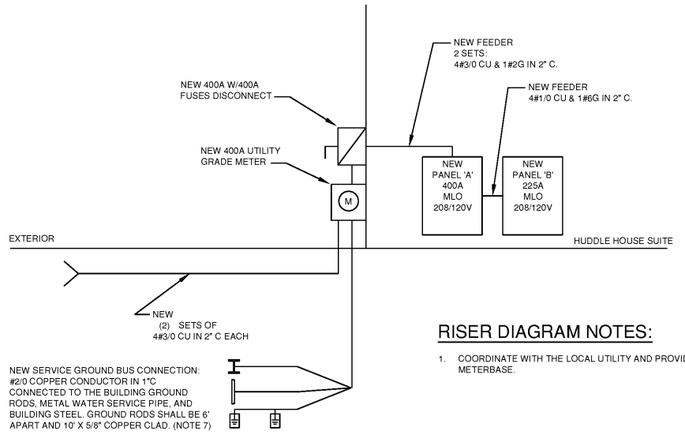
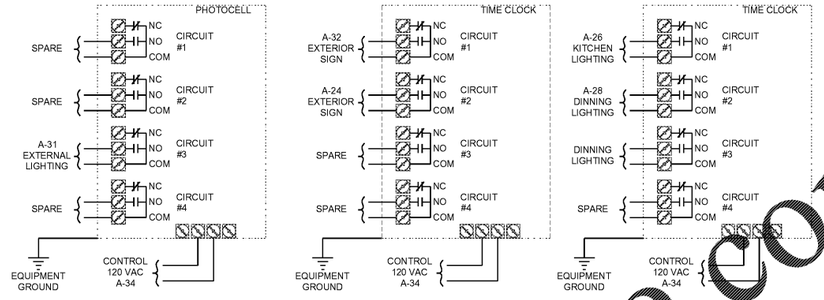


RISER DIAGRAM

NO SCALE

RISER DIAGRAM NOTES:

1. COORDINATE WITH THE LOCAL UTILITY AND PROVIDE AN APPROVED 400A NEMA 3R METERBASE.



TIME CLOCK DETAIL

NO SCALE

PANEL NAME: A			LOCATION: BACK OF HOUSE	VOLTAGE: 208 Y/ 120V 3 PHASE 400A MLO					MOUNTING / ENCLOSURE: SURFACE / NEMA 1 NEW				
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION	TYPE	POLES	AMPS
20	1	L	SHOW WINDOW	1.80	1	3.60			2	1.80	POS W/ CASH DRAWER (A6.0)	R	1	20
20	1	L	SHOW WINDOW	1.80	3		3.60		4	1.80	POS (A6.1)	R	1	20
20	1	R	ROOF RECEPTACLES	1.80	5			3.60	6	1.80	POS (A6.1)	R	1	20
20	1	R	WET CONTROLS	1.20	7	1.81			8	0.61	XCP-1	M	1	20
20	1	R	RECEPTACLE OFFICE	1.80	9		5.83		10	4.03	RTU-1	AC	3	50*
20	1	R	WIFI SYSTEM	1.00	11			5.03	12	4.03		AC		
50*	3	AC	RTU-2	4.03	13	8.10			14	4.03		AC		
		AC		4.03	15		5.87		16	1.80	RECEPTACLE BOOTS	R	1	20
		AC		4.03	17			5.87	18	1.80	RECEPTACLE BOOTS	R	1	20
20	3	M	F-1	0.36	19	0.46			20	0.10	F-4 E-5	M	1	20
		M		0.36	21		2.16		22	1.80	RECEPTACLE GENERAL	R	1	20
		M		0.36	23			1.36	24	1.00	SIGN	L	1	20
20	3	M	F-2	0.36	25	1.36			26	1.00	KITCHEN LIGHTING	L	1	20
		M		0.36	27		1.36		28	1.00	DINING LIGHTING	L	1	20
		M		0.36	29			1.36	30	1.00	DINING PENDANTS	L	1	20
20	1	M	F-3	0.69	31	1.69			32	1.00	SIGN	L	1	20
20	1	R	OFFICE RECEPTACLES	0.90	33		1.80		34	0.60	CONTACTOR/PHOTOCELL	R	1	20
20	1	R	OFFICE RECEPTACLES	0.90	35			1.08	36	0.18	RECEPT AT PANELS	R	1	20
200	3	T	PANEL B	23.80	37	24.16			38	0.36	TELEPHONE BACKBOARD	R	1	20**
		T		21.30	39		21.66		40	0.36	TELEPHONE BACKBOARD	R	1	20**
		T		22.20	41			23.40	42	1.20	RECEPTACLE RESTROOM	R	1	20
PHASE TOTAL:				41.2		42.0		41.7	KVA					
**PROVIDE ISOLATED GROUND BAR											TOTAL CONNECTED LOAD		125 KVA	347 A
*PROVIDE HACR TYPE CIRCUIT BREAKER											TOTAL DEMAND LOAD		122 KVA	339 A

