PANELBOARD

02/17/10 10:01 AM

DESCRIPTION	WIRE&COND.	C.B.	LIGHT	RECP	MOTOR	HEAT		A	B	C		HEAT	MOTOR	RECP	LIGHT	C.B.	WIRE&COND.	DESCRIPTION
LTG./EX FAN RM *08	2#12, 12G, 3/4"C.	20/1	600				1	*			2				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *02
REC.	2#12, 12G, 3/4"C.	20/1		1000			3		*		4			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			5			*	6			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			7	*			8			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			9		*		10			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	11			*	12	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	13	*			14	1500				--		--
LTG./EX FAN RM *10	2#12, 12G, 3/4"C.	20/1	600				15		*		16				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *04
REC.	2#12, 12G, 3/4"C.	20/1		1000			17			*	18			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			19	*			20			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			21		*		22			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			23			*	24			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	25	*			26	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	27		*		28	1500				--		--
LTG./EX FAN RM *12	2#12, 12G, 3/4"C.	20/1	600				29			*	30				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *06
REC.	2#12, 12G, 3/4"C.	20/1		1000			31	*			32			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			33		*		34			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			35			*	36			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			37	*			38			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	39		*		40	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	41			*	42	1500				--		--
		THIS SEC SUBTOTAL (VA)	1800	7620	0	9000						9000	0	7620	1800	THIS SEC SUBTOTAL (VA)		
		SUBTOTAL (VA)														SUBTOTAL (VA)		
		SUBTOTAL (VA)	1800	7620	0	9000						9000	0	7620	1800	SUBTOTAL (VA)		

NOTE:
PROVIDE FEED-THROUGH LUGS FOR PNL SECTION 2.

DESCRIPTION	VOLT/PH/WIRE	120/208V/3P/4W
PANEL	MOUNT	SURFACE
*A	MAIN SIZE	225A
TYPICAL FOR LEVEL2	MAIN TYPE	MLO
LEVEL 3 AND LEVEL4	TYPE	PANELBOARD
	AIC	65000

LOAD TYPE	DESIGN FACTOR	DESIGN kVA	AMPS
LIGHT	1.25	4.5	12.5
RECP.	NEC	12.6	35.1
MOTOR	NEC	0.0	0.0
HEAT	1.00	18.0	50.0
KITCHEN	NEC	0.0	0.0
OTHER	1.00	0.0	0.0
TOTAL		35.1	97.6

PHASE A	12280
PHASE B	12280
PHASE C	12280

NOTES:
NEC. PROVIDE UL SERIES RATED MAIN BREAKER
TO WITHSTAND 65K AIC.
FULL NEUTRAL & GROUND BUS.
PLUG-ON CIRCUIT BREAKERS.
PROVIDE ARC FAULT BREAKERS TO SERVE ALL ELECTRICAL
IN EACH GUEST ROOM PER NEC 2008
" * " INDICATE THE CORRESPONDING LEVEL NUMBER
NO MORE THAN 6 OUTLETS PER CIRCUIT.

IN CASE OF SERIES RATED SYSTEM IS PROVIDED BY THE CONTRACTOR, THIS PANEL SHALL BE UL LISTED AND RATED TO WORK WITH THE UPSTREAM PANEL. OTHERWISE, PROVIDE A FULLY RATED SYSTEM AS SHOWN.

PANELBOARD

02/17/10 10:01 AM

DESCRIPTION	WIRE&COND.	C.B.	LIGHT	RECP	MOTOR	HEAT		A	B	C		HEAT	MOTOR	RECP	LIGHT	C.B.	WIRE&COND.	DESCRIPTION
LTG./EX FAN RM *03	2#12, 12G, 3/4"C.	20/1	600				1	*			2				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *09
REC.	2#12, 12G, 3/4"C.	20/1		1000			3		*		4			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			5			*	6			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			7	*			8			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			9		*		10			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	11			*	12	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	13	*			14	1500				--		--
LTG./EX FAN RM *05	2#12, 12G, 3/4"C.	20/1	600				15		*		16				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *11
REC.	2#12, 12G, 3/4"C.	20/1		1000			17			*	18			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			19	*			20			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			21		*		22			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			23			*	24			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	25	*			26	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	27		*		28	1500				--		--
LTG./EX FAN RM *07	2#12, 12G, 3/4"C.	20/1	600				29			*	30				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *13
REC.	2#12, 12G, 3/4"C.	20/1		1000			31	*			32			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			33		*		34			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			35			*	36			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			37	*			38			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	39		*		40	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	41			*	42	1500				--		--
		THIS SEC SUBTOTAL (VA)	1800	7620	0	9000						9000	0	7620	1800	THIS SEC SUBTOTAL (VA)		
		SUBTOTAL (VA)														SUBTOTAL (VA)		
		SUBTOTAL (VA)	1800	7620	0	9000						9000	0	7620	1800	SUBTOTAL (VA)		

