

PANEL 'K'		SERVICE: 120/208V, 3PH, 4W + G MAIN BUS: 400A I.C. RATING: 10,000A				ENCLOSURE: NEMA 3R MOUNTING: RECESSED BRANCH: NORMAL		
POLE	LOAD DESCRIPTION	TOTAL VA	CB	PH	TOTAL VA	LOAD DESCRIPTION	POLE	
1	LIGHTING		15/1	A	50/3	5000	6 BURNER RANGE	2
3	LIGHTING		15/1	B		5000		4
5	EXTERIOR LIGHTING		15/1	C		5000		6
7	RECEPTACLES		15/1	A	50/3	4000	FRYER	8
9	RECEPTACLES		15/1	B		4000		10
11			15/1	C		4000		12
13	EXIT SIGNS		15/1	A	20/1	1200	REACH IN FREEZER	14
15			15/1	B	30/3	3000	U/C DISHWASHER	16
17	EDH-1	6000	60/3	C		3000		18
19		6000		A		3000		20
21		6000		B	20/1	5400	REACH IN FRIDGE	22
23	SF-1	250	15/3	C	20/1	1200	MICROWAVE	24
25		250		A	20/1	720	PLANETARY MIXER	26
27		250		B	20/1	360	SLICER	28
29	KEF-1	330	15/3	C	20/1	1000	ISLAND PREP TABLE	30
31		330		A	20/1	1000	U/C FRIDGE	32
33		330		B	20/1	1000	U/C COOLER	34
35	RADIANT PANELS	500	15/3	C	15/1		EXHAUST CANOPY	36
37		500		A	20/1	480	SANDWICH SALAD TABLE	38
39		500		B	15/1			40
41	DHWT-1	4000	50/3	C	15/1		ADD	42
43		4000		A	15/1		EM BATTERY PACKS	44
45		4000		B	15/1		EXTERIOR RECEPTACLE	46
47	DHWP-1		15/1	C	15/1		QUAD RECEPTACLES/SALES AREA	48
49	DTV-1		15/1	A	15/1		QUAD RECEPTACLES/SALES AREA	50
51	TP-1		15/1	B	15/1		QUAD RECEPTACLES/SALES AREA	52
53			15/1	C	15/1		SPARE	54
55	HMS-1	125	15/2	A	15/1		SPARE	56
57		125	15/1	B	15/1		SPARE	58
59	SPARE		15/1	C	15/1		SPARE	60

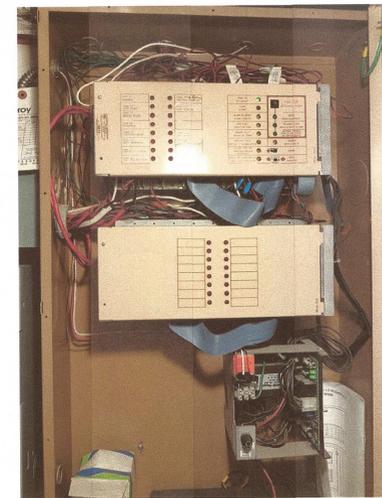
	KVA	AMPS
TOTAL CONNECTED	81.9	
TOTAL DEMAND		



EXISTING FIRE ALARM ANNUNCIATOR

NOTES:

- UPGRADE GRAPHIC TO INCLUDE ADDITIONAL ZONE FOR NEW KITCHEN HOOD DEVICES.
- PROVIDE ADDITIONAL I/O CARD INSIDE CONTROL PANEL TO ACCOMMODATE FIRE ALARM CONTROLS RELATED TO NEW KITCHEN HOOD INSTALLATION.
- PROVIDE F.A. RELAYS TO CONTROL OPERATION OF SUPPLY AND EXHAUST FANS.



