

RFI #1

Question - Sheet AD1.0 states that the electrical service is to be relocated to the adjacent tenant, while sheet E301 appears to show the existing service and panel HA being reused. Please confirm the intended service-relocation scope.

Answer - See attached, the existing service will be removed and moved to the adjacent tenant, which will be done by the landlord

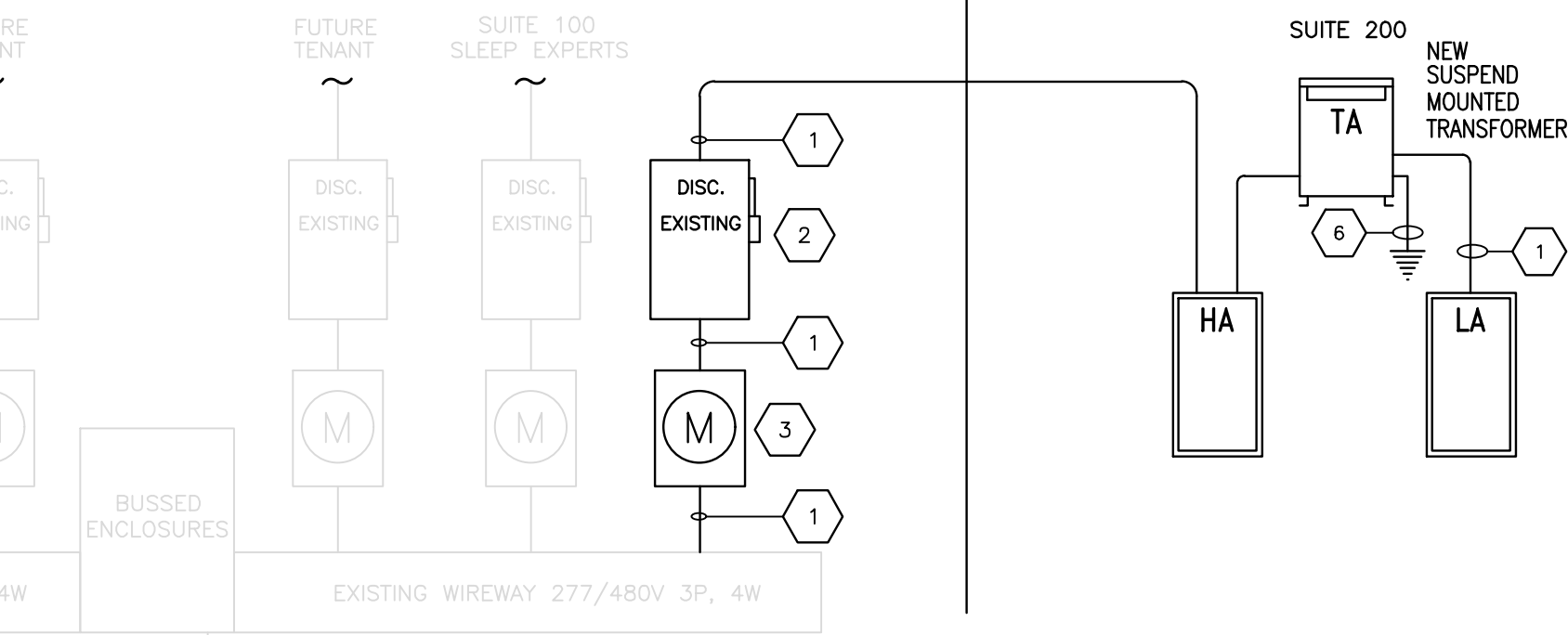
GENERAL NOTES

- A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2"x3" IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- CONTRACTOR TO VERIFY EXISTING WIREWAY LOAD PRIOR TO CONNECT NEW LOAD. TOTAL LOAD SHALL NOT EXCEED MAXIMUM CAPACITY OF WIREWAY.
- PAIN TO MATCH REAR OF BUILDING.

