

FIRST FLOOR PLAN - LIGHTING DEMOLITION

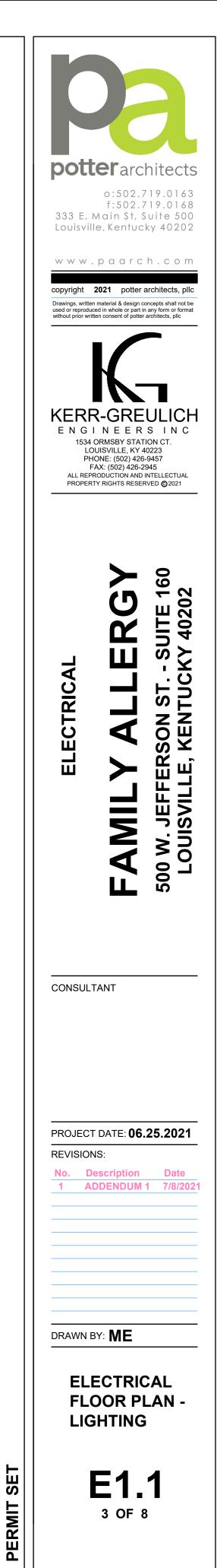
FIRST FLOOR PLAN - LIGHTING

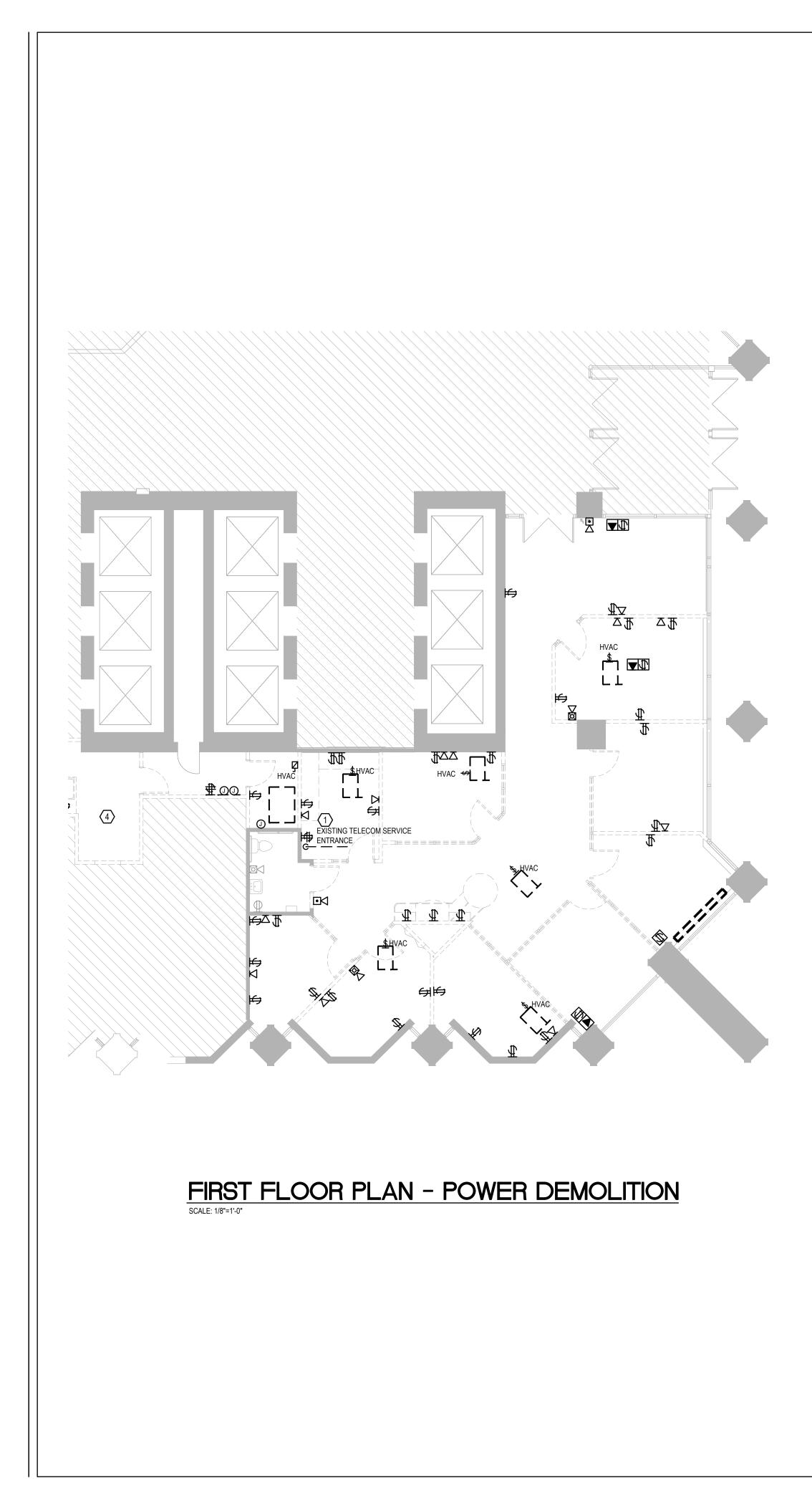
