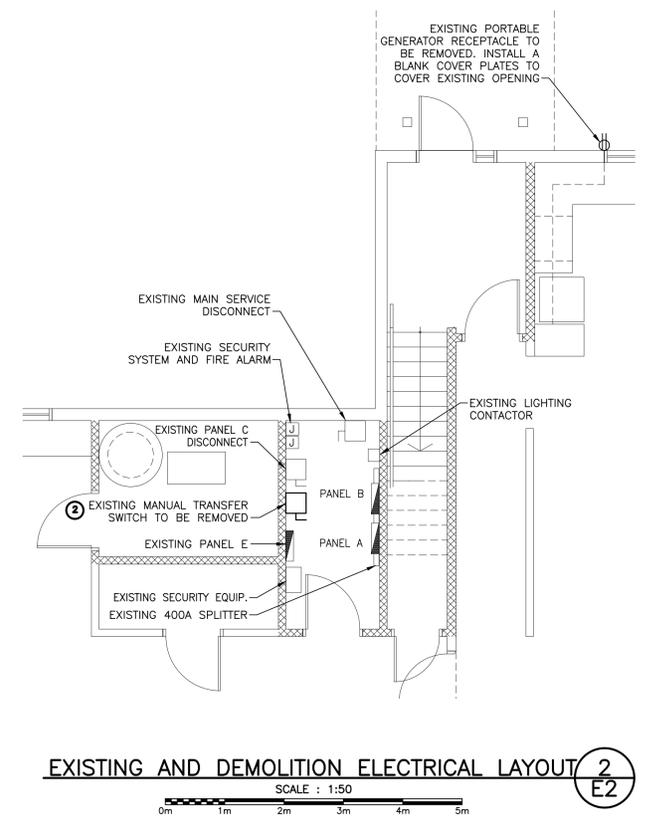


**EXISTING AND DEMOLITION SINGLE LINE DIAGRAM 1**  
SCALE : NTS  
E2



**EXISTING AND DEMOLITION ELECTRICAL LAYOUT 2**  
SCALE : 1:50  
E2

**ELECTRICAL NOTES:**

NOTE 1: EXISTING SAR STATION BUILDING IS CURRENTLY FED FROM THE HARBOR AUTHORITY ELECTRICAL BUILDING LOCATED ON THE WHARF SIDE THOUGH 2 X RUNS OF (4#250 MCM RW90 AND 1#3 GREEN BOND IN 91mm PVC CONDUITS). THIS CONTRACTOR SHALL:  
 - DISCONNECT EXISTING FEEDER FROM BOTH SIDES, MARK AND LABEL AS SPARE AND INDICATES ORIGIN OF CABLES.  
 - MARK EXISTING MAIN CIRCUIT BREAKER LOCATED ON THE ELECTRICAL BUILDING AS SPARE.  
 - DECOMMISSION EXISTING SAR STATION OWNER'S METER LOCATED ON THE HARBOR AUTHORITY ELECTRICAL BUILDING.  
 - COORDINATE WITH HARBOR AUTHORITY REPRESENTATIVE.  
 - PAY FOR ALL UTILITIES FEES.

NOTE 2: REMOVE EXISTING MANUAL TRANSFER SWITCH AND RETURN TO DEPARTMENTAL REPRESENTATIVE. PROVIDE NEW WIRING AND EXTEND EXISTING CONDUIT AS SHOWN ON NEW SINGLE LINE DIAGRAM ON DRAWING E4. PANEL E IS FED FROM PANEL A THROUGH A 30A 2P CIRCUIT BREAKER.

NOTE 3: EXISTING PANEL C IS CURRENTLY FED UNDERGROUND FROM THE MAIN ELECTRICAL ROOM LOCATED INTO THE SAR BUILDING. PANEL C IS BOTTOM FED. DISCONNECT EXISTING FEEDER AND LABEL AS SPARE. EXISTING DISCONNECT SWITCH TO REMAIN. REEFED EXISTING PANEL C FROM NEW ELECTRICAL BUILDING AS SHOWN ON NEW SINGLE LINE DIAGRAM ON DRAWING E4.