KEYED NOTES

- 4 #4/0 AWG WITH #6 GND IN 2" CONDUIT.
- PROVIDE 200A/3P NEMA 3R DISCONNECT SWITCH AS PER LOCAL UTILITY COMPANY.
- PROVIDE AND INSTALL METER BASE WITH METER PER LOCAL ELECTRICAL UTILITY'S AND BUILDING'S REQUIREMENTS. PANEL AND DISCONNECT SHALL HAVE LABELED WITH THE SUITE NUMBER.
- PROVIDE #6 GROUNDING CONDUCTOR FOR GROUNDING. CONNECTION SHALL BE PER N.E.C.
- PROVIDE ONE 1-1/2 INCH CONDUIT WITH PULL STRING FOR TELEPHONE SERVICE.

EXTERIOR INTERIOR



1 ELECTRICAL ONE LINE DIAGRAM

SCALE: NONE

ELECTRICAL LOAD ANALYSIS														
VOLT P-P 480 VOLT P-L 277 PHASE 3 WIRE 4					PROJECT: CHOCOLATE BASH SPACE SQUARE FOOTAGE: 1,400									
DESCRIPTION	CONNECTED LOAD					NEC CALCULATED LOAD					FACTOR	DESCRIPTION		
	VA	BA	BB	BC	N	KVA	BA	BB	BC	N				
A/C REFRIGERATION	42733	51.4	51.4	51.4	51.4	42.73	51	51	51	51	1.00	LESS THAN HEAT		
ELECTRIC HEAT											1.00	ELECTRICAL HEAT		
INDOOR LIGHTING	1362	1.6	1.6	1.6	1.6	1.7	2.0	2.0	2.0	2.0	1.25	125% OF CONNECTED		
KITCHEN EQUIPMENT											0.65	NO COMMERCIAL KITCHEN		
MISCELLANEOUS CONTINUOUS											1.25	125% OF CONTINUOUS		
MISCELLANEOUS MOTORS											1.25	125% OF THE LARGER OF CONNECTED OR TABLE 220-3(a)		
MISCELLANEOUS NON-CONTINUOUS	27828	33.5	33.5	33.5	33.5	27.8	33.5	33.5	33.5	33.5	1.00	100% OF CONNECTED		
OUTDOOR LIGHTING	250	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	1.25	125% OF CONNECTED		
RECEPTACLES	900	1.1	1.1	1.1	1.1	0.9	1.1	1.1	1.1	1.0	100%DEMND	NEC TABLE 220-13		
WATER HEATING	4500	5.4	5.4	5.4	5.4	4.5	5.4	5.4	5.4	5.4	1.00	100% OF CONNECTED		
EXISTING DEMAND											1.25	MAXIMUM RECORDED DEMAND		
25% LARGEST MOTOR											0.25	25% OF LARGEST MOTOR ADDED		
TOTAL						78.0	93.8	93.8	93.8	93.8	AMP			
CAPACITY						166.3	200.0	200.0	200.0	200.0	AMP			
SPARE CAPACITY						88.3	106.2	106.2	106.2	106.2	AMP			

LIGHTING PANELBOARD															PANEL															HA														
200 AMP MCB 480 VOLT P-P 277 VOLT P-N															3 PHASE 4 WIRE 22K A/C INTERRUPT RATING															ENCLOSURE TYPE: NEMA 1R MOUNTING TYPE: SURFACE GROUND BUS BAR: YES														
LOAD TYPE	LOAD DESCRIPTION	LOAD (VA)	LOAD (AMP)				CABLE SIZE	BREAKER				CABLE SIZE	LOAD (AMP)				LOAD (VA)	LOAD DESCRIPTION	LOAD TYPE																									
			BA	BB	BC	(N)		AMP	P	Q	W		BA	BB	BC	(N)																												
SF	TRANSFORMER TA	45000	54.1				#4	70	/3	1	2	40	/3	#8	25.7		21367	RTU-01	AC																									
SF	----			54.1			#4		3	4				#8		25.7		----	AC																									
SF	----				54.1		#4			5	6			#8			25.7		AC																									
	SPARE							20	/1	7	8	40	/3	#8	25.7		21367	RTU-02	AC																									
	SPARE							20	/1	9	10			#8		25.7			AC																									
	SPARE							20	/1	11	12			#8			25.7		AC																									
	SPACE							20	/1	13	14	20	/1						SPACE																									
	SPACE							20	/1	15	16	20	/1						SPACE																									
	SPACE							20	/1	17	18	20	/1						SPACE																									

