PANEL: **1P1-L** LEFT SECTION BY: MSM
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 42,000 JOB # 18102
SURFACE MOUNTED, 225 AMP MAIN LUGS ONLY NEUTRAL SIZE AMPS 125 CHECKED BY: EDB DATE: 8/20/2018

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
O	1.0			AUTODOOR	12	20	1	1	2	1	20	12	REC-EXTERIOR	1.0			L	1.0					1.0	
O		1.0		AUTODOOR	12	20	1	3	4	1	20	12	REC-EXTERIOR		0.8		L	0.8					1.0	
				SPARE		20	1	5	6	1	20	12	GAS FIREPIT			0.5	O						0.5	
				SPARE		20	1	7	8	1	20	12	REC-ATM	0.2			R		0.2					
				SPARE		20	1	9	10	1	20		SPARE											
				SPARE		20	1	11	12	1	20		SPARE											
				SPARE		20	1	13	14					1.0			M			1.0				
				SPARE		20	1	15	16	3	20	12	DRYER		1.0		M			1.0				
				SPARE		20	1	17	18							1.0	M			1.0				
				SPARE		20	1	19	20	1	20	12	REC-BATHROOM	0.6			R		0.6					
				SPARE		20	1	21	22	1	20	12	REC-EXTERIOR		0.4		R		0.4					
				SPARE		20	1	23	24	1	20	12	REC-OFFICE			1.0	R		1.0					
				SPARE		20	1	25	26	1	20	12	SPARE											
R		1.0		REC-FITNESS EQUIP.	12	20	1	27	28	1	20	12	REC-ENGINEER		0.4		R		1.4					
R			1.0	REC-FITNESS EQUIP.	12	20	1	29	30	1	20	12	REC-ENGINEER			0.8	R		1.8					
O	2.0			DRYER	10	30	2	31	32	1	20	12	REC-FITNESS	0.8			R		0.8				2.0	
O		2.0						33	34	1	20	12	REC-WASHER		1.5		R		1.5				2.0	
O			2.0	DRYER	10	30	2	35	36	1	20	12	REC-WASHER			1.5	R		1.5				2.0	
O	2.0							37	38	1	20	12	REC-GUEST LAUNDRY	0.2			R		0.2				2.0	
M		1.0		PTAC	12	20	2	39	40	1	20	12	REC-FITNESS		1.0		R		1.0	1.0				
M			1.0	ENGINEER				41	42	1	20	12	REC-FITNESS EQUIP.			1.0	R		1.0	1.0				
	5.0	5.0	4.0					SUBTOTALS						3.8	5.1	5.6								
																		1.8	11.4	5.0			10.5	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	1.8	1.25	2.3
RECEPTACLES	10.0	1.00	10.0
RECEPTACLES	1.4	0.50	0.7
MOTORS	5.0	1.00	5.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	0.0	0.65	0.0
OTHER	10.5	1.00	10.5
SPARE	0.0	1.00	0.0
TOTAL	28.7		28.5

CALCULATIONS: SEE LOAD DATA SHOWN ON RIGHT SECTION.

NOTES:
1. TWO-SECTION PANELBOARD WITH 42 POLES PER SECTION. PRIVIDE SUB-FEED LUGS AND CABLE CONNECTION TO SECOND SECTION.
2. (L) - INDICATES TO PROVIDE A BREAKER WITH A HANDLE LOCKING DEVICE.