NOTE:
PROVIDE FEED-THROUGH LUGS FOR PNL SECTION 2.

DESCRIPTION	VOLT/PH/WIRE	120/208V/3P/4W
PANEL	MOUNT	SURFACE
*B	MAIN SIZE	225A
TYPICAL FOR LEVEL2	MAIN TYPE	MLO
LEVEL 3 AND LEVEL4	TYPE	PANELBOARD
	AIC	65000

LOAD TYPE	DESIGN FACTOR	DESIGN kVA	AMPS
LIGHT	1.25	4.5	12.5
RECP.	NEC	12.6	35.1
MOTOR	NEC	0.0	0.0
HEAT	1.00	18.0	50.0
KITCHEN	NEC	0.0	0.0
OTHER	1.00	0.0	0.0
TOTAL		35.1	97.6

PHASE A	12280
PHASE B	12280
PHASE C	12280

NOTES:
NEC. PROVIDE UL SERIES RATED MAIN BREAKER
TO WITHSTAND 65K AIC.
FULL NEUTRAL & GROUND BUS.
PLUG-ON CIRCUIT BREAKERS.
PROVIDE ARC FAULT BREAKERS TO SERVE ALL ELECTRICAL
IN EACH GUEST ROOM PER NEC 2008
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NO MORE THAN 6 OUTLETS PER CIRCUIT.

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PANELBOARD

02/17/10 10:02 AM

DESCRIPTION	WIRE&COND.	C.B.	LIGHT	RECP	MOTOR	HEAT		A	B	C		HEAT	MOTOR	RECP	LIGHT	C.B.	WIRE&COND.	DESCRIPTION
LTG./EX FAN RM *15	2#12, 12G, 3/4"C.	20/1	600				1	*			2				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *19
REC.	2#12, 12G, 3/4"C.	20/1		1000			3		*		4			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			5			*	6			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			7	*			8			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			9		*		10			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	11			*	12	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	13	*			14	1500				--		--
LTG./EX FAN RM *17	2#12, 12G, 3/4"C.	20/1	600				15		*		16				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *21
REC.	2#12, 12G, 3/4"C.	20/1		1000			17			*	18			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			19	*			20			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			21		*		22			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			23			*	24			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	25	*			26	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	27		*		28	1500				--		--
LTG./EX FAN RM *09	2#12, 12G, 3/4"C.	20/1	600				29			*	30				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *23
REC.	2#12, 12G, 3/4"C.	20/1		1000			31	*			32			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			33		*		34			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			35			*	36			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			37	*			38			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	39		*		40	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	41			*	42	1500				--		--
		THIS SEC SUBTOTAL (VA)	1800	7620	0	9000						9000	0	7620	1800	THIS SEC SUBTOTAL (VA)		
		SUBTOTAL (VA)														SUBTOTAL (VA)		
		SUBTOTAL (VA)	1800	7620	0	9000						9000	0	7620	1800	SUBTOTAL (VA)		

NOTE:
PROVIDE FEED-THROUGH LUGS FOR PNL SECTION 2.

