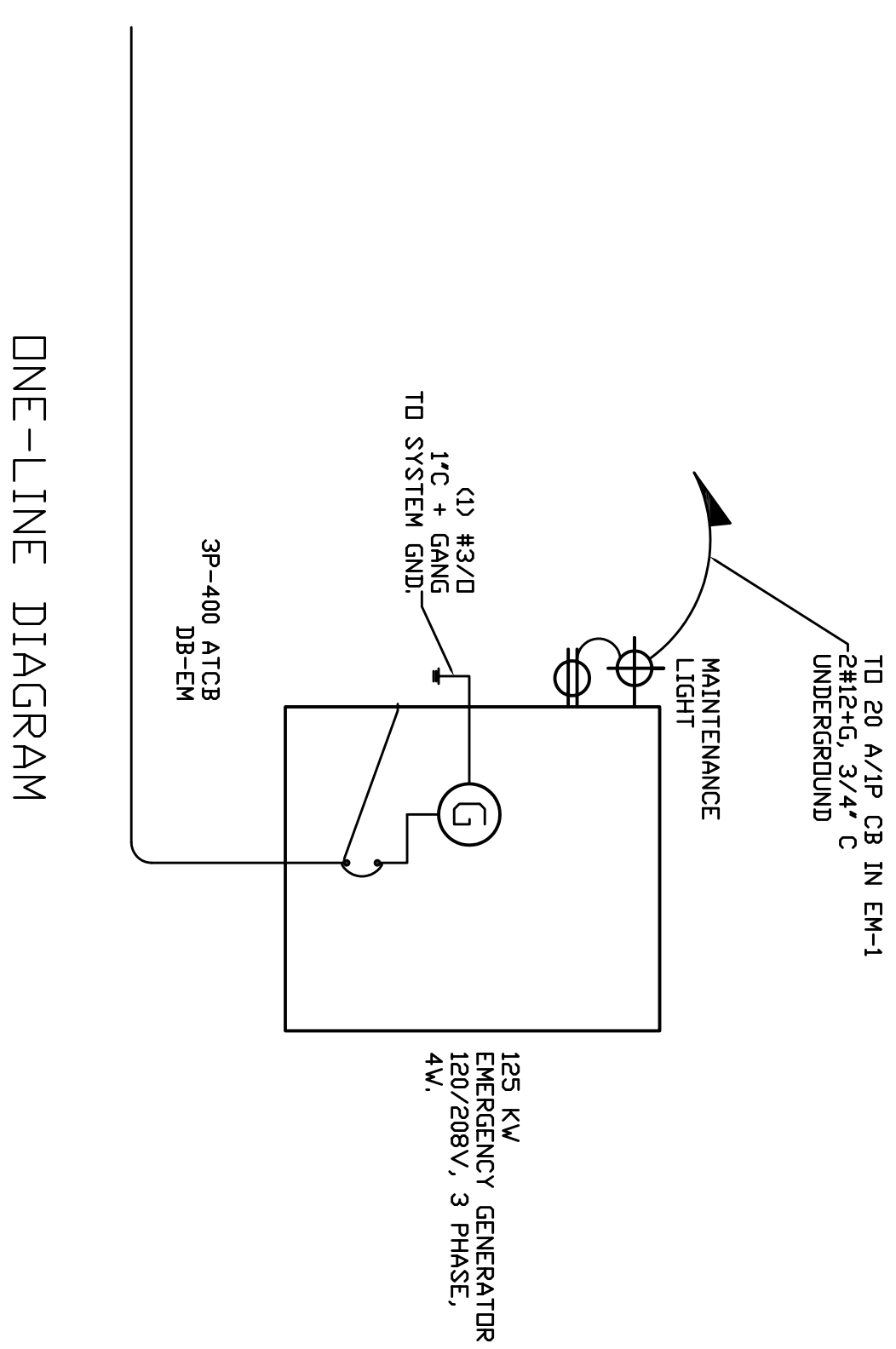


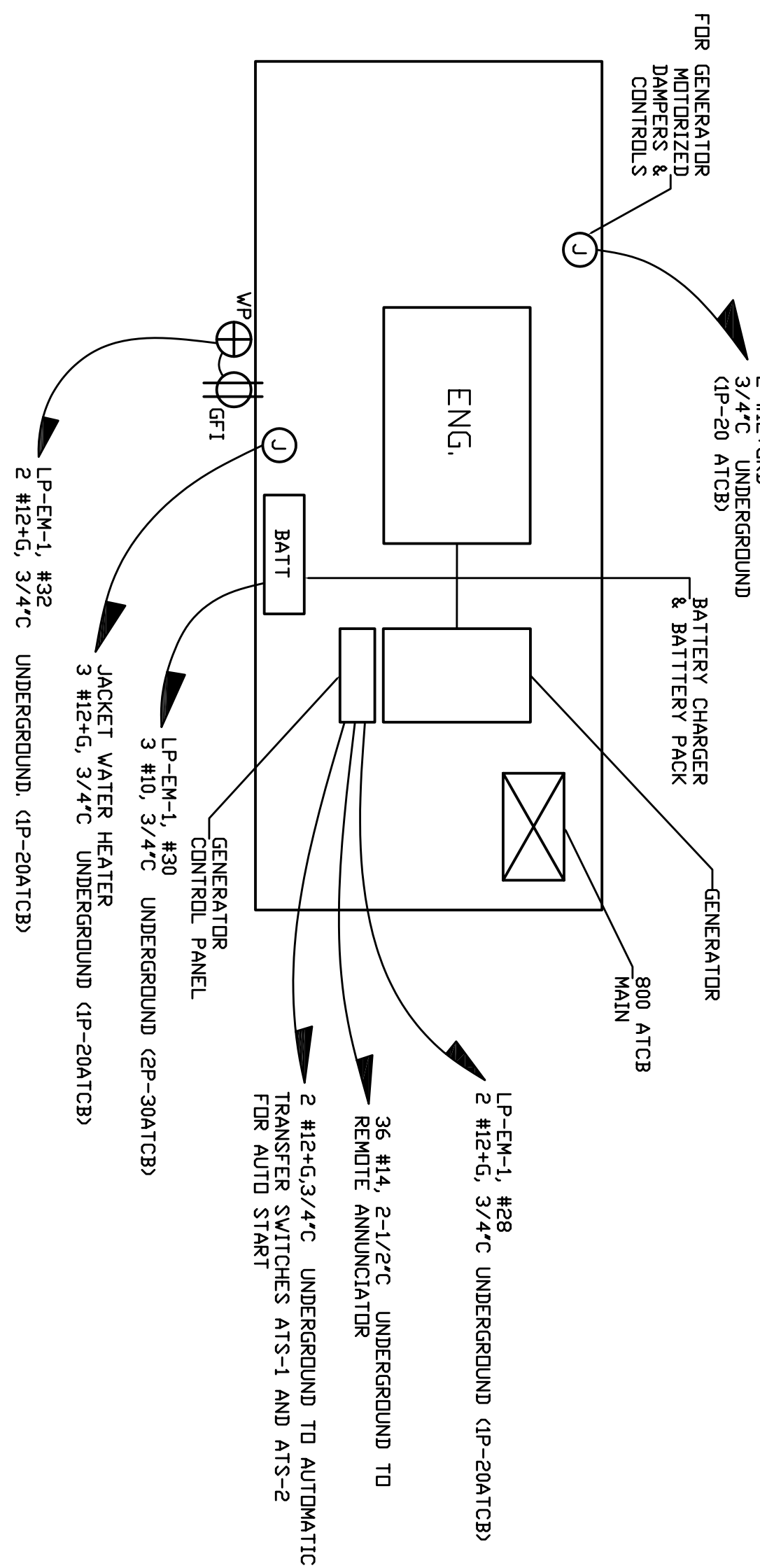
TYPICAL LIGHTING CONTROL SCHEMATIC DIAGRAM
(NOT TO SCALE)

- NOTES:
