LOW POINT			SSF	SMOKE SUPPLY FA	۸N	
	DIRECT DIGITAL CONTROL	LPS	LOW PRESSI			SUP	SUPPLY		
	DUCT RE-HEAT COIL	LRA	LOCKED ROT	TOR AMF	PS				
	DIAMETER	LVR	LOUVER			Τ	TEMPERATURE OR		
	DIMENSION	LVDR	LOUVERED D	DOOR		TEFC	TOTALLY ENCLOSE	ED FAN COC	DLED
	DIFFERENTIAL PRESSURE	LVG	LEAVING		4DED 4 TUDE	TEMP	TEMPERATURE		
	EAGU OD EVUALIOT AID	LWT	LEAVING WA	VIEK IEN	MPERATURE	TK	TANK	INO OADAC	NTV)
	EACH OR EXHAUST AIR		MAKELIDAIE	- I INIIT		TON	12,000 BTUH (COOL		HIY)
IU ·	EXHAUST AIR HANDLING UNIT	MAU	MAKE UP AIR	K UNI I		TRF	TRANSFER AIR FAI	V	
	ENTERING AIR TEMPERATURE ELECTRIC DUCT HEATER	MAX MBH	MAXIMUM 1000 BTUH			TRP TSP	TRANSFER PUMP TOTAL STATIC PRE	-celibe	
1	EXHAUST FAN	MCA	MINIMUM CIF		/DS	TSTAT	THERMOSTAT	133UKE	
ER	EMERGENCY	MCP	MAIN CONDE			TX	TOILET EXHAUST		
3	ENERGY MANAGEMENT SYSTEM	MD	MOTORIZED			TYP	TYPICAL		
J	ENERGY RECOVERY OUTSIDE AIR	MECH	MECHANICAL		•				
	PRE-CONDITIONER UNIT	MIN	MINIMUM			UC	UNDERCUT (DOOR	3)	
)	EXTERNAL STATIC PRESSURE	MU	MAKE-UP WA	ATER		UH	UNIT HEATER	,	
	EXPANSION TANK	MUA	MAKE-UP AIF						
1	ELECTRICAL UNIT HEATER					V	VOLTS		
Γ	ENTERING WATER TEMPERATURE	N	NEW			VAV	VARIABLE AIR VOL	.UME	
	EXISTING	NC	NOISE CRITE	ERIA OR	NORMALLY	VD	VOLUME DAMPER		
ł	EXHAUST		CLOSED			VEL	VELOCITY		
•	EXTERNAL	NO	NORMALLY C	OPEN		VFD	VARIABLE FREQUE	ENCY DRIVE	
)	EXPANSION	NOM	NOMINAL						
						WB	WET BULB TEMPER	RATURE	
	FAHRENHEIT OR FILTER	OA	OUTSIDE AIR			WC	WATER COLUMN	- -	
	FREE AREA OR FIRE ALARM	OAI	OUTSIDE AIR		:	WCCH	WATER COOLED CI	HILLER	
ı	FLEXIBLE CONNECTION	00	ON CENTER			WG	WATER BRESSURE	- 0000	
J	FAN COIL UNIT	ODD	OUTSIDE DIA			WPD	WATER PRESSURE		DENCE
	FLOOR DRAIN, FIRE DAMPER, OR FIRE	ODP	OPEN DRIP F			WTD WTS	WATER TEMPERAT		
)	DEPARTMENT FLUID DISTRIBUTION POINT	OV	OUTLET VEL	OUTY		VVIO	WATER TEMPERAT	OVE SENS(JR
	I LUID DIOTRIDUTION POINT								
		NOTE: NOTE:	All ARRREVIA	TIONS M	AY APPLY TO PLA	ANS			
		INOTE. INOT	ALL ADDITEVIA		MATELLIOFL				
				Г			AWING INDEX		
	MECHANICAL SUMMARY			, L	T	DK	AWING INDEX		
	MECH. SYSTEMS, SERVICE SYSTEMS AND	EQUIPMENT			SHEET	SHEF	ET TITLE	REV#	DATE

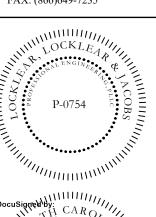


DRAWING INDEX								
HEET	SHEET TITLE	REV#	DATE					
M- 001	MECHANICAL NOTES LEGEND AND ABBREVS	1	4/13/2023					
И-101	MECHANICAL PLAN	1	4/13/2023					
Л-102	MECHANICAL CONDENSATE PLAN	-						
И-301	MECHANICAL DETAILS	-						

POUNDS PER CUBIC FOOT



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028880 4/13/2028/////

REV# - DATE - DESCRIPTION:	1. 4/13/2023 THERMAL ZONE TEMPERATURES UPDATED.					2023 COPYRIGHT BY LL&J. THIS DRAWING MAY NOT BE COPIED, REUSED OR INTO AN ELECTRONIC DATABASE WITHOUT THE WRITTEN PERMISSION OF L
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SHEET NUMBER

MECHANICAL

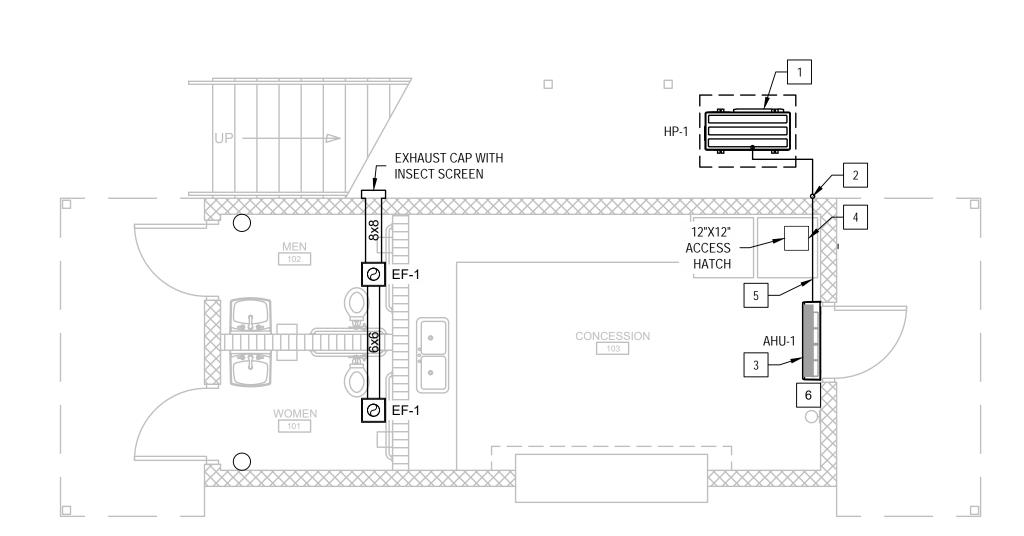
NOTES LEGEND

AND ABBREVS

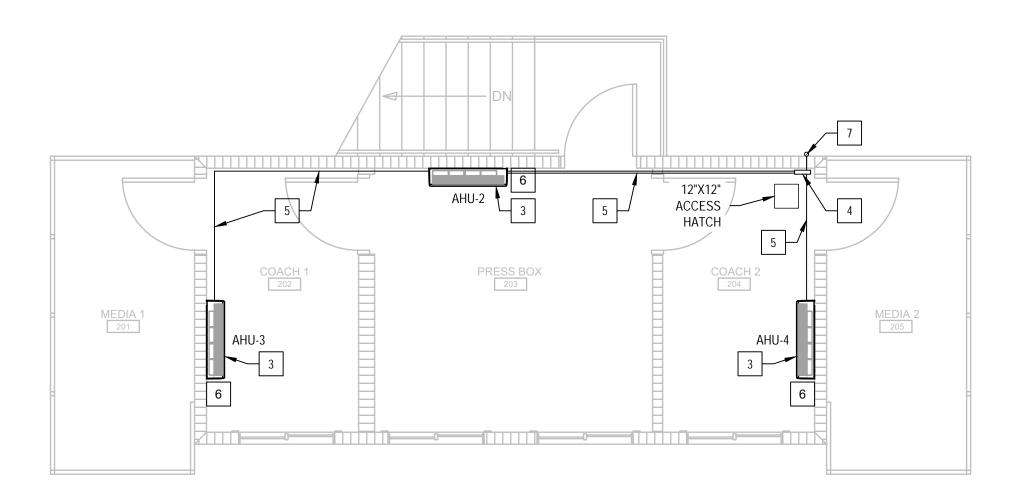
M-00

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

- 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.

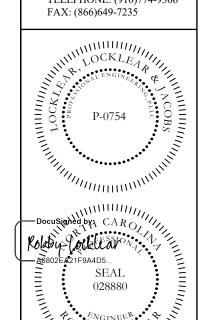
				EXHAUS	ST FAN SCHEDULE			
TAG	MAKE	MODEL	MOUNTINGTYP E	CFM	EXT STATIC AT MAX FLOW (IN. WG)	MAX INPUT WATTS	AMPS	NOTES
EF-1	BROAN/NUTONE	765H80L	CEILING	80	.25	1300	12.5	FAN WITH 1300W HEATER

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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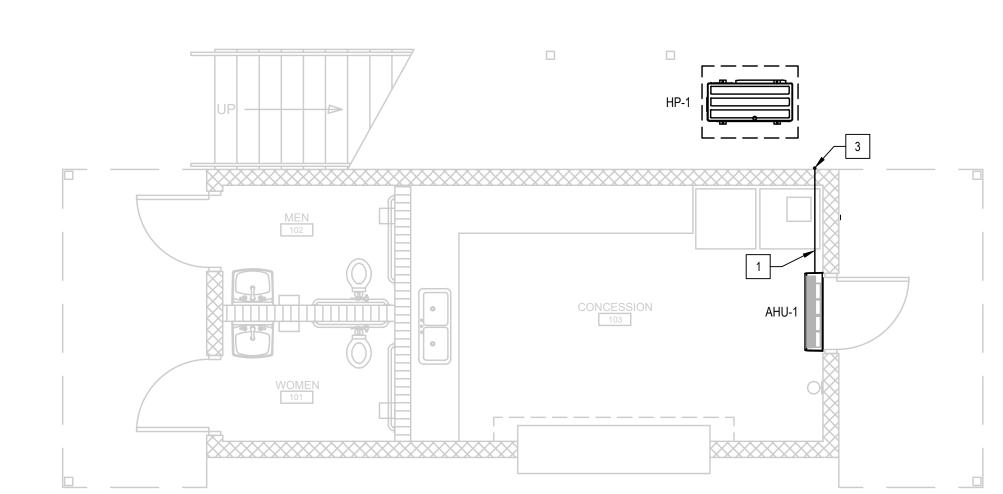


