

PANEL 'LSA'		VOLTAGE : 120/240V BUS : 100A		PHASE : 1 WIRE : 3	
DESCRIPTION	LOAD WATTS	BKR SIZE	CIRCUIT	BKR SIZE	LOAD WATTS
EXIT SIGNS - ACCOMMODATION	150	15	1-2	15	340
			3-4		
			5-6		
			7-8		
			9-10		
			11-12		
HTG. : 0KW		LTG. : 0.5KW		MTR. : 0KW	
				MISC. : 0KW	
				TOTAL : 0.5KW	

PANEL 'LSO'		VOLTAGE : 120/240V BUS : 100A		PHASE : 1 WIRE : 3	
DESCRIPTION	LOAD WATTS	BKR SIZE	CIRCUIT	BKR SIZE	LOAD WATTS
EXIT SIGNS - OFFICE	250	15	1-2	15	376
CO PANEL	500	15	3-4		
			5-6		
			7-8		
			9-10		
			11-12		
HTG. : 0KW		LTG. : 0.6KW		MTR. : 0KW	
				MISC. : 0.5KW	
				TOTAL : 1.1KW	

PANEL 'LSG'		VOLTAGE : 120/240V BUS : 100A		PHASE : 1 WIRE : 3	
DESCRIPTION	LOAD WATTS	BKR SIZE	CIRCUIT	BKR SIZE	LOAD WATTS
EXIT SIGNS - GARAGE	50	15	1-2	15	104
			3-4		
			5-6		
			7-8		
			9-10		
			11-12		
HTG. : 0KW		LTG. : 0.2KW		MTR. : 0KW	
				MISC. : 0KW	
				TOTAL : 0.2KW	

LOAD SUMMARY (PANEL LSA)	Demand Factor	Connected Load	Demand Load
Heating	0.75	.00 kW	.00 kW
Lighting	1.00	.49 kW	.49 kW
Refrigeration/Motor	0.75	.00 kW	.00 kW
Miscellaneous	0.50	.00 kW	.00 kW
<b>TOTAL LOAD</b>		<b>.49 kW</b>	<b>.49 kW</b>
Current (I <sub>c</sub> ) at 240V		2.04 Amps	2.04 Amps
x Spare Capacity 25%		2.55 Amps	2.55 Amps

LOAD SUMMARY (PANEL A)	Demand Factor	Connected Load	Demand Load
Heating	0.75	15.35 kW	11.51 kW
Lighting	1.00	.76 kW	.76 kW
Refrigeration/Motor	0.75	.00 kW	.00 kW
Miscellaneous	0.50	29.45 kW	14.73 kW
<b>TOTAL LOAD</b>		<b>45.56 kW</b>	<b>27.00 kW</b>
Current (I <sub>c</sub> ) at 240V		189.83 Amps	112.49 Amps
I <sub>c</sub> = I <sub>c</sub> x Spare Capacity 25%		237.29 Amps	140.61 Amps

LOAD SUMMARY (PANEL LSO)	Demand Factor	Connected Load	Demand Load
Heating	0.75	.00 kW	.00 kW
Lighting	1.00	.63 kW	.63 kW
Refrigeration/Motor	0.75	.00 kW	.00 kW
Miscellaneous	0.50	.50 kW	.25 kW
<b>TOTAL LOAD</b>		<b>1.13 kW</b>	<b>.88 kW</b>
Current (I <sub>c</sub> ) at 240V		4.69 Amps	3.65 Amps
x Spare Capacity 25%		5.86 Amps	4.56 Amps

LOAD SUMMARY (PANEL O)	Demand Factor	Connected Load	Demand Load
Heating	0.75	17.50 kW	13.13 kW
Lighting	1.00	1.35 kW	1.35 kW
Refrigeration/Motor	0.75	.00 kW	.00 kW
Miscellaneous	0.50	19.88 kW	9.94 kW
<b>TOTAL LOAD</b>		<b>38.73 kW</b>	<b>24.41 kW</b>
Current (I <sub>c</sub> ) at 240V		161.37 Amps	101.73 Amps
I <sub>c</sub> = I <sub>c</sub> x Spare Capacity 25%		201.71 Amps	127.16 Amps

LOAD SUMMARY (PANEL LSG)	Demand Factor	Connected Load	Demand Load
Heating	0.75	.00 kW	.00 kW
Lighting	1.00	.15 kW	.15 kW
Refrigeration/Motor	0.75	.00 kW	.00 kW
Miscellaneous	0.50	.00 kW	.00 kW
<b>TOTAL LOAD</b>		<b>.15 kW</b>	<b>.15 kW</b>
Current (I <sub>c</sub> ) at 240V		.64 Amps	.64 Amps
x Spare Capacity 25%		.8 Amps	.8 Amps

LOAD SUMMARY (PANEL G)	Demand Factor	Connected Load	Demand Load
Heating	0.75	.55 kW	.41 kW
Lighting	1.00	.36 kW	.36 kW
Refrigeration/Motor	0.75	.00 kW	.00 kW
Miscellaneous	0.50	2.20 kW	1.10 kW
<b>TOTAL LOAD</b>		<b>3.11 kW</b>	<b>1.87 kW</b>
Current (I <sub>c</sub> ) at 240V		12.96 Amps	7.8 Amps
x Spare Capacity 25%		16.2 Amps	9.75 Amps