PANEL: **1P1-R** RIGHT SECTION BY: MSM
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 42,000 JOB # 18102
SURFACE MOUNTED, 225 AMP MAIN LUGS ONLY NEUTRAL SIZE AMPS 125 CHECKED BY: EDB DATE: 8/20/2018

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
O	3.0			COFFEE MAKER	8	40	2	43	44	1	20	12	RECEPTS	1.2			R		1.2				3.0	
O		3.0						45	46	1	20	12	RECEPT		0.2		R		0.2				3.0	
O			4.0	DISHWASHER	6	60	2	47	48	1	20	12	RECEPT			0.2	R		0.2				4.0	
O	4.0							49	50	1	20		SPARE										4.0	
R		0.2		REC-BREAK	12	20	1	51	52	1	20		SPARE						0.2					
R			0.2	REC-BREAK	12	20	1	53	54	1	20		SPARE						0.2					
R	1.5			REC-REF.	12	20	1	55	56	1	20		SPARE						1.5					
R		0.4		REC-WASHERS	12	20	1	57	58	1	20	12	REC-PANTRY		1.5		R		1.9					
R			0.2	REC-WASHERS	12	20	1	59	60	1	20	12	REC-PANTRY			0.6	R		0.8					
R	0.2			REC-WASHERS	12	20	1	61	62	1	20	12	REC-GATHERING	0.6			R		0.8					
R		0.2		REC-WASHERS	12	20	1	63	64	1	20	12	REC-BREAKFAST		0.6		R		0.8					
R			0.2	REC-DRYERS	12	20	1	65	66	1	20	12	REC-BREAKFAST			0.2	R		0.4					
R	0.2			REC-DRYERS	12	20	1	67	68	1	20	12	REC-BREAKFAST	0.2			R		0.4					
				SPARE		20	1	69	70	1	20	12	REC-BREAKFAST		0.2		R		0.2					
				SPARE		20	1	71	72	1	20	12	REC-BREAKFAST			0.2	R		0.2					
				SPARE		20	1	73	74	1	20	12	REC-BREAKFAST	0.2			R		0.2					
R		0.2		REC-MARKET	12	20	1	75	76	1	20	12	REC-BREAKFAST		0.2		R		0.4					
				SPARE		20	1	77	78	1	20	12	REC-BREAKFAST			0.2	R		0.2					
				SPARE		20	1	79	80	1	20	12	REC-BREAKFAST	0.2			R		0.2					
				SPARE		20	1	81	82	1	20	12	REC-BREAKFAST		0.6		R		0.6					
R			1.0	REC-GATHERING	12	20	1	83	84	1	20	12	RECEPTS			0.8	R		1.8					
	8.9	4.0	5.6					SUBTOTALS						2.4	3.3	2.2								
												1P1-R	LEFT SECTION					1.8	11.4	5.0			10.5	
												TOTALS	0.0	20.1	17.4	17.6		1.8	23.8	5.0			24.5	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	1.8	1.25	2.3
RECEPTACLES	10.0	1.00	10.0
RECEPTACLES	13.8	0.50	6.9
MOTORS	5.0	1.00	5.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	0.0	0.65	0.0
OTHER	24.5	1.00	24.5
SPARE	0.0	1.00	0.0
TOTAL	55.1		48.7

CALCULATIONS: 48.7 / 0.36 135.1 A
LOAD FROM LEFT SECTION INCLUDED.
NOTES:

PANEL: **1P2** BY: MSM
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 22,000 JOB # 18102
SURFACE MOUNTED, 125 AMP MAIN LUGS ONLY NEUTRAL SIZE AMPS 125 CHECKED BY: EDB DATE: 8/20/2018

