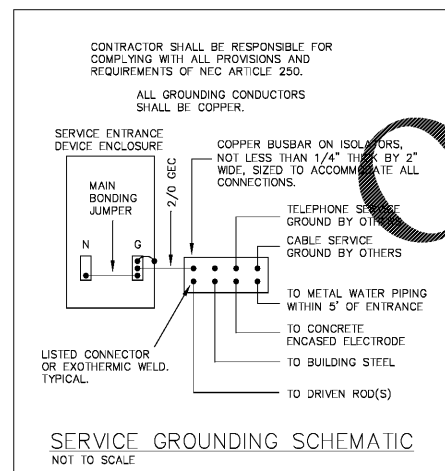


MOUNTING:		PANEL - M										MAIN BUS										
FLUSH		120 \ 208 VOLTS										400A										
		3 PHASE 4 WIRE Y										400A										
												22K										
LOAD	VOLT AMPS			L	R	H	K	M	B	K	C	C	K	M	K	H	R	L	VOLT AMPS			LOAD
	φA	φB	φC																φA	φB	φC	
HEAT PUMP	5160								#4	70	1	2	150								10800	PANEL "A"
HEAT PUMP	5160								#4	70	3	4	80	#4							13370	PANEL "B"
HEAT PUMP	5160								#4	70	5	6	80	#4							4430	PANEL "C"
FACE LOCK-ON									#12	20	13	14	50	#8							2760	
EXT LITS (DUSK TO DAWN)									#12	20	15	16	*	*							2780	
EXT LITS (TIMER LOCK)									#12	20	17	18	*	*							4120	
SPACE											19	20										
											21	22										
											23	24										
											25	26										
											27	28										
											29	30										
											31	32										
											33	34										
											35	36										
											37	38										
											39	40										
											41	42										
VOLT - AMPS PER PHASE		φA			29160			φB			30880			φC			32370					
AMPS PER PHASE		243						257						270								
TOTAL VOLT - AMPS =		92410			AMPS =			256.69			LCL =											
AVAILABLE FAULT CURRENT TO BE DETERMINED IN COOPERATION WITH DUKE ENERGY BEFORE PURCHASING EQUIPMENT																						
NOTES:																						

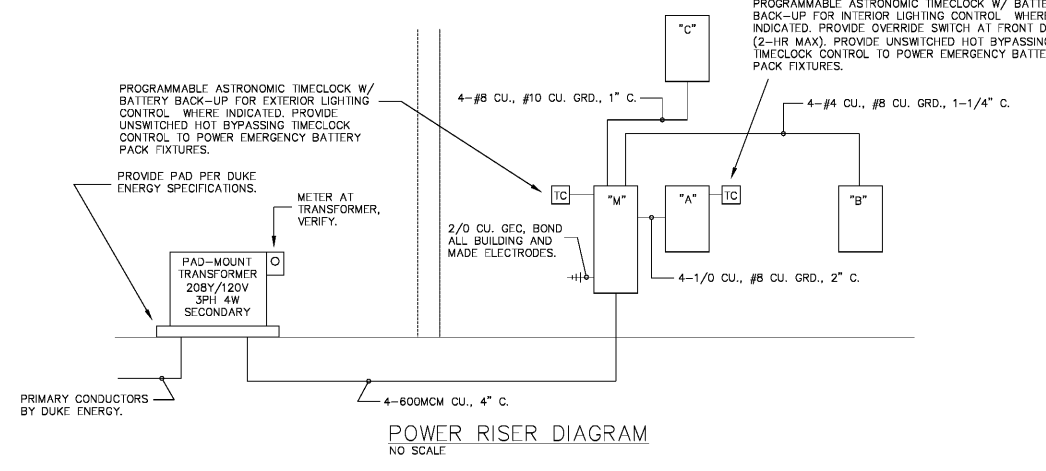
MOUNTING:		PANEL - A										MAIN BUS										
FLUSH		120 \ 208 VOLTS										NONE										
		3 PHASE 4 WIRE Y										225A										
												22K										
LOAD	VOLT AMPS			L	R	H	K	M	B	K	C	C	K	M	K	H	R	L	VOLT AMPS			LOAD
	φA	φB	φC																φA	φB	φC	
SPARE											20	1	2	20	#12						180	REC AT RISE
REC		360									#12	20	3	4	20	#12					540	REC
REC			360								#12	20	5	6	20	#12					540	REC
REC		1620									#12	20	7	8	20	#12					900	REC
REC			1440								#12	20	9	10	20	#12					900	REC
REC				1080							#12	20	11	12	20	#12					900	REC
REC			1260								#12	20	13	14	20	#12					1440	REC
REC				1080							#12	20	15	16	20	#12					1620	REC
REC					1080						#12	20	17	18	20	#12					1500	REC
DISHWASHER REC		1200									#12	20	19	20	20	#12					720	REC
REC			1200								#12	20	21	22	20	#12					1080	REC
REF REC			1200								#12	20	23	24	20	#12					1500	REC
REC		1080									#12	20	25	26	20	#12					150	REC
EMC			500								#12	20	27	28	30	#10					2250	REC
REC				1260							#12	20	29	30	*	*					2250	REC
LTS/TIMELOCK		1150									#12	20	31	32	20							SPARE
LTS/TIMELOCK			1100								#12	20	33	34	20							SPARE
LTS/TIMELOCK				1100							#12	20	35	36	20							SPARE
LTS				1100							#12	20	37	38								SPARE
LTS				1300							#12	20	39	40								SPARE
LTS				1150							#12	20	41	42								SPARE
VOLT - AMPS PER PHASE		φA			10800			φB			13370			φC			13920					
AMPS PER PHASE		90						111						111								
TOTAL VOLT - AMPS =		38090			AMPS =			105.81			LCL =											
AVAILABLE FAULT CURRENT TO BE DETERMINED IN COOPERATION WITH DUKE ENERGY BEFORE PURCHASING EQUIPMENT																						
NOTES:																						



