

HANGER ROD SPLIT RING HANGER ARMAFLEX INSUL.	
24 GA. SHEET METAL CARRIAGE— PLATE	

HANGER DETAIL

OUTSIDE AIR CALCULATIONS

SCALE	NONE

										HEA	AT F	PUMP	UNI	T SCHE	DUL	E						
	F,	AN DATA			COOLING	DATA			HEAT (REJE	CTION/EI	LEC CO	DIL)		INDOOR E	LECTRI	CAL	HEAT PUN	1P ELE	CTRICAL	CONDENSER		
UNIT TAG	FAN CFM	ESP (" WG)	OUTDOOR (CFM)	TOTAL (MBH)	SENSIBLE (MBH)	E DB (*F)	E WB	EFF (EER)	REJECTION (MBH)	EFF (COP)	KW)	STEPS	EAT (*F)	VOLTAGE (V)	MCA (A)	MOCP (A)	VOLTAGE (V)	MCA (A)	MOCP (A)	ENTERING AIR (°F)	UNIT ACCESORIES	MFR \$ MODEL NO.
FC-I	1400	0.7"	150	42.9	32.8	80	67	I5.5 SEER	39.0 @ 47° 25.6 @ 17°	9.0 HSPF	10.8	1	70	208/I¢	41.0	45.0	208/Iø	28.0	45.0	95°F	SINGLE POINT ELECT.	TRANE TAM7A0C36H TRANE 4TWR3042B
FC-2	1600	0.7"	150	49.7	36.7	80	67	15.5 SEER	47.5 @ 47* 30.8	9.0 HSPF	10.8	1	70	208/10	41.0	45.0	208/10	30.0	50	95°F	SINGLE POINT ELECT. CONNECTION	TRANE TAM7A0C36H TRANE 4TWR3048B
CHP-1 CHP-2 CHP-6	1500	0.3	200	47.0	34.6	80	67	15.0 EER	44.5 @ 47* 25.2 @ 10*	3.7 COP (47)	9.0	1	70	208/3φ	53.0	60.0				95°F	SEE BELOW, WT 1200# HGR = 25.5 MBH	BARD I48HIDB09
CHP-3 CHP-7	1700	0.3	200	54.0	39.1	80	67	10.7 EER	54.0 @ 47° 32.9 @ 10°	3.5 COP (47)	15.0	1	70	208/3φ	58.0	60.0				95°F	SEE BELOW, WT 1250# HGR = 24.8 MBH	BARD 160HIDB09
CHP-4 CHP-5	1150	0.3"	150	36.0	27.3	80	67	12.0 EER	32.8 @ 47* 16.7 @ 10*	3.7 COP (47)	9.0	1	70	208/3¢	49.0	50.0				95*F	SEE BELOW, WT 1200# HGR = 25.5 MBH	BARD 136HIDB09

ALL SYSTEMS TO INCLUDE PROGRAMMABLE THERMOSTATS, AUX DRAIN PANS, FLOAT SWITCH/SENSOR IN DRAIN PAN TO TURN OFF UNIT UPON ACTIVICATION, HIGH AND LOW PRESSURE SWITCHES, TIME DELAY, RA SMOKE DETECTOR CRANKCASE HEATERS, LOW AMBIENT CONTROLLER AND SINGLE POINT ELECTRICAL CONNECTION ON INDOOR UNIT. 410A REFRIGERANT. PROVIDE MFD PLENUM BASE FOR UNIT BOTTOM INTAKE (SEE DETAIL). CHP UNITS: PROVIDE 4" DRAINABLE LOUVER, SA PLENUM, HOT GAS REHEAT (DEHUM), MERV 8 FILTERS ON PERM. FRAMES, SIDE SKIRT KIT, OUTSIDE AIR CONNECTION, PROGRAMMABLE WALL T'STAT- TEMP, HUMIDITY, CO2, OCCUPANCY

