



**ELECTRICAL NOTES:**

**NOTE 1:** EMERGENCY GENERATOR UNIT, AUTOMATIC TRANSFER SWITCH, ANNUNCIATOR AND DOCKING PANEL ARE SUPPLIED BY DEPARTMENTAL REPRESENTATIVE AND SHALL BE INSTALLED, WIRED, TESTED AND COMMISSIONED BY THIS CONTRACTOR. EQUIPMENT ARE FROM CUMMINS POWER GENERATION MANUFACTURER AND THEY ARE CURRENTLY STORED ON SITE. THIS CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY RELOCATION WITHIN THE SITE AREA. EQUIPMENT SHOP DRAWING WILL BE PROVIDED BY DEPARTMENTAL REPRESENTATIVE TO THE CONTRACTOR FOR COORDINATION.

**NOTE 2:** SYSTEMS TESTING, START-UP SERVICES, COMMISSIONING AND TRAINING:

- TESTING, START-UP AND COMMISSIONING OF ALL EQUIPMENT SHALL BE PERFORMED BY A FACTORY AUTHORIZED SERVICE REPRESENTATIVE. THIS CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND HIRE A FACTORY AUTHORIZED SERVICE REPRESENTATIVE AND CARRY ALL ASSOCIATED COST.
- THIS CONTRACTOR SHALL PROVIDE THE INITIAL FILL UP OF THE ENTIRE FUEL STORAGE TANK.
- LOAD BANK TESTING: THIS CONTRACTOR SHALL PROVIDE A REMOTE LOAD BANK. NECESSARY INTERCONNECT CABLING AND FUEL TO TEST THE GENERATOR SEPARATELY UNDER 100% LOAD FOR 8h. LOAD BANK SHALL BE MADE AVAILABLE AS REQUIRED TO ALLOW FOR GENERATOR TESTING. THIS TEST SHALL BE WITNESS BY THE DEPARTMENTAL REPRESENTATIVE. SEND TESTING REPORT FOR REVIEW.
- TEST THE GENERATOR USING THE NEW ELECTRICAL BUILDING LOAD. PROVIDE ALL REQUIRED TESTING EQUIPMENT AND FUEL TO TEST THE COMPLETE EMERGENCY POWER SYSTEM UNDER THE ELECTRICAL BUILDING LOAD FOR 2H. REFER TO PHASING PROCEDURE. THIS TEST SHALL BE WITNESS BY THE DEPARTMENTAL REPRESENTATIVE. SEND TESTING REPORT FOR REVIEW.
- FINAL TESTING: THIS CONTRACTOR SHALL COORDINATE WITH THE UTILITY TO SIMULATE A POWER OUTAGE AND TEST THE COMPLETE EMERGENCY POWER SYSTEM. PROVIDE ALL REQUIRED TESTING EQUIPMENT AND FUEL TO TEST THE COMPLETE EMERGENCY POWER SYSTEM UNDER MAXIMUM BUILDING LOAD FOR 8h. THIS TEST SHALL INCLUDE THE SAR BUILDING LOAD. PROVIDE 1 SEPARATE LOAD BANKS TO TEST TRANSFORMERS TX1 AT THE SAME TIME AS DESCRIBED ON DRAWING E4 NOTE 6. THIS TEST SHALL BE WITNESS BY THE DEPARTMENTAL REPRESENTATIVE. SEND TESTING REPORT FOR REVIEW.
- TEST AND DEMONSTRATE TO THE DEPARTMENTAL REPRESENTATIVE ALL ANNUNCIATOR ALARM SIGNALS.
- PROVIDE FUEL FOR ALL STEPS OF TESTING AND COMMISSIONING OF EMERGENCY GENERATOR SYSTEM. ONCE COMMISSIONING IS COMPLETED, TOP UP FUEL.
- THIS CONTRACTOR SHALL PROVIDE TRAINING SESSIONS FOR UP TO 6 PERSONALS FOR 2 SEPARATE NORMAL WORKDAYS ON SITE FOR TWO SEPARATE SEARCH AND RESCUE TEAMS. SEARCH AND RESCUE TEAMS ROTATE EVERY TWO WEEK. TRAINING SESSION SHALL BE CONDUCTED BY A MANUFACTURER QUALIFIED REPRESENTATIVE.

**NOTE 3:** TERMINATE ALL CONDUITS AT PULL BOX LOCATION. EXTENDING THE CONDUIT TO THE WHARF AREA WILL BE PART OF SEPARATE PHASE. RESTORE THE PAVING AFFECTED BY THE CONSTRUCTION UP TO THE PULL BOX LOCATION.

**NOTE 4:** INSTALL ANNUNCIATOR CABINET ON SAR STATION OPEN OFFICE AREA RECESSED UNTO THE WALL. RESTORE WALL TO MATCH EXISTING CONDITION. COORDINATE EXACT LOCATION WITH DEPARTMENTAL REPRESENTATIVE. REFER TO DRAWING E7 DETAIL 1 FOR WIRING AND CONDUIT REQUIREMENT.

**NOTE 5:** REFER TO DRAWING A1 FOR ADDITIONAL REQUIREMENT RELATED TO PAVING, BACKFILLING, SODDING AND CONCRETE WORK.

**NOTE 6:** EXACT LOCATION OF ELECTRICAL BUILDING, PROTECTION FENCE, DOCKING PANEL AND EMERGENCY GENERATOR SHALL BE CONFIRMED ON SITE WITH DEPARTMENTAL REPRESENTATIVE BASED ON CLEARANCES FROM PROPERTY LINE AND EXISTING FRC GARAGE TURNING MOVEMENT OF VEHICLES AND TRAILERS.

**NOTE 7:** MAINTAIN MINIMUM OF 9m CLEARANCE FROM THE GENERATOR ENCLOSURE TO EXISTING NSPI OVERHEAD LINE.

**NOTE 8:** MAINTAIN APPROXIMATELY 6m CLEARANCE FROM THE GENERATOR ENCLOSURE TO THE PROPERTY BOUNDARY.

**NOTE 9:** COORDINATE DOCKING PANEL DOOR SWING WITH SLAB LOCATION AND ADJACENT EQUIPMENT.



1	ISSUED FOR TENDER	07 OCT 2020
revisions		date
project	SEARCH AND RESCUE STATION EMERGENCY POWER ADDITION	project
	LOUISBOURG, NS.	
drawing	EXISTING AND NEW SITE PLAN AND DETAILS	design
designed	H. BATTIKH	conçu
date	AUGUST 2020	
drawn	K. WOLFE	dessiné
date	AUGUST 2020	
approved	H. BATTIKH	approuvé
date		
Tender		Soumission
PWOSC Project Manager	Administrateur de projets TPSC	
project number	R.102094.001	no. du projet
drawing no.	E3	no. du dessin