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REV# - DATE - DESCRIPTION:	1. 4/13/2023 EXHAUST FAN MODEL CHANGED.	2.	3.	4.	5.	2023 COPYRIGHT BY LL&J. THIS DRAWING MAY NOT BE COPIED, REUSED OR PUT INTO AN ELECTRONIC DATABASE WITHOUT THE WRITTEN PERMISSION OF LL&J.
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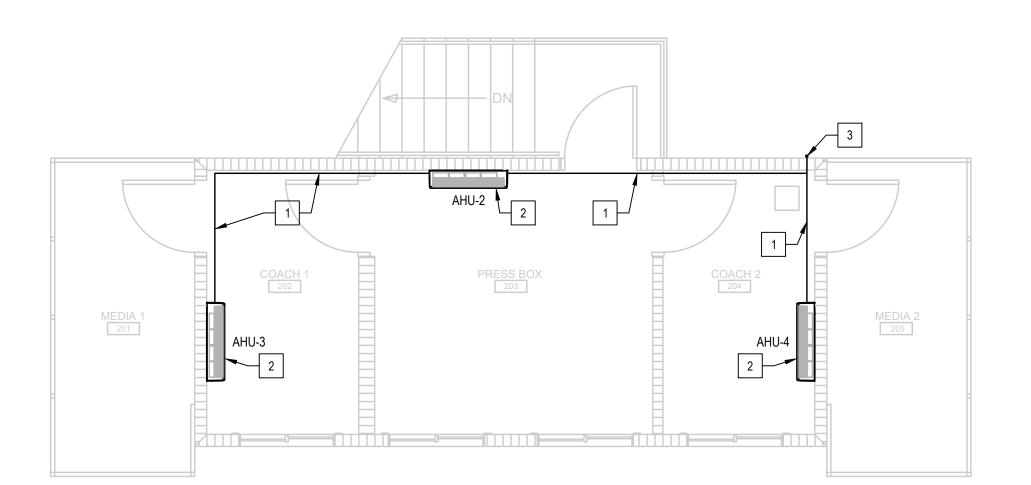
MECHANICAL PLAN

PROJECT# 21-11110

SHEET NUMBER



\FIRST FLOOR MECHANICAL CONDENSATE PLAN



KEY NOTES:

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..

2 AHU TO INCLUDE CONDENSATE PUMP. COORDINATE CONDENSATE ROUTE WITH OWNER/ENGINEER.

CONDENSATE TO PENETRATE EXTERIOR WALL AND TRANSITION DOWN EXTERIOR WALL AND TERMINATE INTO DRY WELL. COORDINATE 3 CONDENSATE DISCHARGE DRY WELL LOCATION WITH OWNER/ENGINEER. CONDENSATE SIZE AND MATERIAL PER MANUFACTURER. EXTERIOR CONDENSATE TO HAVE FULL LENGTH ALUMINUM COVER.

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> MECHANICAL CONDENSATE **PLAN**

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SHEET NUMBER M-102

PROJECT# 21-11110

SECOND FLOOR MECHANICAL CONDENSATE PLAN

FINAL RELEASED FOR CONSTRUCTION

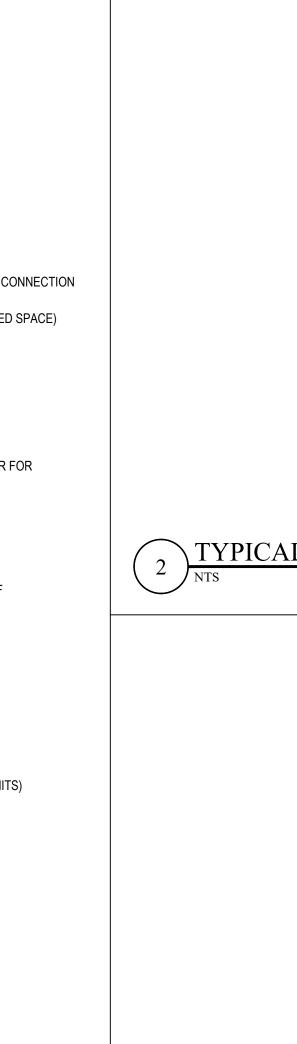
1" PVC CONDENSATE LINE

WITH 1% MINIMUM SLOPE

WALL/CEILING)

LINE SET COVER

(INSTALLED TIGHT AGAINST

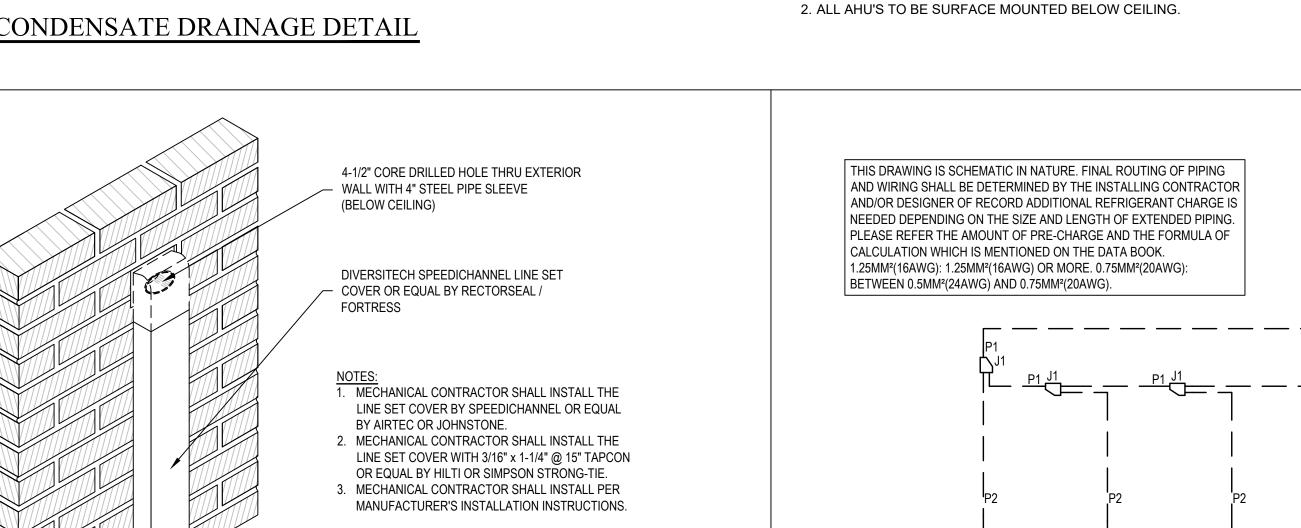


TYPICAL CONDENSATE DRAINAGE DETAIL

TYPICAL LINE SET PITCH POCKET DETAIL

MAIN CONDENSATE (COORDINATE DISCHARGE

> LOCATION WITH OWNER/ENGINEER)



LINE SET

COVER

CONDENSATE LINE FROM UNIT,

SIZE TO MATCH PUMP OUTLET

VENT CAP

MAIN AIR MUSHROOM

CONDENSATE PUMP ON AHU'S 2,3,4 INSIDE LINE SET

COVER. PUMP SHALL BE RECTORSEAL MINI-AQUA OR

(TYPICAL)

APPROVED EQUAL BY ASPEN / LITTLE GIANT (TYPICAL)

RESERVOIR LOCATED INSIDE UNIT

1. RESERVOIR TO HAVE HIGH LIMIT, AHU TO SHUT DOWN WHEN HIGH LIMIT IS REACHED.

(TYPICAL)

AHU-3

TYPICAL DUCTLESS SYSTEM PIPING SCHEMATIC DETAIL

TPKFYP012LM140A TPKFYP008LM140A TPKFYP012LM140A TPKFYP008LM140A

AHU-4 (AHU-2 GP3

- HARD CEILING

- HARD CEILING

NTXMSM36A142AA [HP-1]

I AHU-3 GP4

DIP SWITCH 3-7 OFF

1. INSTALL DRY WELL FOR EACH THROUGH WALL CONDENSATE LINE. 2. LOCATE DRY WELL IN PERVIOUS AREA WITH TOP OF DRY WELL AS CLOSE TO SURFACE ELEVATION AS POSSIBLE. 3. WEEP HOLES IN DRY WELL SHOULD BE DIRECTED AWAY FROM BUILDING FOUNDATION. 4. LINE THE SIDES AND TOP OF DRY WELL WITH PERMEABLE DRAINAGE FABRIC.