CONNECTED LOADS						
TYPE	DESCRIPTION	(VA)	BA	BB	BC	(N)
AC	A/C REFRIGERATION	42.73	51.4	51.4	51.4	51.4
EH	ELECTRIC HEAT					
IL	INDOOR LIGHTING					
KE	KITCHEN EQUIPMENT					
MC	MISCELLANEOUS CONTINUOUS					
MM	MISCELLANEOUS MOTORS					
NC	MISCELLANEOUS NON-CONTINUOUS					
OL	OUTDOOR LIGHTING					
RE	RECEPTACLES					
WH	WATER HEATING					
EX	EXISTING DEMAND					
SF	SUB-FEED PANEL	45.00	54.1	54.1	54.1	54.1
	LARGEST MOTOR					
	TOTAL PHASE CONNECTED LOAD	87.73	105.5	105.5	105.5	

NEC COMPUTED DEMAND LOADS									
FCR	BA	BB	BC	(N)	(VA)	DESCRIPTION	TYPE		
1.00	51.4	51.4	51.4	51.4	42.73	A/C REFRIGERATION	AC		
1.00						ELECTRIC HEAT	EH		
1.25						INDOOR LIGHTING	IL		
0.65						KITCHEN EQUIPMENT	KE		
1.25						MISCELLANEOUS CONTINUOUS	MC		
1.00						MISCELLANEOUS MOTORS	MM		
1.00						MISCELLANEOUS NON-CONTINUOUS	NC		
1.25						OUTDOOR LIGHTING	OL		
						RECEPTACLES (NEC TABLE 220-44)	RE		
1.00						WATER HEATING	WH		
1.25						EXISTING DEMAND	EX		
1.00	54.1	54.1	54.1	54.1	45.00	SUB-FEED	SF		
0.25						LARGEST MOTOR			
	105.5	105.5	105.5	105.5	87.7	TOTAL PHASE DEMAND LOAD			