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
M	1.0							1	2	1	20	12	REC-GATHERING	1.2			R		1.2	1.0				
M		1.0		DRYER	12	20	3	3	4	1	20	12	REC-GATHERING		0.4		R		0.4	1.0				
M			1.0					5	6	1	20	12	REC-GATHERING			0.6	R		0.6	1.0				
M	1.0							7	8	1	20	12	REC-GATHERING	0.8			R		0.8	1.0				
M		1.0		DRYER	12	20	3	9	10	1	20	12	DOOR OPENER		1.0		M			2.0				
M			1.0					11	12	1	20	12	DOOR OPENER			1.0	M			2.0				
M	1.0							13	14	1	20		SPARE							1.0				
M		1.0		WASHER	12	20	3	15	16	1	20	10	REC-TRASH		0.2		R		0.2	1.0				
M			1.0					17	18	1	20	12	LTG/REC-ELEV. SHAFT			0.5	L	0.5		1.0				
M	1.0							19	20	1	20	12	LTG/REC-ELEV. SHAFT	0.5			L	0.5		1.0				
M		1.0		WASHER	12	20	3	21	22	1	20	12	RECEPTS		0.8		R		0.8	1.0				
M			1.0					23	24	1	20		SPARE							1.0				
M	1.0							25	26	1	20		SPARE							1.0				
M		1.0		WASHER	12	20	3	27	28	1	20		SPARE							1.0				
M			1.0					29	30	1	20		SPARE							1.0				
M	0.6			ESP	12	20	1	31	32	1	20		SPARE							0.6				
M		0.6		ESP	12	20	1	33	34	1	20		SPARE							0.6				
H			1.0	WATER HEATERS	12	20	1	35	36	1	20		SPARE								1.0			
M	0.6			RECIRC PUMPS	12	20	1	37	38	1	20		SPARE							0.6				
				SPARE		20	1	39	40	1	20		SPARE											
				SPARE		20	1	41	42	1	20		SPARE											
	6.2	5.6	6.0					SUBTOTALS						2.5	2.4	2.3								
												TOTALS	0.0	8.7	8.0	8.3		1.0	4.2	18.8	1.0			

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	1.0	1.25	1.3
RECEPTACLES	4.2	1.00	4.2
RECEPTACLES	0.0	0.50	0.0
MOTORS	18.8	1.00	18.8
LARGEST MOTOR	0.0	1.75	0.0
HEAT	1.0	1.00	1.0
KITCHEN	0.0	0.65	0.0
OTHER	0.0	1.00	0.0
SPARE	0.0	1.00	0.0
TOTAL	25.0		25.3

CALCULATIONS: 25.3 / 0.36 70.1 A
NOTES:

PANEL: **1H** BY: MSM
120/208 VOLT: 3 Ø 4 WIRE, TYPE: NQOD AIC: 42,000 JOB # 18102
SURFACE MOUNTED, 225 AMP MAIN LUGS ONLY NEUTRAL SIZE AMPS 225 CHECKED BY: EDB DATE: 8/20/2018

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
M	4.6			AH-1	8	50	2	1	2					6.0			M			10.6				
M		4.6						3	4	3	80	6	BP-1		6.0		M			10.6				
M			4.9	AH-2	6	60	2	5	6							6.0	M			10.9				
M	4.9							7	8	2	20	12	EWH-1	1.0			H			4.9	1.0			
M		4.9		AH-3	6	60	2	9	10						1.0		H			4.9	1.0			
M			4.9					11	12	2	20	12	EWH-1			1.0	H			4.9	1.0			
M	4.9			AH-4	6	60	2	13	14					1.0			H			4.9	1.0			
M		4.9						15	16	1	20	12	EWH-2		1.0		H			4.9	1.0			
M			4.6	AH-5	8	50	2	17	18	1	20	12	FIRE SMOKE DAMPERS			0.5	O			4.6			0.5	
M	4.6							19	20	1	20	12	EWH-2	1.0			H			[illegible]	1.0			
				SPARE		20	1	21	22	1	20		SPARE											
				SPARE		20	1	23	24	1	20		SPARE											
				SPARE		20	1	25	26	1	20		SPARE											
				SPARE		20	1	27	28	1	20		SPARE											
				SPARE		20	1	29	30	1	20		SPARE											
				SPARE		20	1	31	32	1	20		SPARE											
				SPARE		20	1	33	34	1	20		SPARE											
				SPARE		20	1	35	36	1	20		SPARE											
				SPARE		20	1	37	38	1	20		SPARE											
				SPARE		20	1	39	40	1	20		SPARE											
				SPARE		20	1	41	42	1	20		SPARE											
	19.0	14.4	14.4					SUBTOTALS						9.0	8.0	7.5								
												TOTALS	0.0	28.0	22.4	21.9				65.8	6.0		0.5	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	65.8	1.00	65.8
LARGEST MOTOR	0.0	1.75	0.0
HEAT	6.0	1.00	6.0
KITCHEN	0.0	0.65	0.0
OTHER	0.5	1.00	0.5
SPARE	0.0	1.00	0.0
TOTAL	72.3		[illegible]