1. SPECIAL SCHEMATIC FOR (2) AUTOMATIC SWITCHES, 'X' FIRST FLOOR.
2. AUTOMATIC SWITCH 'X' CIRCUITS TO LP-1-1, #24, LP-1-1, #26 AND LP-5-1, #40
3. AUTOMATIC SWITCH 'Y' CIRCUITS TO LP-4, #11 AND LP-4, #12



ONE-LINE DIAGRAM

- NOTES:
1. CONTRACTOR TO PROVIDE SERVICE EQUIPMENT AS INDICATED. SEE SPECIFICATIONS.
2. CONTRACTOR TO SUBMIT A COORDINATION STUDY, MODIFY EQUIPMENT AND FUSES AS REQUIRED, APPLY TO LOCAL UTILITY FOR THE SHORT CIRCUIT AVAILABLE IN THE NETWORK. SUBMIT TO STUDY TO LOCAL UTILITY FOR THE SHORT CIRCUIT AVAILABLE IN THE NETWORK. SUBMIT TO STUDY TO LOCAL UTILITY FOR THE SHORT CIRCUIT AVAILABLE IN THE NETWORK. SUBMIT TO STUDY TO LOCAL UTILITY FOR THE SHORT CIRCUIT AVAILABLE IN THE NETWORK.
3. COORDINATE WITH ENGINE MANUFACTURER FOR THE INSTALLATION OF THE EQUIPMENT IN THE FACTORY.
4. PROVIDE THE NECESSARY COPPER DETAIL TO ACCOMMODATE ALL CONNECTIONS TO EQUIPMENT INDICATED.
5. UPON A FAILURE OF UTILITY POWER THE GENERATOR SHALL START AND AT'S #1 AND AT'S #2 SHALL SWITCH FROM UTILITY POWER TO EMERGENCY POWER. THE BUILDING WALL SHALL BE INSTALLED UNDERGROUND.
6. ALL WIRING BETWEEN THE GENERATOR AND THE BUILDING WALL SHALL BE INSTALLED AT A DEPTH OF NOT LESS THAN 24" OR AS PER NEC 202, 300.5.



EMERGENCY GENERATOR PART PLAN
(NOT TO SCALE)

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND INSTALL ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES WITH ALL REQUIREMENTS OF THE LOCAL ELECTRICAL UTILITY COMPANY (FREEPORT ELECTRIC).
2. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH FREEPORT ELECTRIC PRIOR TO INSTALLATION.
3. THE CONTRACTOR SHALL FOLLOW ALL UTILITY DETAILS.
4. ADD ALTERNATE PRICE TO FURNISH AND INSTALL A 125 KV LOAD BANK FOR THE TESTING OF THE GENERATOR SYSTEM. THE LOAD WORK SHALL INCLUDE ALL REQUIRED CONDUIT, CIRCUIT BREAKERS WITHIN GENERATOR, SWITCHES AND LOAD BANK. ALL EQUIPMENT IS TO BE INSTALLED OUTDOORS AND MUST BE WEATHERPROOF.

EMERGENCY GENERATOR SPECIFICATIONS:

- A) PROVIDE 125 KW STANDBY DIESEL FUELED GENERATOR SET, CATERPILLAR D125 IN OUTDOOR SOUND ATTENUATED ENCLOSURE AND 24 HOUR CAPACITY FUEL TANK BASE AS FOLLOWS:
B. GENERAL:
1. GENSET, INCLUDING DIESEL FUELED ENGINE CAPABLE OF OPERATING ON NUMBER 2 DIESEL FUEL.
2. GENERATOR SET MODEL SHALL HAVE BEEN PROTOTYPE TESTED. PROVIDE DOCUMENTATION AS EVIDENCE.
3. GENERATOR SET SHALL BE WARRANTED FOR NO LESS THAN 1 YEAR, UNLIMITED HOUR OPERATION.
4. ENGINE MUST BE THE PRINCIPAL ITEM MANUFACTURED BY THE GENERATOR SET MANUFACTURER. MANUFACTURERS THAT PURCHASE THE ENGINE AND GENERATOR AS SEPARATE COMPONENTS AND PACKAGE THEM TOGETHER WILL NOT BE CONSIDERED.