DESCRIPTION	VOLT/PH/WIRE	120/208V/3P/4W
PANEL	MOUNT	SURFACE
*C	MAIN SIZE	225A
TYPICAL FOR LEVEL2	MAIN TYPE	MLO
LEVEL 3 AND LEVEL4	TYPE	PANELBOARD
	AIC	65000

LOAD TYPE	DESIGN FACTOR	DESIGN kVA	AMPS
LIGHT	1.25	4.5	12.5
RECP.	NEC	12.6	35.1
MOTOR	NEC	0.0	0.0
HEAT	1.00	18.0	50.0
KITCHEN	NEC	0.0	0.0
OTHER	1.00	0.0	0.0
TOTAL		35.1	97.6

PHASE A	12280
PHASE B	12280
PHASE C	12280

NOTES:
NEC. PROVIDE UL SERIES RATED MAIN BREAKER
TO WITHSTAND 65K AIC.
FULL NEUTRAL & GROUND BUS.
PLUG-ON CIRCUIT BREAKERS.
PROVIDE ARC FAULT BREAKERS TO SERVE ALL ELECTRICAL
IN EACH GUEST ROOM PER NEC 2008
" * " INDICATE THE CORRESPONDING LEVEL NUMBER
NO MORE THAN 6 OUTLETS PER CIRCUIT.

IN CASE OF SERIES RATED SYSTEM IS PROVIDED BY THE CONTRACTOR, THIS PANEL SHALL BE UL LISTED AND RATED TO WORK WITH THE UPSTREAM PANEL. OTHERWISE, PROVIDE A FULLY RATED SYSTEM AS SHOWN.

PANELBOARD

02/17/10 10:02 AM

DESCRIPTION	WIRE&COND.	C.B.	LIGHT	RECP	MOTOR		A	B	C		HEAT	MOTOR	RECP	LIGHT	C.B.	WIRE&COND.	DESCRIPTION
LTG./EX FAN RM *25	2#12, 12G, 3/4"C.	20/1	600			1	*			2				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *01
REC.	2#12, 12G, 3/4"C.	20/1		1000		3		*		4			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000		5			*	6			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180		7	*			8			180		20/1	2#12, 12G, 3/4"C.	APPLIANCE CIRCUIT
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360		9		*		10			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				11			*	12	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC-1
--		--				13	*			14	1500				--		--
LTG./EX FAN RM *27	2#12, 12G, 3/4"C.	20/1	600			15		*		16				600	20/1	2#12, 12G, 3/4"C.	APPLIANCE MICROWAVE
REC.	2#12, 12G, 3/4"C.	20/1		1000		17			*	18			1000		20/1	2#10, 12G, 3/4"C.	A/C PTAC-1
REC.	2#12, 12G, 3/4"C.	20/1		1000		19	*			20			1000		20/1		--
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180		21		*		22				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *30
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360		23			*	24			1000		20/1	2#12, 12G, 3/4"C.	REC.
A/C PTAC	2#10, 12G, 3/4"C.	20/2				25	*			26			1000		20/1	2#12, 12G, 3/4"C.	REC.
--		--				27		*		28			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
LTG./EX FAN RM *29	2#12, 12G, 3/4"C.	20/1	600			29			*	30			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
REC.	2#12, 12G, 3/4"C.	20/1		1000		31	*			32	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
REC.	2#12, 12G, 3/4"C.	20/1		1000		33		*		34	1500				--		--
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180		35			*	36					20/1		SPARE
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360		37	*			38					20/1		SPARE
A/C PTAC	2#10, 12G, 3/4"C.	20/2				39		*		40					20/1		SPARE
--		--				41			*	42					20/1		SPARE
		THIS SEC SUBTOTAL (VA)	1800	7620	0						6000	0	7080	1800	THIS SEC SUBTOTAL (VA)		
		SUBTOTAL (VA)													SUBTOTAL (VA)		
		SUBTOTAL (VA)	1800	7620	0						6000	0	7080	1800	SUBTOTAL (VA)		

NOTE:
PROVIDE FEED-THROUGH LUGS FOR PNL SECTION 2.