CALCULATIONS: [illegible] / 0.36 200.9 A
NOTES:

PANEL: **OL** BY: MSM
120/208 VOLT: [illegible] 4 WIRE, TYPE: NQOD AIC: 22,000 JOB # 18102
SURFACE MOUNTED, 125 AMP MAIN LUGS ONLY NEUTRAL SIZE AMPS 125 CHECKED BY: EDB DATE: 8/20/2018

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
L	0.7			LIGHTS-SITE	8	20	1	1	2	1	20	12	LIGHTS-EXTERIOR	1.3			L	2.0						
L		0.7		LIGHTS-SITE	8	20	1	3	4	1	20	12	LIGHTS-EXTERIOR		0.7		L	1.4						
L			[illegible]	SIGNAGE	10	20	1	5	6	1	20	12	LIGHTS-EXTERIOR			0.6	L	1.8						
L	1.2			SIGNAGE	10	20	1	7	8	1	20	10	LIGHTS-EXTERIOR	1.0			L	2.2						
L		1.5		SIGNAGE	10	20	1	9	10	1	20		SPARE					1.5						
L			0.7	LIGHTS-SITE	8	20	1	11	12	1	20		SPARE					0.7						
				SPARE		20	1	13	14	1	20		SPARE											
				SPARE		20	1	15	16	1	20		SPARE											
				SPARE		20	1	17	18	1	20		SPARE											
				SPARE		20	1	19	20	1	20		SPARE											
				SPARE		20	1	21	22	1	20		SPARE											
				SPARE		20	1	23	24	1	20		SPARE											
				SPARE		20	1	25	26	1	20		SPARE											
				SPARE		20	1	27	28	1	20		SPARE											
				SPARE		20	1	29	30	1	20		SPARE											
				SPARE		20	1	31	32	1	20		SPARE											
				SPARE		20	1	33	34	1	20		SPARE											
				SPARE		20	1	35	36	1	20		SPARE											
				SPARE		20	1	37	38	1	20		SPARE											
				SPARE		20	1	39	40	1	20		SPARE											
				SPARE		20	1	41	42	1	20		SPARE											
	1.9	2.2	1.9					SUBTOTALS						2.3	0.7	0.6								
												TOTALS	0.0	4.2	2.9	2.5		9.6						

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	9.6	1.25	12.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	0.0	0.65	0.0
OTHER	0.0	1.00	0.0
SPARE	0.0	1.00	0.0
TOTAL	9.6		12.0

CALCULATIONS: 12.0 / 0.36 33.4 A
NOTES:

PANEL: **MDPC** BY: MSM
120/208 VOLT: 3 Ø 4 WIRE, TYPE: I-LINE AIC: 65,000 JOB # 18102
SURFACE MOUNTED, 1000 AMP MAIN BREAKER NEUTRAL SIZE AMPS 1000 CHECKED BY: EDB DATE: 8/20/2018

