



ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

ELECTRICAL GENERAL NOTES

1. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS
2. UNLESS OTHERWISE INDICATED, PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
3. ELECTRICAL PLANS AND DETAILS, AND ONE LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE ELECTRICAL SYSTEM. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONDUIT BODIES, CONNECTORS, BENDS, FITTINGS, HANGERS, AND ADDITIONAL PULL AND JUNCTION BOXES.
4. PROVIDE ELECTRICAL REQUIREMENTS AS INDICATED ON PLANS.
5. ALL EQUIPMENT AND MATERIAL SHALL BE LABELED AND LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING.
6. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
7. ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH STATE AND LOCAL GOVERNING AUTHORITIES.
8. THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED IN THE CURRENT EDITION OF THE STATE OF MAINE, CITY OF PORTLAND ELECTRICAL CODE AND ASSOCIATED AMENDMENTS.
9. THE TERM "INDICATED" SHALL MEAN "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
10. THE TERM "PROVIDE" SHALL MEAN "TO FURNISH, INSTALL, AND CONNECT COMPLETELY".
11. THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".
12. THE TERM "SPACE" ON PANELBOARD AND SWITCHBOARD SCHEDULES SHALL MEAN "PROVIDE SPACE TO INSTALL THE NUMBER OF POLES AND SIZE OF THE PROTECTIVE DEVICE INDICATED WITH THE ALL NECESSARY BUS AND FITTINGS TO INSTALL THE DEVICE AT SOME FUTURE DATE."
13. ELECTRICAL PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCES AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST; THUS REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.
14. COORDINATE ELECTRICAL WORK WITH OWNER.
15. COORDINATE ELECTRICAL WORK WITH OTHER DIVISIONS OF THIS PROJECT.
16. TURN OVER TO THE OWNER ALL MANUFACTURERS WARRANTIES FOR EQUIPMENT AND MATERIALS PROVIDED.
17. UNLESS OTHERWISE INDICATED, ALL ELECTRICAL EQUIPMENT HAS BEEN BASED ON GENERAL ELECTRIC PRODUCTS.
18. THE CONTRACTOR MAY SUBSTITUTE EQUIPMENT OF ANOTHER MANUFACTURER IF IT IS OF EQUAL QUALITY AND RATING, SUBJECT TO OWNER'S AND ENGINEER'S REVIEW AND ACCEPTANCE.
19. UNLESS OTHERWISE INDICATED, ALL ENCLOSURES FOR EQUIPMENT PROVIDED SHALL BE NEMA TYPE 1.
20. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS TO BE COPPER THHN/THWN.
21. UNLESS OTHERWISE INDICATED, ALL OUTLET AND SWITCH BOXES TO BE CAST IRON WITH THREADED HUBS.
22. IN INTERIOR PROTECTED LOCATIONS, OUTLET AND SWITCH BOXES MAY BE STEEL.
23. UNLESS OTHERWISE INDICATED, PROVIDE IVORY, HEAVY-DUTY GRADE, 20 AMPERE, RECEPTACLES AND SWITCHES. ALL PLATES IN FINISHED AREAS TO BE BRUSHED STAINLESS STEEL. PLATES FOR SURFACE-MOUNTED INTERIOR BOXES MAY BE STAMPED STEEL. PLATES EXPOSED TO WEATHER OR WATER TO BE GASKETED, WEATHERPROOF TYPE.
24. BEFORE SELECTING MATERIAL AND EQUIPMENT, AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
25. BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
26. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT STATE OF MAINE, CITY OF PORTLAND ELECTRICAL CODE AND ASSOCIATED AMENDMENTS.
27. THE MEASUREMENT FROM ABOVE FINISHED FLOOR (AFF) SHALL BE TAKEN FROM THE FINISHED FLOOR SURFACE TO THE TOP OF WALL RECEPTACLES AND SWITCH BOXES, TO THE CENTER LINE OF WALL LIGHTING OUTLET BOXES, TO THE TOP OF WALL-MOUNTED EQUIPMENT ENCLOSURES.
28. UNLESS OTHERWISE INDICATED, ALL CONDUCTORS ARE NO. 12 AWG.
29. CONDUIT SIZE FOR INDICATED CONDUCTORS SHALL BE BASED ON CHAPTER 9 OF NEC.
30. THE CONTRACTOR MAY GROUP BRANCH CIRCUIT HOME RUN CONDUCTORS IN A SINGLE RACEWAY IN ACCORDANCE WITH NEC ARTICLE 300-17, AND ARTICLE 310, NOTE 8 OF NOTES TO TABLES 310-16 THROUGH 310-19.
31. ALL BLANK COVER PLATES TO BE STAINLESS STEEL.
32. CONTRACTOR TO COORDINATE ROTATION OF ALL MOTORS WITH DIVISION 15.
33. UNLESS OTHERWISE INDICATED, RECEPTACLES BOXES SHALL BE 18 INCHES A.F.F.
34. UNLESS OTHERWISE INDICATED, WALL SWITCH BOXES SHALL BE 42 INCHES A.F.F.
35. IN AREAS WHERE WALLS AND CEILINGS ARE NOT TO BE DISTURBED OR RECONSTRUCTED: SURFACE METAL RACEWAY SYSTEM MAY BE USED TO INSTALL WIRING. SURFACE METAL RACEWAY SYSTEM AND BOXES MUST BE PAINTED TO MATCH EXISTING SURFACE CONDITIONS.

NOTE:
PROVIDE BECKWITH 3410A PROTECTION RELAY. PROVIDE VERIS H8035-0100 POWER METER + 3-20 WRAP COILS. INSTALL IN MAIN ELECTRICAL ROOM, MAIN ELECTRICAL ROOM LOCATED ON FIRST FLOOR APPROXIMATELY BELOW BOILER #2. VERIFY EXACT LOCATION IN FIELD.

REV.	DESCRIPTION	DATE

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NOTES:

PROJECT TITLE
CONTRACT DOCUMENTS FOR COGENERATION SYSTEM AT THE
CUMBERLAND COUNTY JAIL
50 COUNTY WAY, PORTLAND, MAINE

DRAWING TITLE
ELECTRICAL PLAN

JOB NUMBER	3161.01
PROJECT MANAGER	JAS
ENGINEER/DESIGNER	FB
DRAWN BY	ST
SCALE	AS NOTED
DATE	OCTOBER 31, 2012

CAD FILE:

SEAL: STATE OF CONNECTICUT
MICHAEL L. SALAMONE
No. 13100
LICENSED PROFESSIONAL ENGINEER

DRAWING NO.
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