\bigcirc ELECTRICAL KEY NOTES

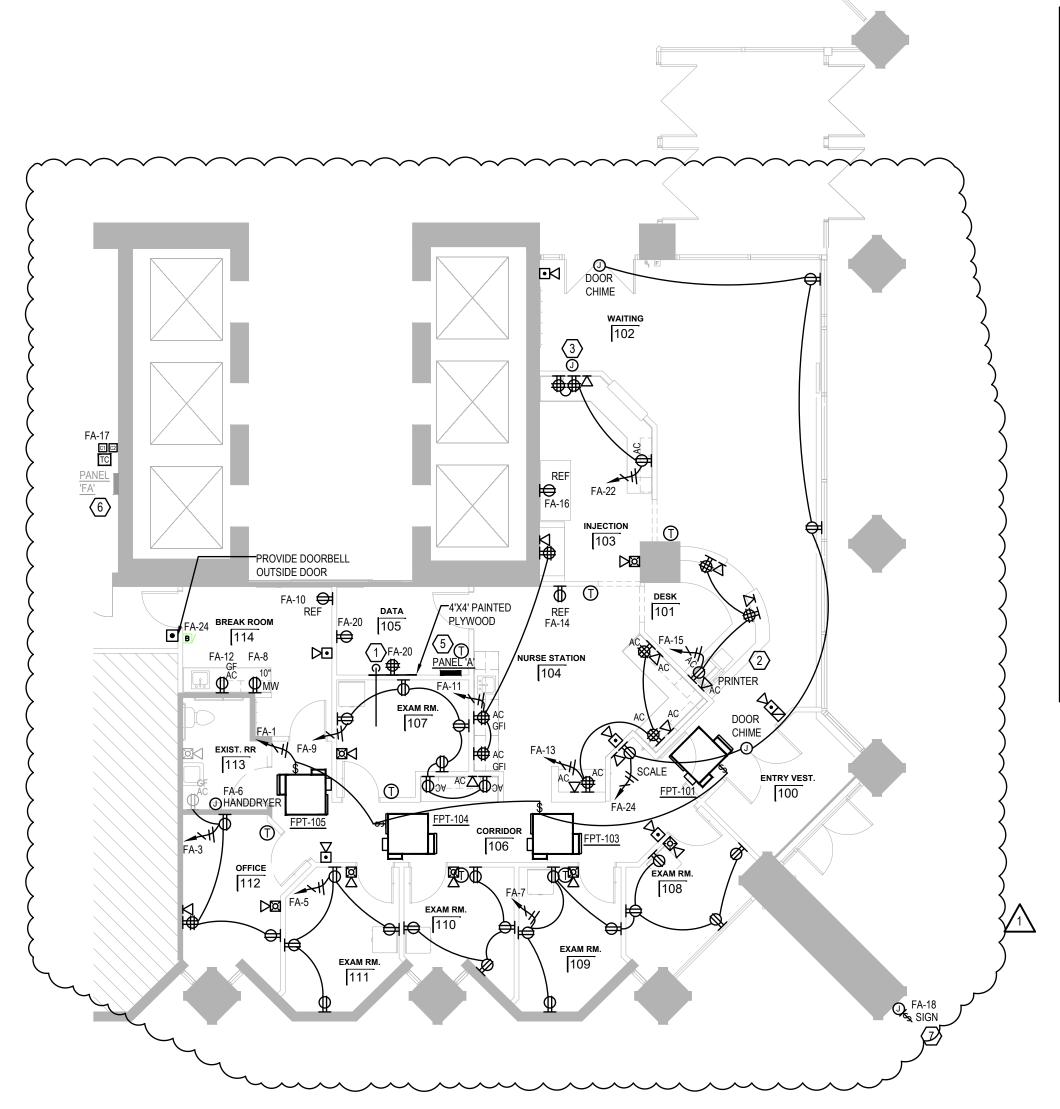
1. ROUTE CIRCUIT THRU TIMECLOCK AND CONTACTOR. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATION.

