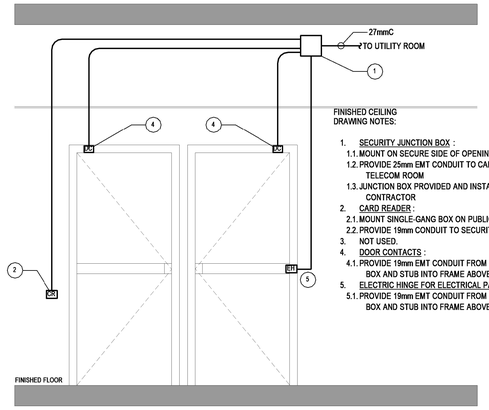
04 11



FINISHED CEILING
DRAWING NOTES:

1. SECURITY JUNCTION BOX :
   1.1. MOUNT ON SECURE SIDE OF OPENING
   1.2. PROVIDE 25mm EMT CONDUIT TO CABLE TRAY OR TELECOM ROOM
   1.3. JUNCTION BOX PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR
2. CARD READER :
   2.1. MOUNT SINGLE-GANG BOX ON PUBLIC SIDE OF OPENING
   2.2. PROVIDE 19mm CONDUIT TO SECURITY JUNCTION BOX
3. NOT USED.
4. DOOR CONTACTS :
   4.1. PROVIDE 19mm EMT CONDUIT FROM SECURITY JUNCTION BOX AND STUB INTO FRAME ABOVE CUT-OUT
5. ELECTRIC HINGE FOR ELECTRICAL PANIC DEVICE:
   5.1. PROVIDE 19mm EMT CONDUIT FROM SECURITY JUNCTION BOX AND STUB INTO FRAME ABOVE CUT-OUT,

1 / - DOOR DETAIL - TYPE 3 CONTROLLED ACCESS (CR+EH)

N.T.S.

PANEL E

Local: UTILITY ROOM 1.07 **Volts:** 120/208 V **Panel Alias:** E
Supplied By: ATS-01 **Phases:** 3 **Mains:**
Level: LEVEL 1 **Wire:** 4 **Amps:** 200A

#	Description	Brkr.	Poles	A		B		C		Poles	Brkr.	Description	#
1	Emergency Exits	15 A	1	32 VA	7280 VA					2	50 A	DOCK POWER	2
3	Lighting	15 A	1			312 VA	7280 VA						4
5	Emergency Lighting	15 A	1					1600 VA	1000 VA	1	15 A	DOCK LTG.	6
7	Lighting First Floor	15 A	1	1020 VA	50 VA					1	15 A	DOCK CAMERA	8
9	Receptacle	20 A	1			720 VA	0 VA			1	15 A	SECURITY PANEL	10
11	Lighting Second Floor	15 A	1					1094 VA	100 VA	1	15 A	VHF Transmitter	12
13	RH-01	15 A	1	325 VA	1667 VA					3	25 A	Unit Heater - 3	14
15	ERV-01	30 A	2			1310 VA	1667 VA						16
17								1310 VA	1667 VA				18
19	5-40R Receptacles	40 A	2	3000 VA	8333 VA					3	80 A	EW-01	20
21						3000 VA	8333 VA						22
23	Fridge	15 A	1					180 VA	8333 VA				24
25	Fire Alarm Control Panel	15 A	1	500 VA	1000 VA					2	15 A	Heating	26
27	Garage Door Operator	15 A	3			750 VA	1000 VA						28
29								750 VA	915 VA	2	20 A	CU-01	30
31				750 VA	915 VA								32
33	Receptacle First Floor (GFI)	15 A	1			180 VA	186 VA			1	15 A	EF-01	34
35	Motorized Blinds	15 A	1					500 VA	750 VA	2	15 A	Heating	36
37	5-30R Receptacles	30 A	1	360 VA	750 VA								38
39	5-30R Receptacles	30 A	1			360 VA							40
41	Receptacle First Floor	15 A	1					900 VA					42
			Total Load:	25982 VA		25098 VA		19099 VA					
			Total Amp :	224 A		217 A		159 A					

Load Classification	Connected Load		Panel Totals	
Lighting	2526 VA			
Other	48 VA		**Total Conn....**	70180 VA
Power	37812 VA			
Prises	6000 VA			
Puissance	500 VA			
Heating	3500 VA			
Spare	15610 VA			
Éclairage	1484 VA			

Notes:
ELECTRICAL CONTRACTOR TO PROVIDE MIN. 20% SPARE BREAKERS AT EACH PANEL BOARD.
CIRCUIT BREAKERS USED FOR FIRE ALARM SYSTEM AND EMERGNENCY LIGHTING SYSTEM SHALL BE PAINTED RED AND LOCKED ON.