5. EQUIPMENT SUPPLIED SHALL MEET ALL LOCAL CODE REQUIREMENTS.
6. THE ENGINE MUST BE TESTED AT THE FACTORY AT 108 POWER FACTOR. PROVIDE FACTORY TEST REPORT TO ENGINEER.
7. GENERATOR SET SUPPLIER SHALL HAVE A COMPLETE SHIP FACILITY WITHIN 50 MILES OF JOSTITE.
C. GENSET REQUIREMENTS:
1. PROVIDE GENSET AT 120/208 VOLTS THREE PHASE, 4 WIRE 60 HERTZ
2. ENGINE RPM SHALL BE 1800
3. GENERATOR SHALL BE RATED STANDBY OPERATION, SYNCHRONOUS TYPE
4. TEMPERATURE RISE SHALL BE MEASURED 130 DEGREES C OVER 40 DEGREES C AMBIENT
5. INSULATION CLASS SHALL BE CLASS H MINIMUM
6. EXCITATION SHALL BE PERMANENT MAGNET TYPE
7. REGULATION SHALL BE 1% OR BETTER AT TYPE 1/2 % STEADY STATE VOLTAGE REGULATION. REGULATOR AND MANUFACTURED BY THE GENSET MANUFACTURER
8. ENGINE GOVERNOR SHALL BE ELECTRONIC ISOSCHRONOUS TYPE. PROVIDE PRIMARY FUEL FILTER/WATER SEPARATOR
9. INCLUDE FLEXIBLE FUEL LINES INSTALLED BETWEEN THE FUEL TANK BASE AND GENSET FILTERS.
10. PROVIDE A UNIT MOUNTED MILLER CASE TYPE 600 AMP 3 POLE CIRCUIT BREAKER IN A NEMA 1 ENCLOSURE. PROVIDE MECHANICAL TYPE LUGS TO ALLOW FOR CABLING AS PER THE ASSOCIATED CABLE SCHEDULE.
11. INCLUDE A GENERATOR MOUNTED DISPLAY CONTROL PANEL, MOUNTED IN A NEMA/1P 22 ENCLOSURE. TO INCLUDE AUTOMATIC START/STOP, ADJUSTABLE CYCLE CRANKING, PHASE SELECTOR SWITCH, METERS TO IEC 60051, 60414/6029 AND U194, EMERGENCY PUSH BUTTON STOP AND 3 POSITION SELECTOR SWITCH. PROVIDE MOUNTING OF THE FOLLOWING POINTS:
a. HERTZ
b. RPM
c. AMPS
d. OIL PRESSURE
e. WATER TEMPERATURE
f. DC VOLTS
g. ENGINE RPM
h. ENGINE RUNNING HOURS
i. LOW FUEL MAIN TANK POSITION
l. LOW FUEL MAIN TANK POSITION
m. BATTERY CHARGER AC FAILURE
n. LOW BATTERY VOLTAGE
o. SPARE
12. PROVIDE INDICATION OF THE FOLLOWING PER NFPA 110:
a. HIGH WATER TEMPERATURE
b. LOW OIL PRESSURE
c. LOW FUEL MAIN TANK POSITION
d. DIVERSENG (TRAIL TO START)
e. DIVERSENG (TRAIL TO STOP)
f. EMERGENCY STOP DEPRESSURE
g. APPROACHING HIGH COOLANT TEMPERATURE
h. APPROACHING LOW OIL PRESSURE
i. LOW COOLANT TEMPERATURE
j. LOW VOLTAGE IN BATTERY
k. CONTROL SWITCH NOT IN AUTO POSITION
l. LOW FUEL MAIN TANK POSITION
m. BATTERY CHARGER AC FAILURE
n. LOW BATTERY VOLTAGE
o. SPARE

- A) PROVIDE 125 KW STANDBY DIESEL FUELED GENERATOR SET, CATERPILLAR D125 IN OUTDOOR SOUND ATTENUATED ENCLOSURE AND 24 HOUR CAPACITY FUEL TANK BASE AS FOLLOWS:
