		Panel: A														
		VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4				SIZE/	RATING:	ELECTE 225 A SURFA		OSET			TYPE: NEMA1 AIC RATING: 22kA GROUND BUS: SN			
скт	Wire Size	Description	Trip	Poles	A			В		С	Poles	Trip	Description		Wire Size	СКТ
1	1-#12, 1-#12, 1-#12	/1\ *COFFEE.	20 A	1	540	720					1	20 A	EVAP-1 & EVAP -2, CO	OLER	1-#12, 1-#12, 1-#12	2
3	1-#12, 1-#12, 1-#12	RESTROOM RECEP./URINAL	20 A	1			720	1080			1	20 A	SALES RECEPTACE	_ES	1-#12, 1-#12, 1-#12	4
5	1-#12, 1-#12, 1-#12	OUTSIDE RECEPTACLES	20 A	1					900	1088	1	20 A	CASHIER/UTILITY/RR LIG	HTS/FAN	1-#8, 1-#8, 1-#8	6
7					0	180					1	20 A	P.O.S. EQUIP/SAFE/INTI	ERCOM	1-#12, 1-#12, 1-#12	8
9				-			0	360			1	20 A	LOTTERY (ISO)		1-#12, 1-#12, 1-#12	10
11	1-#12, 1-#12, 1-#12	COOLER DOOR HEATER	20 A	1					738	126	1	20 A	EXTERNAL WALL PA	ACK	1-#12, 1-#12, 1-#12	12
13	1-#12, 1-#12, 1-#12	SALES WINDOW RECEPTACLES	20 A	1	540	900					1	20 A	COOLER RECEPTAGE	CLE	1-#12, 1-#12, 1-#12	14
15	1-#12, 1-#12, 1-#12	BOH RECEPTACLE	20 A	1			360	5283	1							16
17	1-#12, 1-#12, 1-#12	** HAND DRYER	20 A	1					1725	5283	3	50 A	CU-1, COOLER CONDE	NSER	3-#6, 1-#6, 1-#10	18
19	1-#12, 1-#12, 1-#12	WALL WASH/ COOLER LIGHTS	20 A	1	544	5283										20
21	1-#12, 1-#12, 1-#12	ROOF TOP RECPT.	20 A	1			720	120			1	20 A	BEER CAVE SIGN	v I	1-#12, 1-#12, 1-#12	-
23	1-#12, 1-#12, 1-#12	MANAGER'S DESK	20 A	1					360	4563	1	2011	52211 51112 5151	`		24
25				<u> </u>	0	4563			500	4000	3	50 A	CU-2. BEER CAVE CONE	DENSER	3-#6. 1-#6. 1-#10	26
27						1000	0	4563			Ů	5071	OO E, BEEN GIVE GOILE	JENOEN	0 110, 1 110, 1 1110	28
29	1-#12. 1-#12. 1-#12	BOH RECEPTACLE	20 A	1				4000	360	2050						30
31	1-#12, 1-#12, 1-#12	SALES WINDOW RECEPTACLES	20 A	1	180	2050			300	2000	2	30 A	* COFFEE BREWE	R	2-#10, 1-#10, 1-#10	32
		SALES WINDOW RECEPTACLES SALES LIGHT	20 A	-	100	2000	400	700				00.4	0001 FD 0000 1101			
33	1-#12, 1-#12, 1-#12			1			496	738			1	20 A	COOLER DOOR LIGI		1-#12, 1-#12, 1-#12	+
35	1-#12, 1-#12, 1-#12	OPTIONAL FRIDGE	20 A	1					528	900	1	20 A	OUTSIDE RECEPTA	CLE	1-#12, 1-#12, 1-#12	-
37	1-#12, 1-#12, 1-#12	SALES WINDOW RECEPTACLE	20 A	1	180	2050					2	30 A	* COFFEE BREWE	R	2-#10, 1-#10, 1-#10	38
39	2-#10, 1-#10, 1-#10	EVAP-3 & EVAP-4, BEER CAVE	25 A	2			1830	2050								40
41									1830	180	1	20 A	CONVENIENCE OUT	/ \ . I	1-#12, 1-#12, 1-#12	_
43	1-#12, 1-#12, 1-#12	IG BOH RECEPTACLE	20 A	1	180	1800					1	20 A	*CAPPUCCÍNO MÁCH	HINE X1		-
45	2-#8, 1-#8, 1-#10	CU-3, SANDWICH	40 A	2			2880	360			1	20 A	*CREAMER	الربه	1-#12, 1-#12, 1-#12	_
47		MERCHANDISER CONDENSER							2880	0			0 0 0 0			48
49					0	0										50
51							0	0								52
53									0	0						54
			Total L Total A		19706 \ 164 A			13 VA 12 A		3490 VA 198 A]					
NOTES	S: * GFCI CIRCUIT ** PROVIDE LOC		TOTAL A	inps.	104 A		10	2.1		150 A						
Load (Classification			Connecte		Dei	nand Fa		Est	imated Deman	d		Panel To	otals		
Cooling				29538			100.00%			29538 VA				4700 1 / 4		
Equipn Lightin				2445 1867			100.00%			2445 VA 2334 VA			Total Conn. Load: 6-			
Motor	.a			9421			100.00%		1	9421 VA				80 A		
Other				2346	VA		100.00%			2346 VA			Total Est. Demand: 16	68 A		
Recep	tacle			19168	3 VA		76.09%			14584 VA	_					
Notes:									1							