GENERAL LIGHTING NOTES

- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF LIGHT FIXTURES WITH MECHANICAL CONTRACTOR, PLUMBING CONTRACTOR, FIRE PROTECTION CONTRACTOR AND WITH OWNER'S EQUIPMENT LAYOUTS TO AVOID CONFLICT WITH DUCTWORK, PIPING, ETC.
- NO MORE THAN THREE LIGHTING OR RECEPTACLE CIRCUITS (FOR A MAXIMUM OF THREE 20A BRANCH CIRCUITS) CAN BE COMBINED IN A COMMON HOMERUN WITH SEPARATE NEUTRALS FOR A TOTAL OF SIX CURRENT CARRYING CONDUCTORS IN ONE CONDUIT, UNLESS OTHERWISE INDICATED.
- ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT SHALL BE WEATHERPROOF TYPE NEMA 3R.
- EMERGENCY LIGHTING, IF SWITCHED, SHALL AUTOMATICALLY ILLUMINATE DURING A POWER OUTAGE. EXIT SIGNS AND EMERGENCY BATTERY PACKS SHALL BE CONNECTED TO AN UNSWITCHED LINE.
- ELECTRICAL CONTRACTOR SHALL ARRANGE FOR A JOB WALK-THROUGH WITH THE BUILDING AND FIRE DEPARTMENT INSPECTORS TO DETERMINE IF ANY ADDITIONAL EXIT SIGNS ARE REQUIRED PRIOR TO COVER UP. VERIFY ARROW REQUIREMENTS.
- PROVIDE ALL EXIT SIGNS AND EMERGENCY FIXTURES/INVERTERS AN UNSWITCHED HOT CONDUCTOR AND WIRE PER MANUFACTURER'S DIAGRAM.
- OCCUPANCY SENSOR MANUFACTURER TO CONFIRM LOCATIONS ENSURING PROPER COVERAGE. PROVIDE ALL POWER PACKS, SENSORS, DEVICES AND WIRING. INSTALL OCCUPANCY SENSORS PER MANUFACTURER'S DIAGRAMS FOR A COMPLETE, OPERABLE SYSTEM. LOCATE POWER PACKS ABOVE CEILING IN AN ACCESSIBLE LOCATION.





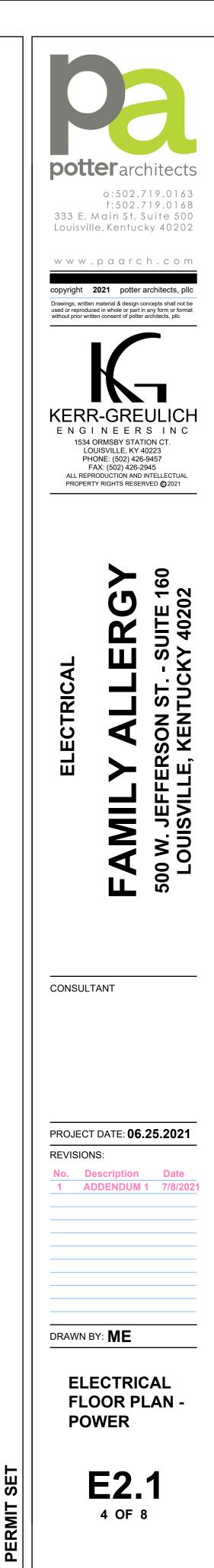


FIRST FLOOR PLAN - POWER SCALE: 1/8"=1'-0"

- 1. NEW PHONE/DATA SERVICE ENTRANCE LOCATION. EXTEND CONDUIT AND WIRE TO NEW LOCATION.
- CONCEAL ALL CONDUIT WIRE WITHIN CASEWORK. MONITOR AND SCANNING DEVICE - ROUTE POWER THROUGH WALL AND PLUG INTO 3.
- RECEPTACLE BELOW DESK ON OTHER SIDE OF WALL. 4. DEMO ANY ADDITIONAL OUTLETS IN WALLS BEING DEMOLISHED IN THIS AREA.
- 5. ALTERNATE BID PANEL REFER TO SINGLE LINE DIAGRAM. 6. FIELD VERIFY EXISTING PANEL 'FA' LOCATION. EXISTING PANEL TO BE REDEDICATED TO
- TENANT SPACE. 7. ROUTE CIRCUIT THRU TIMECLOCK AND CONTACTOR 'C2'. REFER TO LIGHTING CONTROL SEQUENCE OF OPERATION.