TYPICAL CONDENSATE DRY WELL INSTALLATION DETAIL

| 1 | 2 | E | 4 | 2 | DATE: 1/10/2023 DRAWN BY: CKD CHECKED BY: RL SHEET TITLE **MECHANICAL DETAILS**

SHEET NUMBER

M-301

PROJECT# 21-11110

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3/14/2023

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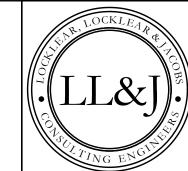
- THE CONTRACT DOCUMENTS CONSIST OF DRAWINGS, SPECIFICATIONS AND DESIGN INFORMATION PREPARED BY MULTIPLE DISCIPLINES AND MUST BE USED AS A WHOLE AND IN COORDINATION WITH EACH OTHER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY APPARENT DISCREPANCIES OR OMISSION OF INFORMATION NOT SHOWN ON THE ELECTRICAL DRAWINGS. SHOP DRAWINGS SHALL BE PROVIDED WHERE NECESSARY FOR COORDINATION. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTING ERRORS RESULTING FROM LACK OF COORDINATION OF DOCUMENTS.
- THE CONTRACTOR SHALL BRING ANY CONFLICTS OR DISCREPANCIES TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL FIELD VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH THE SCOPE OF WORK. 4. ALL WORK SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER BY A LICENSED ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE, CLEANLY, AND
- UNDISRUPTIVE JOB SITE THAT DOES NOT IMPEDE EGRESS PATHS OR OTHER TENANTS. DISRUPTIONS TO POWER AFFECTING OTHER TENANTS OR AREAS OUTSIDE THE SCOPE OF WORK SHALL BE COORDINATED WITH THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF HIS WORK. WHEN THE WORK IS COMPLETE, ALL ELECTRICAL DEVICES SHALL BE VACUUMED CLEAN. THE FINAL PRODUCT SHALL BE A FULLY FUNCTIONAL SYSTEM MEETING THE INTENT OF THE DRAWINGS/DOCUMENTS. WORKMANSHIP AND ALL MATERIALS AND EQUIPMENT SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR IN WRITING COMMENCING UPON ACCEPTANCE OF INSTALLATION BY OWNER.
- WITHIN 30 DAYS AFTER THE DATE OF THE SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION. ADDITIONALLY, AN OPERATING MANUAL AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OWNER INCLUDING THE FOLLOWING: SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE INCLUDING CLEARLY IDENTIFIED ROUTINE MAINTENANCE ACTIONS, AND NAMES AND ADDRESSES OF AT LEAST
- 6. UNLESS PROVIDED WITH DIMENSIONS OR NOTED OTHERWISE, ELECTRICAL PLANS ARE STRICTLY DIAGRAMMATIC ONLY. REFER TO THE DRAWINGS FOR ALL DIMENSIONS, MOUNTING HEIGHTS, ETC. EFFORT HAS BEEN MADE TO PROPERLY ACCOUNT FOR ALL SPACE REQUIREMENTS, CLEARANCES, ETC. BUT SITE CONDITIONS AND PRODUCTS SELECTED MAY VARY AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN PROPER ARRANGEMENTS AND CLEARANCES. DRAWINGS SHALL NOT BE SCALED.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PAYING ALL ASSOCIATED FEES, AND DOCUMENTING AND FILING ALL PAPERWORK ASSOCIATED WITH THIS SCOPE OF WORK. WHEN THE WORK IS COMPLETE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CERTIFICATES OF INSPECTION.
- THE CONTRACTOR IS EXPECTED TO HAVE A FULL FUNCTIONAL KNOWLEDGE OF ELECTRICAL SYSTEMS AND WHETHER INDICATED ON THE DRAWINGS OR NOT SHALL PROVIDE THE CORRECT NUMBER OF WIRES, AT NO ADDITIONAL CHARGE, TO FACILITATE PROPER OPERATION OF ALL EQUIPMENT. QUANTITY OF WIRES WILL ONLY BE INDICATED WHERE NECESSARY FOR CLARIFICATION.
- 9. THE INSTALLATION SHALL BE IN COMPLIANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA), UNLESS INSTALLED FOR SPECIFIC USES EXEMPT FROM ADA OR IN AREAS NOT NORMALLY ACCESSED BY BUILDING OCCUPANTS.
- 10. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT. PRIOR TO ORDERING ELECTRICAL EQUIPMENT SERVING MECHANICAL & PLUMBING EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE EQUIPMENT BEING ORDERED BY THE HVAC OR PLUMBING CONTRACTORS AND PROVIDE WIRING, CONDUIT, AND OVERCURRENT PROTECTION MEETING THE REQUIREMENTS AT NO ADDITIONAL COST. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING WITH THE HVAC CONTRACTOR FOR PROVIDING ANY NECESSARY LINE AND LOW VOLTAGE WIRING. FINAL TERMINATION TO BE MADE BY THE HVAC CONTRACTOR. ALL BREAKERS SUPPLYING HVAC LOADS SHALL BE HACR TYPE.
- 11. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW (UNLESS NOTED OTHERWISE) AND BEAR THE U.L. LISTING FOR THEIR INTENDED USE. MATCH BUILDING STANDARDS FOR MANUFACTURER AND TYPE OF EQUIPMENT FOR LIGHTS, EXIT SIGNS, FIRE ALARM DEVICES, WIRING DEVICES, AND ELECTRICAL DISTRIBUTION EQUIPMENT. WHERE NO BUILDING STANDARD EXISTS FOR ELECTRICAL EQUIPMENT, EQUIPMENT SHALL BE MANUFACTURED BY G.E., SQUARE-D, EATON CUTLER-HAMMER OR SIEMENS. INSTALL A PLASTIC-LAMINATE SIGN ON EACH NEW UNIT OF ELECTRICAL EQUIPMENT WITH 1/2" ENGRAVED LETTERING FOR IDENTIFICATION. IDENTIFICATION SHALL MATCH CONTRACT DOCUMENTS AND/OR INDICATE SOURCE FED (FOR DISCONNECTS, ETC).
- 12. THE FAULT CURRENT RATING OF ALL EQUIPMENT ADDED TO THE ELECTRICAL DISTRIBUTION SHALL MEET THE AVAILABLE FAULT CURRENT. EQUIPMENT SHALL BE FULLY RATED UNLESS NOTED OTHERWISE.
- 13. THE CONTRACTOR SHALL GIVE PERMISSION FOR THE AHJ, ENGINEER, INSPECTOR, ETC. TO PERFORM TESTS OF THE ELECTRICAL SYSTEM AS REQUIRED.
- 14. SWITCH OUTLETS SHALL NOT BE OBSTRUCTED BY DOOR SWINGS AND OCCUPANCY SENSORS SHALL HAVE FULL VIEW OF THE INTENDED SPACE. 15. SWITCH AND RECEPTACLES INDICATED IN THE SAME LOCATION SHALL BE MOUNTED UNDER A COMMON COVERPLATE UNLESS OTHERWISE NOTED.
- 16. EVEN IF THE PLANS INDICATE, OUTLETS SHALL NOT BE INSTALLED PRECISELY BACK TO BACK ON COMMON WALLS. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING METHODS AND LOCATIONS.
- 17. JUNCTION AND PULL BOXES ARE ONLY INDICATED WHERE REQUIRED FOR LARGE SCALE COORDINATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING JUNCTION AND PULL BOXES AS REQUIRED BY THE CODE AND PER A STANDARD INSTALLATION, AND SHALL INCLUDE THIS IN THEIR BID. BOXES SHALL BE STEEL AND INCLUDE EARS INSIDE TO ATTACH COVERS. OUTLET BOXES SHALL BE FOUR INCH SQUARE DEEP TYPE. OUTLET BOXES FOR 120V OR HIGHER CIRCUITS SHALL INCLUDE A #12 AWG SOLID COPPER PIGTAIL. OUTLET BOXES LOCATED OUTDOOR OR EXPOSED TO WET CONDITIONS SHALL INCLUDE GASKETED COVERS. THE MAXIMUM GAP AROUND BOXES SHALL BE 1/8" OR SMALLER ON ALL EDGES. JUNCTION BOXES SHALL BE COLOR CODED WITH PAINT TO INDICATE THEIR USE AS FOLLOWS: NORMAL POWER - BLACK, STANDBY POWER - ORANGE, FIRE ALARM - RED, TELEPHONE/DATA - YELLOW, HVAC CONTROLS - BLUE.
- 18. CONDUCTORS SHALL BE LOOPED AROUND SCREW POSTS SO THAT ROTATION OF THE SCREW TENDS TO FURTHER WRAP THE CONNECTION. SCREW TERMINALS SHALL BE WRAPPED IN ELECTRICAL TAPE. AT LEAST 6" OF FREE CONDUCTOR SHALL BE LEFT AT EACH J-BOX, OUTLET AND SWITCH BACK-BOX, ETC FOR FUTURE SPLICING.
- 19. THE CONTRACTOR SHALL MAINTAIN THE FIRE RATING OF ALL FIRE-RATED PARTITIONS. IF A DEVICE WILL VOID THE FIRE RATING OF A WALL, IT SHALL BE INSTALLED IN AN ALTERNATE LOCATION PER THE ARCHITECT OR ENGINEER'S DIRECTION. ALL VOIDS AROUND CONDUITS AND/OR CORE DRILLS PENETRATING FIRE RATED PARTITIONS SHALL BE FILLED WITH FIRE-SAFING MATERIAL OR UL APPROVED FIRE RATING DEVICE. THE FIRE RATING OF A PARTITION SHALL NEVER BE COMPROMISED.
- 20. THE CONTRACTOR SHALL MAINTAIN THE INSULATION RATING AND VAPOR BARRIERS ON ALL PERIMETER WALLS. IF A DEVICE WILL DAMAGE OR COMPROMISE THE VAPOR BARRIER OR INSULATION, IT SHALL BE INSTALLED IN AN ALTERNATE LOCATION PER THE ARCHITECT OR ENGINEER'S DIRECTION.
- 21. ALL EQUIPMENT REQUIRING ACCESS SUCH AS J-BOXES, PULL BOXES, TRANSFORMERS, DRIVERS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. EXISTING ELECTRICAL DEVICES WHICH ARE LOCATED BEHIND INACCESSIBLE LOCATIONS DUE TO THE RENOVATION SHALL BE REROUTED AND MADE ACCESSIBLE.
- 22. CONDUITS AND/OR MATERIALS LOCATED IN ENVIRONMENTAL AIR PLENUMS SHALL BE PROPERLY LISTED FOR THE APPLICATION. INTERIOR CONCEALED RACEWAYS MAY BE AC OR MC CABLE IF ALLOWED BY THE AHJ. EXPOSED RACEWAYS, INCLUDING RACEWAYS EXPOSED IN THE BACK OF HOUSE SHALL BE GALVANIZED STEEL OR ALUMINUM EMT. MOTOR CONNECTIONS SHALL BE FLEXIBLE METAL CONDUIT FOR INTERIOR APPLICATIONS AND LIQUID TIGHT FLEX FOR EXTERIOR APPLICATIONS. ALL OTHER EXTERIOR CONDUITS SHALL BE GALVANIZED STEEL, ALUMINUM EMT OR RIGID STEEL IF EXPOSED TO STRIKING. EXTERIOR CONDUITS SHALL UTILIZE COMPRESSION CONNECTORS. AC/MC CABLE SHALL NOT TERMINATE AT PANELBOARDS. A GUTTER ABOVE THE ELECTRICAL PANELS SHALL BE PROVIDED WITH CONDUIT FROM THE
- 23. CABLE AND CONDUIT ROUTING SHALL BE DONE IN A NEAT AND ORDERLY FASHION. LINES SHALL BE RUN PARALLEL TO ALL BUILDING FEATURES, AND SHALL BE GROUPED TOGETHER TO CREATE AN AESTHETICALLY PLEASING AND EASY TO FOLLOW ROUTE. CABLES SHALL BE PERMITTED TO BE BUNDLED BUT SHALL NOT EXCEED TEN IN QUANTITY. ROUTING SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT.