PANEL A

Local: UTILITY ROOM 1.07 **Volts:** 120/208 V **Panel Alias:** A
Supplied By: MAIN SWITCH **Phases:** 3 **Mains:**
Level: LEVEL 1 **Wire:** 4 **Amps:** 600A

#	Description	Brkr.	Poles	A		B		C		Poles	Brkr.	Description	#
1	Lighting First Floor	15 A	1	417 VA	800 VA					1	15 A	Lighting Emergency	2
3	Heating	15 A	2			750 VA	193 VA			1	15 A	Lighting Exterior	4
5								750 VA	848 VA	1	15 A	Lighting Second Floor	6
7	Carbon Monoxide Detector	15 A	1	180 VA	2250 VA					2	30 A	HWT-01	8
9	Carbon Monoxide Detector	15 A	1			180 VA	2250 VA						10
11	Emergency Exits	15 A	1					1 VA	2250 VA	2	30 A	HWT-02	12
13	Motorized Blinds	15 A	1	600 VA	2250 VA								14
15	Washer Second Floor	20 A	1		400 VA								16
17	Receptacle	20 A	1					720 VA	1000 VA	2	15 A	Heating	18
19	Receptacle	20 A	1	560 VA	1000 VA								20
21	Receptacle First Floor (GFI)	15 A	1		180 VA								22
23	Dishwasher	15 A	1					500 VA					24
25	Receptacle	15 A	1	540 VA									26
27	Power	15 A	1		1100 VA								28
29	Receptacle First Floor	15 A	1					720 VA	875 VA	2	15 A	Heating	30
31	Receptacle First Floor	15 A	1	540 VA	875 VA								32
33	Receptacle First Floor (GFI)	15 A	1		900 VA	4365 VA				3	30 A	COMM TOWERS	34
35	Receptacle First Floor	15 A	1					720 VA	4365 VA				36
37	Receptacle First Floor (GFI)	15 A	1	236 VA	4365 VA								38
39	Receptacle First Floor	15 A	1		360 VA	3333 VA				3	40 A	DH-2	40
41	Receptacle First Floor (GFI)	15 A	1					540 VA	3333 VA				42
43	TV Receptacle	15 A	1	180 VA	3333 VA								44
45	Receptacle Second Floor...	15 A	1		900 VA	1500 VA				2	40 A	Dryer Second Floor	46
47	Receptacle Second Floor...	15 A	1					720 VA	1500 VA				48
49	Receptacle (GFI)	15 A	1	720 VA	1500 VA					2	40 A	Dryer Second Floor	50
51	Receptacle Second Floor...	15 A	1			720 VA	1500 VA						52
53	Receptacle Second Floor...	15 A	1					360 VA	7565 VA	3	60 A	Trailer	54
55	Receptacle Second Floor...	15 A	1	540 VA	7565 VA								56
57	Receptacle Second Floor...	15 A	1			297 VA	7565 VA						58
59	Receptacle Second Floor...	15 A	1					180 VA	25982 VA				60
61	Receptacle Second Floor...	15 A	1	180 VA	25098 VA					3	200 A	ATS-01	62
63	Washer Second Floor	20 A	1		400 VA	19099 VA							64
65	Receptacle Second Floor	15 A	1					540 VA	0 VA	1	15 A	HYDROGRAPHIC BUILDING	66
67	Receptacle	15 A	1	200 VA	14610 VA					3	200 A	Panel 'B'	68
69	F3 FAN	15 A	1		300 VA	15960 VA							70
71									17830 VA				72
73													74
75													76
77													78
79													80
81													82
83													84
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113													114
115													116
117													118
119													120
			Total Load:	68540 VA		62247 VA		71299 VA					
			Total Amp :	579 A		519 A		602 A					