LIGHTING PANELBOARD															PANEL										LA														
175 AMP MCB 208 VOLT P-P 120 VOLT P-N															3 PHASE 4 WIRE 10K A/C INTERRUPT RATING															ENCLOSURE TYPE: NEMA 1R MOUNTING TYPE: SURFACE GROUND BUS BAR: YES									
LOAD TYPE	LOAD DESCRIPTION	LOAD (VA)	LOAD (AMP)				CABLE SIZE	BREAKER AMP	P	Q	W	CABLE SIZE	LOAD (AMP)				LOAD (VA)	LOAD DESCRIPTION	LOAD TYPE																				
		(VA)	BA	BB	BC	(N)							BA	BB	BC	(N)																							
NC	ICE MAKER	420	3.5				#12	15	/1	1	2	50	/2	#6	38.0			7900	DOUBLE CREPE MAKER	NC																			
NC	ICE CREAM FREEZER	480		4.0			#12	20	/1	3	4							----		NC																			
NC	PREP BAR FRIDGE COUNTERTOP	168			1.4	1.4	#12	20	/1	5	6	20	/2	#12		7.7		1600	SINGLE LEDGE WAFFLE MAKER	NC																			
NC	SINGLE BELGIAN WAFFLE MAKER	1200	10.0				#12	20	/1	7	8				7.7					NC																			
NC	WAFFLE BALL MAKER	1500		12.5			#12	20	/1	9	10	20	/1	#12		11.5		1380	BLENDER	NC																			
NC	TOPPINGS WARMER	1200			10.0		#12	20	/1	11	12	20	/1	#12			11.5	1380	BLENDER	NC																			
NC	CHOCOLATE MELTING POT	180	1.5			1.5	#12	20	/1	13	14	20	/2	#12	2.6			550	ESPRESSO GRINDER	NC																			
NC	TOPPINGS WARMER SQUEEZE	504		4.2			#12	20	/1	15	16				2.6			----		NC																			
NC	BAKERY CASE DISPLAY	540			4.5	4.5	#12	20	/1	17	18	30	/1	#10		16.7		2000	ESPRESSO MACHINE	NC																			
NC	REFRIGERATOR	516	4.3				#12	20	/1	19	20	20	/1	#12	11.0		11.0	1320	SINGLE BURNER	NC																			
NC	MICROWAVE	996		8.3		8.3	#12	20	/1	21	22	20	/1	#12		12.0		1440	CORREE URN	NC																			
NC	POS SYSTEM	600			5.0		#12	20	/1	23	24	20	/1	#12			4.8	576	CHOCOLATE FOUNTAIN	NC																			
NC	ET-01	694	5.8				#12	20	/1	25	26	20	/1	#12	3.4		3.4	408	CHOCOLATE FOUNTAIN	NC																			
IL	LIGHTING	1362		11.4		11.4	#12	20	/1	27	28	20	/1	#12		2.3		276	UC REFRIGERATOR	NC																			
OL	STORE FRONT SIGN	250			2.1		#12	20	/1	29	30	20	/1	#12			7.5	900	RECEPTACLES	RE																			
IL	DRIPPING DESIGN LED LIGHTS	650	5.4			5.4	#12	20	/1	31	32	30	/3	#10	12.5			4500	ELECTRIC WATER HEATER	WH																			
NC	3 TV MENU	850		7.1		7.1	#12	20	/1	33	34							----		WH																			
	SPACE							20	/1	35	36					12.5																							
	SPACE							20	/1	37	38	20	/1					SPARE																					
	SPACE							20	/1	39	40	20	/1					SPARE																					
	SPACE							20	/1	41	42	20	/1					SPARE																					

C O N N E C T E D L O A D S							N E C C O M P U T E D D E M A N D L O A D S							
TYPE	DESCRIPTION	(VA)	BA	BB	BC	(N)	TCR	BA	BB	BC	(N)	(VA)	DESCRIPTION	TYPE
AC	A/C REFRIGERATION						1.00						A/C REFRIGERATION	AC
EH	ELECTRIC HEAT						1.00						ELECTRIC HEAT	EH
IL	INDOOR LIGHTING	2.01	5.4	11.4		11.4	1.25	6.8	14.2		14.2	2.52	INDOOR LIGHTING	IL
KE	KITCHEN EQUIPMENT						0.65						KITCHEN EQUIPMENT	KE
MC	MISCELLANEOUS CONTINUOUS						1.25						MISCELLANEOUS CONTINUOUS	MC
MM	MISCELLANEOUS MOTORS						1.00						MISCELLANEOUS MOTORS	MM
NC	MISCELLANEOUS NON-CONTINUOUS	28.68	87.8	102.5	61.6	102.5	1.00	87.8	102.5	61.6	102.5	28.68	MISCELLANEOUS NON-CONTINUOUS	NC
OL	OUTDOOR LIGHTING	0.25			2.1	2.1	1.25			2.6	2.6	0.31	OUTDOOR LIGHTING	OL
RE	RECEPTACLES	0.90			7.5	7.5	1.00			7.5	7.5	0.90	RECEPTACLES (NEC TABLE 220-44)	RE
WH	WATER HEATING	4.50	12.5	12.5	12.5	12.5	1.00	12.5	12.5	12.5	12.5	4.50	WATER HEATING	WH
EX	EXISTING DEMAND						1.25						EXISTING DEMAND	EX
SF	SUB-FEED						1.00						SUB-FEED	SF
	LARGEST MOTOR						0.25						LARGEST MOTOR	
TOTAL PHASE CONNECTED LOAD		36.34	105.7	126.3	83.6	126.3		107.1	129.2	84.2	129.2	36.91	TOTAL PHASE DEMAND LOAD	