- 24. CONDUITS SHALL BE RIGIDLY SUPPORTED TO THE BUILDING STRUCTURE. AC AND MC CABLES SHALL BE SUPPORTED WITHIN 12" OF EVERY BOX, FITTING, ETC. AND SUPPORT SPACINGS SHALL NOT EXCEED 6' INTERVALS. RIGID CONDUIT SUPPORT SPACINGS FOR ALL CONDUIT TYPES SHALL BE IN ACCORDANCE WITH THE NEC. COUPLINGS AND FITTINGS SHALL BE STEEL WITH COMPRESSION OR SET STEEL SCREW CONNECTIONS. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL) BETWEEN PULL POINTS FOR POWER (120V OR HIGHER) CIRCUITS AND NOT MORE THAN THE EQUIVALENT OF TWO QUARTER BENDS (180 DEGREES TOTAL) BETWEEN PULL FOR LOW VOLTAGE (TELEPHONE, DATA, ETC) CIRCUITS. LOW VOLTAGE CONDUIT RUNS SHALL ALSO NOT EXCEED 100' BETWEEN PULL POINTS. ALL CONDUITS SHALL BE FASTENED AT BOTH ENDS. EXPANSION FITTINGS SHALL BE PROVIDED AT ALL BUILDING EXPANSION JOINTS OR WHERE NEEDED TO ALLOW FOR THERMAL EXPANSION.
- 25. CONDUIT SIZES INDICATED IN PANEL SCHEDULES AND ON THE SINGLE LINE ARE BASED ON TYPE THHN IN EMT. AS OTHER TYPES OF CONDUIT AND CONDUCTORS ARE PERMISSIBLE IN THIS PROJECT, THE CONTRACTOR SHALL ADJUST THE DIMENSION OF THE CONDUIT TO COMPLY WITH CHAPTER 9, TABLE 1 IN THE NEC. ADJUSTMENTS TO THE CONDUIT SIZE SHALL BE PART OF THE BID AND SHALL BE AT NO ADDITIONAL EXPENSE TO THE OWNER.
- WIRE SIZES INDICATED ARE BASED UPON DIRECT ORTHOGONAL PATHS TO THE PANELBOARD. FEEDERS ARE SIZED FOR A MAXIMUM OF 2% VOLTAGE DROP, AND BRANCH CIRCUITS ARE DESIGNED FOR A MAXIMUM OF 3% VOLTAGE DROP. IF FIELD CONDITIONS DO NOT ALLOW THESE PATHS OR IF THE CONTRACTOR RUNS ADDITIONAL LENGTHS, THEY SHALL BE RESPONSIBLE FOR INCREASING WIRE SIZE TO ACCOUNT FOR VOLTAGE DROP AT NO ADDITIONAL COST. 20 AMP, 120 VOLT HOMERUNS EXCEEDING 57' SHALL BE A MINIMUM OF #10 AWG. 20 AMP, 277 VOLT HOMERUNS EXCEEDING 131' SHALL BE A MINIMUM OF #10 AWG. WIRING SMALLER THAN #12 AWG SHALL NOT BE USED FOR ANY INSTALLATIONS.
- 27. THE CONTRACTOR SHALL CIRCUIT PANELBOARDS EXACTLY AS INDICATED IN THE PANEL SCHEDULES. IF ANY DEVIATIONS ARE NECESSARY, THE ENGINEER SHALL BE NOTIFIED. TYPED DIRECTORY CARDS SHALL BE PROVIDED AT EACH PANELBOARD INDICATING LOAD SERVED AND FINAL ROOM NUMBERS PER THE NEC. WHEN EXISTING DIRECTORIES ARE REPLACED FOR RENOVATION WORK, EXISTING LOAD INFORMATION SHALL BE DIRECTLY TRANSFERRED TO THE NEW DIRECTORY CARDS.
- 28. NEUTRAL CONDUCTORS SHALL ONLY BE SHARED WHEN INDICATED ON THE DRAWINGS. WHERE NEUTRALS ARE INDICATED TO BE SHARED, THE NEUTRAL SHALL BE A MINIMUM OF #10 AWG.
- 29. CONDUCTORS SHALL BE COPPER. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID, AND CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. CONDUCTORS SHALL BE CODE TYPE THW, THHN, THWN, OR XHHW UNLESS OTHERWISE REQUIRED BY THE NEC. CONDUCTORS SHALL BE MARKED WITH INSULATION CODE. VOLTAGE RATING, AWG SIZE, AND MANUFACTURER AND INCLUDE A CONTINUOUS COLOR CODING FROM PANEL TO LOAD SERVED. WHERE CONTINUOUS MARKINGS ARE NOT AVAILABLE, USE COLOR CODED TAPE AT EACH TERMINATION. #8 AWG AND SMALLER CONDUCTORS SHALL BE SPLICED WITH SPRING CONNECTORS. #6 AWG AND LARGER SHALL BE SPLICED WITH BARREL CONNECTORS REQUIRING COMPRESSION ON EACH END.
- 30. ALL EMERGENCY EGRESS, STANDBY LIGHTING, AND EXIT LIGHTING SHALL HAVE A BATTERY WITH RUN TIME MEETING OR EXCEEDING 90 MINUTES. THE BATTERY SHALL NOT BE CAPABLE OF BEING DISCONNECTED. REGARDLESS OF MODEL NUMBER SPECIFIED, LIGHT FIXTURES SPECIFIED WITH BACKUP BATTERY SHALL HAVE THE TEST BUTTON INTEGRALLY MOUNTED WHERE POSSIBLE. WHERE FIXTURES ARE NOT AVAILABLE WITH INTEGRALLY MOUNTED TEST BUTTONS, THE TEST BUTTONS SHALL BE LOCATED IN A DISCRETE LOCATION AS DETERMINED BY THE ENGINEER, UP TO 50' AWAY FROM THE FIXTURE.
- 31. ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURAL SYSTEM BY SUPPORT WIRES, INDEPENDENT OF CEILING GRID SYSTEMS. TROFFER TYPE FIXTURES SHALL BE SUPPORTED BY WIRES AT ALL FOUR CORNERS. RECESSED DOWNLIGHTS SHALL BE SUPPORTED VIA HANGER BARS SUPPORTED BY WIRES AT ALL FOUR CORNERS. SUPPORT MEANS SHALL BE IN ACCORDANCE WITH LOCAL SEISMIC
- 32. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF AN ELECTRICALLY CONTINUOUS METALLIC CONDUIT SYSTEM TOGETHER WITH INSULATED EQUIPMENT GROUNDING CONDUCTORS. EVERY ITEM SERVED BY THE ELECTRICAL SYSTEM SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE RACEWAYS, JUNCTION/OUTLET BOXES, MACHINE FRAMES, ETC. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR OR GROUND ELECTRODE SIZED IN ACCORDANCE WITH THE NEC. PROVIDE BONDING JUMPERS FOR ALL NON-CURRENT CARRYING CONDUCTORS OF DIFFERENT SYSTEMS TO ENSURE NO VOLTAGE POTENTIAL. METAL GAS PIPING SHALL ONLY BE GROUNDED AT EQUIPMENT HOUSING BOTH ELECTRICAL CIRCUITS AND UTILIZING GAS VIA THE EQUIPMENT GROUND ROUTED WITH THE CIRCUIT. ALL GROUND WIRES SHALL BE COPPER.
- 33. SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY, IN PDF FORMAT. THE CONTRACTOR SHALL ALLOW FOR A TOTAL OF 10 BUSINESS DAYS FOR REVIEW BY THE ENGINEER. SUBMITTALS SHALL INCLUDE PANELBOARDS, DISCONNECTS, WIRING DEVICES AND LIGHT FIXTURES. SUBMITTALS SHALL ONLY INCLUDE DATA RELEVANT TO THIS PROJECT; DATA SHEETS INDICATING SEVERAL PRODUCTS SHALL HAVE THE RELEVANT PRODUCTS HIGH-LITED OR CLEARLY IDENTIFIED. SIMILAR EQUIPMENT SHALL BE SUBMITTED IN ONE COMPLETE SUBMITTAL PACKAGE (I.E. ALL PANELBOARDS, ALL LIGHTING FIXTURES, ETC.).
- 34. PROVIDE PAD LOCKING HARDWARE ON CIRCUIT BREAKERS FOR EQUIPMENT WHICH IS HARDWIRED WITHOUT A LOCAL DISCONNECTING MEANS THAT ARE NOT WITHIN SIGHT OF THE PANELBOARD. 35. DUPLEX RECEPTACLES SHALL BE NEMA 5-20R.
- 36. WALL MOUNTED OCCUPANCY SENSORS SHALL BE ACUITY WSD PDT OR APPROVED EQUAL. CEILING MOUNTED OCCUPANCY SENSORS FOR CONFERENCE ROOMS, LOBBIES, AND OTHER SIMILAR AREAS SHALL BE DUAL TECHNOLOGY PASSIVE INFRARED AND ULTRASONIC SIMILAR TO ACUITY EMR PDT9. DEVICES SHALL BE MOUNTED SUCH THAT THE SENSORS HAVE FULL COVERAGE OF THE INTENDED AREAS AND PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL ACCESSORIES NECESSARY FOR A FULLY FUNCTIONING SYSTEM, INCLUDING POWER PACKS, CONTROL AND POWER WIRING, BACKBOXES, ETC. POWER PACKS FOR CEILING MOUNTED SENSORS SHALL BE PROVIDED, SIMILAR TO WATT STOPPER BZ-150. SENSORS SHALL BE WATT STOPPER, HUBBEL, COOPER, OR LUTRON PROVIDED IT IS EQUIVALENT OR EXCEEDS THE REQUIREMENTS LISTED HEREIN. THE CONTRACTOR SHALL FULLY COMMISSION THE OCCUPANCY SENSORS SYSTEM TO CONFIRM IT IS FUNCTIONING AS INTENDED.
- 37. MOLDED CASE CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC AND AMBIENT COMPENSATED INVERSE TIME-DELAY OVERLOAD AND INSTANTANEOUS SHORT CIRCUIT PROTECTED, FULL SIZE, BOLT-ON, WITH A QUICK-MAKE, QUICK-BREAK OVER-CENTER SWITCHING MECHANISM THAT IS MECHANICALLY TRIP-FREE FROM THE HANDLE SUCH THAT THE CONTACTS CAN NOT BE CLOSED AGAINST SHORT CIRCUITS. CONTACTS SHALL BE NON-WELDING SILVER ALLOY. TRIPPING DUE TO OVERLOAD OR SHORT CIRCUIT SHALL BE INDICATED BY THE BREAKER RESTING AT A MID POINT BETWEEN THE ON AND OFF POSITIONS. AMPERE AND FAULT CURRENT RATINGS SHALL BE CLEARLY VISIBLE. WHERE NEUTRALS ARE SHARED AMONG CIRCUITS, THE CONTRACTOR SHALL PROVIDE MULTI-POLE BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL CIRCUITS IN THE EVENT OF ONE TRIPPING; IN THIS CASE SINGLE POLE BREAKERS MAY BE CONNECTED BY A COMMON TRIP HANDLE.
- 38. ALL FUSES SHALL BE DUAL-ELEMENT LOW PEAK CLASS RK1 AS MANUFACTURED BY BUSSMAN OR LITTLE FUSE. FUSE VOLTAGE RATING SHALL BE 250 VOLT FOR 120/208 VOLT SYSTEM.
- 39. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, HIGH 12T RATED, APPROVED FOR SERVICE ENTRANCE APPLICATIONS. DISCONNECT SWITCHES SPECIFIED FOR 208 VOLT CIRCUITS SHALL BE RATED AT 240 VOLT. ALL DISCONNECTS SHALL BE QUICK-MAKE, QUICK-BREAK TYPE AND HAVE PROVISIONS FOR ACCOMMODATING R TYPE FUSES. SWITCHES IN EXTERIOR LOCATIONS SHALL BE NEMA TYPE 4X, AND INDOOR SWITCHES EXPOSED TO WET OR DAMP CONDITIONS SHALL BE NEMA TYPE 3R. SWITCHES SHALL HAVE PROVISIONS FOR PADLOCKING. SWITCHES SHALL BE PREVENTED FROM OPENING WHILE SWITCH IS ON. FUSED DISCONNECTS SHALL BE PROVIDED WHEN REQUIRED BY THE MANUFACTURER OR BY THE LOCAL INSPECTING AUTHORITY.
- 40. ALL 15 AND 20A RECEPTACLES LOCATED IN KITCHENS, WITHIN 6' OF SINKS, BATHROOMS, IN EXTERIOR LOCATIONS, IN AREAS EXPOSED TO WET CONDITIONS, ROOFTOPS SHALL BE GFI TYPE. IF A SIMPLEX RECEPTACLE IS REQUIRED, THE CIRCUIT BREAKER SHALL BE GFI TYPE.
- 41. PANELBOARDS SHALL HAVE COPPER FULL SIZE PHASE BUSSES, NEUTRAL BUSSES, AND BOLTED ON COPPER GROUNDING BUS WITH MAIN LUGS. BUS BAR CONNECTIONS SHALL BE COLUMN CONSECUTIVE PHASE-SEQUENCE TYPE. BUS BARS SHALL BE DRILLED AND EQUIPPED FOR BOLT-ON MOLDED CASE CIRCUIT BREAKERS. SHORT CIRCUIT BRACING AND BREAKER INTERRUPTING CAPACITY SHALL BE AS INDICATED ON THE PANEL SCHEDULES, BUT SHALL NOT BE BELOW 10,000 A.I.C. FOR 120/208V PANELS AND 14,000 A.I.C. FOR 277/480V PANELS. PANEL CONSTRUCTION SHALL BE HINGED DOOR IN DOOR COVERS WITH MASTER-KEYED DOOR LOCKS, GALVANIZED SHEET STEEL CABINETS WITH MULTIPLE KNOCKOUTS, WIRING GUTTERS, AND SPACE FOR A TYPED CIRCUIT DIRECTORY. MAIN BREAKERS OR MAIN LUGS ONLY SHALL BE
- PROVIDED AS INDICATED IN THE PANEL SCHEDULES. PANELS SHALL BE PROVIDED WITH FEED THRU LUGS UNLESS OTHERWISE NOTED. 42. UNDERGROUND CONDUIT SHALL BE PVC, EXTERIOR EXPOSED CONDUIT SHALL BE RIGID AND INTERIOR CONDUIT SHALL BE EMT.

