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KEY PLAN

Shiva Southaven
Inc.

Holiday Inn Express
& Suites

Lot 16 (Rev Lot 3) Southcrest
Pkwy.
Southcrest Subdivision
Southaven, MS 38671

Drawing Title

ELECTRICAL PANEL SCHEDULES

Phase

Construction Documents

Project No.	14-081	Sheet No.	E502
Prepared by	MAH		
Checked by	EDB		
Date	Feb. 27, 2015		

12/20/08		VOLT: 240		3 Ø		4 WIRE		TYPE: NQ00		A/C 30.00		BY: KNG		SHEET: 01											
SURFACE		MOUNTED		400 AMP MAIN		LUG ONLY		NEUTRAL SIZE AMPS 400		JOB #:		CHECKED BY: DB		DATE: 2/27/2015											
Q LOAD	KVA			REMARKS OR EQUIPMENT SERVED										KVA			LOAD	KVA							
	A	B	C	WIRE SIZE TRIP AMPS POLES CIRCUIT NO.										A	B	C		LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	SPARE	
H	4.0		AH-1	8	40	2	1	3	2	1	20		SPARE									4.0			
H		4.0					3	4	1	20		SPARE										4.0			
H			AH-2	5	20	2	5	6	1	20	12	BWH-1										3.5			
H	2.5						7	8	1	20	12	BWH-1	1.0		1.0	H						3.5			
H		5.5	AH-3	6	60	2	9	10	1	20		SPARE										5.5			
H		5.5					11	12	1	20		SPARE										5.5			
H	2.5		AH-4	10	25	2	13	14	1	20	12	ELEC RM FANS	0.2			M				0.2	2.5				
H		2.5					15	16	1	20	12	EXHAUST FANS EF7/3		0.2		M				0.2	2.5				
H		4.0	AH-5	8	40	2	17	18	1	20	12	EXHAUST FANS EF9/6			0.5	M				0.5	4.0				
H	4.0						19	20	1	20	12	EXHAUST FANS	0.4			M				0.4	4.0				
H		4.0	AH-6	8	40	2	21	22	2	25	8	SSO-1		2.2		M				2.2	4.0				
H		4.0					23	24						2.2		M				2.2	4.0				
H	4.0		AH-7	8	40	2	25	26	2	25	8	SSO-2	2.2			M				2.2	4.0				
H		4.0					27	28						2.2		M				2.2	4.0				
H		4.0	AH-8	8	40	2	29	30	1	20	8	SPARE									4.0				
H	4.0						31	32	1			SPACE ONLY									4.0				
			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									0.4				
O	20.8	19.4	20.3	12	20	1	SUBTOTALS					3.8	4.6	3.7											
TOTALS													73.0			0.0	0.0	10.0	62.5	0.0	0.4	0.0			
LOAD		KVA CONNECTED		D.F		KVA NET		CALCULATIONS:										73.0		/		0.36		202.7 A	
LIGHTING		0.0		1.25		0.0																			
RECEPTS		0.0		1.00		0.0																			
RECEPTS		0.0		0.50		0.0																			
MOTORS		10.0		1.00		10.0																			
LARGEST MOTOR		0.0		1.75		0.0																			
HEAT		62.5		1.00		62.5																			
KITCHEN		0.0		0.65		0.0																			
OTHER		0.4		1.00		0.4																			
SPARE		0.0		1.00		0.0																			
TOTAL		73.0		73.0																					
NOTES: 1 FIELD COORDINATE ALL ELECTRICAL CONNECTION LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ANY ROUGH IN WORK 2 * INDICATES SHUNT TRIP RATED BREAKER																									