GENERAL NOTES:

- A. ALL DEVICES AND JUNCTION BOXES SHALL BE ACCESSIBLE. PROVIDE ACCESS PANEL AS REQUIRED WITH PRIOR APPROVAL OF ARCHITECT.
- WHERE MORE THAN ONE SWITCH OR DIMMER OCCURS AT A LOCATION, GANG THE SWITCHES TOGETHER WITH A COMMON JUNCTION BOX AND FACE PLATE.
- C. NOT MORE THAN THREE LIGHTING OR RECEPTACLE CIRCUITS OR A MAXIMUM OF THREE 20A BRANCH CIRCUIT CAN BE COMBINED IN A COMMON HOMERUN WITH SEPARATE NEUTRALS FOR A TOTAL OF SIX CURRENT CARRYING CONDUCTORS IN ONE CONDUIT, UNLESS OTHERWISE INDICATED.
- D. PROVIDE CONDUIT SLEEVES FOR CABLE ROUTING, AS NECESSARY, IN WALLS, FLOORS AND CEILINGS.
- PROVIDE A TYPED LEDGER/CIRCUIT DIRECTORY IN PANELBOARD INDICATING TYPE OF LOAD AND LOCATION FOR EACH BRANCH CIRCUIT BREAKER. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS & DISCONNECT SWITCHES, UNLESS OTHERWISE NOTED.
- ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTOR.
- G. ALL RECEPTACLES LOCATED WITHIN 6'-0" OF A SINK SHALL BE GFCI RATED RECEPTACLE.
- H. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.
- ALL NORMAL POWER DEVICES SHALL BE WHITE WITH WHITE COVERPLATE, UNLESS NOTED OTHERWISE.
- J. CONDUIT SIZE SHALL BE 3/4" MINIMUM.
- K. PROVIDE LABELING FOR ALL JUNCTION BOXES INDICATING CIRCUITING INFORMATION.
- WHERE OUTLETS ARE LOCATED APPROXIMATELY BACK-TO-BACK ON OPPOSITE SIDES OF A PARTY WALL, THE OUTLETS SHALL NOT BE INSTALLED IN THE SAME STUD SPACE, BUT SHALL BE SEPARATED BY A MINIMUM OF ONE STUD.
- M. ALIGN ALL THERMOSTATS NEXT TO SWITCHES AT 48" A.F.F. COORDINATE WITH MECHANICAL CONTRACTOR. IF A THERMOSTAT IS NEEDED WHERE A SWITCH DOES NOT OCCUR, COORDINATE LOCATION WITH ARCHITECT.
- N. TELEPHONE, FIRE ALARM, DATA, COMMUNICATIONS AND OTHER LOW VOLTAGE WIRING SHALL BE PLENUM RATED IF CONDUCTORS PASS THROUGH AN AIR PLENUM.
- O. PROVIDE PULL WIRE IN EACH EMPTY RACEWAY.
- PROVIDE RUBBER GROMMETS AT THE END OF ALL EMPTY CONDUITS FOR DATA. SEE PLANS FOR CONDUIT SIZES.
- Q. XRAY SLAB FOR ANY FLOOR PENETRATIONS PRIOR TO WORK. MINIMIZE DOWNTIME AND DISRUPTION TO OTHER SPACES.