ALL SYSTEMS -INCLUDING FCU: PROVIDE PERMANENT FILTER FRAMES AS DESCRIBED IN CLASSROOM HEATPUMP SPECIFICATIONS

SPLIT SYSTEM EQUALS BY CARRIER, YORK CHP SYSTEM EQUALS BY MARVARD

Ρ	SYSTEM	EQUALS	BΥ	MARVAIR	SCHOLAR	,	MODINE	CLASSMATE

	GRILLE & DIFFUSER SCHEDULE											
SYM	NECK SIZE	PANEL SIZE	NC @ CFM	FINISH	USE	DAMPER IN NECK	MFR. # MODEL					
AS	6"¢ 6"x6"	24"x24"	17 NC@ 125	WHITE	CLG SA	OBD	PRICE SMD 4WAY					
BS	8"φ 9"x9"	24"x24"	NC@ 225	WHITE	CLG SA	OBD	PRICE SMD 4WAY					
CS	10"¢ 12"x12"	24"x24"	17 NC@ 400 CFM	WHITE	CLG SA	OBD	PRICE SMD 4WAY					
DS	12"φ 12"x12"	24"x24"	24 NC@ 500 CFM	WHITE	CLG SA	OBD	PRICE SMD 4WAY					
AR	6"Φ	24"x24"	NC@ 120 CFM	WHITE	CLG RA	OBD	PRICE PDDR					
BR	8"¢	24"x24"	NC@ 220 CFM	WHITE	CLG RA	OBD	PRICE PDDR					
CR	10"¢	24"x24"	NC@ 380 CFM	WHITE	CLG RA	OBD	PRICE PDDR					
DR	12"Ф	24"x24"	NC@ 628 CFM	WHITE	CLG RA	OBD	PRICE PDDR					

NOTE: PROVIDE MODEL SR3 SQUARE TO ROUND NECK ADAPTERS AS NEEDED COORDINATE FRAME TYPES WITH REFLECTED CEILING PLAN PRICE DIFFUSERS SHALL BE STEEL

GENERAL MECHANICAL NOTES

- WORK SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES. THE MOST STRINGENT SHALL APPLY.
- COORDINATE WITH ALL OTHER TRADES TO AVOID CONFLICTS.
- COORDINATE ALL PENETRATIONS THROUGH WALLS, FLOORS, ROOFS, ETC. WITH THE OWNER.
- THERMOSTAT, THOSE LOCATED ON EXTERIOR WALLS SHALL HAVE INSULATED BASE. ALL SHALL HAVE TAMPERPROOF GUARDS.
- PIPE AND DUCT PENETRATIONS TO BE INSTALLED ACCORDING TO CODE AND SUPPORTING DETAILS.
- M.C. SHALL FURNISH AND INSTALL ANY MISC. STEEL REQUIRED FOR THE SUPPORT AND INSTALLATION OF THE EQUIPMENT. SPAN MINIMUM OF 3 JOISTS.
- MANUFACTURER'S RECOMMENDED SERVICE ACCESS CLEARANCE SHALL BE MAINTAINED. DO NOT SCALE DRAWINGS.
- M.C. SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL ACCESS DOORS.
- LABEL ALL THERMOSTATS AND CONTROL COMPONENTS AS TO THEIR FUNCTION.
- ALL VALVES, DAMPERS, CONTROLLERS, ETC. SHALL BE ACCESSIBLE.
- 12. COILS SHALL BE FURNISHED WITH RIGHT OR LEFT HAND CONNECTIONS AS REQUIRED FOR ADEQUATE SERVICE CLEARANCE ACCESS.
- CONTRACTOR SHALL PROVIDE PHENOLIC TAGS FOR EQUIPMENT AND ATTACH TO CEILING GRID BELOW BOX.