		Panel: B														
		VOLTAGE: 208/120V <u>PHASE: 1</u> <u>WIRE: 3</u>				SIZE	OCATION: I	225 A		ET		TYPE: NEMA1 AIC RATING: 10kA GROUND BUS: SN				
скт	Wire Size	Description	Tri	ip Pole	es	,	4		В	Poles	Trip	Description	Wire Size	СКТ		
1			-			0	1260 VA			2	20 A	2 HP PRODUCT PUMP REGULAR 1	2-#10, 1-#10, 1-#10	2		
3			-					0 VA	1260 VA] -	20 A	211F FRODOCT FOWE REGULARY	2-#10, 1-#10, 1-#10	4		
5 7	2-#12, 1-#12, 1-#12	PUMP DISPENSER #1 & #2 (SWIT NEUTRAL)	CHED 20	A 2		900	1260 VA	0 VA	1260 VA	2	20 A	2HP PRODUCT PUMP REGULAR 2	2-#10, 1-#10, 1/#10	8.		
9	2-#10, 1-#10, 1-#10	PUMP DISPENSER #3 & #4 (SWIT NEUTRAL)	CHED 20	A 2		900	1260 VA	0 VA	1260 VA	2	20 A	2HP PRODUCT PUMP DIESEL	2-#10, 1-#20, 1-#10			
13 15	2-#10, 1-#10, 1-#10	PUMP DISPENSER #5 & #6 (SWIT NEUTRAL)	CHED 20	A 2		900	1260 VA	0 VA	1260 VA	2	20 A	2HP PRODUCT PUMP PREMIUM	2-#10, 1-#40, 1-#1	14		
17 19	2-#10, 1-#10, 1-#10	PUMP DISPENSER #7 & #8 (SWIT NEUTRAL)	CHED 20	A 2		900	900 VA	OVA	0 VA	2	20 A	PUMP DISPENSER #15 & #16 (SWITCHED NEUTRAL)	2-#10, 1-#10	20		
21 23	2-#10, 1-#10, 1-#10	PUMP DISPENSER #9 & #10 (SWITNEUTRAL)	TCHED 20	A 2		900	900 VA	0 VA	0 VA	2	20 A	PUMP DISPENSER #17 & #18 (SWITCHED NEUTRAL)	2 #10, 1-#10, 1-#10	22 24		
25 27	2-#10, 1-#10, 1-#10	PUMP DISPENSER #11 & #12 (SWI NEUTRAL)	TCHED 20	A 2		900	900 VA	0 VA	0 VA	2	20 A	PUMP DISPENSER #19 20 (STITCHED NEUT	2-#10, 1-#10, 1-#10	26 28		
29 31	2-#10, 1-#10, 1-#10	PUMP DISPENSER #13 & #14 (SWI NEUTRAL)	TCHED 20	A 2		900	0 VA	0 VA	0 VA		/			30 32		
33	1-#12, 1-#12, 1-#12	VEEDER ROOT	20	A 1		360	360 VA		1	1	Milion.	W VOLTAGE DISCONNESS POWER	1-#12, 1-#12, 1-#12	34		
35			-					0 VA	1260 VA	Alle.	3000	F MADDICT PUMP	2-#10. 1-#10. 1-#10	36		
37						0	1260 VA		•		20 7/	CIFOWE	2-#10, 1-#10, 1-#10	38		
39								0 VA	200 VA	1///		SW ONTROLLER CIRCUIT	1-#12, 1-#12, 1-#12	40		
41						0	0 VA	6500 VA	1	🔻	W),:	<i>"</i>		42		
				tal Load: tal Amps:	. L		2 A	63 A 🚜		J	W	,				
NOTES	:			ui raiipo.		4		aun. H	W.		y					
Load C	lassification		Connec	ted Load		Mh	mand Fact	or	**Stima	ted Dem	and	Panel Totals				
Equipm	ent			0 VA		*///	100.00	/ 3		200 VA						
Motor				O VA			0.00			AV 0800		Total Conn. Load: 22520				
Recepta	acle ST MOTOR		720 252	I VA	-	-	25 200%			20 VA 300 VA		Total Est. Demand: 26300 Total Conn.: 108 A	VA			
-AINGE	31 WOTOK		232		gm					300 VA		Total Est. Demand: 126 A				
			[]													
		<i></i>		Wh. `												