PERMIT

				PROV METE EXIST RELOO PANEI REQU PROV NEW F	IDE EM RNEW ING PA CATE A L(S) AS IRED F IDE NE PANEL.	ION M TEN NEL NY E DIRE OR N W 10	IETER MA ANT PANE TO BE DEI XISTING L ECTED BY EW CIRCU DA/3P BRE	CEYN TCHING EXIS DICATED TO ANDLORD C LANDLORD. JITS. LABEL I AKER IN EXIS	STING BU TENANT IRCUITS PROVIDE PANEL 'F, ISTING P/	ILDIN SPAC TO NE E NEW A'.	G SY: CE. EC EARB / BRE		\sim	1. LUGS/TEFTRANSFO 2. PROVIDE 3. ALL FEED CARRYING 4. AMPACATI 5. REFER TO 6. AMPS INT LEVELS TO 7. PROVIDE L	RMINAL RMERS "HACR PER SIZ G CONI IES BA D FEED CERRUI O BE C LAMAC	S FOR PA S ARE TO I TRATED E ES ARE B/ DUCTORS. SED UPON ER SCHEI PTING CAF OORDINA OID LABEI	NELBO, BE RAT BREAKE ASED U I N.E.C. DULE TI PACITY FED WI LING FC	EXAMPLE 2015 CONTRACT ON THE SAME AND	
	~~~~			~~~~	$\sim$	$\sim$	~~~~			$\sim$	$\frown$	~~~~	~~~~	PROVIDE I 9. ELECTRIC/ RISER DIA 10. ALL COND OVER. ALL 11. REFER TO 12. FOR ELEC 13. ABB IS OU	LABELS AL COM GRAM DUCTOL BUSB "HVAC TRICAL R BASI	S PER NFP ITRACTOF WITH TYPI RS SHALL ARS IN SV : / PLUMBII . EQUIPME S OF DESI	A-70-11 E SHALL E WRIT BE COF VITCHB NG EQL ENT AIC GN FOI	WARNING FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT AND 0-110.16 AND NFPA-70E REQUIREMENTS. ALL UPDATE ALL PANEL SCHEDULES WITH-IN PANELS LISTED ON RITTEN DIRECTORIES. COPPER. ALUMINUM CONDUCTORS FOR ALL FEEDERS 100A AND HBOARDS AND PANELBOARDS SHALL BE ALUMINUM. EQUIPMENT SCHEDULE" FOR ADDITIONAL SCOPE OF WORK. AIC RATING, SEE PANEL SCHEDULE SHEET. FOR THE FOOTPRINT OF PANELBOARDS, DISTRIBUTION L DISTRIBUTION PANEL SHOWN.	
PANEL	·		FA	VOL	TAGE:	120		L SCHE	DULE		•	PHAS	E: 3			WIRE:	4		]
AIC:	OF MAIN:		- MCB IGHTING[L] RECEPTACLE[R] EQUIP	MENT [EQ	<u>2] кіт</u>		INTING:	EXISTING SURFACE C. HEAT [EH] CE/SPARE [	] ELEC. (					HC] CONTINUOUS [CL	-]				
скт. NO.	BRKR OPTION S			CIR WATTS	5 A	KR P	A	LOAD	C	BF P			S SERVICE	DESCRIPTION		BRKR OPTION S	CKT. NO.	т. э.	
1 3		-	FPT-101,103,104,105 OFFICE 112/R.R. RECEPT	400 900	20 20	1	1290	1448		1				ITING	L		2 4		ו
5 7			EXAM ROOM 110,111 EXAM ROOM 108,109	1440 1440		1	2640		2640	1			HAND DRYER		EQ EQ	GFCI GFCI			
9 11			EXAM ROOM 107 AND CORR. WORK	1080 1080		1		1880	1260	1	20 20				EQ R	GFCI	10 12	• <u>4</u>	
13		R	NURSE STATION RECEPTS	1080	20	1	1880			1	20	800	REFRIGERATOR		EQ		14	4	
15 17			DESK 101 RECEPTS TIME CLOCK/CONTACTOR	900 100	20 20	1		1700	1300	1 1					EQ		16 18		
19 21		SP SP	SPARE		30	3	360	900		1				RECEPTS	R R	LO	20 22		
23		SP	-		-	-			740	1					R		24		
25 27			SPARE SPARE		20 20	1				1			SPARE SPARE		SP SP		26 28		•
29			SPARE		20	1				1			SPARE		SP		30		
31 33		SP	-		-	2				2	-		-		SP SP		32		י י
35 37		SP SP	SPARE		20	2				2	20 -		SPARE		SP SP		36 38	-	
39		SP	SPARE		20	2				2	20		SPARE		SP		40		
41 DEMA	ND CALCU	SP	- 			-	6170	5928	5940	-	-		-		SP		42	2	