DESCRIPTION	VOLT/PH/WIRE	120/208V/3P/4W
PANEL	MOUNT	SURFACE
*D	MAIN SIZE	225A
TYPICAL FOR LEVEL2	MAIN TYPE	MLO
LEVEL 3 AND LEVEL4	TYPE	PANELBOARD
	AIC	65000

LOAD TYPE	DESIGN FACTOR	DESIGN kVA	AMPS
LIGHT	1.25	4.5	12.5
RECP.	NEC	12.4	34.3
MOTOR	NEC	0.0	0.0
HEAT	1.00	12.0	33.3
KITCHEN	NEC	0.0	0.0
OTHER	1.00	0.0	0.0
TOTAL		28.9	80.1

PHASE A	11920
PHASE B	8880
PHASE C	9500

NOTES:
NEC. PROVIDE UL SERIES RATED MAIN BREAKER
TO WITHSTAND 65K AIC.
FULL NEUTRAL & GROUND BUS.
PLUG-ON CIRCUIT BREAKERS.
PROVIDE ARC FAULT BREAKERS TO SERVE ALL ELECTRICAL
IN EACH GUEST ROOM PER NEC 2008
" * " INDICATE THE CORRESPONDING LEVEL NUMBER
NO MORE THAN 6 OUTLETS PER CIRCUIT.

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PANELBOARD

02/17/10 10:02 AM

DESCRIPTION	WIRE&COND.	C.B.	LIGHT	RECP	MOTOR	HEAT		A	B	C		HEAT	MOTOR	RECP	LIGHT	C.B.	WIRE&COND.	DESCRIPTION
WASHER	2#12, 12G, 3/4"C.	20/1					1	*			2				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *28
WASHER	2#10, 10G, 3/4"C.	15/2					3		*		4			1000		20/1	2#12, 12G, 3/4"C.	REC.
--	--	--					5			*	6			1000		20/1	2#12, 12G, 3/4"C.	REC.
DRYER	2#12, 12G, 3/4"C.	20/1					7	*			8			500		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
SPARE		20/1					9		*		10			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
SPARE		20/1					11			*	12	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
SPARE		20/1					13	*			14	1500				--		--
SPARE		20/1					15		*		16					20/1		SPARE
SPARE		20/1					17			*	18					20/1		SPARE
SPARE		20/1					19	*			20					20/1		SPARE
SPARE		20/1					21		*		22					20/1		SPARE
SPARE		20/1					23			*	24					20/1		SPARE
SPARE		20/1					25	*			26					20/1		SPARE
SPARE		20/1					27		*		28					20/1		SPARE
SPARE		20/1					29			*	30					20/1		SPARE
ICE MAKER	2#12, #12G, 3/4"C.	20/1		200			31	*			32					20/1		SPARE
ATTIC OUTLETS	2#10, #10G, 3/4"C.	20/1		100			33		*		34				1500	20/1	2#10, #10G., 3/4"C.	ELEC/MECH/STORAGE RMS LTG
ATTIC LIGHTS	2#10, #10G, 3/4"C.	20/1	700				35			*	36			1260		20/1	2#10, #10G., 3/4"C.	PUBLIC AREA OUTLETS
TELEPHONE OUTLET	2#12, 12G, 3/4"C.	20/1		180			37	*			38			1260		20/1	2#10, #10G., 3/4"C.	PUBLIC AREA OUTLETS
PUBLIC AREA OUTLETS	2#12, 12G, 3/4"C.	20/1		1260			39		*		40					20/1	2#12, #12G., 3/4"C.	VENDNG MACHINE
ELECTRICAL RM OUTLET	2#12, 12G, 3/4"C.	20/1		180			41			*	42					20/1	2#12, #12G., 3/4"C.	VENDING MACHINE
		THIS SEC SUBTOTAL (VA)	700	1920	0	0						3000	0	5380	2100	THIS SEC SUBTOTAL (VA)		
		SUBTOTAL (VA)														SUBTOTAL (VA)		
		SUBTOTAL (VA)	700	1920	0	0						3000	0	5380	2100	SUBTOTAL (VA)		

NOTE:
PROVIDE FEED-THROUGH LUGS FOR PNL SECTION 2.