		VOLTAGE: 208/120V				OCATION: I	EI ECTDIC	AL CLOSE	т		TYPE: NEMA1		
		PHASE: 1				E/RATING: 2		AL CLUSE	-1		AIC RATING: 22kA		
		WIRE: 3				OUNTING:					GROUND BUS: SN		
кт	Wire Size	Description	Trip	Poles		A		В	Poles	Trip	Description	Wire Size	Сн
1		-			0	1620 VA			1	20 A	PRICE SIGN CONTROLLERS	1-#10, 1-#10, 1-#10	1
3	2-#10, 1-#10, 1-#10	CANOPY DOWNLIGHT	20 A	2			1296 VA	525 VA	1	20 A	MURPHY EXPRESS LOGO	1-#10, 1-#10, 1-#10	F
7				-	1296	1620 VA	1296 VA	600 VA	1	20 A 20 A	PRICE SIGN HIGHTS (*TEA TOWER/CREAMER)1	1-#10, 1-#10, 1-#10 1-#12, 1-#12, 1-#12	+
9	2-#10, 1-#10, 1-#10	CANOPY DOWNLIGHT	20 A	2	1296		1290 VA	OUUVA		20 A	TEA TOWERCREAMER 3.1	1-#12, 1-#12, 1-#12	+
11					1430		1296 VA	0 VA				-	+
3	2-#10, 1-#10, 1-#10	CANOPY DOWNLIGHT	20 A	2	1296	0 VA			-	-		-	$^{+}$
5				.			640 VA	0 VA				_	$^{+}$
7	2-#10, 1-#10, 1-#10	CANOPY DOWNLIGHTS	20 A	2	640	0 VA						-	T
9	1-#12, 1-#12, 1-#12	UPS	20 A	1			900 VA	120 VA	1	20 A	PANEL B CONTACTOR	1-#12, 1-#12, 1-#12	Ť
1		-			0	640 VA			1	20 A	CANOPY DOWNLIGHTS	1-#10, 1-#10, 1-#10	T
3	1-#12, 1-#12, 1-#12	MURPHY LOGO ON ROOF	20 A	1			600 VA	640.VA	1	20 A	CANOPY DOWNING TO	1-#10, 1-#10, 1-#10	T
5					0	0 VA						<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>	
7	1-#12, 1-#12, 1-#12	MURPHY STAR	20 A	1			500 VA	0 VA				-	Ι
9					0	Q VA							
1	1-#10, 1-#10, 1-#10	FLOOR RECEPTACLE	20 A	1			1440 VA	0 VA				-	\perp
3	1-#12, 1-#12, 1-#12	** HAND DRYER	20 A	1	1725	0 VA				- /	4 1 1 1	-	\perp
5							0 VA	2640 VA	1	30 A	BANGER/E VAC/AIR	1-#10, 1-#10, 1-#10	1
7	1-#12, 1-#12, 1-#12	BEVERAGE COOLER	20 A	1	1440	0 VA			-	- 1	-	-	1
9							0 VA	360 VA		20 A 📆	***HEAT TRACE	1-#12, 1-#12, 1-#12	1
1	1-#12, 1-#12, 1-#12	EF-3, EF-4	20 A Total	1	238	0 VA 11 VA	12853 VA	<i></i>	<i>yy</i>			-	
			Total				12003 VA	- W/	1)				
TES:	* GFCI CIRCUIT BREA	KER			- 1	4 ^	n ffrag	b. "	undlli				
	** PROVIDE LOCKED BE	REAKER *** PROVIDE	30mA GFEP B				W	Wh. "					
	assification		Connected		D	emann Fact	o?///		ted Dem	and	Panel Totals		
uipme ating			2945 VA			100.00	· Who		945 VA 60 VA		Total Conn. Load: 24664	\/Δ	
	- Exterior		14/801 V	A "Wh		125.00%			626 VA		Total Est. Demand: 28189		_
tor			- Many			10,00%			340 VA		Total Conn.: 119 A	***	
ner			5 900 A		Mr.	100000		5	98 VA		Total Est. Demand: 136 A		