DESIGNATION	KW			WIRE SIZE	CIR NO.	BKR	L1	L2	L3	BKR	CIR NO.	KW			DESIGNATION
	A	B	C									A	B	C	
1 ELECTRICAL BUILDING LIGHTING	0.35			20A	1	20A				20A	2	0.5	0.5		RECEPTACLES
1 ELECTRICAL BUILDING HEATING		1.0		15A	3	15A				15A	4				EF-1
GENERATOR HEATER / BAT. CHARGER			1.0	2P	5	15A				15A	6				SPARE
SPARE				20A	7	15A				15A	8				SPARE
SPARE				15A	9	15A				15A	10				SPARE
SPARE				30A	11	20A				20A	12				SPARE
SPARE				20A	13	20A				20A	14				SPARE
					15	20A				20A	16				SPARE
					17	20A				20A	18				SPARE
					19	20A				20A	20				SPARE
					21						22				
					23						24				
					25						26				
					27						28				
					29						30				
					31						34				
					33						36				
					35						38				
					37						40				
					41						42				

NOTES: 1. 2#12 AWG + #12 BOND IN 21mm EMT

FEEDER SEE SINGLE LINE DIAGRAM

\* "A" TOTAL 0.85 KW  
 \* "B" TOTAL 2.5 KW  
 \* "C" TOTAL 1.0 KW  
 TOTAL LOAD 4.35 KW 12.0 AMPS @ 120/208V

**LIGHTING SCHEDULE:**

TYPE A: LED SURFACE AMBIENT LUMINAIRE, 1200mm LENGTH, 120V, 80 CRI, c/w 1.5m CHAIN HANGAR SET WITH V-HOOKS, 5 YEARS WARRANTY, cETL OR cUL RATED, PAINTED AFTER FABRICATION FOR EXTRA CORROSION PROTECTION, SUSPENDED @ 2.7m A.F.F., 26W, 3000 LUMENS @ 4000K, 119lm/W, LED INTEGRAL TO THE FIXTURE.

MANUFACTURER'S CATALOGUE NO(S):  
 DAY-BRITE CAT. NO. FSS-4-30L-840-120-DIM-PAF-PFR126  
 METALUX CAT. NO. 4SNLED-LD5-30SL-LN-UNV-L840-CD-1-AYC-CHAIN/SET

TYPE B: OUTDOOR LED WALL SCONCE LUMINAIRE, DIE-CAST HOUSING, DARK PLATINUM COLOR C/W DARK PLATINUM WALL COVER MOUNTING PLATE, cETL OR cUL LISTED, SUITABLE FOR WET AND OUTDOOR LOCATION, IP65 OPTICAL COMPARTMENT RATED, 5 YEARS WARRANTY, WALL MOUNTED @ 2.5m A.F.F. (LIGHTING FIXTURE INSTALLED ON THE ROOF GABLE BOTH SIDES SHALL BE INSTALLED AT 3600mm A.F.F.), 120V, 70 CRI, TYPE 3 DISTRIBUTION, 34.3W, 3200 LUMENS @ 3000K, LED INTEGRAL TO THE FIXTURE.

MANUFACTURER'S CATALOGUE NO(S):  
 KEENE CAT. NO. LPW16-30-WW-G3 - 3-120-DGY- LPWCVRRLP-DGY (DARK GRAY)  
 McGraw-Edition CAT. NO. ISS-AF-450-LED-E1-T3-DP-7030-LCF (DARK PLATINUM)



1	ISSUED FOR TENDER	07 OCT 2020
revisions		date
project	SEARCH AND RESCUE STATION EMERGENCY POWER ADDITION	project
	LOUISBOURG, NS.	
drawing		dessin
designed	H. BATTIKH	conçu
date	AUGUST 2020	
drawn	K. WOLFE	dessiné
date	AUGUST 2020	
approved	H. BATTIKH	approuvé
date		
Tender		Soumission
PWSC Project Manager	Administrateur de projets TPSC	
project number	R.102094.001	no. du projet
drawing no.	E2	no. du dessin