B. GENERAL:
1. GENSET, INCLUDING DIESEL FUELED ENGINE CAPABLE OF OPERATING ON NUMBER 2 DIESEL FUEL.
2. GENERATOR SET MODEL SHALL HAVE BEEN PROTOTYPE TESTED. PROVIDE DOCUMENTATION AS EVIDENCE.
3. GENERATOR SET SHALL BE WARRANTED FOR NO LESS THAN 1 YEAR, UNLIMITED HOUR OPERATION.
4. ENGINE MUST BE THE PRINCIPAL ITEM MANUFACTURED BY THE GENERATOR SET MANUFACTURER. MANUFACTURERS THAT PURCHASE THE ENGINE AND GENERATOR AS SEPARATE COMPONENTS AND PACKAGE THEM TOGETHER WILL NOT BE CONSIDERED.
5. EQUIPMENT SUPPLIED SHALL MEET ALL LOCAL CODE REQUIREMENTS.
6. THE ENGINE MUST BE TESTED AT THE FACTORY AT 108 POWER FACTOR. PROVIDE FACTORY TEST REPORT TO ENGINEER.
7. GENERATOR SET SUPPLIER SHALL HAVE A COMPLETE SHIP FACILITY WITHIN 50 MILES OF JOSTITE.
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h. ENGINE RUNNING HOURS
i. LOW FUEL MAIN TANK POSITION
l. LOW FUEL MAIN TANK POSITION
m. BATTERY CHARGER AC FAILURE
n. LOW BATTERY VOLTAGE
o. SPARE
12. PROVIDE INDICATION OF THE FOLLOWING PER NFPA 110:
a. HIGH WATER TEMPERATURE
b. LOW OIL PRESSURE
c. LOW FUEL MAIN TANK POSITION
d. DIVERSENG (TRAIL TO START)
e. DIVERSENG (TRAIL TO STOP)
f. EMERGENCY STOP DEPRESSURE
g. APPROACHING HIGH COOLANT TEMPERATURE
h. APPROACHING LOW OIL PRESSURE
i. LOW COOLANT TEMPERATURE
j. LOW VOLTAGE IN BATTERY
k. CONTROL SWITCH NOT IN AUTO POSITION
l. LOW FUEL MAIN TANK POSITION
m. BATTERY CHARGER AC FAILURE
n. LOW BATTERY VOLTAGE
o. SPARE
13. PROVIDE A REMOTE ANNUNCIATOR TO MEET THE REQUIREMENTS OF NFPA 110 LEVEL 1. THE ANNUNCIATOR SHALL PROVIDE REMOTE ANNUNCIATION OF ALL POINTS STATED ABOVE AND SHALL INCORPORATE RING-BACK CAPABILITY SO THAT AFTER SILENCING THE INITIAL ALARM, ANY SUBSEQUENT ALARMS WILL SOUND THE HORN.
E. UNIT SHALL BE PROVIDED WITH A UNIT MOUNTED RADIATOR
F. PROVIDE 50/50 MIX OF WATER/GLYCOL BASED SOLUTION TO PROTECT DOWN TO 0 DEGREES
G. PROVIDE HIGH AMBIENT CAPABILITY OF 122 DEGREES F
H. PROVIDE A CRITICAL TYPE EXHAUST SILENCER TO ACHIEVE A SOUND LEVEL OF 79 DBA @ 23 FEET
I. INCLUDE STAINLESS STEEL FLEXIBLE CONNECTION BETWEEN THE EXHAUST SILENCER AND ENGINE EXHAUST. TO BE MOUNTED INSIDE THE ENCLOSURE
J. PROVIDE 125 VOLT DC STARTING SYSTEM INCLUDING STARTER MOTOR, LEAD ACID BATTERIES SIZED BY GENERATOR MANUFACTURER, A 5 AMP 120 VAC, 12 VDC BATTERY CHARGER, A BATTERY RACK, AND BATTERY CABLES
K. INCLUDE A JACKET WATER HEATER SIZED TO MAINTAIN JACKET WATER AT MINIMUM 90 DEGREES F. JACKET WATER HEATERS MUST BE TANK THERMAL CONNECTION TYPE. IMMERSION TYPE HEATERS ARE NOT ACCEPTABLE. PROVIDE AT 120 VOLTS.