Wire Size # 12, 112 #1 1- 12 #12, 1-#12 #12, 1-#12 #12, 1-#12 #12, 1-#12 #12, 1-#12	PHA 1 WIR 3 **Scription **FOUNTAIN RECEPTACLE **BEVERAGE ICE MAKER CO2 MONITOR (2 EA) ATMAISO	Trip 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1			225 A SURFACI E		Poles 1 1	Trip 20 A 20 A	AIC RATING: 22kA GROUND BUS: SN Description *BEVERAGE ICE MAKER *HOT DOG ROLLER	Wire Size 1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12	CKT
#1 #12, #12 #1 1-, 12 #12 1-#12, 2 -#12, 1-#12 -#12, #12, 1-#12	*FOUNTAIN RECEPTACLE *BEVERAGE ICE MAKER 11 *PIZZA WARMER CO2 MONITOR (2 EA) -ATM/HSQ)	20 A 20 A 20 A 20 A	Poles 1 1 1 1 1	625	950			Poles 1	20 A	Description *BEVERAGE ICE MAKER	1-#12, 1-#12, 1-#12	2
-#1 1 12 #12 1-#12, 2 -#12, 1-#12 -#12, 1-#12	*BEVERAGE ICE MAKER ** PIZZA WARMER CO2 MONITOR (2 EA) ATM/HSO)	20 A 20 A 20 A	1 1 1 1			950	1596	1				_
#12 1-#12,	PIZZA WARMER CO2 MONITUR (2 EA) ATM/4150)	20 A 20 A	1 1 1	960	1560	950	1596	1	20 A	*UOT DOC DOLLED	1 #10 1 #10 1 #10	
-#12, 1-#12 -#12, 1-#12	CO2 MONITOR (2 EA)	20 A	1	960	1860					July I DON KOLIJEK	1-#12, 1-#12, 1-#12	4
-#12, #12, 1-#12	ATM/HSO)		1					1	20 A	UPRIGHTEREEZER	1-#12, 1-#12, 1-#12	6
		20 A				360	1596	1	20 A	(*HOT DOG ROLLERY1)	1-#12, 1-#12, 1-#12	8
-#12 1-#12 1-#12	(*ECONOE)(1)		ו ן	1200	2500		2	2	30 A	*ICEE MACHINE	2-#10, 1-#10, 1-#10	10
,	(*ECO3ICE Y1\	20 A	1		W/1	480	2500		30 A	ICEE MACHINE	2-#10, 1-#10, 1-#10	12
				0	180	~~	~ //: \	1	20 A	ELECTRICAL CLOSET RECP.	1-#12, 1-#12, 1-#12	14
2-#10, 1-#10, 1-#10	*ICEE_MACHINE	30 A	2			2500	864	1	20 A	EXTERIOR ICE BIN	1-#10, 1-#10, 1-#10	16
	TO SEE WARRINGS	30 A	2	2500	864	~ / I		1	20 A	EXTERIOR-ICE BHI	1-#10, 1-#10, 1-#10	18
-#12, 1-#12, 1-#12	*FOUNTAIN RECEPTACLE 21	20 A	1		r	625	780	1	20 A	(*CARBONATOR X1	1-#12, 1-#12, 1-#12	20
-#12, 1-#12, 1-#12	*CARIBBEAN CREAM MACHINE	20 A	1	1440	0			-				22
-#12, 1-#12, 1-#12	(*CARIBBEAN CREAM MACHINE \	20 A	1			1440	1800	1	20 A	{ *MICROWAVE }1\	1-#12, 1-#12, 1-#12	24
-#12, 1-#12, 1-#12	*water Booster	20 A	1	840	0			-		ميص		26
-#12, 1-#12, 1-#12	SANDWICH MERCHANDISER	20 A	1			936	6000	2	75 A	WATER HEATER	2 #4 1 #4 1 #8	28
				0	6000				75 A	WAILINGEALER	2-17-1, 1-17-4, 1-17-0	30
						2151						
	#12, 1-#12, 1-#12 #12, 1-#12, 1-#12 #12, 1-#12, 1-#12	#12, 1-#12, 1-#12	#12, 1-#12, 1-#12 (*CARIBBEAN CREAM MACHINE 20 A #12, 1-#12, 1-#12	#12, 1-#12, 1-#12	#12, 1-#12, 1-#12	#12, 1-#12, 1-#12	#12, 1-#12, 1-#12	#12, 1-#12, 1-#12	#12, 1-#12, 1-#12	#12, 1-#12, 1-#12	#12, 1-#12	#12, 1-#12