EXISTING EST 6632 FIRE ALARM CONTROL PANEL

D1
E-04

#	DESCRIPTION	ELECTRICAL				FIRE ALARM CONNECTION	CIRCUIT NUMBER	BREAKER/POLE	WIRE SIZE	CONNECTION		MOUNTING HEIGHT	REMARKS
		V	PH	KW	HP					JB	REG		
1	6 BURNER RANGE	208	3	15		2,4,6	50/3		DIRECT				
2	FRYER	208	3	12		8,10,12	45/3		DIRECT				
3	- SPARE -												
4	- SPARE -												
5	REACH-IN FREEZER	120	1	1.152	3.4	14	20/1			5-15P			
6	- SPARE -												
7	UNDERCOUNTER DISHWASHER	208	3	9		16,18,20	30/3		DIRECT				
8	REACH IN FRIDGE	120	1	5.4		22	20/1			5-15P			
9	SANDWHICH SALAD PREP TABLE	120	1	0.48		38	20/1			5-15P			
10	MICROWAVE	120	1	1		24	20/1			5-15P			
11	PLANETARY MIXER	120	1	0.72		26	20/1			5-15P			
12	SLICER	120	1	0.36		28	20/1			5-15P			
14	S/S ISLAND PREP TABLE	120	1			30	20/1			5-15P			
15	REACH IN U/C FRIDGE	120	1	0.984		32	20/1			5-15P			
19	U/C COOLER	120	1	0.984		34	20/1			5-15P			
20	EXHAUST CANOPY	120	1	FRAC	FRAC	36	20/1		DIRECT			FIRE ALARM INTERFACE REQUIRED	

MECHANICAL MOTOR LIST											
EQ TAG	UNIT DESCRIPTION	LOCATION	LOAD	V	PH	DISCONNECT	STARTER	PILOT DEVICE	BREAKER	FEEDER	NOTES
EDH-1	ELECTRIC DUCT HEATER	WOMENS WASHROOM	18KW	208	3	E E E	M M M	MS E E E	3P-60A		
SF-1	SUPPLY FAN	SOUTH CANOPY	0.5HP	208	3	E E E	M M M	E E E			1
KEF-1	KITCHEN EXHAUST FAN	SOUTH CANOPY	0.75HP	208	3	E E E	M M M	E E E			1
RP-1	RADIANT PANEL	KITCHEN CEILING	750W	208	3	E E E	M M M	T M M M			
RP-2	RADIANT PANEL	KITCHEN CEILING	750W	208	3	E E E	M M M	T M M M			
DHWT-1	DOMESTIC HOT WATER TANK	JANITOR ROOM BASEMENT	12KW	208	3	E E E	M M M	T M M M			
DHWP-1	DOMESTIC HOT WATER RECIRC. PUMP	JANITOR ROOM BASEMENT	FRAC.	115	1	E E E	M M M				
DTV-1	DRAIN WATER VALVE	CORRIDOR	FRAC.	115	1	E E E	M M M				
TP-1	TRAPPRIMER	CORRIDOR	FRAC.	115	1	E E E	M M M				2
HMS-1	HEAT MAINTENACE SYSTEM	CORRIDOR	250W	208	1	E E E	M M M				3

LEGEND:				NOTES:			
E	BY ELECTRICAL	T	THERMOSTAT	1. FAN TO BE CONTROLLED BY FIRE ALARM PANEL. FAN TO SHUT-DOWN IN CASE OF HOOD SUPPRESSION SYSTEM ACTIVATION. PROVIDE RELAYS AND FA INTERFACE.			
M	BY MECHANICAL	TS	TIME SWITCH	2. PROVIDE TIME SWITCH TO CONTROL SOLENOID VALVE			
MG	MAGNETIC STARTER	MS	MOTOR SWITCH	3. PROVIDE GFCI BREAKER			
VSD	VARIABLE SPEED SWITCH	IN	INTEGRAL TO UNIT				
VFD	VARIABLE FREQUENCY DRIVE	MR	MOTOR RELAY				
D	DDC/BMS						



NOTES:

- RELOCATE PANEL AND REWIRE AS SHOWN ON EXISTING AND REVISED ELECTRICAL PLANS.

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E-04



PROFESSIONAL ENGINEER
J. F. FERNANDEZ
33531
NOV 29 2017

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	2017/11/30

PARKS CANADA

Project title/Titre du projet
23433 Mavis Avenue
Fort Langley, British Columbia

FORT LANGLEY NATIONAL HISTORIC PARK KITCHEN UPGRADE

Consultant Signature Only

Designed by/Concept par M.K.

Drawn by/Dessiné par W.E.

PWSC Project Manager/Administrateur de Projets TPSGC
TOM DUNPHY

Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

POWER DISTRIBUTION AND MISCELLANEOUS DETAILS

Project No./No. du projet
R.081108.001

Sheet/Feuille
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OF 4

Revision no./
La Révision no.