**SERVICE AND FEEDER LOAD SUMMARY**

GROSS SQUARE FOOTAGE = 10,439

LOAD	QUANTITY	RATE	LOAD (VA)	DEMAND FACTOR	DEMAND LOAD (VA)
LIGHTING	10,439 SF	3.0 VA/SF	31,317	1.25	39,147
EXT. LIGHTING	NA	NA	1,500	1.25	1,875
RECEPTACLES	165	180VA/REC	10,000	1.00	10,000
			19,700	0.50	29,700
HVAC	NA	NA	37,920	1.00	9,850
EMH	1	NA	4,500	1.00	4,500
MISC.	NA	NA	10,000	1.00	10,000
TOTAL			105,072		
AMPERAGE @ 120/208V 3PH 4W			292A		
SERVICE CONDUCTOR AND GEAR AMPACITY SPECIFIED			400A		



**PANEL SCHEDULES & RISER**  
NO SCALE

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MOUNTING:		PANEL - B										MAIN BUS										
FLUSH		120 \ 208 VOLTS										NONE										
		3 PHASE 4 WIRE Y										100A										
												22K										
LOAD	VOLT AMPS			L	R	H	K	M	B	K	C	C	K	M	K	H	R	L	VOLT AMPS			LOAD
	φA	φB	φC																φA	φB	φC	
REC		900									#12	20	1	2	20	#12					1500	REC
REC			1260								#12	20	3	4	20	#12					1500	REC
REC				1080							#12	20	5	6	20	#12					1440	REC
REC		360									#12	20	7	8	20	#12					1260	REC
REC			360								#12	20	9	10	20	#12					1260	REC
REC				390							#12	20	11	12	20	#12					1080	REC
REC		390									#12	20	13	14	20	#12					900	REC
AH-12			50								#12	20	15	16	20	#12						SPARE
											#12	20	17	18	20	#12						SPARE
SPARE											20	19	20	20	#12							SPARE
SPARE											20	21	22	20	#12							SPARE
SPARE											23	24	24	20	#12							SPARE
											25	26	26	20	#12							SPARE
											27	28	28	20	#12							SPARE
											29	30	30	20	#12							SPARE
VOLT - AMPS PER PHASE		φA			5280			φB			4430			φC			4000					
AMPS PER PHASE		44						37						33								
TOTAL VOLT - AMPS =		13720			AMPS =			38			LCL =											
AVAILABLE FAULT CURRENT TO BE DETERMINED IN COOPERATION WITH DUKE ENERGY BEFORE PURCHASING EQUIPMENT																						
NOTES:																						

MOUNTING:		PANEL - C										MAIN BUS										
FLUSH		120 \ 208 VOLTS										NONE										
		3 PHASE 4 WIRE Y										100A										
												22K										
LOAD	VOLT AMPS			L	R	H	K	M	B	K	C	C	K	M	K	H	R	L	VOLT AMPS			LOAD
	φA	φB	φC																φA	φB	φC	
DEHUMIDIFIER REC		1200									#12											