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SYMBOL	DESCRIPTION SINCE FROM FORWARD I
\$ 	SINGLE POLE SWITCH THREE WAY WALL MOUNTED SWITCH
\$ ₃	
\$ ₀	WALL MOUNTED OCCUPANCY SENSOR
(OS)	CEILING MOUNTED OCCUPANCY SENSOR
EXIT	EMERGENCY EXIT COMBO LIGHT EMERGENCY LIGHT
RH	REMOTE HEAD
WP	WALL PACK LIGHT FIXTURE
	2'X2' LED TROFFER LIGHT FIXTURE
	2'X4' LED TROFFER LIGHT FIXTURE
	EXHAUST FAN THERMOSTAT
	EXHAUST FAN THERMOSTAT
MDP	MAIN DISTRIBUTION PANEL
PP_	POWER PANEL ''
TX1	TRANSFORMER
BC	BOX & 1" CONDUIT ABOVE CEILING
ATS	AUTOMATIC TRANSFER SWITCH
MTS	MANUAL TRANSFER SWITCH
PP	POWER PACK
GEL -	120V DUPLEX RECEPTACLE
GFI _	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE
WP ←	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE W/ WEATHERPROOF IN-USE COVER
ACG⊕	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE W/ WEATHERPROOF IN-USE COVER
L5-30R ←	30 AMP, NEMA L5-30R SINGLE, LOCKING RECEPTACLE (INSTALLED 80" ABOVE FINISHED FLOOR)
	QUAD RECEPTACLE
GFI 🔯	FLOOR MOUNTED GFI DUPLEX RECEPTACLE (PLASTIC FLOOR BOX W/ STAINLESS STEEL COVER)
	FLOOR MOUNTED QUAD RECEPTACLE W/ VOICE/DATA (DUAL DATA DROP & PLASTIC FLOOR BOX W/ STAINLESS STEEL COVER)
A	VOICE/ DATA (DUAL DATA DROP, BOX & 3/4" EMT CONDUIT IN WALL TABOVE CEILING GRID)
\bigcirc	CEILING DUAL DATA DROP (BOX & 3/4" EMT CONDUIT ABOVE CEILING GRID)
AP	CEILING MOUNTED WIRELESS ACCESS POINT W/ POWER OVER ETHERNET (BOX & 3/4" EMT CONDUIT ABOVE CEILING)
월[]	DOOR ENTRY - NUMBER PAD
	ELECTRICAL DOOR STRIKE
(P)	PUSH BUTTON FOR DOOR ENTRY (MOUNTED UNDER DESK)
CT	CONTROL TRANSFORMER 120V INPUT, COORDINATE OUTPUT W/ ELECTRIC DOOR STRIKE
CJB	ABOVE CEILING MOUNTED JUNCTION BOX FOR PROCEDURE LIGHT
\Box	HOT WATER CIRCULATOR PUMP
TV	TV OUTLET (RECEPTACLE, DUAL DATA & COAX)
 S□	DOOR ENTRY - CARD SWIPE
JB	JUNCTION BOX
	WALL MOUNTED TELEVISION W/ FULL MOTION ARTICULATING WAL
	DISCONNECT (NEMA 1 INSIDE BUILDING & NEMA 3R OUTSIDE BUILDING)
FLR	FLOOR MOUNTED GFI QUAD RECEPTACLE (PLASTIC FLOOR BOX W/ STAINLESS STEEL COVER)
FLR V	FLOOR MOUNTED VOICE/ DATA (PLASTIC FLOOR BOX W/ STAINLESS STEEL COVER)
[ES]	ALTRONIX AL1012ULACMCB, POWER SUPPLY/ CHARGES W/
PS	MULTI-OUTPUT ACCESS POWER CONTROLLER

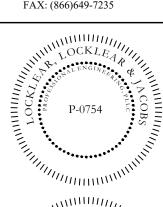
	45
	1PH 1P
	2/C 3/C 3PH
Н	4/C 4W
PR	A/C
OR	A/E AAP
	AC
	ACC ADD
	ADJ ADC AF
	AFC
	AFF
	AFG AH
	AHJ AIC
	ALT AME
	AMF AP ARC
	ASC AT
	ATS AUT
	AV
	BAT BC
	BD BFF
	BIL BLD BPIF
	BRK
	BYP
	C CAB
EPTACLE	CAL CAP CAT
PTACLE W/	CAT CCF
TAOLL W	CCT cd
PTACLE W/	CD CF
EPTACLE	CF/C
DR)	CF/C
	CHV
ACLE COVER)	CHV CTB
COVER)	CKT CKT
ATA (DUAL DATA EEL COVER)	CLF CLG
LLL OOVLIN	CML COA CON
NDUIT IN WALL TO	CON
	CON
GRID)	COC CPT
POWER OVER	CRI CT
CEILING)	CTV CU CU I
	CUF
	DB DC
	DCP DEG
	DEG DEM DIAG
TE OUTPUT W/	DISC DISC
	DIST DJB
OCEDURE LIGHT	
COAX)	
	SHEET
	E-001
CLII ATING WALL	E-101
CULATING WALL	E-201
BUILDING)	E-301
	<u> </u>
CLE COVER)	
COVED)	
COVER)	
CHARGES W/ DLLER	
SED	

