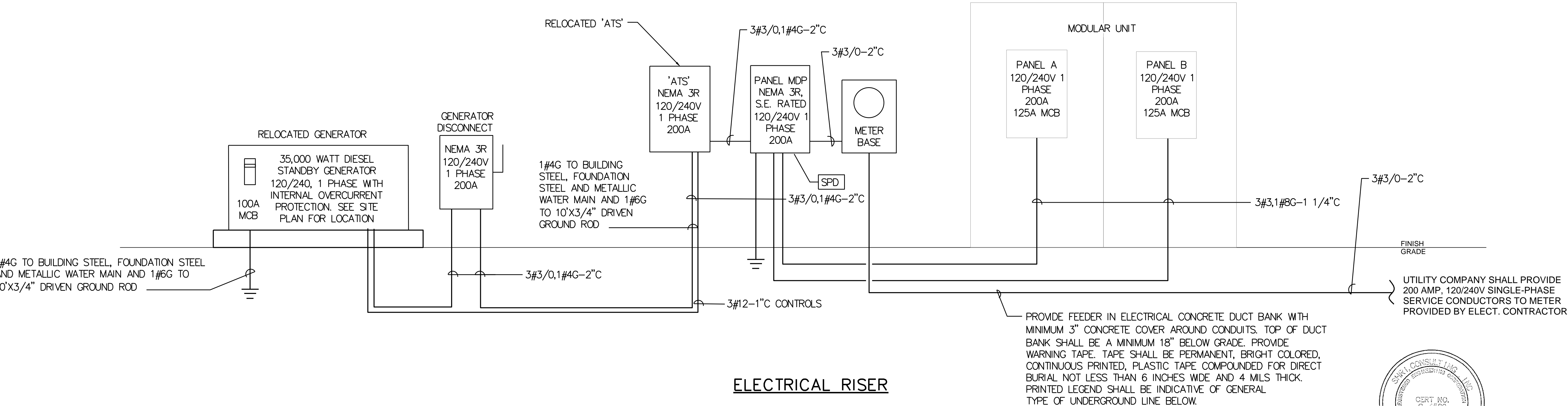


EXISTING ATS SCHEDULE:

- THOMSON TECHNOLOGY MODEL# TSC 800, AUTOMATIC TRANSFER CONTROLLER, OPEN TRANSITION, 200 AMP, 120/240 VOLT, 1 PHASE WITH NEMA 3R SECURE ENCLOSURE WITH GFI PROTECTION. SERVICE ENTRY RATED WITH 200 MAIN OVERCURRENT PROTECTION.
- TO BE TESTED AND INSTALLED BY ELECTRICAL CONTRACTOR, PROVIDED BY NCDOT

EXISTING GENERATOR SCHEDULE:

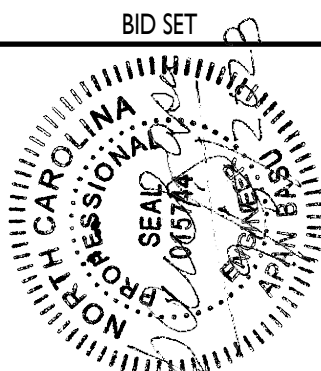
- GENERAC MODEL 4377620100 STANDBY GENERATOR WITH (1) AUTOMATIC TRANSFER SWITCH. THE GENERATOR RUNS ON DIESEL FUEL WITH 72 HOUR MIN RUN CAPACITY. VERIFY UNIT HAS ALL PARTS AS REQUIRED FOR A COMPLETE OPERATING SYSTEM. THE DELIVERY VOLTAGE SHALL BE 120/240 VOLT, 1 PHASE. WITH 10 DUAL RATED BATTERY CHARGER, AUTOMATIC VOLTAGE REGULATOR, AUTOMATIC LOW OIL PRESSURE AND HIGH TEMPERATURE SHUTDOWN. THE AUTOMATIC TRANSFER SWITCH SHALL TRANSFER FROM THE UTILITY AUTOMATICALLY WITHIN 30 SECONDS. PROVIDE A SERVICE RATED DISCONNECTING MEANS WITH OVERCURRENT PROTECTION AT THE GENERATOR LOCATION. PROPERLY GROUND THE GENERATOR AND SERVICE EQUIPMENT PER NEC. PROVIDE INITIAL START UP AND OWNER TRAINING. PROVIDE A LOAD TEST, START-UP AND OWNER TRAINING BY THE GENERATOR MANUFACTURER'S FACTORY TRAINED REPRESENTATIVE.
- PROVIDE A FULL TANK OF FUEL AT COMPLETION OF ALL REQUIRED TESTS.
- TO BE TESTED AND INSTALLED BY ELECTRICAL CONTRACTOR, PROVIDED BY NCDOT
- GENERATOR SET SHALL BE TESTED IN THE PRESENCE OF AND TO THE SATISFACTION OF THE STATE ELECTRICAL INSPECTOR AS PART OF THE FINAL INSPECTION AND CLOSE-OUT BY THE STATE CONSTRUCTION OFFICE.