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
O	22.2			PANEL "GB" STACK	4/0	225	2	1	2	2	125	1	PANEL "GA" STACK	12.4			O						34.6	
O		22.2		NOTE 4				3	4				NOTE 4		12.4		O						34.6	
O			22.2	PANEL "GB" STACK	4/0	225	2	5	6	2	125	1	PANEL "GA" STACK			12.4	O						34.6	
O	22.2			NOTE 4				7	8				NOTE 4	12.4			O						34.6	
O		3.0		CAR CHARGER	8	40	2	9	10	2	150	1/0	PANEL "GA" STACK		15.5		O						18.5	
O			3.0					11	12				NOTE 4			15.5	O						18.5	
O	3.0			CAR CHARGER	8	40	2	13	14	2	150	1/0	PANEL "GA" STACK	15.5			O						18.5	
O		3.0						15	16				NOTE 4		15.5		O						18.5	
				SPACE ONLY			1	17	18	2	150	1/0	PANEL "GA" STACK			15.5	O						15.5	
				SPACE ONLY			1	19	20				NOTE 4	15.5			O						15.5	
				SPACE ONLY			1	21	22	2	150	1/0	PANEL "GA" STACK		15.5		O						15.5	
				SPACE ONLY			1	23	24				NOTE 4			15.5	O						[illegible]	
				SPACE ONLY			1	25	26	2	150	1/0	PANEL "GA" STACK	15.5			O						[illegible]	
				SPACE ONLY			1	27	28				NOTE 4		15.5		O						15.5	
				SPACE ONLY			1	29	30	2	150	1/0	PANEL "GA" STACK			15.5	O						15.5	
				SPACE ONLY			1	31	32				NOTE 4	15.5										
				SPACE ONLY			1	33	34	1			SPACE ONLY											
				SPACE ONLY			1	35	36	1			SPACE ONLY											
				SPACE ONLY			1	37	38	1			SPACE ONLY											
				SPACE ONLY			1	39	40	1			SPACE ONLY											
				SPACE ONLY			1	41	42	1			SPACE ONLY											
	47.4	28.2	25.2					SUBTOTALS						86.8	[illegible]	74.4								
												TOTALS		134.2	[illegible]	99.6							336.4	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	[illegible]
KITCHEN	0.0	0.65	0.0
OTHER	336.4	1.00	336.4
SPARE	0.0	1.00	[illegible]
TOTAL	336.4		[illegible]

CALCULATIONS: [illegible] / 0.36 934.4 A

NOTES:
1. PANEL SHALL BE U.L. LISTED FOR SERVICE ENTRANCE.
2. 100% RATED MAIN BREAKER.
3. LABEL "SERVICE DISCONNECT #3 OF 3"
4. SEE STACK LOAD JUSTIFICATION THIS SHEET.
5. PROVIDE AN INTEGRAL ENERGY REDUCTION MAINTANANCE SETTING SWITCH WITH ALL INTERNAL CONNECTIONS TO THE MAIN AND BRANCH BREAKERS FOR ARC ENERGY REDUCTION.
6. PROVIDE AN INTEGRAL 200kA SURGE PROTECTION DEVICE.

PANEL: **MDPB** BY: MSM
120/208 VOLT: 3 Ø [illegible] TYPE: I-LINE AIC: 65,000 JOB # 18102
SURFACE MOUNTED, [illegible] BREAKER NEUTRAL SIZE AMPS 1000 CHECKED BY: EDB DATE: 8/20/2018