DESCRIPTION	VOLT/PH/WIRE	120/208V/3P/4W
PANEL	MOUNT	SURFACE
*E	MAIN SIZE	225A
TYPICAL FOR LEVEL2	MAIN TYPE	MLO
LEVEL 3 AND LEVEL4	TYPE	PANELBOARD
	AIC	65000

LOAD TYPE	DESIGN FACTOR	DESIGN kVA	AMPS
LIGHT	1.25	3.5	9.7
RECP.	NEC	7.3	20.3
MOTOR	NEC	0.0	0.0
HEAT	1.00	3.0	8.3
KITCHEN	NEC	0.0	0.0
OTHER	1.00	4.6	12.9
TOTAL		18.4	51.2

PHASE A	7390
PHASE B	4969
PHASE C	5389

NOTES:
NEC. PROVIDE UL SERIES RATED MAIN BREAKER
TO WITHSTAND 65K AIC.
FULL NEUTRAL & GROUND BUS.
PLUG-ON CIRCUIT BREAKERS.
PROVIDE ARC FAULT BREAKERS TO SERVE ALL ELECTRICAL
EXCEPT ELECTRICAL LOCATED INSIDE THE BATHROOM.
" * " INDICATE THE CORRESPONDING LEVEL NUMBER
NO MORE THAN 6 OUTLETS PER CIRCUIT.

IN CASE OF SERIES RATED SYSTEM IS PROVIDED BY THE CONTRACTOR, THIS PANEL SHALL BE UL LISTED AND RATED TO WORK WITH THE UPSTREAM PANEL. OTHERWISE, PROVIDE A FULLY RATED SYSTEM AS SHOWN.

PANELBOARD

02/17/10 10:03 AM

DESCRIPTION	WIRE&COND.	C.B.	LIGHT	RECP	MOTOR	HEAT		A	B	C		HEAT	MOTOR	RECP	LIGHT	C.B.	WIRE&COND.	DESCRIPTION
LTG./EX FAN RM *16	2#12, 12G, 3/4"C.	20/1	600				1	*			2				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *22
REC.	2#12, 12G, 3/4"C.	20/1		1000			3		*		4			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			5			*	6			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			7	*			8			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			9		*		10			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	11			*	12	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	13	*			14	1500				--		--
LTG./EX FAN RM *18	2#12, 12G, 3/4"C.	20/1	600				15		*		16				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *24
REC.	2#12, 12G, 3/4"C.	20/1		1000			17			*	18			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			19	*			20			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			21		*		22			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			23			*	24			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	25	*			26	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	27		*		28	1500				--		--
LTG./EX FAN RM *20	2#12, 12G, 3/4"C.	20/1	600				29			*	30				600	20/1	2#12, 12G, 3/4"C.	LTG./EX FAN RM *26
REC.	2#12, 12G, 3/4"C.	20/1		1000			31	*			32			1000		20/1	2#12, 12G, 3/4"C.	REC.
REC.	2#12, 12G, 3/4"C.	20/1		1000			33		*		34			1000		20/1	2#12, 12G, 3/4"C.	REC.
DEDICATED OUTLET	2#12, 12G, 3/4"C.	20/1		180			35			*	36			180		20/1	2#12, 12G, 3/4"C.	DEDICATED OUTLET
BATH RM GFI OUTLET	2#12, 12G, 3/4"C.	20/1		360			37	*			38			360		20/1	2#12, 12G, 3/4"C.	BATH RM GFI OUTLET
A/C PTAC	2#10, 12G, 3/4"C.	20/2				1500	39		*		40	1500				20/2	2#10, 12G, 3/4"C.	A/C PTAC
--		--				1500	41			*	42	1500				--		--
		THIS SEC SUBTOTAL (VA)	1800	7620	0	9000						9000	0	7620	1800	THIS SEC SUBTOTAL (VA)		
		SUBTOTAL (VA)														SUBTOTAL (VA)		
		SUBTOTAL (VA)	1800	7620	0	9000						9000	0	7620	1800	SUBTOTAL (VA)		

NOTE:
PROVIDE FEED-THROUGH LUGS FOR PNL SECTION 2.