14. ALL ROOFING WORK SHALL BE BY CMS APPROVED ROOFING CONTRACTOR THAT MAINTAINS THE SITE WARRANTY WORK, $\,$

HVAC LEGEND

#x#	RECTANGULAR	DUCT

DUCT W/I" LINED INSULATION AS NOTES

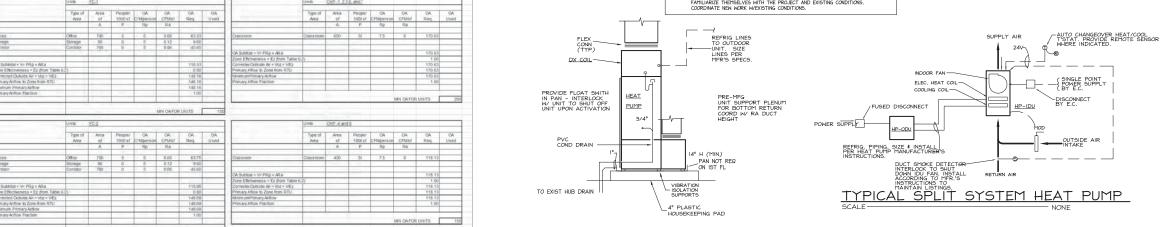
T'STAT W/ INSULATED BASE

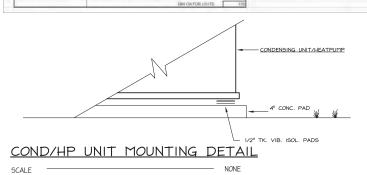
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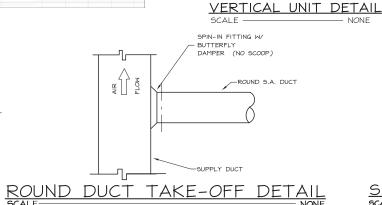
R.A. GRILLE W/FLEX DUCT

