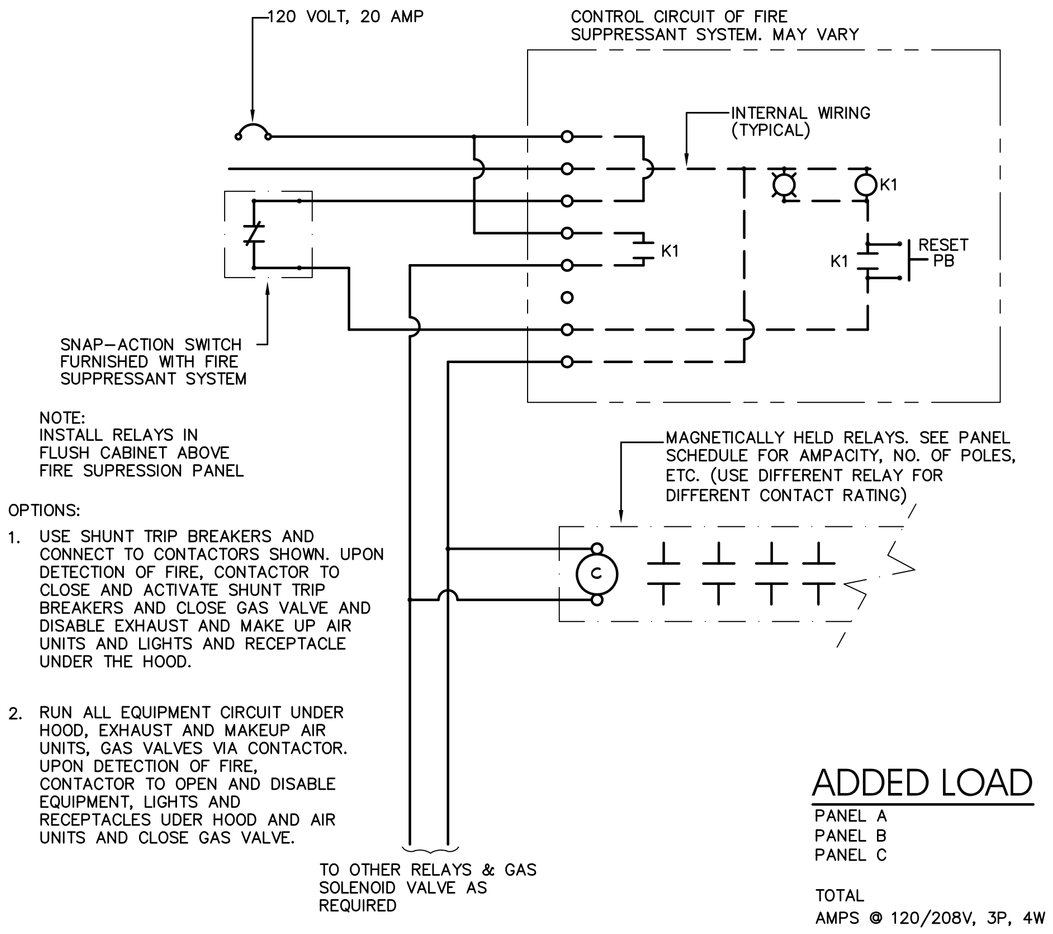
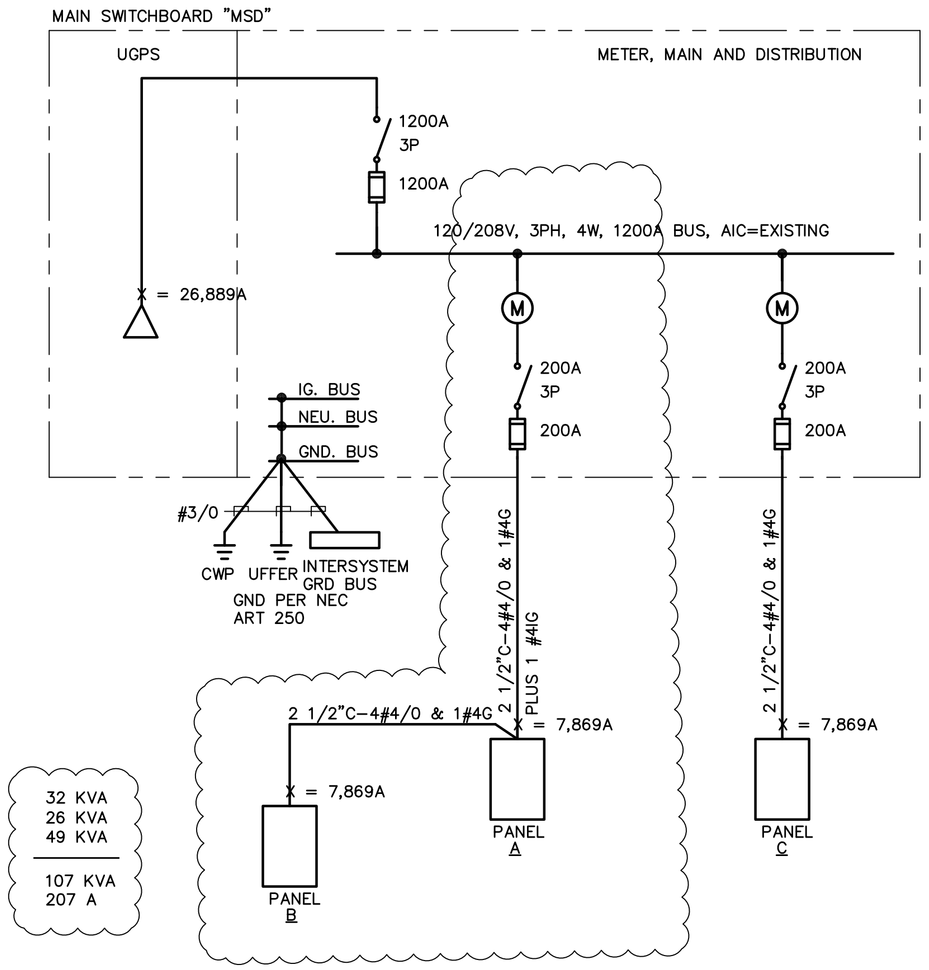