L	LIGHTING	8.9		10.8
R	RECEPTACLE	21.1		15.6
M	MOTOR	3.6	2.4	4.2
H	HEATING	0.0		24.3
AC	AC	24.3		
K	KITCHEN	0.0	65%	0.0
	MISCELLANEOUS	0.0		0.0
T	TRANSFORMED FROM SUB PANEL	67.3		67.3

FILL IN KVA OF LARGEST MOTOR
AND DIVERSITY FACTOR FOR KITCHEN

PANEL NAME: B			LOCATION: BACK OF HOUSE	VOLTAGE: 208 Y/ 120V 3 PHASE 225A MLO					MOUNTING / ENCLOSURE: SURFACE / NEMA 1 NEW				
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	B	C	CKT	KVA	CIRCUIT DESCRIPTION	TYPE	POLES	AMPS
20	1	K	BEVERAGE DISPENSER (A1.0)	0.12	1	2.52			2	2.40	WAFFLE BAKER (C8.0)	K	1	25
20	1	K	JUICE DISPENSER (A2.0)	0.84	3		3.24		4	2.40	WAFFLE BAKER (C8.0)	K	1	25
20	1	K	COFFEE BREWER (A3.0)	1.50	5			3.78	6	2.28	TOASTER OVEN (C10.0)	K	1	20
20	1	K	WARMER FOOD ELECTRIC (A4.0)	1.20	7	3.48			8	2.28	TOASTER OVEN (C10.0)	K	1	20
20	1	K	WARMER FOOD ELECTRIC (A4.0)	1.20	9		3.00		10	1.80	INDUCTION WARMER (C11.0)	K	1	20
20	1	K	WARMER FOOD ELECTRIC (A4.0)	1.20	11			2.00	12	1.80	INDUCTION WARMER (C11.0)	K	1	20
20	1	K	TEA BREWER (A5.0)	1.80	13	4.08			14	2.28	DISHWASER (P6.0)	K	1	15
20**	1	R	CORDLESS PHONE (A7.0)	0.40	15		1.60		16	1.20	REACH IN FREEZER (C1.0)	K	1	20
20**	1	R	CORDLESS PHONE (A7.1)	0.40	17			1.24	18	0.84	SANDWICH UNIT (C2.0)	K	1	20
20*	1	R	FRY TIMER (A11.0)	0.50	19	0.50			20		SHUNT TRIP		1	20
20	1		SHUNT TRIP		21		0.96		22	0.96	SALAD TOP (R3.0)	K	1	20
20	1	R	FRY TIMER (A11.0)	0.50	23			1.50	24	1.00	HOOD SUPRESION SYST	K	1	20
20	1		SHUNT TRIP		25	0.50			26	0.50	WORKTOP FRIDGE (R4.0)	K	1	20
20	1	K	OMELETTE MIXER (C4.0)	1.00	27		1.50		28	0.50	WORKTOP FRIDGE (R4.1)	K	1	20
20	1		SHUNT TRIP		29			0.50	30	0.50	WORKTOP FRIDGE (R4.1)	K	1	20
20	1	L	OUTSIDE LIGHTING	1.80	31	3.60			32	1.80	[illegible]AKER (R5.1)	K	1	20
20	1	R	TV	1.20	33		1.92		34	0.72	SANDWICH UNIT (R6.0)	K	1	20
20	1		SPARE		35			2.80	36	2.80	[illegible]ALK-IN COOL COND. (R7.3)	K	2	35
20	2	K	MICROWAVE (C5.0)	1.50	37	4.30			38	2.80		K		
		K		1.50	39		4.30		40	2.80	WALK-IN FREEZER COND (R8.3)	K	2	35
20	2	K	MICROWAVE (C5.0)	1.50	41			4.30	42	2.00	[illegible]ED SYSTEM	K	1	20
		K		1.50	43	2.50			44	0.60	WALK-IN COOL LTS (R7.1)	K	1	20
20	2	K	MICROWAVE (C5.0)	1.50	45		1.80		46	0.30	WALK-IN COOL EVA (R7.2)	K	1	20
		K		1.50	47			1.80	48	0.30	WALK-IN FREEZER LTS (R8.1)	K	1	20
20	1		SHUNT TRIP		49	0.30			50	0.30	WALK-IN FREEZER EVA (R8.2)	K	1	20
20	1	K	OVEN (C-7.0)	1.80	51		1.80		52	0.30	BAGIN BOX (A19.0)	K	1	20
20	1	K	HOLDING UNITS (C9.0)	1.50	53	2.70			54	1.80	BAGIN BOX (A19.0)	K	1	20
20	1	R	PRINTER (A12.0)	1.00	55		2.00		56	1.00	GAS SOLENOID	R	1	20
20	1		SHUNT TRIP		57			20	58	1.20	FRYER BATTERY (C1.0)	K	1	20
20	1		SPARE		59				60		SHUNT TRIP		1	20
PHASE TOTAL:				22.8		21.3		22.2	KVA					
**PROVIDE ISOLATED GROUND BAR											TOTAL CONNECTED LOAD		67 KVA	187 A
*PROVIDE HACR TYPE CIRCUIT BREAKER											TOTAL DEMAND LOAD		47 KVA	129 A