Load Classification	Connected Load		Panel Totals	
Lighting	4047 VA			
Other	89 VA		**Total Conn....**	201886 VA
Power	94412 VA			
Prises	21000 VA			
Puissance	500 VA			
Lighting - Dwelling Unit	138 VA			
Heating	9750 VA			
Spare	51593 VA			
Éclairage	2065 VA			

Notes:
5 X 15A-1P AND 2 X 20A-1P SPARE BREAKER IN PANELBOARD
CIRCUIT BREAKERS USED FOR FIRE ALARM SYSTEM AND EMERGNENCY LIGHTING SYSTEM SHALL BE PAINTED RED AND LOCKED ON.

PANEL B

Local: WORKSHOP 1.11 **Volts:** 120/208 V **Panel Alias:** B
Supplied By: A **Phases:** 3 **Mains:**
Level: LEVEL 1 **Wire:** 4 **Amps:** 200A

#	Description	Brkr.	Poles	A		B		C		Poles	Brkr.	Description	#
1	Receptacle First FLoor	15 A	1	180 VA									2
3	Receptacle First Floor (GFI)	15 A	1			180 VA							4
5	Receptacle First Floor	20 A	1					720 VA					6
7	Receptacle Second Floor	15 A	1	900 VA	6667 VA					3	70 A	DUCT HEATER	8
9	Welding Outlet	50 A	2			3000 VA	6667 VA						10
11								3000 VA	6667 VA				12
13	Receptacle First Floor (GFI)	15 A	1	180 VA	1667 VA					3	25 A	UH-01	14
15	Dryer	40 A	2			1500 VA	1667 VA						16
17								1500 VA	1667 VA				18
19	Washer First Floor	20 A	1	400 VA	1667 VA					3	25 A	Unit Heater - 2	20
21	Receptacle First Floor (GFI)	15 A	1			180 VA	1667 VA						22
23	Receptacle First Floor	20 A	1					360 VA	1667 VA				24
25	GAS DETECTION PANEL	15 A	1	200 VA	500 VA					2	15 A	Heating	26
27							500 VA						28
29													30
31													32
33													34
35													36
37													38
39	F1 & F2 Fans	15 A	1			600 VA							40
41	HWT-03	30 A	2					2250 VA					42
43				2250 VA									44
45													46
47													48
49													50
51													52
53													54
55													56
57													58
59													60
			Total Load:	14610 VA		15960 VA		17830 VA					
			Total Amp :	122 A		135 A		150 A					

Load Classification	Connected Load		Panel Totals	
Power	35100 VA			
Prises	9000 VA		**Total Conn. Load:**	48200 VA
Heating	1000 VA			

Notes:
ELECTRICAL CONTRACTOR TO PROVIDE MIN. 20% SPARE BREAKERS AT EACH PANEL BOARD.
CIRCUIT BREAKERS USED FOR FIRE ALARM SYSTEM AND EMERGNENCY LIGHTING SYSTEM SHALL BE PAINTED RED AND LOCKED ON.

Public Works and Government Services Canada
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NORHT ARROW

LICENSED PROFESSIONAL ENGINEER
2020-12-17
C. M. SITKOWSKI
100161723
PROVINCE OF ONTARIO

No	DATE	REVISION	BY
A	2020-12-17	ISSUED FOR TENDER	C.M.S.

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A Detail No. No. du detail
B drawing no. - where detail required dessin no. - ou detail exige
C drawing no. - where detailed dessin no. - ou detaille

project title / titre du projet
COBOURG CITY
COBOURG SEARCH AND RESCUE STATION

drawing title / titre du dessin
ELECTRICAL GENERAL DETAILS & PANEL SCHEDULES

drawn by / dessine par: T. CLARK
designed by / conc par: C. SITKOWSKI
approved by / approuve par: M. MOORE
bid / offre: ELISABETH OHI — project manager / administrateur de projets
project date / date du projet: 20-03-2019
project no. / no. du projet: R.084112.005
drawing no. / dessine no.: E003