12/20/08		VOLT: 3 Ø		PANEL 1A		4 WIRE, TYPE: NQDD		AIC 22,000		BY: JOB #		SHEET														
SURFACE MOUNTED.				100 AMP MAIN		LUG ONLY		NEUTRAL SIZE AMPS 100		CHECKED BY DB		OF: DATE 2/27/2015														
LOAD	KVA			REMARKS OR EQUIPMENT SERVED												LOAD	KVA									
	A	B	C	WIRE SIZE													A	B	C	LIGHTS	RECEPTS	MOTORS	HEAT	KITCHEN	OTHER	GUESTROOM
				TRIP AMPS																						
				POLES																						
				CIRCUIT NO.																						
S	1.2			KING 118 *	12	20	1	1	2	1	20	12	KING 142 *	1.2			S									2.3
S	1.0			KING 118	12	20	1	3	4	1	20	12	KING 142	1.0			S									2.0
S	1.0		1.0	KING 118	12	20	1	7	8	1	20	12	KING 142	1.0		1.0	S									2.0
S	0.8			KING 118	12	20	1	9	10	1	20	12	KING 142	0.8			S									1.5
H	14		1.4	KING 118 PTAC	12	15	2	11	12	2	15	12	KING 142 PTAC			1.4	H							2.8		
								13					14				H							2.8		
S	1.2			KING 135 *	12	20	1	15	16	1	20	12	A/C ROLLIN WIKING *	1.2			S									2.3
S	1.0		1.0	KING 135	12	20	1	17	18	1	20	12	A/C ROLLIN WIKING	1.0		1.0	S									2.0
S	1.0			KING 135	12	20	1	19	20	1	20	12	A/C ROLLIN WIKING	1.0			S									2.0
S	1.0			KING 135	12	20	1	21	22	1	20	12	A/C ROLLIN WIKING	1.0			S									2.0
S	0.8			KING 135	12	20	1	23	24	1	20	12	A/C ROLLIN WIKING	0.8			S									1.5
H	14			KING 135 PTAC	12	15	2	25	26	2	15	12	XING 123 PTAC	1.4			H							2.8		
S	1.4			KING 136 *	12	20	1	29	27					1.4			H							2.8		
S	1.2			H KING 136 *	12	20	1	31	30	1	20		SPARE													1.2
S	1.0			H KING 136	12	20	1	31	32	1	20		SPARE													1.0
S				H KING 136	12	20	1	33	34	1	20		SPARE													1.0
S			1.0	H KING 136	12	20	1	35	36	1	20		SPARE													0.8
S	0.8			H KING 136	12	20	1	37	38	1	20		SPARE													1.0
H	14		1.4	KING 136 PTAC	12	15	2	39	40	1	20		SPARE											1.4		
H								41	42	1	20		SPARE											1.4		
7.7 7.7 7.7																6.0 5.3 4.2										
				SUBTOTALS																						
				TOTALS												38.5			0.0 0.0 0 14.0 0 0 0 24.5							
LOAD				KVA CONNECTED		D.F		KVA NET		CALCULA TIONS: 25.8 / 0.36 71.7 A																
LIGHTING				0.0		1.25		0.0		NOTES: 1 *. INDICATES FARC AUL T RATED BREAKER 2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220.42																
RECEPT CLES				0.0		1.00		0.0																		
RECEPT CLES				0.0		0.50		0.0		24500 FIRST 2000 AT 50% 10000.0 UP TO 100,000 AT 40% 18000.0 REMAINER AT 30% 0 11800																
MOTORS				0.0		1.00		0.0																		
LARGEST MOTOR				0.0		1.75		0.0																		
HEAT				14.0		1.00		14.0																		
KITCHEN				0.0		0.65		0.0																		
OTHER				0.0		1.00		0.0																		
GUESTROOMS				24.5		0.0		11.8																		
TOTAL				38.5				25.8																		

12/20/08												VOLTS.		PANEL		3 Ø		4 WIRE		TYPE NYQC		A/C 20.000		BY:		SHEET:																						
SURFACE												MOUNTED		PANEL SIZE		600A		MAIN LUG ONLY				AMPS 600		JOB #		OF																						
																						CHECKED		DB		DATE 2/27/2015																						
LOAD	KVA			REMARKS OR EQUIPMENT SERVED											KVA			LOAD																														
	A	B	C	WIRE SIZE TRIP AMPS											A	B	C																															
	POLES											CIRCUIT NO.																																				
	14.1	13.3	11.8	PANEL 2A	3	100	3	1	2	3	100	3	PANEL 2B	14.1	13.3	11.8	0.0		0	0	0	0	0	39.2																								
	14.1	13.3	11.8	PANEL 2C	3	100	3	3	4	3	100	3	PANEL 2D	9.8	9.8	11.8	0		0	0	0	0	0	39.2																								
	3.4	2.9	11.8	PANEL 2E	3	100	3	5	6	3	200	3/0	PANEL 2F	20.5	20.5	17.6	2.0		1.8	0.1	0	58.7	0	4.5																								
				SPARE		100	3	7	8	3	200	3/0	PANEL 2G	10.3	10.3	8.8	0		0	0	29.3	0	0	0																								
				SPARE		100	3	9	10	3			SPACE ONLY																																			
				SPACE ONLY			3	11	12	3			SPACE ONLY																																			
				SPACE ONLY			3	13	14	3			SPACE ONLY																																			
	SUBTOTALS											TOTALS											54.7	53.9	48.0	2.0	1.8	0.1	88.0	4.5	147.0																	
	LOAD												KVA CONNECTED												D.F.	KVA NET																						
	LIGHTING												2.0												1.25	2.5																						
RECEPT CLES												1.8												1.00	1.8																							
RECEPT CLES												0.0												0.50	0.0																							
MOTORS												0.1												1.00	0.1																							
LARGEST MOTOR												0.0												1.75	0.0																							
HEAT												88.0												1.00	88.0																							
KITCHEN												0.0												0.65	0.0																							
OTHER												4.5												1.00	4.5																							
GUESTROOMS												147.0												NEC	80.9																							
TOTAL												243.4													157.7																							
CALCULATIONS:												157.7												/	0.36												437.9 A											
NOTES:												1. DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 220 42												147.000 FIRST 20000 AT 50%												10000.0												
																								UP TO 100,000 AT 40%												50800.0												
																								REMAINDER AT 30%												0.0												
																																				60800.0												