PANEL 'A'		VOLTAGE : 120/240V BUS : 150A		PHASE : 1 WIRE : 3	
DESCRIPTION	LOAD WATTS	BKR SIZE	CIRCUIT	BKR SIZE	LOAD WATTS
LTG - INTERIOR ACCOMM.	534	15	1-2	15	60
LTG - EXTERIOR ACCOMM.	36	15	3-4	2P	10k
TWH-1, TWH-2, TWH-3	300	15	5-6	15	500
RECEPT - TV BEDROOM #4	500	15	7-8	15	1000
RECEPT - BEDROOM #4	1000	15	9-10	15	500
RECEPT - TV BEDROOM #3	500	15	11-12	15	1000
RECEPT - BEDROOM #3	1000	15	13-14	15	500
RECEPT - TV LIVING ROOM	500	15	15-16	15	1000
RECEPT - LIVING ROOM	600	15	17-18	15	400
RECEPT - HALLWAY	800	15	19-20	15	1000
MICROWAVE	1000	15	21-22	15	1000
FRIDGE - KITCHEN	500	15	23-24	15	1200
RECEPT - KITCH. COUNTER TOP	400	15	25-26	15	600
GAS RANGE	1000	15	27-28	15	200
SP-1	750	15	29-30	15	400
RANGEHOOD	500	15	31-32	15	500
RECEPT - COUNTER TOP GFCI	400	15	33-34	15	500
MICROWAVE	1000	15	35-36	15	2000
DISHWASHER	750	15	37-38	2P	
RECEPT - KITCHEN	400	15	39-40	15	2000
EUH-1	2000	15	41-42	2P	
		2P	43-44	25	4500
		15	45-46	2P	
EUH-2	2000	2P	47-48	15	100
		15	49-50		
			51-52		
			53-54		
			55-56		
			57-58		
			59-60		
HTG. : 15.4KW		LTG. : 0.8KW		MTR. : 0KW	
				MISC. : 29.5KW	
				TOTAL : 45.6KW	

PANEL 'O'		VOLTAGE : 120/240V BUS : 150A		PHASE : 1 WIRE : 3	
DESCRIPTION	LOAD WATTS	BKR SIZE	CIRCUIT	BKR SIZE	LOAD WATTS
LTG - INTERIOR OFFICE/EF-1	1068	15	1-2	15	600
LTG - EXTERIOR OFFICE	72	15	3-4	15	400
THE-4 - TWH-5	200	15	5-6	15	1400
RECEPT - MECH & ELEC RM	800	15	7-8	15	200
SP-2	1000	15	9-10	15	500
RECEPT - ENG. OFFICE	1000	15	11-12	15	500
F-2	1200	15	13-14	15	400
RECEPT - IT RM	400	15	15-16	15	100
TELEPHONE BACKBOARD	1000	15	17-18	15	400
RECEPT - EXTERIOR OFFICE	400	15	19-20	15	500
RECEPT - GEAR STORAGE	200	15	21-22	15	1200
EUH-5	2000	15	23-24	15	500
		2P	25-26	15	500
		15	27-28	15	500
EUH-6	2000	2P	29-30	15	200
		15	31-32	15	200
		2P	33-34	15	600
EUH-7	2000	15	35-36	15	500
		2P	37-38	15	1000
EUH-8	2000	2P	39-40	15	750
		2P	41-42	20	1500
CU-2	5500	30	43-44	20	1550
LTG - CRAW SPACE	190	15	45-46	15	1000
RECEPT - COUNTERTOP	500	15	47-48	15	1000
LTG - LIFT HOISTWAY PIT	200	15	49-50		
LIFT AUXILIARY LINES	1000	15	51-52		
			53-54		
			55-56		
			57-58		
			59-60		
HTG. : 17.5KW		LTG. : 1.3KW		MTR. : 0KW	
				MISC. : 19.9KW	
				TOTAL : 38.7KW	

PANEL 'G'		VOLTAGE : 120/240V BUS : 100A		PHASE : 1 WIRE : 3	
DESCRIPTION	LOAD WATTS	BKR SIZE	CIRCUIT	BKR SIZE	LOAD WATTS
GUH-1	550	15	1-2	15	188
O/H DOOR GARAGE	1000	15	3-4	15	18
EXIT SIGNS - GARAGE	50	15	5-6	15	104
RECEPT - GARAGE	1200	15	7-8		
			9-10		
			11-12		
HTG. : 0.6KW		LTG. : 0.4KW		MTR. : 0KW	
				MISC. : 2.2KW	
				TOTAL : 3.1KW	



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Certificate of Authorization  
Tower Engineering Group  
No. 4156 Expiry: April 30, 2018



2017-07-26

Rev	Description	Date
5		
4		
3	RE-ISSUED FOR CONSTRUCTION	2017/07/26
2	ISSUED FOR CONSTRUCTION	2017/07/11
1	ISSUED FOR REVIEW	2017/06/30
0	Design Completion	

**FISHERIES AND OCEANS CANADA**

Project title  
**GIMLI, MB  
17 HARBOUR LANE**  
**GIMLI SEARCH & RESCUE STATION**

Designed by: PC  
Drawn by: VRR  
Approved by: DKG  
Project Manager: [Name]

Drawing title  
**ELECTRICAL SCHEDULES**