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
O	12.4			PANEL "GA" STACK	1	125	2	1	2	2	125	1	PANEL "GA" STACK	12.4			O						24.8	
O		12.4		NOTE 5				3	4				NOTE 5		12.4		O						24.8	
O			12.4	PANEL "GA" STACK	1	125	2	5	6	2	125	1	PANEL "GA" STACK			12.4	O						24.8	
O	12.4			NOTE 5				7	8				NOTE 5	12.4			O						24.8	
O		12.4		PANEL "GA" STACK	1	125	2	9	10	2	125	1	PANEL "GA" STACK		12.4		O						24.8	
O			12.4	NOTE 5				11	12				NOTE 5			12.4	O						24.8	
O	12.4			PANEL "GA" STACK	1	125	2	13	14	2	125	1	PANEL "GA" STACK	12.4			O						24.8	
O		12.4		NOTE 5				15	16				NOTE 5		12.4		O						24.8	
O			12.4	PANEL "GA" STACK	1	125	2	17	18	2	125	1	PANEL "GA" STACK			12.4	O						24.8	
O	[illegible]			NOTE 5				19	20				NOTE 5	12.4			O						24.8	
O		12.4		PANEL "GA" STACK	1	125	2	21	22	2	125	1	PANEL "GA" STACK		12.4		O						24.8	
O			[illegible]	NOTE 5				23	24				NOTE 5			12.4	O						24.8	
O	12.4			PANEL "GA" STACK	1	125	2	25	26	2	125	1	PANEL "GA" STACK	12.4			O						24.8	
O		12.4		NOTE 5				27	28				NOTE 5		12.4		O						24.8	
				SPACE ONLY			1	29	30	1			SPACE ONLY											
				SPACE ONLY			1	31	32	1			SPACE ONLY											
				SPACE ONLY			1	33	34	1			SPACE ONLY											
				SPACE ONLY			1	35	36	1			SPACE ONLY											
				SPACE ONLY			1	37	38	1			SPACE ONLY											
				SPACE ONLY			1	39	40	1			SPACE ONLY											
				SPACE ONLY			1	41	42	1			SPACE ONLY											
	62.0	62.0	49.6					SUBTOTALS						62.0	62.0	49.6								
												TOTALS		124.0	124.0	99.2							347.2	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	0.0	0.65	0.0
OTHER	347.2	1.00	347.2
SPARE	0.0	1.00	0.0
TOTAL	347.2		347.2

CALCULATIONS: 347.2 / 0.36 964.4 A

NOTES:
1. PANEL SHALL BE U.L. LISTED FOR SERVICE ENTRANCE.
2. 100% RATED MAIN BREAKER.
3. * - INDICATES 100% RATED BREAKER.
4. LABEL "SERVICE DISCONNECT #2 OF 3"
5. SEE STACK LOAD JUSTIFICATION THIS SHEET.
7. PROVIDE AN INTEGRAL ENERGY REDUCTION MAINTANANCE SETTING SWITCH WITH ALL INTERNAL CONNECTIONS TO THE MAIN AND BRANCH BREAKERS FOR ARC ENERGY REDUCTION.
8. PROVIDE AN INTEGRAL 200kA SURGE PROTECTION DEVICE.

PANEL: **MDPA** BY: MSM
120/208 VOLT: 3 Ø 4 WIRE, TYPE: I-LINE AIC: 65,000 JOB # 18102
SURFACE MOUNTED, 1200 AMP MAIN BREAKER NEUTRAL SIZE AMPS 1200 CHECKED BY: EDB DATE: 8/20/2018

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.	CIRCUIT NO.	POLES	TRIP AMPS	WIRE SIZE	REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE
	0.0							1	2					12.4			M			12.4				
		0.0		PANEL "OL"	3	100	3	3	4	3	175	2/0	MUA-1		12.4		M			12.4				
			0.0					5	6							12.4	M			12.4				
	28.0							7	8					12.4			M			12.4				
		22.4		PANEL "1H"	4/0	225	3	9	10	3	175	2/0	MUA-2		12.4		M			12.4				
			21.9					11	12							12.4	M			12.4				
	3.2							13	14					34.3										
		2.1		PANEL "2P"	3	100	3	15	16	3	400	2(3/0)	PANEL "ES"		33.8									
			0.9					17	18							34.5								
	3.2							19	20															
		2.1		PANEL "3P"	3	100	3	21	22	3			SPACE ONLY											
			0.9					23	24															
	13.3							25	26					11.1										
		12.7		PANEL "4P"	3/0	200	3	27	28	3	100	3	PANEL "P"		10.6									
			16.7					29	30							9.6								
	20.1							31	32															
		17.4		PANEL "1P1"	3/0	200	3	33	34	3	600		SOLAR PANELS											
			17.6					35	36															
	8.7							37	38															
		8.0		PANEL "1P2"	3	100	3	39	40	3			SPACE ONLY											
			8.3					41	42															
	76.5	64.7	66.3					SUBTOTALS						70.2	69.2	68.9								
														PANEL "P"				1.2	3.4	9.2	6.0		11.5	
														PANEL "1P1"				1.8	23.8	5.0			24.5	
														PANEL "1P2"				1.0	4.2	18.8	1.0			
														PANEL "2P"				0.4	4.3				1.5	
														PANEL "3P"				0.4	4.3				1.5	
														PANEL "4P"				0.4	5.5	34.9			2.0	
														PANEL "OL"				9.6						
														PANEL "ES"				13.6	13.5	72.0			3.5	
														PANEL "1H"						65.8	6.0		0.5	
												TOTALS	-9.6	146.7	133.9	135.2		28.4	59.0	280.1	13.0		45.0	