PANEL MDP											
VOLTAGE (L-N):			120				ENCLOSURE TYPE:		NEMA 3R		
VOLTAGE (L-L):			240				MOUNTING:		SURFACE		
PHASES, WIRES:			1 Ø 3 W				IAC RATING (A):		10,000		
MINIMUM BUS CAPACITY (A):			200				NOTES:		S.E. RATED		
MAIN O.C. DEVICE (A):			MCB								
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)				POLE	TRIP AMPS	DESCRIPTION	CKT NO
				A		B					
1	PANEL A	100	2	7500	7500			2	100	PANEL B	2
3											4
5	OUTDOOR GFI RECEPTACLE	20	1	0	500	7500	7500	1	20	REC - HOT BOX	6
7	HEAT TAPE (GFPE BREAKER)	20	1			500	500	1	20	GENERATOR BATTERY CHARGER	8
9	BLOCK HEATER	20	1	1500	250			1	20	GENERATOR CONTROLS	10
11	SPARE	20	1			0	180	1	20	SPARE	12
13	SPARE			0	180	0		1	20	REC AT MDP	14
15	SPARE					0	0				16
17	SPARE			0	0	0	0				18
19	SPARE					0	0				20
21	SPARE			0	0						22
23	SPARE					0	0				24
25	SPARE			0	0	0	0				26
27	SPARE					0	0				28
29	SPARE			0	0						30
31						0	0				32
33				0	0	0	0				34
35						0	0				36
37				0	0	0	0				38
39						0	0	1	20		40
				CONNECTED LOAD PHASE TOTALS (VA)							
				17430		16180		#			
				CONNECTED LOAD (VA)		DEMAND FACTOR		DEMAND LOAD (VA)		DEMAND LOAD	
COOLING AND HEATING				0		1.00		0.0		33.6kVA	
HEATING				0		1.00		0.0		SPARE CAPACITY	
LIGHTING				0		1.25		0.0		14.4kVA	
RECEPTACLES (0-10 KVA)				860		1.00		860.0		SPARE CAPACITY	
RECEPTACLES (OVER 10 KVA)				0		0.50		0.0		60.0AMPS	
EQUIPMENT				1500		1.00		1500.0		30.0%	
MOTOR				0		1.00		0.0			
LARGEST MOTOR				0		1.25		0.0			
GENERAL				1250		1.00		1250.0			
SPECIAL				30000		1.00		30000.0			
TOTAL:				33610				33610			
LOAD (AMPS):				140				140			

PANELBOARDS

- SERVICE EQUIPMENT (PER NEC 110.24(A)) AND NEW PANELS (PER NEC 408.6) MUST BE LABELED WITH THE AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED. THE ARC-FLASH HAZARD WARNING LABELS SHOULD BE INSTALLED WHERE REQUIRED BY NEC 110.16(A). PANEL MDP MUST BE PROVIDED WITH A LABEL THAT IDENTIFIES ITS SOURCE OF POWER PER NEC408.4(B).
- PROVIDE SIGN PLACED AT THE SERVICE-ENTRANCE EQUIPMENT TO INDICATE THE TYPE AND LOCATION OF THE STANDBY GENERATOR THAT WILL SUPPLY THE BUILDING PER NEC 702.7(A). THE SIGN REQUIREMENT OF NEC 702.7(B)
- PROVIDE SURGE PROTECTION TYPE 2 AT PANEL MDP.



NCDOT FACILITIES DESIGN UNIT
ARCHITECT & ENGINEERS
1 SOUTH WILMINGTON STREET
FLOOR 1000
Raleigh, NC 27601
PHONE: 919.715.4541 FAX: 919.715.0389



SCHEDULES & ELECTRICAL RISER

Modular Office Relocation for
NCDOT Highway Division 5
Bridge Maintenance Office
5650 CORNWALL ROAD
OXFORD, NORTH CAROLINA 27565

STATE CONSTRUCTION
ID.# 22-24690-01A

EQUIPMENT NUMBER:
1320-0008-3222

REVISIONS	
NO.	DATE

DATE ISSUED: 9/5/2023
DRAWN BY: CDM
CHECKED BY: AB

SHEET NO.

E-701



SHRI Consulting, Inc.
3434 Edwards Mill Road,
Suite 112-361
Raleigh, NC 27612.
shriconsulting16@gmail.com