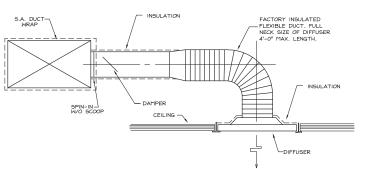
WALL SWITCH

UL 555 LISTED/LABELED FIRE/SMOKE DAMPER

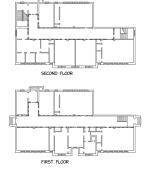












KEYPLAN





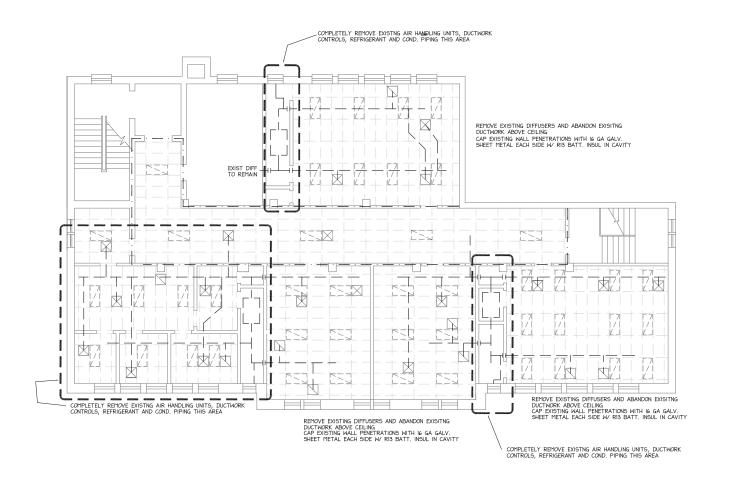


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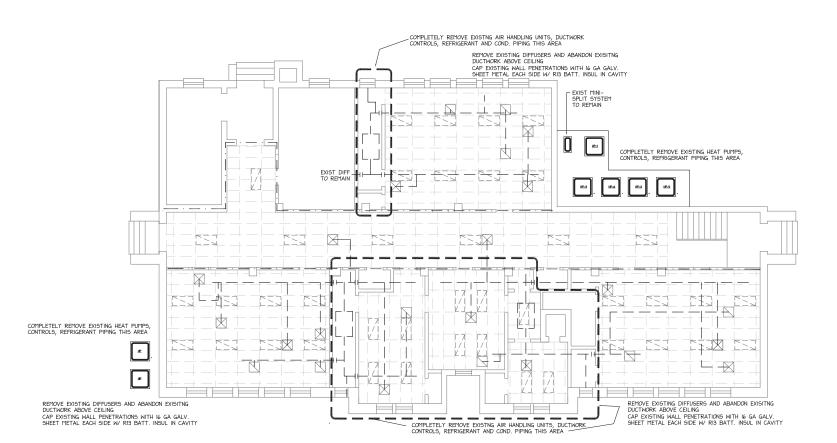
> N AND **DETAILS** ACADEMY CRENOVATIONS N. Graham St., C SCHEDULES,