PANEL 2A										BY: JES #		SHEET																		
120/208		VOLT: 3 Ø		4 WIRE		TYPE: N/GOO		A/C 22,000		JOB #		OF: DATE: 2/27/2015																		
SURFACE		MOUNTED		100 AMP MAIN LUG ONLY										NEUTRAL SIZE AMPS		100		CHECKED BY DB		DATE: 2/27/2015										
REMARKS OR EQUIPMENT SERVED										KVA																				
LOAD	KVA			WIRE SIZE										LOAD																
	A	B	C	TRIP AMPS																										
				POLES																										
				CIRCUIT NO.																										
S	1.2		KING WIDE 203 *	12	20	1	1	2	1	20	12	KING SUITE 211 *	1.2		S	2.3														
S	1.0		KING WIDE 203	12	20	1	3	4	1	20	12	KING SUITE 211	1.0		S	2.0														
S		1.0	KING WIDE 203	12	20	1	7	6	1	20	12	KING SUITE 211	1.0	1.0	S	2.3														
S	1.0		KING WIDE 203	12	20	1	7	8	1	20	12	KING SUITE 211	1.0		S	2.0														
S		0.8	KING WIDE 203	12	20	1	9	10	1	20	12	KING SUITE 211	0.8		S	1.5														
S		1.2	KING 205 *	12	20	1	11	12	1	20	12	KING SUITE 213 *		1.2	S	2.3														
S	1.0		KING 205	12	20	1	13	14	1	20	12	KING SUITE 213	1.0		S	2.0														
S		1.0	KING 205	12	20	1	15	16	1	20	12	KING SUITE 213	1.0		S	2.0														
S		1.0	KING 205	12	20	1	17	18	1	20	12	KING SUITE 213		1.0	S	2.0														
S		0.8	KING 205	12	20	1	19	20	1	20	12	KING SUITE 213	0.8		S	1.5														
S		1.2	KING 207 *	12	20	1	21	22	1	20	12	KING SUITE 215 *		1.2	S	2.3														
S	1.0		KING 207	12	20	1	23	24	1	20	12	KING SUITE 215		1.0	S	2.0														
S		1.0	KING 207	12	20	1	25	26	1	20	12	KING SUITE 215	1.0		S	2.0														
S		1.0	KING 207	12	20	1	27	28	1	20	12	KING SUITE 215	1.0		S	2.0														
S		0.8	KING 207	12	20	1	29	30	1	20	12	KING SUITE 215		0.8	S	1.5														
S		1.2	KING 209 *	12	20	1	31	32	1	20	12	KING 217 *	1.2		S	2.3														
S	1.0		KING 209	12	20	1	33	34	1	20	12	KING 217	1.0		S	2.0														
S		1.0	KING 209	12	20	1	35	36	1	20	12	KING 217		1.0	S	2.0														
S	1.0		KING 209	12	20	1	37	38	1	20	12	KING 217	1.0		S	2.0														
S		0.8	KING 209	12	20	1	39	40	1	20	12	KING 217		0.8	S	1.5														
S			SPARE	20	1	41	42	1	20			SPARE																		
7.1				6.7				5.9				SUBTOTALS				7.1				6.7				5.9						
TOTALS										39.2										0.0		0		0		0		39.2		
LOAD		KVA CONNECTED			D.F.			KVA NET			CALCULA TIONS:										17.7		/		0.36		49.1 A			
LIGHTING		0.0			1.25			0.0																						
RECEPTACLES		0.0			1.00			0.0																						
RECEPTACLES		0.0			0.50			0.0			NOTES:																			
MOTORS		0.0			1.00			0.0			1 * - INDICATES ARC FAULT RATED BREAKER.																			
LARGEST MOTOR		0.0			1.75			0.0			2 DEMAND FACTOR FOR GUESTROOM LOADS PER NEC TABLE 200.42																10000.0			
HEAT		0.0			1.00			0.0																					7680.0	
KITCHEN		0.0			0.65			0.0																					0	
OTHER		0.0			0.00			0.0																					17680	
GUESTROOMS		39.2			NEC			17.7																						
TOTAL		39.2						17.7																						