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Equipment	18743 VA	100.00%	18743 VA		
Motor	1980 VA	100.00%	1980 VA	Total Conn. Load:	41121 VA
Receptacle	20410 VA	74.50%	15205 VA	Total Est. Demand:	35917 VA
				Total Conn.:	198 A
				Total Est. Demand:	173 A

	Pan	el: MDP													
	VOLTA	AGE: 208Y/120V				LO	CATION:	ELECT	RICAL CL	OSET			TYPE: NE	EMA1	
		ASE: 3					RATING:						AIC RATING: 35		
	<u>w</u>	/IRE: 4				МО	UNTING	: SURF	ACE				GROUND BUS: SN	<u> </u>	
CK T	Wire Size	Description	Trip	Poles	,	A		3	(;	Poles	Trip	Description	Wire Size	CK T
1					7446	7446									2
3	3-#4, 1-#4, 1-#8	RTU-1	70 A	3			7446	7446			3	70 A	RTU-2	3-#4, 1-#4, 1-#8	4
5									7446	7446					6
7	2-#4/0, 1-#4/0, 1-#4	PANEL B	225 A	2	16020	19706									8
9	2-8-90, 1-8-90, 1-8-9	TANCED	ZZOA				6500	21543			3	225 A	PANEL A	3-#4/0, 1-#4/0, 1-#4	10
11	2-#4/0, 1-#4/0, 1-#4	PANEL C	225 A	2					11811	23490					12
13	2-8-90, 1-8-90, 1-8-9	TARLES			12853	19619					2	225 A	PANEL D	2-#4/0, 1-#4/0, 1-#4	14
15		-					0	21511			-	223 A	TANLED	2-11-10, 1-11-10, 1-11-1	16
17									0	0					18
			Total	Load:		0 VA 1 A		4 VA 5 A	5019						

OTES:								
DANIEL	D CIDCUIT	DDEAKED	TO DE	ecoice	DATED	EOD	10 K	AIC.

ad Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
oling	51876 VA	100.00%	51876 VA		
uipment	33323 VA	100.00%	33323 VA	Total Conn. Load:	197712 VA
AC	22338 VA	100.00%	22338 VA	Total Est. Demand:	188315 VA
ating	360 VA	100.00%	360 VA	Total Conn.:	549 A
hting	1867 VA	125.00%	2334 VA	Total Est. Demand:	523 A
hting - Exterior	14101 VA	125.00%	17626 VA		
tor	24121 VA	100.00%	24121 VA		
ner	2944 VA	100.00%	2944 VA		
ceptacle	44318 VA	61.28%	27159 VA		
RGEST MOTOR	2520 VA	250.00%	6300 VA		

GreenbergFarrow
1430 West Peachtree, NW
Suite 200
Atlanta, GA 30309
t: 404.601.4000

ISSUE RECORD ### DESCRIPTION | |
S7/20/2020 | PERMIT SUBMISSION SET |
S8/07/2020 | 1 OUT TO BID SET |





PROFESSIONAL IN CHARGE FLOYD KEELS

PROJECT MANAGER ERIC WONG QUALITY CONTROL FRANK TROWBRIDGE

DRAWN BY MUSTAPHA CEESAY

PROJECT NAME

MURPHY EXPRESS

MURPHY OIL CONVENIENCE STORE

NW CORNER HWY 1 & OAK DRIVE, LEXINGTON SOUTH CAROLINA 29073



1801 Rockdale Industrial Blvd Conyers, Georgia 30012 Voice: (800) 366-6385 Fax: (770) 483-6037

FMS JOB NUMBER G20MU00061 FMS MODEL NUMBER XXXXXX

PROJECT NUMBE 20181975.5

SHEET TITLE

ELECTRICAL PANEL SCHEDULE

SHEET NUMBER

EL4

PROTO V2.0 11/01/2019