DESCRIPTION	VOLT/PH/WIRE	120/208V/3P/4W
PANEL	MOUNT	SURFACE
*F	MAIN SIZE	225A
TYPICAL FOR LEVEL2	MAIN TYPE	MLO
LEVEL 3 AND LEVEL4	TYPE	PANELBOARD
	AIC	65000

LOAD TYPE	DESIGN FACTOR	DESIGN kVA	AMPS
LIGHT	1.25	4.5	12.5
RECP.	NEC	12.6	35.1
MOTOR	NEC	0.0	0.0
HEAT	1.00	18.0	50.0
KITCHEN	NEC	0.0	0.0
OTHER	1.00	4.6	12.9
TOTAL		39.8	110.5

PHASE A	15430
PHASE B	13029
PHASE C	11529

NOTES:
NEC. PROVIDE UL SERIES RATED MAIN BREAKER
TO WITHSTAND 65K AIC.
FULL NEUTRAL & GROUND BUS.
PLUG-ON CIRCUIT BREAKERS.
PROVIDE ARC FAULT BREAKERS TO SERVE ALL ELECTRICAL
EXCEPT ELECTRICAL LOCATED INSIDE THE BATHROOM.
" * " INDICATE THE CORRESPONDING LEVEL NUMBER
NO MORE THAN 6 OUTLETS PER CIRCUIT.

IN CASE OF SERIES RATED SYSTEM IS PROVIDED BY THE CONTRACTOR, THIS PANEL SHALL BE UL LISTED AND RATED TO WORK WITH THE UPSTREAM PANEL. OTHERWISE, PROVIDE A FULLY RATED SYSTEM AS SHOWN.

PANELBOARD

02/17/10 09:58 AM

DESCRIPTION	WIRE&COND.	C.B.	LIGHT	RECP	MOTOR	HEAT		A	B	C		MOTOR	RECP	LIGHT	C.B.	WIRE&COND.	DESCRIPTION
AC/CU-6	3#10, #10G., 3/4"C.	15/2			936		1	*			2				40/2	3#6, #8G., 1 1/4"C.	AC-2 (5.76KW)
30A/2P/15AF		--			936		3		*		4				--	--	60A/2P/40AF
AC/CU-2	4#10, #10G., 3/4"C.	30/3			2400		5			*	6				40/2	3#6, #8G., 1 1/4"C.	AC-3 (5.76 KW)
30A/3P/30AF		--			2400		7	*			8				--	--	60A/2P/40AF
--		--			2400		9		*		10				40/2	3#6, #8G., 1 1/4"C.	AC-4 (5.76 KW)
AC-8 (5.76 KW)	3#6, #8G., 1 1/4"C.	40/2				3848	11			*	12				--	--	60A/2P/40AF
60A/2P/40AF		--				3848	13	*			14				40/2	3#6, #8G., 1 1/4"C.	AC-5 (5.76 KW)
AC/CU-4	4#10, #10G., 3/4"C.	25/3			1800		15		*		16				--	--	60A/2P/40AF
30A/3P/25AF		--			1800		17			*	18				40/2	3#6, #8G., 1 1/4"C.	AC-7 (5.76 KW)
--		--			1800		19	*			20				--	--	60A/2P/40AF
AC/CU-3	4#10, #10G., 3/4"C.	25/3			1800		21		*		22	2880			40/3	4#6, #10G., 1 1/4"C.	AC/CU-1
30A/3P/25AF		--			1800		23			*	24	2880			--	--	60A/3P/40AF
--		--			1800		25	*			26	2880			--	--	--
AC/CU-5	4#10, #10G., 3/4"C.	25/3			1800		27		*		28	1200			15/3	4#10, #10G., 3/4"C.	AC/CU-7
30A/3P/25AF		--			1800		29			*	30	1200			--	--	30A/3P/15AF
--		--			1800		31	*			32	1200			--	--	--
AC/CU-4	4#10, #10G., 3/4"C.	20/3			1560		33		*		34	200			20/1	2#10, #10G.,3/4"C.	MOTORIZED LOUVERS
30A/3P/20AF		--			1560		35			*	36	200			20/1	2#10, #10G.,3/4"C.	MOTORIZED LOUVERS
--		--			1560		37	*			38	200			20/1	2#10, #10G.,3/4"C.	MOTORIZED LOUVERS
AC-1 (5.76 KW)	3#6, #8G., 1 1/4"C.	40/2				3848	39		*		40	200			20/1	2#10, #10G.,3/4"C.	MOTORIZED LOUVERS
60A/2P/40AF		--				3848	41			*	42	200			20/1	2#10, #10G.,3/4"C.	MOTORIZED LOUVERS
		THIS SEC SUBTOTAL (VA)	0	0	29952	15392						13240	0	0	THIS SEC SUBTOTAL (VA)		
		SUBTOTAL (VA)	0	0	2800	15392		0	0	0		20204	0	0	SUBTOTAL (VA)		
		SUBTOTAL (VA)	0	0	32752	30784						33444	0	0	SUBTOTAL (VA)		

NOTE:
PROVIDE FEED-THROUGH LUGS FOR PNL SECTION 2.