L. PROVIDE A SOUND ATTENUATED ENCLOSURE RATED 79 DBA @ 23 FEET WHEN RUNNING AT FULL LOAD. ENCLOSURE SHALL BE AS FOLLOWS:
1. CONSTRUCTED OF SHEET STEEL, ZINC PHOSPHATE TREATED AND POLYESTER POWDER COATED
2. STAINLESS STEEL LATCHES AND HINGES
3. FULLY ENCLOSED SILENCER FOR OPERATOR SAFETY
4. FUEL TANK BASE, UL 142 APPROVED
5. SOUND ATTENUATION CONSTRUCTION
6. SHIELD VENT CONSTRUCTION
7. MANUAL FUEL LEVEL GAUGE
8. INTERIOR MANUAL FILL PORT
N. START UP/COMMISSIONING:
D. PROVIDE THE SERVICES OF A FACTORY TRAINED SERVICE TECHNICIAN TO PROVIDE START UP AND COMMISSIONING.
P. UPON COMPLETION OF INSTALLATION OF GENERATOR SET ON SITE, PROVIDE SITE TESTING PER NFPA LEVEL 1 REQUIREMENTS TO ENGINEER UPON SUCCESSFUL COMPLETION OF TEST.
Q. PROVIDE TEST REPORTS TO ENGINEER UPON SUCCESSFUL COMPLETION OF TEST.
R. NECESSARY REPAIRS SHALL BE MADE AND TESTING WILL BEGIN FROM THE START AT AN EXTRA COST TO THE PROJECT.
S. UPON SUCCESSFUL COMPLETION OF ALL START UP AND TESTING, PROVIDE A 1 DAY TRAINING SEMINAR TO SITE MANAGER AND ENGINEER RESPONSIBLE FOR MAINTENANCE AND OPERATION REQUIREMENTS OF THE GENERATOR.

JOB#: 9039 DATE: 1/16/07 SCALE: 1/4"	<p style="text-align: center;">OCEAN MEDICAL PROPERTIES 3 NORTH MAIN STREET FREEPORT, NY 11520</p>	<table border="1"> <tr> <td>REV #:</td> <td>DATE:</td> <td>NOTE:</td> <td>BY:</td> </tr> <tr> <td></td> <td>4/08/10</td> <td>GENERAL REVISIONS</td> <td>TET</td> </tr> </table>	REV #:	DATE:	NOTE:	BY:		4/08/10	GENERAL REVISIONS	TET	<p>THE DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY THE ARCHITECT FOR THIS PROJECT ARE THE INSTRUMENTS OF SERVICE. THE ARCHITECT'S SERVICES FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND UNLESS OTHERWISE PROVIDED, THE ARCHITECT SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COPYRIGHT, PATENT RIGHTS AND OTHER RESERVED RIGHTS INCLUDING BUT NOT LIMITED TO THE RIGHT TO REPRODUCE OR TO REPRODUCE ANY PART OF THE PROJECT. THE ARCHITECT'S DRAWINGS SHALL NOT BE USED BY THE OWNER OR OTHERS ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT OR FOR COMPLETION OF THIS PROJECT BY OTHERS.</p>	<p>CONSULTANTS: <i>Tangui Engineering Associates, P.C.</i> Consulting Engineers 205 Middle Country Road, Suite 208 Freeport, NY 11521 Phone: 631-750-2800 Fax: 631-750-2744</p>		<p style="text-align: center;">OCC ARCHITECTS</p> <p>OCC ARCHITECTS, LLP ARCHITECTURE-INTERIORS 60 CARLETON AVE ISLIP TERRACE, NY 11752 TEL: 631-859-3488 FAX: 631-859-3489</p>
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