HOOD FIRE SYSTEM INTERLOCK DIAG.

NO SCALE



ADDED LOAD

PANEL A	32 KVA
PANEL B	26 KVA
PANEL C	49 KVA
TOTAL	107 KVA
AMPS @ 120/208V, 3P, 4W	207 A

PARTIAL SINGLE LINE DIAGRAM

NTS

PANEL: A

DATE: 04/14/21 TIME: 10:13:12 JOB: X

PANEL VOLTAGE: 208/120 3Φ 4 W BUS: 200A FEED THRU MAINS: MLO AIC RATING: 10,000

CIRCUIT CODE: blank or N : NON-CONTINUOUS; L : LONG-CONTINUOUS; R : DEMANDABLE RECEPTACLES; K : KITCHEN NO. OF EQUIPMENT: 10

CKT NO	CODE	TRIP	POLE	LOAD DESIGNATION (DESCRIPTION)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	LOAD DESIGNATION (NOTE) DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	K	20	1	POS & PTR #1A1 & #1J2				900				1600						(1) MICROWAVE #5B6	20	/	K	2
3	K	20	1	COFFEE MAKER #4C5					1600				1600					–		2	K	4
5		20	1	SPARE						X				500				UC REF #5B3			K	6
7	K	20	1	COOKING RECYC #6E				1600				240						HOLDING CABINET #5B1			K	8
9		20	1	OFFICE CONV RECEP					540				2250					(1) VENTLESS OVEN #5B2	30	/	K	10
11		20	1	OFFICE RECEPTACLE						360				2250				–		2	K	12
13	K	20	1	CARBONATOR #1C3				500				1200						PREP TABLE #5C			K	14
15		20	1	CONVENIENCE RECEPTS					720				1600					(1) MICROWAVE #5DC	20	/	K	16
17	K	20	1	CONE DIP#4F1 & 4F2						1300				1600				–		2	K	18
19	K	20	/	SINGLE BLAST FRZ #4E (1)				800				500						UC REF #5D3			K	20
21		/	2	–					800				240					HOLDING CABINET #5D1			K	22
23	K	20	1	ICE TEA DISPENSER #4C4						500				2250				(1) VENTLESS OVEN #5B2	30	/	K	24
25	K	20	1	CASH REG #4C1				720				2250						–		2	K	26
27	K	20	1	DRINK HEAD #4D					1500				1300					(1) BUN TOASTER #5F1	20	/	K	28
29	K	20	1	WATER HEATER						960				1300				–		2	K	30
31	K	20	1	HEATED GRAVY #5N2 & RN3				900				1600						(1) MICROWAVE #5F3	20	/	K	32
33	K	20	1	FRY DUMP #5N1					1100				1600					–		2	K	34
35	K	20	1	TOP FRZR #5N						700				X				SPARE	20	1		36
37	K	20	1	DRYER #5K				1000				X						SPARE	20	1		38
39	K	20	1	FRZ #5J & #5H					1000				X					SPARE	20	1		40
41		20	1	RECEPTACLES						720				X				SPARE	20	1		42

