BATTERY BANK SCHEDULE

ITEM	MANUFACTURER	CATALOGUE NO.	INPUT VOLTS	OUTPUT VOLTS	SOURCE PANEL	VSR/INVERTER CCTS	NOTES	MINIMUM WATTAGE x 1.25
EBB#1	LUMACELL	RG12S-100-LD10-ATN-TMBB-VSR2	120	12	TBD	TBD	1,4	90
EBB#2	LUMACELL	RG12S-100-LD10-ATN-TMBB-VSR2	120	12	TBD	TBD	1,4	90
EBB#3	LUMACELL	RG12S-100-LD10-ATN-TMBB-VSR2	120	12	TBD	TBD	1,4	75
EBB#4	LUMACELL	RG24S-100-LD14-ATN-TMBB-VSR3	120	24	TBD	TBD	1,4	90
EBB#5	LUMACELL	RG12S-72-LD10-ATN-TMBB-VSR2	120	12	TBD	TBD	1,4	30
EBB#6	LUMACELL	RG12S-72-LD10-ATN-TMBB	120	12	TBD		4	45
EBB#7	LUMACELL	RG12S-72-LD10-ATN-TMBB	120	12	TBD		4	45
EBB#8	LUMACELL	RG12S-32-LD10-ATN-TMBB	TBC	12	TBD		4	14
EBB#9	LUMACELL	RG12S-32-LD10-ATN-TMBB	TBC	12	TBD		4	15
INV#1	LUMACELL	LMI-1440-1	120	120	RC		2	1405
INV#2	LUMACELL	LMI-1440-1	120	120	RC		2	1405
INV#3	LUMACELL	LMI-1440-1	120	120	RG		2	1405
INV#4	LUMACELL	LMI-1440-1	120	120	RG		2	1405
INV#5	LUMACELL	LMI-1440-1	120	120	RG		2	1405
INV#6	NOT USED							
INV#7	LUMACELL	LMI-1440-1	120	120	GQ	GQ-2	1,2	1000
INV#8	LUMACELL	LMI-1440-1	120	120	GJ	GJ-1	1,2	1100
INV#9	LUMACELL	LMI-1440-1	120	120	GG	GG-1	1,2	1100
INV#10	LUMACELL	LMI-1440-1	120	120	GH	GH-1	1,2	1100
INV#11	LUMACELL	LMI-1440-1	120	120	GD	GD-1	1,2	975
INV#12	LUMACELL	LMI-1000-1	120	120	GF	GF-2	1,2	975
INV#13	LUMACELL	LMI-1440-1	120	120	GF	GF-1	1,2	1485
INV#14	LUMACELL	LMI-1440-1	120	120	GA	GA-1	1,2	1485
INV#15	LUMACELL	LMI-1440-1	120	120	GC	GC-3	1,2	1125
INV#16	LUMACELL	LMI-1440-1	120	120	GC	GC-2	1,2	1485
A	LUMACELL	MQM2-LD10	12	\	SEE DWG	\		\
A	LUMACELL	MQM2-LD10	12	\	SEE DWG	\		\
J	LUMACELL	MQM2-LD14	24	\	SEE DWG	\		\
	LUMACELL	MQM2-LD14	24	\	SEE DWG	\		\
	LUMACELL	MQM2NC-LD14	24	\	SEE DWG	\		\
	LUMACELL	MQM2NC-LD14	24	\	SEE DWG	\		\

NOTES:
1. VSR CIRCUITS ARE FOR GENERAL REFERENCE AND INTENT. EXACT CIRCUITS SHALL BE CONFIRMED ON SITE.
2. CONNECT INVERTER AS NORMALLY ON LOAD
3. CONNECT INVERTER AS NORMALLY OFF LOAD
4. CONFIRM ALL VOLTAGES ON SITE PRIOR TO ORDERING

EMERGENCY LIGHTING VOLTAGE DROP WIRING CHART

VOLTAGE	WIRE SIZE	WATTS													
		13	18	25	30	35	50	60	75	100	150	200	250	300	400
		DISTANCE IN FEET													
12	12	165	110	85	71	61	42	35	29	21	14	10	8		
	10	260	190	136	112	97	68	52	45	34	23	17	21	18	
	8	415	300	215	180	154	108	90	72	54	36	27	21	18	
	6	660	475	340	285	245	170	140	114	86	57	43	34	28	
	4	1050	760	540	455	390	275	225	182	137	91	68	55	45	
24	12	660	440	340	284	244	168	140	116	84	56	40	32	26	21
	10	1040	760	544	448	388	272	208	180	136	92	68	52	44	34
	8	1668	1200	860	720	616	432	360	288	216	144	108	84	72	54
	6	2464	1900	1360	1140	1560	1100	900	728	548	364	272	220	180	100
	4	4200	3040	2160	1810	1560	1100	900	728	548	364	272	220	180	100
BASED ON 5% VOLTAGE DROP															

NO.	REVISIONS	DATE	BY
1	ADDENDUM E02	2021-11-08	JRF
0	ISSUED FOR CONSTRUCTION	2021-09-15	JRF

TOWER ENGINEERING
Project: 191529
towereng.ca
Calgary: 403-235-2655
Winnipeg: 204-925-1150

SEAL

SEAL

APEGM
Certificate of Authorization
Tower Engineering Group
No. 4156

PROJECT

TRANSIT EMERGENCY LIGHTING

421 OSBORNE
WINNIPEG, MANITOBA

DRAWING

SCHEDULES

DESIGNED:	JRF
DRAWN:	VRR
CHECKED:	SMM
SCALE:	AS NOTED
PLOT DATE:	2021-11-08
PROJECT NO.:	191529

DRAWING NO.
505-2021_DRAWING_E3.1

REVISION
R1