BILL OF MATERIAL – MAJOR COMPONENTS

ITEM	QTY	MAKE	DESCRIPTION	WIDTH mm	DEPTH mm	HEIGHT mm	WIDTH in	DEPTH in	HEIGHT in	APPROX. WEIGHT [kg]	REFERENCE DRAWING/ MANUFACTURER PART #	SUPPLY & INSTALL BY MCMASTER	FREE ISSUE BY MCMASTER	SUPPLY& INSTALL BY VENDOR
1	58	SBS	BATTERY, FLOODED, NICKEL CADIUM, 200AHR, 125V. HVL SERIES – LONG DURATION	205.5	334.9	386.6	8.09	13.59	15.22	63[3 Cell] 44[2 Cell]	TBD			Y
2	1	IE POWER	BATTERY CHARGER, 208VAC 3–PHASE INPUT, 120V DC 100A OUTPUT	610	559	864	24	22	34					Y
4	1	CUTLER HAMMER	DC#1, 125V, 225A, 2–PHASE	508	152	1829	20	6	72					Y
5	1		DC MONITORING CABINET #1	604	210	604	23.78	8.27	23.78	50				Y
7	1	CUTLER HAMMER	AC PANEL #1, 120/208V, 225A, 3–PHASE 5–WIRE	508	152	1524	20	6	60	160	24B415400 SHT 1			Y
8	1	CUTLER HAMMER	AC PANEL #2, 120/208V, 225A, 3–PHASE 5–WIRE	508	152	1524	20	6	60	160	24B415400 SHT 2			Y
9	3	CUTLER HAMMER	ATS, 208V, 100A, 3–PHASE 4–WIRE	510	238	905	20	11.3	35.6	71	ATH3FDA300100BSC			Y
10	1	NOTIFIER	TRANSFORMER, BATTERY ROOM & HVAC FIRE PANEL	609.6	132.54	318.77	24	5.22	12.55		NOTIFIER BB–25			
11	TBD		AC CABLE RACEWAY UNISTRUT CHANNEL @ 1200mm SPACING	VARIES	125		24.4	5						Y
12	2	HUBBELL	DUPLEX GFCI RECEPTACLE 15A, 120V AC WITH WEATHERPROOF COVER											Y
16	2	KIDDE	FIRE EXTINGUSHER, 20LBS ABC							30LBS	ANSUL			Y
17	2	LUMACELL	EMERGENCY LIGHTING, 12V 50W, TWO HEADS LED 12V 5W, WITH AUTO TEST. C/W PICTOGRAM "STRAIGHT FROM HERE" CSA C22.2 #141 CERTIFIED.	32.40	11.7	30.8	12 3/4	4 3/4	12 1/4		LAC–1–W–1250–2–LD7–AT			Y
18	2	HOLOPHANE	EXTERIOR LUMINAIRE, HOLOPHANE WALLPACK 4, TYPE 3 OPTICS, LED, 1A DRIVER, 120V 60Hz, BRONZE FINISH, CAST AL. HOUSING	406	381	203	16	15	8		W4GLED 20C 1000 50K T3M 120 BZ			Y
20	1		OPERATOR DESK AND NON METALLIC CHAIR	1143	762	737	45	30	29					Y
21	1	STAPLES	4 DRAWER VERTICAL FILING CABINET	381	675	1321	15	26.6	52		STAPLES IT# 10110 OR EQUIVALENT			Y
22a	4	HUBBELL	SINGLE RECEPTACLE–20A 120V TWISTLOCK											Y
22b	6	HUBBELL	DUPLEX RECEPTACLE–15A 120V											Y
23a	1	BARD MANUFACTURING CO.	HVAC UNIT 208V AC, 3–PHASE,3–TON C/W 9KW HEATER – ONE LEFT HAND UNIT	838	435	1792	8.66	17.125	70.6	182	W36L–1–B–09–EPX–XXX			Y
23b	1	BARD MANUFACTURING CO.	HVAC UNIT 208V AC, 3–PHASE,3–TON C/W 9KW HEATER – ONE RIGHT HAND UNIT	838	435	1792	8.66	17.125	70.6	182	W36A–1–B–09–EPX–XXX			Y
25	1 LOT	NOTIFIER	FIRE PANEL NOTIFIER NFS320, DETECTORS, PULL STATION, BELL, DOOR CONTACTS, ETC.	479.3	147.75	469.11	18.87	5.817	18.469					Y
26	1		FIRST AID KIT C/W INSPECTION CARD				46							