12/20/08		VOLT: 3 Ø		PANEL 2B		4 WIRE		TYPE: NOOD		A/C 22,000		BY:		SHEET															
SURFACE		MOUNTED		100 AMP MAIN		LUG ONLY		NEUTRAL SIZE AMPS		100		JOB #:		OF															
												CHECKED BY: DB		DB DATE: 2/27/2015															
LOAD	KVA			REMARKS OR EQUIPMENT SERVED												KVA			LOAD										
	A	B	C	WIRE SIZE												A	B	C											
	TIP AMPS																												
	POLES																												
	CIRCUIT NO.																												
S	12		KING 221 *	12	20	1	1	2	1	20	12	KING 229 *	1.2		S	2.3													
S	12	1.0	KING 221	12	20	1	3	4	1	20	12	KING 229		1.0	S	2.0													
S	12	1.0	KING 221	12	20	1	5	6	1	20	12	KING 229		1.0	S	2.0													
S	10		KING 221	12	20	1	7	8	1	20	12	KING 229	1.0		S	2.0													
S	0.8		KING 221	12	20	1	9	10	1	20	12	KING 229		0.8	S	1.5													
S		1.2	KING 223 *	12	20	1	11	12	1	20	12	KING 231 *		1.2	S	2.3													
S	10		KING 223	12	20	1	13	14	1	20	12	KING 231	1.0		S	2.0													
S	10	1.0	KING 223	12	20	1	15	16	1	20	12	KING 231		1.0	S	2.0													
S	10		KING 223	12	20	1	17	18	1	20	12	KING 231		1.0	S	2.0													
S	0.8		KING 223	12	20	1	19	20	1	20	12	KING 231	0.8		S	1.5													
S	12		KING 225 *	12	20	1	21	22	1	20	12	KING 233 *		1.2	S	2.3													
S		1.0	KING 225	12	20	1	23	24	1	20	12	KING 233		1.0	S	2.0													
S			KING 225	12	20	1	25	26	1	20	12	KING 233	1.0		S	2.0													
S	10		KING 225	12	20	1	27	28	1	20	12	KING 233		1.0	S	2.0													
S		0.8	KING 225	12	20	1	29	30	1	20	12	KING 233		0.8	S	1.5													
S	12		KING 227 *	12	20	1	31	32	1	20	12	KING 235 *	1.2		S	2.3													
S	10		KING 227	12	20	1	33	34	1	20	12	KING 235		1.0	S	2.0													
S		1.0	KING 227	12	20	1	35	36	1	20	12	KING 235		1.0	S	2.0													
S			KING 227	12	20	1	37	38	1	20	12	KING 235	1.0		S	2.0													
S	0.8		KING 227	12	20	1	39	40	1	20	12	KING 235		0.8	S	1.5													
S			SPARE	20	20	1	41	42	1	20		SPARE			S														
7.1 6.7 5.9			SUBTOTALS												7.1	6.7	5.9												
TOTALS															39.2														
LOAD															KVA CONNECTED	D.F.	KVA NET												
LIGHTING															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															0.0	1.00	0.0												
GUESTROOMS															39.2	NEC	17.7												
TOTAL															39.2		17.7												
CALCULATIONS															17.7	/	0.36	49.1A											
NOTES:																													
1 * - INDICATES ARC FAULT BREAKER															39200 FIRST 20000 AT 50% 10000.0														
2 DEMAND FACTOR FOR GUESTROOM LOADS PER NECTABLE 220.42															UP TO 100,000 AT 40% 7880.0														
															REMAINDER AT 30% 0														
															17880														

[illegible]

1HV	1A	—
—	DP2	2A
2B	2C	—