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	28.4	1.25	35.5
RECEPTACLES	10.0	1.00	10.0
RECEPTACLES	49.0	0.50	24.5
MOTORS	280.1	1.00	280.1
LARGEST MOTOR		1.75	0.0
HEAT	13.0	1.00	13.0
KITCHEN	0.0	0.65	0.0
OTHER	45.0	1.00	45.0
SPARE	0.0	1.00	0.0

CALCULATIONS: 408.1 / 0.36 1133.6 A

NOTES:
1. PANEL SHALL BE U.L. LISTED FOR SERVICE ENTRANCE.
2. 100% RATED MAIN BREAKER.
3. * - INDICATES 100% RATED BREAKER.
4. LABEL "SERVICE DISCONNECT #1 OF 3"
5. PROVIDE AN INTEGRAL ENERGY REDUCTION MAINTANANCE SETTING SWITCH WITH ALL INTERNAL CONNECTIONS TO THE MAIN AND BRANCH BREAKERS FOR ARC ENERGY REDUCTION.

PANEL "GB" STACK LOAD JUSTIFICATION (FOUR(4) FLOORS)
TYPICAL FOR TWO STACKS OF FOUR GUEST ROOMS WITH PANEL "GB"

DEMAND TOTALS	
1ST 10KVA @100%	10.0
REMAINING @ 40%	8.8
A/C COOLING LOAD @100%	25.6
TOTAL LOAD W/ DEMANDS	44.4
TOTAL AMP LOAD	213.7

PANEL "GA" STACK LOAD JUSTIFICATION (THREE(3) FLOORS)
TYPICAL FOR SIXTEEN STACKS OF THREE GUEST ROOMS WITH PANEL "GA"

DEMAND TOTALS	
1ST 10KVA @100%	10.0
REMAINING @ 40%	5.2
A/C COOLING LOAD @100%	9.6
TOTAL LOAD W/ DEMANDS	24.8
TOTAL AMP LOAD	119.0

PANEL "GA" STACK LOAD JUSTIFICATION (FOUR(4) FLOORS)
TYPICAL FOR SIX STACKS OF FOUR GUEST ROOMS WITH PANEL "GA"

DEMAND TOTALS	
1ST 10KVA @100%	10.0
REMAINING @ 40%	8.2
A/C COOLING LOAD @100%	12.8
TOTAL LOAD W/ DEMANDS	31.0
TOTAL AMP LOAD	149.0

1P1-L	1P1-R	
1P2	1H	OL
MDPC	MDPB	MDPA

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REVISIONS

No.	Date	Description

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EDWIN D. BELK
LICENSE
NO. 70897
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7/31/18

KEY PLAN

VTM Hotels, LLC

Home2Suites

2630 Wilde Lake Blvd.
Pensacola, FL 32526

Drawing Title
Panel Schedules

Phase
Construction Documents

Project No.	17-101
Prepared by	MSM
Checked by	EDB
Date	July 31, 2018
Sheet No.	E501

Home2Suites

Review

Order Plans @ www.LDILine.com