PANEL NOTES: PHASE TOTALS ΦA: 7390 ΦB: 15850 ΦC: 7900

(1) GFCI BREAKERS

PROVIDE ISOLATED GROUND BUS FOR THIS PANEL
PROVIDE HANDLE TIE TO BREAKERS WHOSE HOMERUN HAVE COMMON NEUTRAL

TOTAL CONNECTED VA	31140
CONNECTED VA (CODE N)	2060
CONNECTED VA (CODE L)	0
CONNECTED VA (CODE R)	0
CONNECTED VA (CODE K)	29080
PANEL CONNECTED KVA	31.1
PANEL DEMAND KVA	21
PANEL DEMAND AMPS	58.2
HIGH Φ AMPS W/LCL	132.1

PANEL: C

DATE: 11/22/20 TIME: 22:15:13 JOB: X

PANEL VOLTAGE: 208/120 3Φ 4 W BUS: 200A MAINS: MLO AIC RATING: 10,000

CIRCUIT CODE: blank or N : NON-CONTINUOUS; L : LONG-CONTINUOUS; R : DEMANDABLE RECEPTACLES; K : KITCHEN NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESIGNATION (DESCRIPTION)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	LOAD DESIGNATION (NOTE) DESCRIPTION	TRIP	POLE	CODE	CKT NO
1		20	/	REMOTE COMPR #7A1				500				1440						EF-1	20	1		2
3		/		–					500				604					MUA-1	30	/		4
5		/	3	–						500				604				–	/	3		6
7		20	1	FAN COIL COOLER #7A2				240				604						–	/	3		8
9		20	1	COOLER LIGHTS #7A3					1000				X					SPARE	20	1		10
11		20	/	REMOTE COMPR #7A5						1200				X				SPARE	20	1		12
13				–				1200				X						SPARE	20	1		14
15		/	3	–					1200				X					SPARE	20	1		16
17		20	/	FAN COIL #7A6						1000				X				SPARE	20	1		18
19		/	2	–				1000				X						SPARE	20	1		20
21		20	1	FRZR LIGHT #7A4					1000				X					SPARE	20	1		22
23		20	/	COMPRESSOR #1B1						1200				X				SPARE	20	1		24
25		/	2	–				1200				X						SPARE	20	1		26
27		20	/	COMPRESSOR #1B1					1200				X					SPARE	20	1		28
29		/	2	–						1200				X				SPARE	20	1		30
31		20	1	2 DOOR DISPLAY #1B				1320				6480						RTU-2	60	/		32
33		20	1	2 DOOR DISPLAY #1B					1320				6480					–				34
35		20	1	ANSUL SYSTEM						500				6480				–	/	3		36
37		20	1	ROOF RECEPTACLES				360				6480						RTU-1	60	/		38
39		20	1	TOILET RECEPTACLES					360				6480					–				40
41		20	1	SPARE						X				6480				–	/	3		42

PANEL NOTES: PHASE TOTALS ΦA: 15004 ΦB: 20144 ΦC: 13564

PROVIDE HANDLE TIE TO BREAKERS WHOSE HOMERUN HAVE COMMON NEUTRAL

TOTAL CONNECTED VA	48712
CONNECTED VA (CODE N)	48712
CONNECTED VA (CODE L)	0
CONNECTED VA (CODE R)	0
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	48.7
PANEL DEMAND KVA	48.7
PANEL DEMAND AMPS	135.2
HIGH Φ AMPS W/LCL	167.9