Charlotte,

14AC 14AC 14AC 14AC Project Number 2018003,00



SECOND FLOOR PLAN









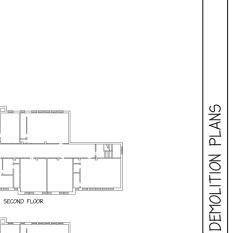




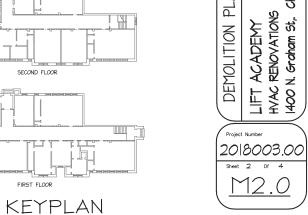


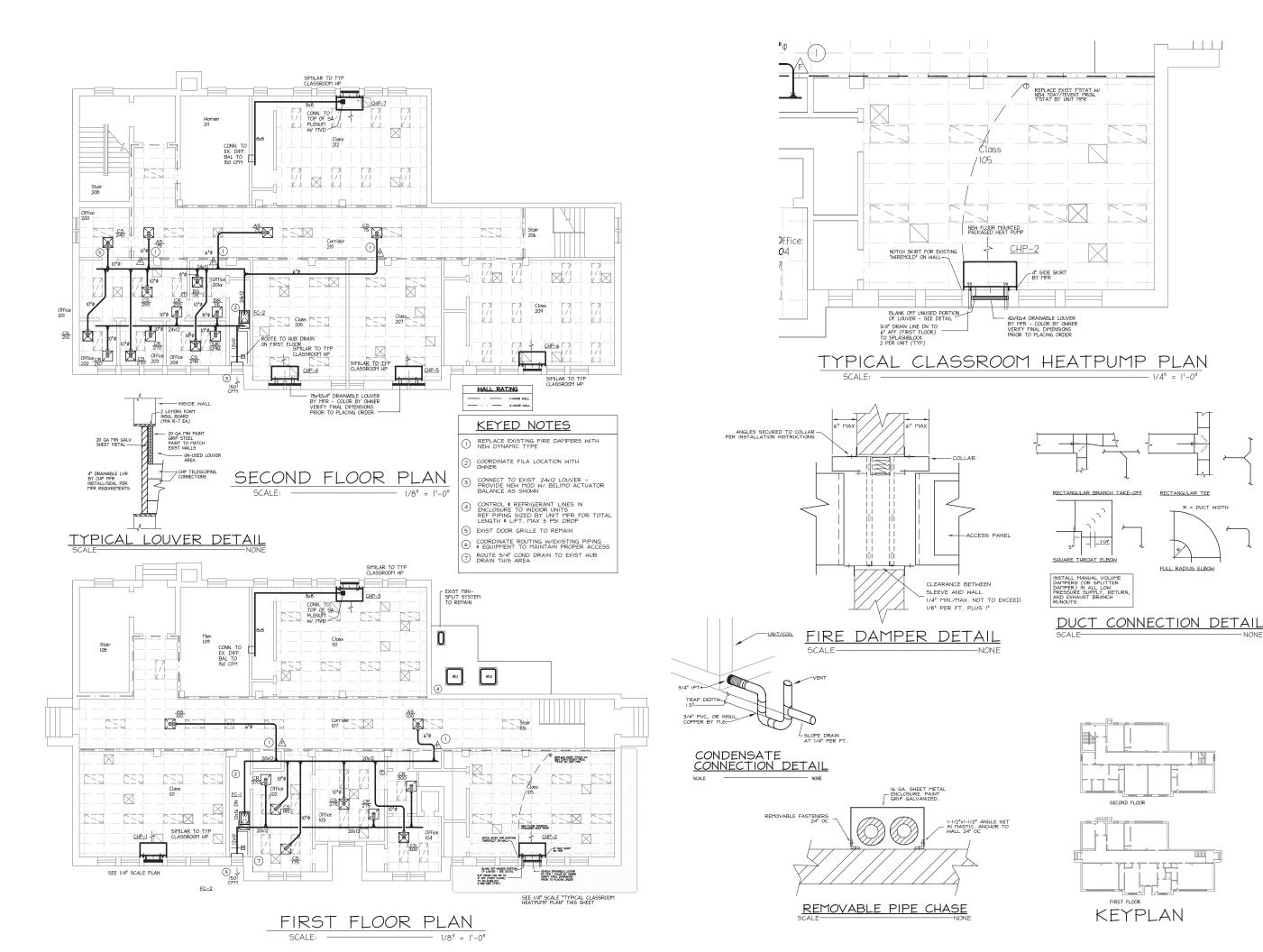
28206

Charlotte, NC



FIRST FLOOR





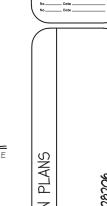












MECHANICAL RENOVATION PLANS FT ACADEMY
AC RENOVATIONS
OO N. Graham St., Charlotte, NC 28206

Project Number

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PROFESSIONAL

SASIONERING

ASSOCIATES PA

Project Manager

KB
Project Engineer

KB
Drawn By

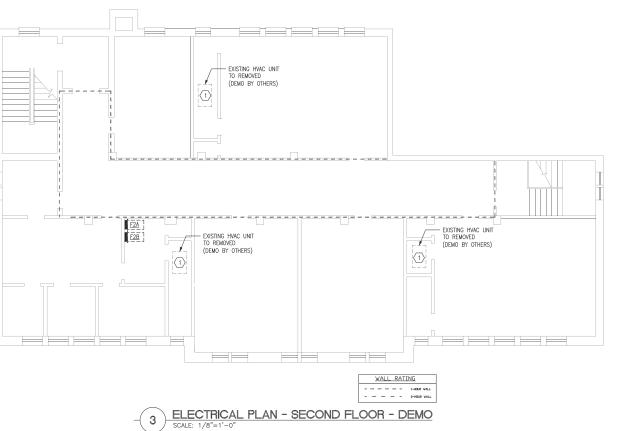
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Checked By

TAP
Date Issued 5-15-18

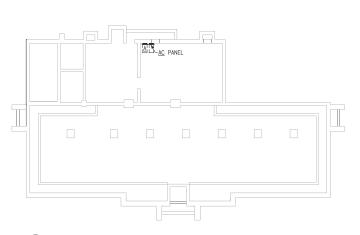
Charlotte, NC 28206

LIFT ACADEMY
HVAC RENOVATIONS
1400 N. Graham St., Cl DEMOLITION PLAN Project Number 2018003.00