DESCRIPTION	VOLT/PH/WIRE	120/208V/3P/4W
PANEL	MOUNT	SURFACE
1AC	MAIN SIZE	400A
SECTION 1	MAIN TYPE	MLO
LEVEL 1	TYPE	PANELBOARD
	AIC	65000

LOAD TYPE	DESIGN kVA	AMPS
LIGHT	0.0	0.0
RECP.	0.0	0.0
MOTOR	34.8	96.7
HEAT	76.5	212.6
KITCHEN	0.0	0.0
OTHER	0.0	0.0
TOTAL	111.3	309.2

PHASE A	33816
PHASE B	30168
PHASE C	33080

1. PROVIDE HACR BREAKER TO SERVE EACH HVAC UNIT AND PROVIDE LOCAL DISCONNECT WITH MOCP FUSE RATING AS REQUIRED.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EACH MOTORIZED DAMPER WITH HVAC AND PROVIDE 120V POWER AS REQUIRED.
3. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF TYPE OR WITH NEMA 3R ENCLOSURE.
4. PROVIDE NEUTRAL WIRE WITH THE SAME SIZE AS PHASE CONDUCTOR TO EACH CIRCUIT AS REQUIRED.

NOTES:
NEC. PROVIDE UL SERIES RATED MAIN BREAKER TO WITHSTAND 65K AIC. FULL NEUTRAL & GROUND BUS. PLUG-ON CIRCUIT BREAKERS. PROVIDE ARC FAULT BREAKERS TO SERVE ALL ELECTRICAL IN EACH GUEST ROOM PER NEC 2008

ALL LIGHTING CIRCUITS SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL UNLESS OTHERWISE NOTED.
PROVIDE HACR BREAKER TO SERVE EACH HVAC UNIT
IN CASE OF SERIES RATED SYSTEM IS PROVIDED BY THE CONTRACTOR, THIS PANEL SHALL BE UL LISTED AND RATED TO WORK WITH THE UPSTREAM PANEL. OTHERWISE, PROVIDE A FULLY RATED SYSTEM AS SHOWN.

PANELBOARD

05/24/10 04:28 PM

DESCRIPTION	WIRE&COND.	C.B.	LIGHT	RECP	MOTOR	HEAT		A	B	C		HEAT	MOTOR	RECP	LIGHT	C.B.	WIRE&COND.	DESCRIPTION
LEVEL 1 EF-1,2	2#10, #10G. 3/4"C.	20/1			700		43	*			44		700			20/1	2#10, #10G, 3/4"C.	LV4-10
LEVEL 1 EF-3,4	2#10, #10G. 3/4"C.	20/1			700		45		*		46	1000				20/1	2#10, #10G, 3/4"C.	LEVEL1 (2) UNIT HEATERS UH-1 30/2
LV4-8	2#10, #10G. 3/4"C.	20/1			700		47			*	48		1176			15/1	2#10, #10G, 3/4"C.	EF-5
LV4-9	2#10, #10G. 3/4"C.	20/1			700		49	*			50		1176			15/1	2#10, #10G, 3/4"C.	EF-6
AC-9 (5.76 KW)	3#6, #8G., 1 1/4"C.	40/2				3848	51		*		52		1176			15/1	2#10, #10G, 3/4"C.	EF-7
60A/2P/40AF		--				3848	53			*	54	1440				20/1	2#10, #10G, 3/4"C.	GAS WATER HEATER 1
AC-10 (5.76 KW)	3#6, #8G., 1 1/4"C.	40/2				3848	55	*			56	1440				20/1	2#10, #10G, 3/4"C.	GAS WATER HEATER 2
60A/2P/40AF		--				3848	57		*		58	1440				20/1	2#10, #10G, 3/4"C.	GAS WATER HEATER 3
SPARE		20/1					59			*	60	1440				20/1	2#10, #10G, 3/4"C.	GAS WATER HEATER 4
SPARE		20/1					61	*			62		1176			20/1	2#10, #10G, 3/4"C.	RECIR. PUMP CP-1
SPARE		20/1					63		*		64		4000			20/1	2#10, #10G, 3/4"C.	--
SPARE		20/1					65			*	66		1200			15/3	4#10, #10G., 3/4"C.	AC/CU-8
SPARE		20/1					67	*			68		1200			--	--	30A/3P/15AF
SPARE		20/1					69		*		70		1200			--	--	--
SPARE		20/1					71			*	72		1200			15/3	4#10, #10G., 3/4"C.	AC/CU-9
SPARE		20/1					73	*			74		1200			--	--	30A/3P/15AF
SPARE		20/1					75		*		76		1200			--	--	--
SPARE		20/1					77			*	78		1200			15/3	4#10, #10G., 3/4"C.	AC/CU-10
SPARE		20/1					79	*			80		1200			--	--	30A/3P/15AF
SPARE		20/1					81		*		82		1200			--	--	--
SPARE		20/1					83			*	84	1000				20/1	2#10, #10G, 3/4"C.	LEVEL1 (2) UNIT HEATERS UH-1 30/2
		THIS SEC SUBTOTAL (VA)	0	0	2800	15392						7760	20204	0	0	THIS SEC SUBTOTAL (VA)		
		SUBTOTAL (VA)														SUBTOTAL (VA)		
		SUBTOTAL (VA)	0	0	2800	15392						7760	20204	0	0	SUBTOTAL (VA)		