EEN. R QUIP (ITCH LEC. LEC.	ING [L] REC. [R] MENT [EQ EN [K] HEAT [EH] COOL [EC & COOL [H NUOUS [C	 ]  c]	2638W x 125% = (10200W -10KW)/2+10KW = 5200W x 100% = AS - POWERLINK AS BREAKER LO - HANDLE LOCK-ON DEVICE ST - SHUNT TRIP TYPE AUX - AUXILIARY CONTACTS EX - SHALL REUSE EXISTING CIRCUIT R - REMOVE EXISTING CIRCUIT	= 10100 = 5200 V	W N			TOTAL LOAI	D LOAD: ID LOAD:		GFC HAC SF - ACF	R - HEA SUBFEE - ARC F	W JND FAULT CIRCUIT FING, A/C & REFRIO	GERATION		50.07 A 51.62 A			 
_															>	RICAL 200A MCB 120/208V   3PH, 4W	ROC	SECOND FLOOR FAMILY ALLERGY TENANT SPACE	
						<u> </u>	. –				<u> </u>		BASE B		RIC	AL (		NE-LINE DIAGRAM	

### CAL NOTES:



BID

	FI	EEDER SCHEDULE										
TAG	EQUIPMENT	FEEDER DESCRIPTION (THWN/THHN COPPER)	EQPT. GRD.	CONDUIT SIZE								
1	PANEL A	(4) #1	(1) #8	1-1/2"								
NOTE	NOTES:											
l		T ACCOUNT FOR VOLTAGE DROP.										
2. \	WHERE PARALLEL RUNS ARE	INDICATED, INSTALL THE EQUIPMENT	GROUND LISTED IN	EACH RUN.								

CKT	F MAIN: BRKR DPTION S	ТҮРЕ		IENT [EQ	] кіт		E: UNTING:		-				
CKT. NO. C 1 3 5 7 9 11 13	BRKR	TYPE EQ R	IGHTING [L] RECEPTACLE [R] EQUIPM		] кіт		JINT ING:	SUPPACE	-				
CKI.   C     1   3     3   -     5   -     7   -     9   -     11   -     13   -	<b>PTION</b>	EQ R		CTR		CHEI		C. HEAT [EI	H] ELEC. C	OOL	ING [E	C] HEAT	TING & COOLING [HC]
CK1.   C     1   3     3   5     7   9     11   13	<b>PTION</b>	EQ R			BR		SPA	CE/SPARE	[SP]	P	RKR		1
3 5 7 9 111 13		R		WATTS	A	P	A	B	С	P	A	CIR WATTS	SERVICE DES
5 7 9 11 13			FPT-101,103,104,105	400	20	1	1290			1	20	890	LIGHTING
7 9 11 13		ь	OFFICE 112/R.R. RECEPT	900	20	1		1448		1	20	548	CORRIDOR LIGHTIN
9 11 13		<b>N</b>	EXAM ROOM 110,111	1440	20	1			2640	1	20	1200	HAND DRYER
11 13		R	EXAM ROOM 108,109	1440	20	1	2640			1	20	1200	MICROWAVE
13		R	EXAM ROOM 107 AND CORR. WORK	1080	20	1		1880		1	20	800	REFRIGERATOR
		R	NURSE STATION RECEPTS	1080	20	1			1260	1	20	180	BREAK ROOM RECE
15		R	NURSE STATION RECEPTS	1080	20	1	1880			1	20	800	REFRIGERATOR
		R	DESK 101 RECEPTS	900	20	1		1700		1	20	800	REFRIGERATOR
17		R	TIME CLOCK/CONTACTOR	100	20	1			1300	1	20	1200	SIGNAGE
19			SPARE		20	1	360			1	20	360	PHONE BOARD
21			SPARE		20	1		900		1	20	900	INJECTION 103 REC
23			SPARE		20	1			740	1	20	740	WAITING, SCALE, D
25			SPARE		20	1			740	1	20	/40	SPARE
27			SPARE		20	1				1	20		SPARE
29			SPARE		20	1				1	20		SPARE
31			SPARE		20	1				1	20		SPARE
33			SPARE		20	1				1	20		SPARE
35			SPARE		20	1				1	20		SPARE
37			SPARE		20	1				1	20		SPARE
39			SPARE		20	1				1	20		SPARE
41			SPARE		20	1				1	20		SPARE
DEMAN LIGHTII	D CALCI	JLATIC	2638W x 125% =		TOTA	LS:	6170	5928 TOTAL LOA	5940				т
GEN. RE EQUIPM KITCHE ELEC. H	C. [R] IENT [EQ	]	(10200W -10KW)/2+10KW = 5200W x 100% =					CONNECTI DEMA	ED LOAD: ND LOAD:			L8038 W L8598 W	
HEAT &	COOL [EC	IC]	AS - POWERLINK AS BREAKER LO - HANDLE LOCK-ON DEVICE ST - SHUNT TRIP TYPE				BRE	AKER OPT	IONS:		HACF		ND FAULT CIRCUIT INT
			AUX - AUXILIARY CONTACTS EX - SHALL REUSE EXISTING CIRCUIT R - REMOVE EXISTING CIRCUIT	BREAKER							ACF ·	ARC FA	ULT BREAKER NEW CIRCUIT BREAKE