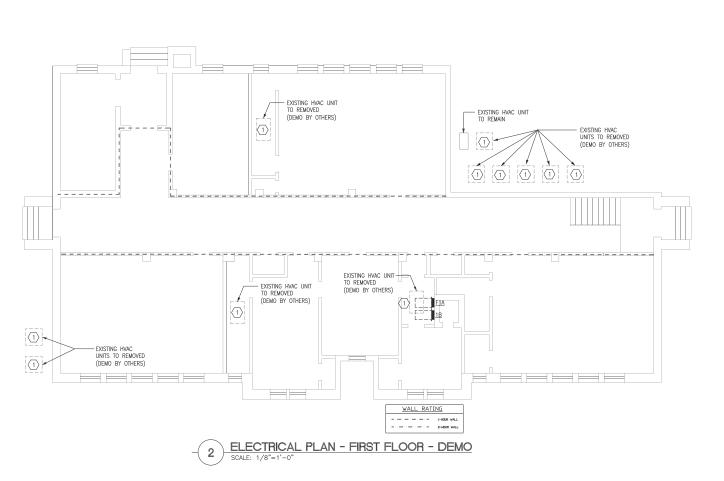
Sheet 3 Of 4



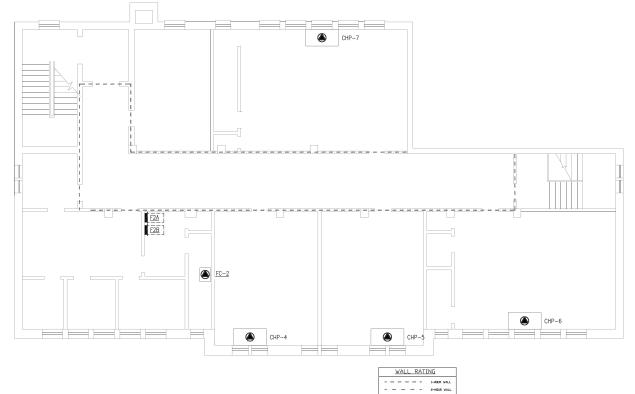
ELECTRICAL DEMO NOTES 🗵 ALL EXISTING HVAC EQUIPMENT TO BE DEMOLISHED. DEMOLISH EXISTING CIRCUIT AND REMOVE BREAKER FROM PANEL, UNLESS NOTED OTHERWISE.

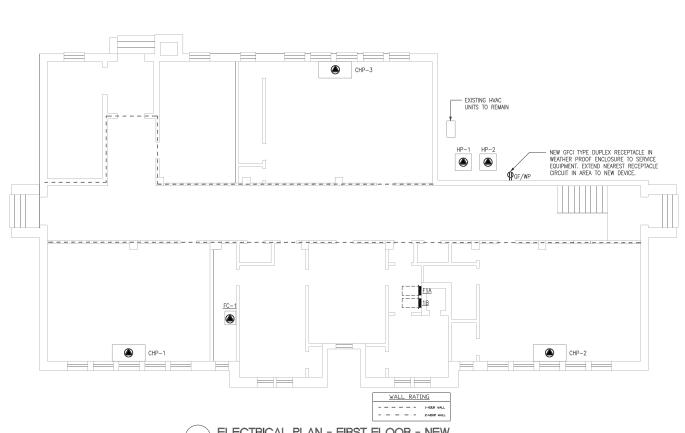


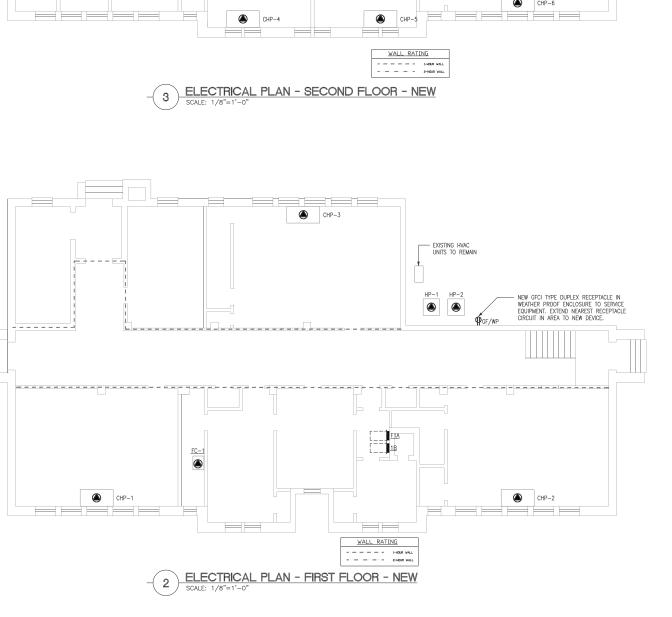
ELECTRICAL PLAN - BASEMENT FLOOR - DEMO SCALE: 1/16"=1'-0"