1PH	SINGLE-PHASE	DMR SW	DIMMER SWITCH	MCC	MOTOR CONTROL CENTER
1P 2/C	SINGLE POLE TWO-CONDUCTOR	DPS DN	DOOR POSITION SWITCH DOWN	MDP MECH	MAIN DISTRIBUTION PANEL MECHANICAL
3/C	THREE-CONDUCTOR	DPDT	DOUBLE POLE, DOUBLE THROW	MG	MOTOR GENERATOR
3PH	THREE-PHASE	DPST	DOUBLE POLE, SINGLE THROW	MH	MANHOLE
4/C	FOUR-CONDUCTOR	DR	DOOR CARD READER / PUSH TO EXIT	MIN	MINIMUM
4W	FOUR-WIRE	DRSW	BUTTON DOOR SWITCH	MOCP	MAXIMUM OVERCURRENT PROTECTION
A/C UNIT	AIR CONDITIONING UNIT	DS	DISCONNECT SWITCH	MLO	MAIN LUGS ONLY
A/E	ARCHITECT/ENGINEER	DWG	DRAWING	MT	MOUNT
AAP	ALARM ANNUNCIATOR PANEL		511551 (GO) ID UIT	MTD	MOUNTED
AC	ALTERNATING CURRENT OR ARMORED CABLE	EC ED	EMPTY CONDUIT ELECTRIC EXIT DEVICE	MTG MTS	MOUNTING MANUAL TRANSFER SWITCH
ACC	ACCESSIBLE	EG	EQUIPMENT GROUND	MV	MEDIUM VOLTAGE
ADDL	ADDITIONAL	EL	ELEVATION	MVA	MEGAVOLT-AMPERE
ADJ	ADJACENT, ADJOINING	ELEC	ELECTRIC OR ELECTRICAL	MW	MEGAWATT MICROWAVE
ADO AF	AUTOMATIC DOOR OPENER AMPERE FRAME OR AMP FUSE	ELEV EMCP	ELEVATOR EMERGENCY MONITORING	NA	NOT APPLICABLE
AFC	ABOVE FINISHED COUNTER,	EWICE	CONTROL PANEL	NEC	NATIONAL ELECTRICAL CODE
	AUTOMATIC FREQUENCY CONTROL,	EMER	EMERGENCY	NEMA	NATIONAL ELECTRICAL
	OR AVAILABLE FAULT CURRENT	EMI	ELECTROMAGNETIC INTERFERENCE		MANUFACTURERS ASSOCIATION
AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	EMT ENCL	ELECTRICAL METALLIC TUBING ENCLOSURE	NEUT OR N NFPA	NEUTRAL NATIONAL FIRE PROTECTION
AH	AMPERE HOUR	EPO	EMERGENCY POWER OFF	NIFA	ASSOCIATION
AHJ	AUTHORITY HAVING JURISDICTION	EPRF	EXPLOSION PROOF	NIC	NOT IN CONTRACT
AIC	AMPERE INTERRUPTING CAPACITY	ESMT	EASEMENT	NL	NIGHT LIGHT
ALT	ALTERNATE	EWC	ELECTRIC WATER HEATER	NO NC	NORMALLY OPEN
AMB OR A AMP	AMBIENT AMPERE	EWH EXIST	ELECTRIC WATER HEATER EXISTING	NS NTS	NO SCALE NOT TO SCALE
AP	WIRELESS ACCESS POINT	LAIO I		1110	ro our let
ARCH	ARCHITECT	FA	FIRE ALARM	OC	ON CENTER
ASC	AMPS SHORT CIRCUIT	FAAP	FIRE ALARM ANNUNCIATOR PANEL	OD	OUTSIDE DIAMETER
AT ATS	AMPERE TRIP AUTOMATIC TRANSFER SWITCH	FABL FABX	FIRE ALARM BELL FIRE ALARM BOX	OL	OVERLOAD
AUTO	AUTOMATIC TRANSFER SWITCH AUTOMATIC	FABX	FIRE ALARM BOX FIRE ALARM CONTROL PANEL	Р	POLE
AV	AUDIO VISUAL	FC	FOOTCANDLE	PA	PUBLIC ADDRESS
		FI	FILM ILLUMINATOR	PB	PANELBOARD, PULL BOX, OR PUSHE
BAT BC	BATTERY BARE COPPER	FIXT FLA	FIXTURE FULL LOAD AMPS	PBPU PCB	PREFABRICATED BEDSIDE PATIENT POLYCHLORINATED BIPHENYL
BD BC	BOARD	FLA FLEX	FULL LOAD AMPS FLEXIBLE METALLIC CONDUIT	PCB	PHOTOELECTRIC CELL
BFF	BELOW FINISH FLOOR	FLT	FLOODLIGHT	PED	PEDESTAL
BIL	BASIC INSULATION LEVEL	FLUOR	FLUORESCENT	PEND	PENDANT
BLDG	BUILDING	FLUOR FIX	FLUORESCENT FIXTURE	PF	POWER FACTOR
BPIP	BOILER PLANT INSTRUMENTATION PANEL	FOUTT FP	TELEPHONE FLOOR OUTLET FIRE PROTECTION	PH PNL	PHASE PANEL
BRKR	BREAKER	FT	FEET OR FOOT	POD	POWER OPERATED DAMPER
BYP	BY PASS	FU SW	FUSED SWITCH	PT	POWER TRANSFER HINGE
0	COMPUIT	FVNR	FULL VOLTAGE NON-REVERSING	PTRV	POWER TYPE ROOF VENTILATION
C CAB	CONDUIT CABINET	FVR	FULL VOLTAGE REVERSING	PVC PWR	POLYVINYL CHLORIDE (PLASTIC) POWER
CALC	CALCULATE	G OR GND	GROUND OR GENERATOR	I VVIX	TOWER
CAP	CAPACITY	GEN	GENERATOR	RCP	REFLECTED CEILING PLAN
CAT	CATALOG	GFCI	GROUND FAULT CIRCUIT	REC	RECESSED
CATV CCR	COMMUNITY ANTENNA TELEVISION	GTB	INTERRUPTER	RECPT RGS	RECEPTACLE
CCTV	CONTROL CONTACTOR CLOSED CIRCUIT TELEVISION	GID	GROUND TERMINAL BOX	RM RM	RIGID GALVANIZED STEEL ROOM
cd	CANDELA	HID	HIGH INTENSITY DISCHARGE	RMS	ROOT MEAN SQUARE
CD	CONSTRUCTION DOCUMENTS	HOA	HAND-OFF-AUTOMATIC	REQD	REQUIRED
CF CF/CI	CONTRACTOR FURNISHED	HP HT	HORSEPOWER	000	CHORT CIRCUIT CARACITY
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	HZ	HEIGHT HERTZ	SCC SES	SHORT CIRCUIT CAPACITY SERVICE ENTRANCE SECTION
CF/OI	CONTRACTOR FURNISHED/	112	HERVE	SD	SMOKE DETECTOR
	OWNER INSTALLED	IESNA	ILLUMINATION ENGINEERING	SF	SQUARE FOOT (FEET)
CFE	CONTRACTOR FURNISHED	IMO	SOCIETY OF NORTH AMERICA	SHT	SHEET
CHW	EQUIPMENT CHILLED WATER	IMC INCAND	INTERMEDIATE METAL CONDUIT INCANDESCENT	SI SPEC	INTERNATIONAL SYSTEM OF UNITS SPECIFICATION
CHWP	CHILLED WATER CHILLED WATER PUMP	IR	INFRARED	SPST	SINGLE POLE, SINGLE THROW
СТВ	CEILING JUNCTION BOX	IWH	INSTANTANEOUS WATER HEATER	SURF	SURFACE
CKT	CIRCUIT	. = =		SW	SWITCH
CKT BRKR	CIRCUIT BREAKER	J-BOX	JUNCTION BOX	SWBD	SWITCHBOARD SWITCHGEAR
CLF CLG	CURRENT LIMITING FUSE CEILING	kV	KILOVOLT	SWGR	SWITCHGEAR
CMU	CONCRETE MASONRY UNIT	kVA	KILOVOLT KILOVOLT AMPERE	TC	TIME CLOCK
COAX	COAX CABLE	kVAH	KILOVOLT AMPERE PER HOUR	TEL	TELEPHONE
COMM	COMMUNICATION	kVAR	KILOVOLT AMPERE REACTIVE	TP TDS	TWISTED PAIR
COMPT CONC	COMPARTMENT CONCRETE	kW kWH	KILOWATT KILOWATT HOUR	TPS TTB	TWISTED PAIR SHIELDED TELEPHONE TERMINAL BOARD
CONT	CONTINUE	kWHM	KILOWATT HOUR METER	TV	TELEVISION
CONTR	CONTRACTOR			TYP	TYPICAL
COORD	COORDINATE	LED	LIGHT EMITTING DIODE	1150	LINDEREL COR BUCT
CPT	CONTROL POWER TRANSFORMER	LF LM	LINEAR FEET (FOOT)	UFD	UNDERFLOOR DUCT
CRI CT	COLOR RENDERING INDEX CURRENT TRANSFORMER	LM LP	LUMEN LIGHT POLE	UGND UL	UNDERGROUND UNDERWRITERS LABORATORY
CTV	CABLE TELEVISION	LPS	LOW PRESSURE SODIUM	UON	UNLESS OTHERWISE NOTED
CU	COPPER	LRA	LOCKED ROTOR AMPS	UPS	UNINTERRUPTIBLE POWER SUPPLY
CU FT	CUBIC FEET	LTCP	LOCAL TEMPERATURE CONTROL	UTIL	UTILITY
CUR	CURRENT	LT	PANEL LIGHT	V	VOLT
DB	DECIBEL OR DIRECT BURIAL	LTG	LIGHT LIGHTING	V VA	VOLT AMPERE
DC	DIRECT CURRENT	LTG PNL	LIGHTING PANEL	VAR	VOLT AMPERE REACTIVE
DCP	DIMMER CONTROL PANEL	LTNG	LIGHTNING	VFD	VARIABLE FREQUENCY DRIVE
DEG C DEG F	DEGREES CELSIUS	LV	LOW VOLTAGE	VOLT	VOLTAGE
DEG F DEMO	DEGREES FAHRENHEIT DEMOLITION	MATV	MASTER ANTENNA TELEVISION	W	WATT
DIAG	DIAGRAM	141/ VI V	SYSTEM	WH	WATER HEATER
DISC	DISCONNECT	MAX	MAXIMUM	WP	WEATHERPROOF
DISTR	DISTRIBUTION	MC	METAL-CLAD	V	TDANIOSS
DISTR PNL DJB	DISTRIBUTION PANEL DOOR JUNCTION BOX	MCA MCB	MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKER	XFER XFMR	TRANSFER TRANSFORMER
טוט	POOL SOLIO HOLE BOY	IVIOD	WAIN OINCOLL BILLAKEK	VE MIL	HAROLUMIER
		NC	TE: NOT ALL ABBREVIATIONS MAY	APPLY TO PLA	NS