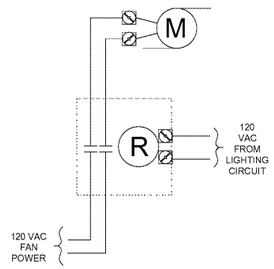
L	LIGHTING	1.8		2.3
R	RECEPTACLE	5.9		5.9
M	MOTOR	0.0	2.4	0.0
H	HEATING	0.0		0.0
AC	AC	0.0		
K	KITCHEN	60.5	65%	39.3
	MISCELLANEOUS	0.0		0.0
T	TRANSFORMED FROM SUB PANEL	0.0		0.0

FILL IN KVA OF LARGEST MOTOR
AND DIVERSITY FACTOR FOR KITCHEN

LOAD SUMMARY

VOLTAGE: 208 Y/ 120V

CIRCUIT DESCRIPTION	PANEL A	PANEL B	CONNECTED	DEMAND
LIGHTING	8.9	1.8	10.40	12.90
RECEPTACLE	21.1	5.9	26.10	18.05
MOTOR	3.6	0.0	5.80	x 64
HEATING	0.0	0.0	0.00	0.00
COOLING	24.3	0.0	24.30	24.30
KITCHEN	0.0	60.5	60.50	39.33
		NEW TOTAL DIVERSIFIED KVA		103
		NEW TOTAL DIVERSIFIED AMPS		287



EXAMPLE OF MOTOR SWITCH

NO SCALE

Order Plans @ WWW.LDILine.com

NORWOOD ARCHITECTS
807 torreesl. NW
allonlo, georglo 30318
ph. 678-921-0302 fax. 678-921-0301
www.norwoodarchitects.com

JOB NO.

HUDDLE HOUSE
EVO 2000 RESTAURANT
40 US HWY 84 CAIRO, GA
GRADY CO. 39828

NO.	ISSUE DATE

DRAWING NUMBER

E400

ELECTRICAL DETAILS & SCHEDULES