				LOAD INFORMATION DISCONNECT INFORMATION												
CONNECTION	LOAD DESCRIPTION	VOLTS /PH	HP	LOAD (KVA)	MCA	моср	FURN. BY	INSTALLED BY	TYPE	SWITCH RATING	POLE	FUSE OR TRIP RATING	NEMA ENCL TYPE	CIRCUIT	CONNECTION NOTES	CONNECTION DESIGNATION
CHP-1	PACKAGED HEATPUMP	208/3	140	17.3 KVA	53	60	EQ. MFGR.	EQ.MFGR.		14	100	9.	1	AC-3	NOTE 1	CHP-1
CHP-2	PACKAGED HEATPUMP	208/3		17.3 KVA	53	60	EQ. MFGR.	EQ.MFGR.		-				AC-9	NOTE 1	CHP-2
CHP-3	PACKAGED HEATPUMP	208/3	100	17.3 KVA	58	60	EQ. MFGR.	EQ.MFGR.			10.5			AC-15	NOTE 1	CHP-3
CHP-4	PACKAGED HEATPUMP	208/3	+1	17.3 KVA	49	60	EQ. MFGR.	EQ.MFGR.						F1A-4	NOTE 1	CHP-4
CHP-5	PACKAGED HEATPUMP	208/3	+	14.4 KVA	49	50	EQ. MFGR.	EQ.MFGR.		- 4			01	F1A-10	NOTE 1	CHP-5
CHP-6	PACKAGED HEATPUMP	208/3	- 4	17.3 KVA	53	60	EQ. MFGR.	EQ.MFGR.						F2A-4	NOTE 1	CHP-8
CHP-7	PACKAGED HEATPUMP	208/3		17.3 KVA	58	60	EQ. MFGR.	EQ.MFGR.		1	100		15	F2A-10	NOTE 1	CHP-7
HP-1	HEAT PUMP UNIT	208/1	*	5.8 KVA	28	45	ELEC. CNTR.	ELEC. CNTR.	FUSED	60	- 1	FPN	3R	AC-6		HP-1
HP-2	HEAT PUMP UNIT	208/1	1	6.2 KVA	30	50	ELEC. CNTR.	ELEC. CNTR.	FUSED	60	1	FPN	3R	AC-2	- 2	HP-2
FC-1	AR HADLING UNIT	208/1	194	8.5 KVA	41	45	ELEC. CNTR.	ELEC. CNTR.	FUSED	60	1	FPN	1	F1A-38	*	FC-1
FC-2	AR HADLING UNIT	208/1	1	8.5 KVA	41	45	ELEC. CNTR.	ELEC. CNTR.	FUSED	60	1	FPN	1	F2A-34	12	FC-2









CORPORATE SEAL

Charlotte, NC 28206

LIFT ACADEMY
HVAC RENOVATIONS
1400 N. Grdham St., Ch

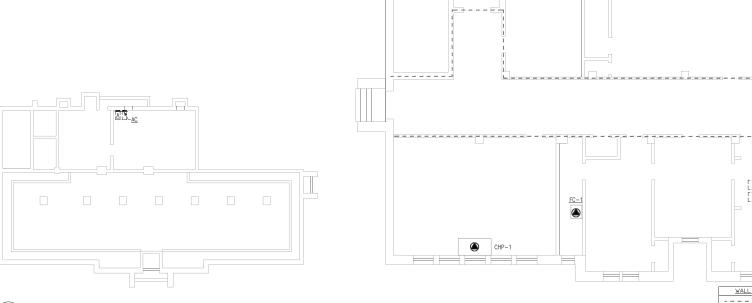
NEW PLAN

Project Number

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ELECTRICAL PLAN - GROUND FLOOR - NEW SCALE: 1/16"=1'-0"