DRAWING INDEX							
SHEET	SHEET TITLE	REV#	DATE				
E-001	ELECTRICAL NOTES LEGENDS AND ABBREVS	-					
E-101	ELECTRICAL POWER PLAN	-					
E-201	ELECTRICAL LIGHTING PLAN	-					
E-301	ELECTRICAL DETAILS	-					



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3/14/2023^{//}

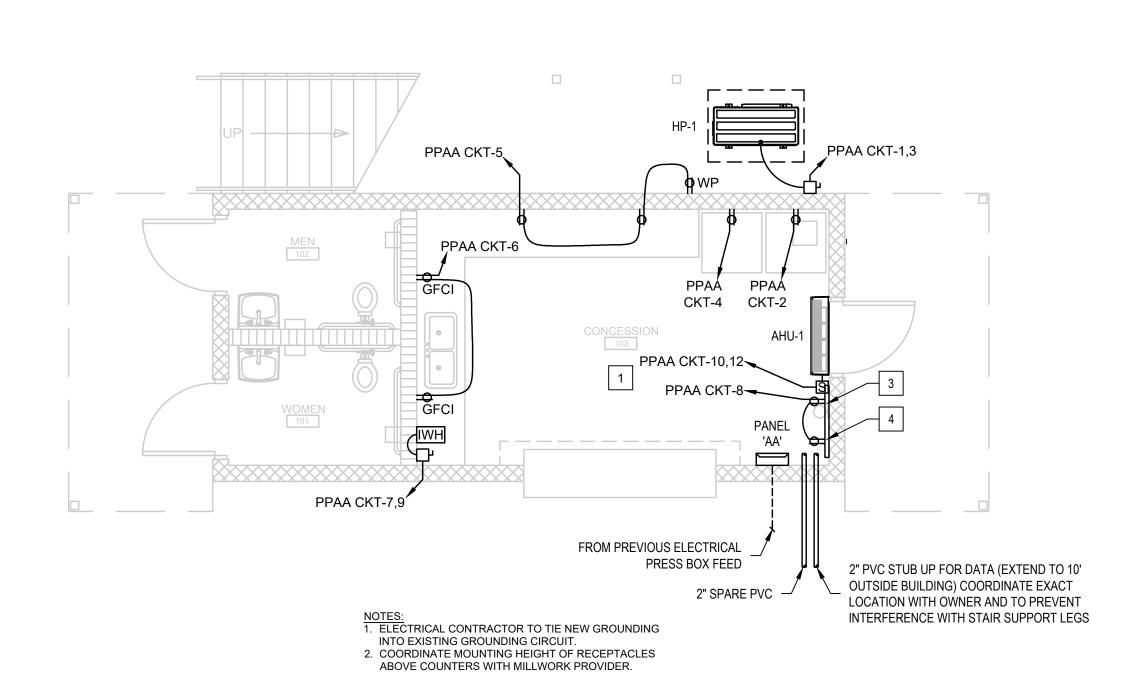
1 2 8 4 V DATE: 1/10/2023 DRAWN BY: CKD CHECKED BY: RL

> ELECTRICAL NOTES LEGENDS AND ABBREVS

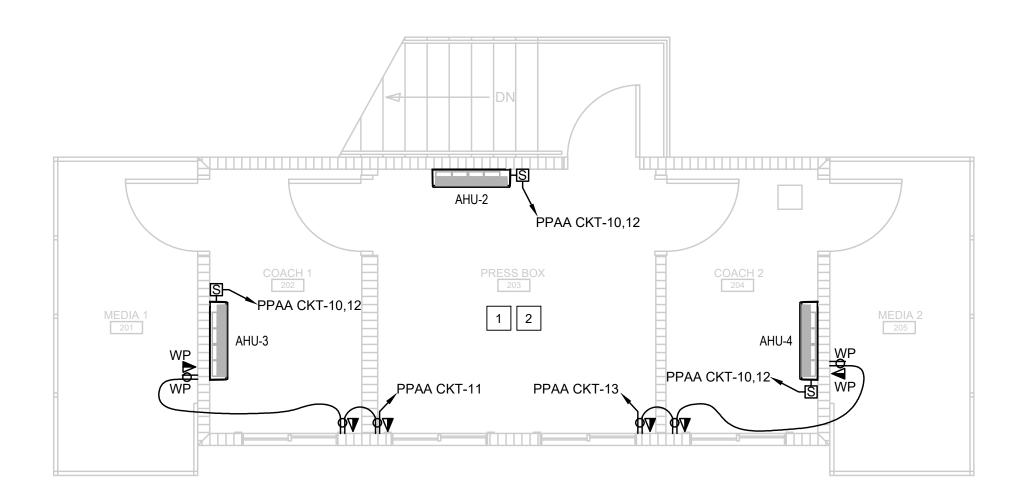
HEET NUMBER E-001

PROJECT# 21-11110

SHEET TITLE



\FIRST FLOOR ELECTRICAL POWER PLAN SCALE: 1/4" = 1'-0"

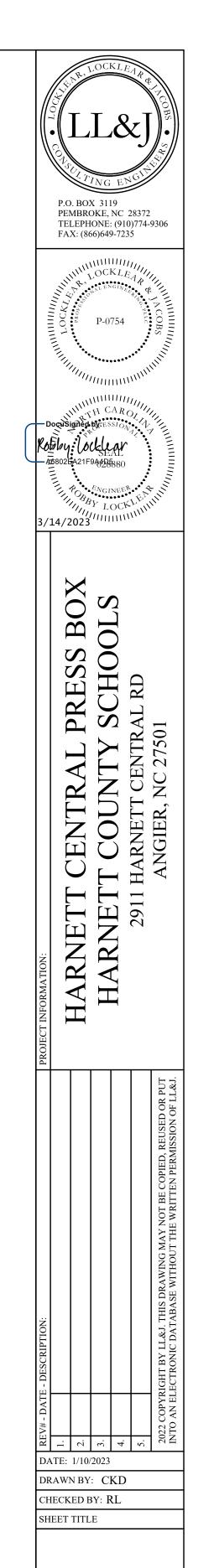


\bigcirc	SECOND FLOOR ELECTRICAL POWER PLAN
\ ^{_} /	SCALE: 1/4" = 1'-0"

ELECTRICAL SYMBOL LEGEND					
SYMBOL	DESCRIPTION				
=	120V DUPLEX RECEPTACLE				
wP	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE W/ WEATHERPROOF IN-USE COVER				
GFCI 👉	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE				
4	DATA (DUAL DATA DROP, BOX AND 3/4" EMT CONDUIT IN WALL TO ABOVE CEILING)				
\mathbf{A}_{MM}	DATA (DUAL DATA DROP, BOX AND 3/4" EMT CONDUIT IN WALL TO ABOVE CEILING) W/ WEATHERPROOF IN-USE COVER				
	DISCONNECT (NEMA 1 INSIDE BUILDING AND NEMA 3R OUTSIDE BUILDING)				
	100A, SINGLE PHASE 208V, PANEL 'AA'				
S	MOTOR RATED SWITCH				
[IWH]	ELECTRIC INSTANTANEOUS WATER HEATER				

KEY NOTES:

- 1 OWNER TO PROVIDE AND INSTALL ALL DATA CABLES.
- 2 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.
- 3 3'X4' PAINTED FIRE RATED PLYWOOD COMM BOARD.
- EXTEND (1) 2" CONDUIT FROM COMM BOARD TO ABOVE SECOND FLOOR CEILING (ROUTE CONDUIT INSIDE BLOCK WALL UP THRU SECOND FLOOR FRAMED WALL).



ELECTRICAL

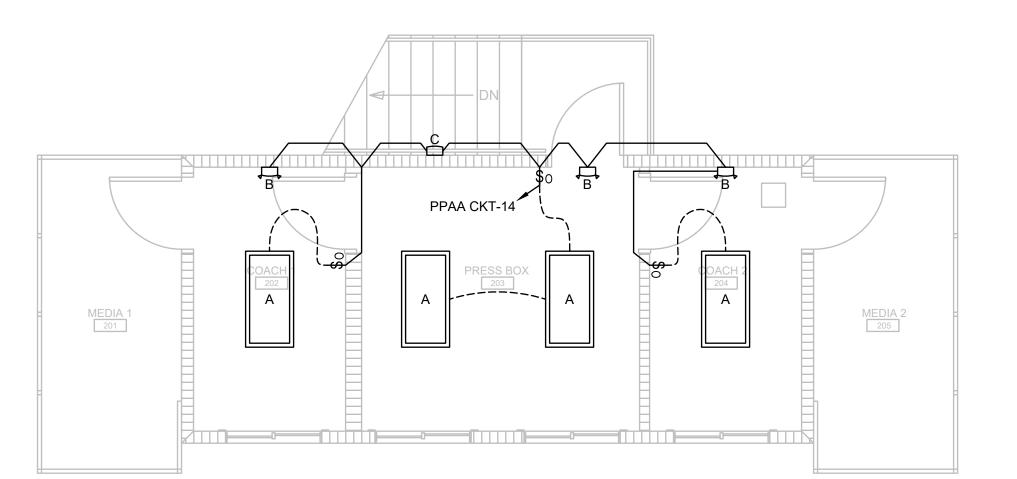
POWER PLAN

E-101

PROJECT# 21-11110

SHEET NUMBER

FIRST FLOOR ELECTRICAL LIGHTING PLAN



SECOND FLOOR ELECTRICAL LIGHTING PLAN

LIGHT FIXTURE SCHEDULE							
TAG	DESCRIPTION	MOUNTING	VOLTS / WATTS	LUMENS	LAMP TYPE	MANUFACTURER	MODEL#
Α	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 INDICATE OF THE NEEDED FIXTURE SCHEDULE SHALL BE PROVIDED WITH ALL REQUIRED MOUNTING HARDWARE, CONNECTORS AND ANY OTHER NEEDED FIXTURE OPTIONS FOR ALL LIGHTING FIXTURE OFTIONS FOR ALL LIGHTING FIXTURE OFTIONS FOR ALL LIGHTING FIXTURE OPTIONS FIXTURE OPTIONS FIXTURE OPTIONS FIXTURE O 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.