27	1	SNC	OI (OPTICAL ISOLATOR) FULL, BACKBOARD, BIX, SLIDE, LINKS. SNC.	1168	330	2438	46	13	96		P31097G01–CB			Y
28	1	RUBBERMAID	PROTECTION AND CONTROL CART – RUBBERMAID FLAT SHELD UTILITY CART	962	487	846	11	19.19	33.31	15	MODEL #4505			Y
29	1	HELIX	50 KEY CAPACITY KEY CABINET	279	76	279	48	3	11		STAPLES IT# 585165			Y
30	1	STAPLES	CORK BOARD	1219	12.7	914		0.5	36		STAPLES IT# 782409			Y
31	1	HOFFMAN	TEMPERATURE CONTROL SWITCHES (HIGH/LOW)								ATEMNC / ATEMNO			Y
34	11	HOLOPHANE	INTERIOR LUMINAIRE, HOLOPHANE EVT4 PRISMATITE, TWO 32W FLUORESCENT LAMPS, 120V 60Hz, 4000K. CCT & 80 CRI	1391	210	105	54 3/4	21	4 1/8	5.90	EVT4–4000LM–PCL–MD–120–GZ10–4 0K–80CRI			Y
35	5		PROTECTION & CONTROL RACKS 600 x 600 x 2100	600	600	2100	24	24	72					Y
36a	1	EATON	SAFETY SWITCH 60A – OUTDOOR; NON FUSIBLE – LEFT SIDE HANDLE	206	260	356	8.125	10.25	14		4HD362NFW–LH–H1			Y
36b	1	EATON	SAFETY SWITCH 60A – OUTDOOR; NON FUSIBLE – RIGHT SIDE HANDLE	206	260	356	8.125	10.25	14		4HD362NFW–H1			Y
37	1		3'–6" x 7'–0" x 1–3/4" STEEL INSULATED DOOR W/ KICKPLATE, CLOSURE W/ HOLD OPEN ARM. INCLUDES ONE 24" x 22" GLASS, THRESHOLD, JAMB SEAL & SWEEP. RIM EXIT HARDWARE W/ PULL PLATE ON INSIDE OF DOOR & PULL/THUMBPIECE ON EXTERIOR.	1067	44	2134	42	1.75	84					Y
38	1		6' x 8'0" x 1–3/4" STEEL DOOR W/ KICKPLATE, CLOSURE W/ HOLD OPEN ARM. INCLUDES ONE 24" x 22" GLASS PANEL, THRESHOLD, JAMB SEAL & SWEEP. RIM EXIT HARDWARE W/ PULL PLATE ON INSIDE & DOOR PULL/THUMBPIECE ON EXTERIOR.	1829	44	2438	72	1.75	96					Y
40	1	BARD	SOLID STATE HVAC CONTROLLER LEAD/LAG	235	75	345	9.25	3	13.5		MC 3000B			Y
41	2	HUBBELL	SINGLE POLE SWITCH											Y
42	4	HUBBELL	THREE–WAY SWITCH											Y
43	1 LOT	HOFFMAN	QUICKTRAY WIRE MESH CABLE TRAY C/W SPLICING HARDWARE & ASSOCIATED PARTS	152		152	6		6		QT2X6			Y
44	1 LOT	CANSTRUT	CABLE TRAY, VENTILATED TYPE & ASSOCIATED PARTS	609.9		152	24		6		CPC660L253			Y
45	2	LUMACELL	EMERGENCY LIGHTING, 12V 50W, TWO HEADS LED 12V 4W, WITH AUTO TEST. CSA C22.2 #141 CERTIFIED.	32.40	11.7	30.8	12 3/4	4 3/4	12 1/4		LAC–1–W–1250–2–LD7–AT			Y

A1

NOTES :

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CLIENT :

PROJECT :

MCMASTER UNIVERSITY–NF91

TITLE :

13.8kV AREA
E-HOUSE
BILL OF MATERIALS
ELECTRICAL ARRANGEMENT

PREPARED BY : **M.GUAY**	DATE : **2018/07/15**
DRAWN BY : **M.GUAY**	SCALE : **1:30**
VERIFIED BY : **M.LAROCQUE**	DISCIPLINE : **ELECTRICAL ARRANGEMENT**
APPROVED BY : **Y.LESSARD**	CAD FILE NAME : F1731664-300-EA005.dwg

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