NOTE:
PROVIDE FEED-THROUGH LUGS FOR PNL SECTION 2.

DESCRIPTION	VOLT/PH/WIRE	120/208V/3P/4W
PANEL	MOUNT	SURFACE
1AC	MAIN SIZE	400A
SECTION 2	MAIN TYPE	MLO
LEVEL 1	TYPE	PANELBOARD
	AIC	65000

LOAD TYPE	DESIGN FACTOR	DESIGN kVA	AMPS
LIGHT	1.25	0.0	0.0
RECP.	NEC	0.0	0.0
MOTOR	NEC	26.0	72.2
HEAT	1.00	23.2	64.3
KITCHEN	NEC	0.0	0.0
OTHER	1.00	0.0	0.0
TOTAL		49.2	136.5

PHASE A	13340
PHASE B	19612
PHASE C	13204

1. PROVIDE HACR BREAKER TO SERVE EACH HVAC UNIT AND PROVIDE LOCAL DISCONNECT WITH MOCP FUSE RATING AS REQUIRED.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION OF EACH MOTORIZED DAMPER WITH HVAC AND PROVIDE 120V POWER AS REQUIRED.
3. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF TYPE OR WITH NEMA 3R ENCLOSURE.
4. PROVIDE NEUTRAL WIRE WITH THE SAME SIZE AS PHASE CONDUCTOR TO EACH CIRCUIT AS REQUIRED.

NOTES:
NEC. PROVIDE UL SERIES RATED MAIN BREAKER TO WITHSTAND 65K AIC. FULL NEUTRAL & GROUND BUS. PLUG-ON CIRCUIT BREAKERS. PROVIDE ARC FAULT BREAKERS TO SERVE ALL ELECTRICAL IN EACH GUEST ROOM PER NEC 2008

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PROVIDE HACR BREAKER TO SERVE EACH HVAC UNIT
IN CASE OF SERIES RATED SYSTEM IS PROVIDED BY THE CONTRACTOR, THIS PANEL SHALL BE UL LISTED AND RATED TO WORK WITH THE UPSTREAM PANEL. OTHERWISE, PROVIDE A FULLY RATED SYSTEM AS SHOWN.

STATE OF TEXAS
ANDREW J. MOK
83057
REGISTERED
PROFESSIONAL ENGINEER
05-24-10

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ANDREW J. MOK P.E. #83057 ON MAY 24, 2010 FOR THE PURPOSE OF BIDDING, PERMITTING & & REVIEW ONLY. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE ABOVE ENGINEER IS AN OFFENSE TO THE TEXAS STATE BOARD RULES.

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REVISIONS	BY

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DALLAS, TEXAS

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