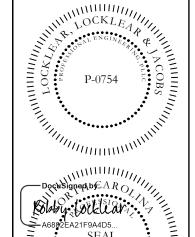
7. ALL LIGHT SWITCH COVER PLATES TO BE STAINLESS STEEL.

ELECTRICAL SYMBOL LEGEND				
SYMBOL	DESCRIPTION			
\$ ₀	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	
LIGHT SWITCHES	-
EXIT SIGNS———————————————————————————————————	
EMERGENCY LIGHTS————————————————————————————————————	
DATA OUTLETS———————————————————————————————————	———— 18" AFF
NOTES: I. DIMENSIONS ARE TO DEVICE CENTERLIN OTHERWISE NOTED. 2. REFER TO POWER SYMBOLS FOR ADDIT MOUNTING REQUIREMENTS. 3. WHERE SHOWN WALL MOUNTED, EXIT S MOUNTED 8'-0" AFF OR 1' ABOVE DOOR 1	IONAL DEVICE
LINE OF FIXTURE UNLESS OTHERWISE N	



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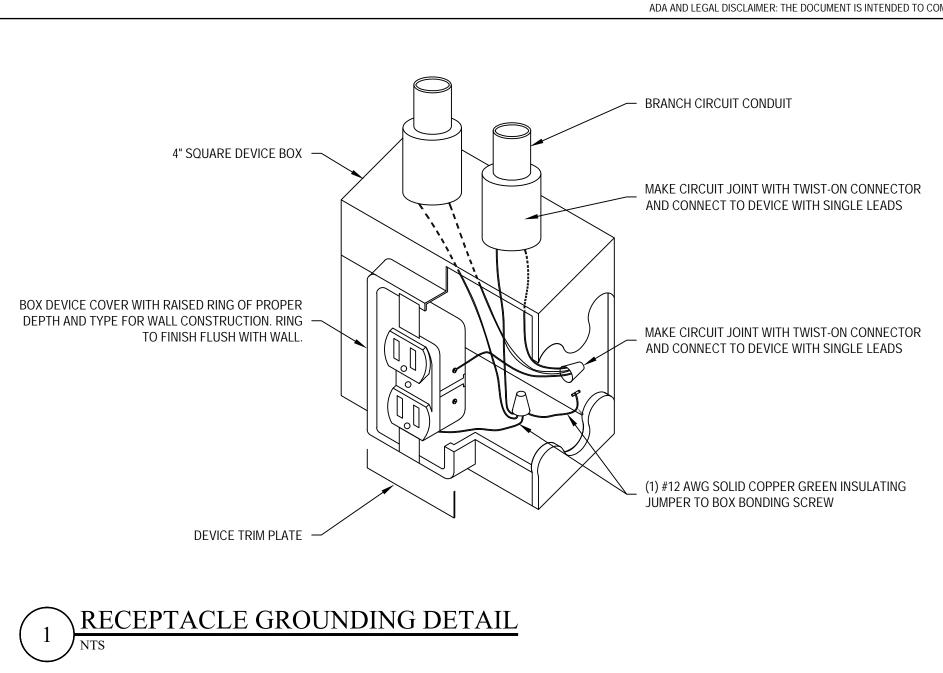
	1. 4/13/2023 EXT FAN CHANGED, CONCESSIONS EMER LGT RELOCATED AND REMOTE HD ADDED.					2023 COPYRIGHT BY LL&J. THIS DRAWING MAY NOT BE COPIED, REUSED OR PUT INTO AN ELECTRONIC DATABASE WITHOUT THE WRITTEN PERMISSION OF LL&J.	
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HEET TITLE							

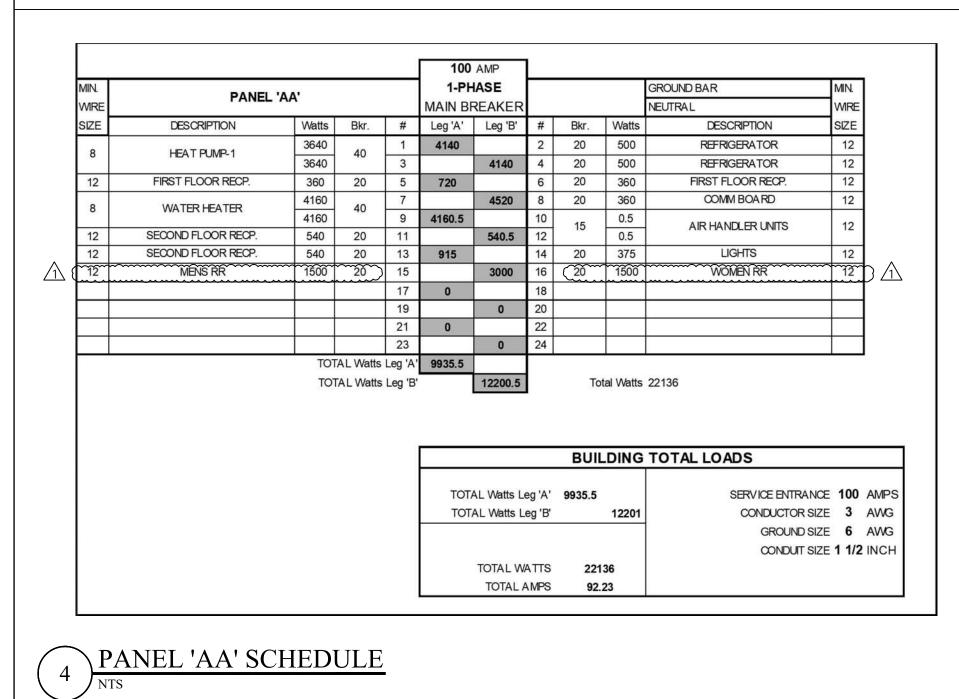
ELECTRICAL LIGHTING PLAN

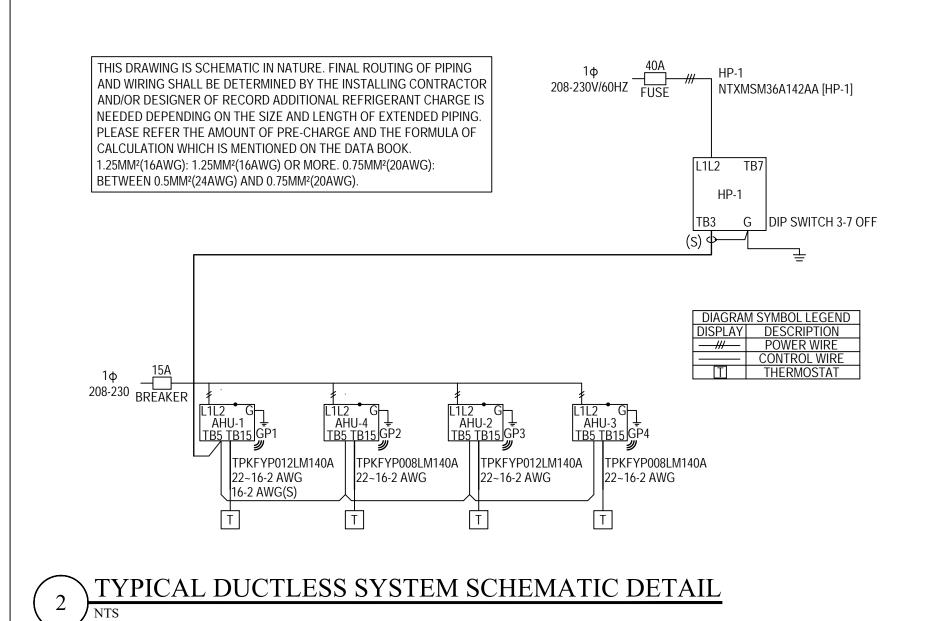
E-201

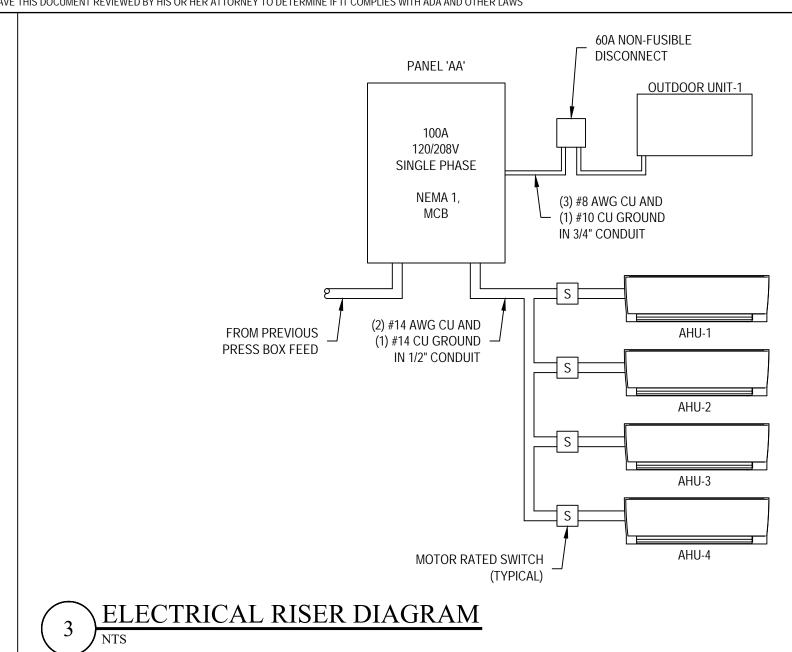
PROJECT# 21-11110

SHEET NUMBER











Docusigned by ARO 028880

DATE: 1/10/2023 DRAWN BY: CKD

CHECKED BY: RL

SHEET TITLE

ELECTRICAL **DETAILS**

SHEET NUMBER E-301