PANEL: B

DATE: 04/16/21 TIME: 17:33:55 JOB: X

PANEL VOLTAGE: 208/120 3Φ 4 W BUS: 200A MAINS: MLO AIC RATING: 10,000

CIRCUIT CODE: blank or N : NON-CONTINUOUS; L : LONG-CONTINUOUS; R : DEMANDABLE RECEPTACLES; K : KITCHEN NO. OF EQUIPMENT: 10

CKT NO	CODE	TRIP	POLE	LOAD DESIGNATION (DESCRIPTION)	M	R	L	ΦA	ΦB	ΦC	ABC	ΦA	ΦB	ΦC	L	R	M	LOAD DESIGNATION (NOTE) DESCRIPTION	TRIP	POLE	CODE	CKT NO
1		20	1	CONVENIENCE				540				1200						WINDOW RECEPTACLES	20	1		2
3	K	30	/	SELF SERVE #3C					1960				800					FUDGE PUMP #2E3 & 2E4	20	1	K	4
5	K		/	–						1960				1700				BLIZZARD MACHINE #2E2	20	1	K	6
7	K	/	3	–				1960				1800						ARCTIC RUSH #2F	20	1	K	8
9	K	30	/	SELF SERVE #3C					1960				500					AUTO FILL UNIT #2F1	20	1	K	10
11	K		/	–						1960				2250				VENTLESS OVEN #2G1	30	/	K	12
13	K	/	3	–				1960				2250						–		2	K	14
15	K	30	/	SELF SERVE #3A					1960				500					WORK FRZ #2G	20	1	K	16
17	K		/	–						1960				1500				ICE MACHINE #2J	20	/	K	18
19	K	/	3	–				1960				1500						–		2	K	20
21	K	30	/	SELF SERVE #3A					1960				1440					ICE MAKER #1C2	20	/	K	22
23	K		/	–						1960				1440				–		2	K	24
25	K	/	3	–				1960				1000						ICE TEA DISP # 1C4	20	1	K	26
27	K	20	1	TOPPING CABINET #3B					500				480					DRINK DISP #1C1	20	1	K	28
29	K	20	1	FUDGE PUMP						1000				150				OFFICE LIGHT-MS	20	1		30
31	K	20	1	CONVENIENCE RECEPT				360				800						KITCHEN LIGHTS	20	1		32
33		20	1	SPARE					X				600					DINING LIGHTS	20	1		34
35	K	20	1	WORK TOP FRZR #2G						500				1200				SIGNAGE	20	1		36
37	K	30	/	VENTLESS OVEN #2G1				2250				1200						SIGNAGE	20	1		38
39	K	/	2	–					2250				1200					SIGNAGE	20	1		40
41	K	20	1	BLIZZARD MACHINE #2E2						1700				1200				SIGNAGE	20	1		42

PANEL NOTES: PHASE TOTALS ΦA: 9750 ΦB: 16110 ΦC: 9440

PROVIDE ISOLATED GROUND BUS FOR THIS PANEL
PROVIDE HANDLE TIE TO BREAKERS WHOSE HOMERUN HAVE COMMON NEUTRAL

TOTAL CONNECTED VA	35300
CONNECTED VA (CODE N)	7550
CONNECTED VA (CODE L)	0
CONNECTED VA (CODE R)	0
CONNECTED VA (CODE K)	27750
PANEL CONNECTED KVA	35.3
PANEL DEMAND KVA	25.6
PANEL DEMAND AMPS	71
HIGH Φ AMPS W/LCL	134.3

PROFESSIONAL ENGINEER STATE OF NEBRASKA No.011453 ANTHONY O. ARCHES Exp. 12-31-20 ELECTRICAL
4/16/21

△	DATE	REVISIONS
1	4/15	REV SLD

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LAS VEGAS, NV. 89137
Tel No. (702) 461-2766
Fax No. (702) 240-6637

DAIRY QUEEN
TENANT IMPROMENT
7955 BLUE DIAMOND ROAD
LAS VEGAS, NEVADA

GENERAL NOTES
PANEL SCHEDULES

DRAWN	AOA
CHECKED	AOA
DATE	10-26-2020
SCALE	AS SHOWN
JOB NO.	20095
SHEET	E-2