

1		ELECTRICAL ABBREVIATIONS
	A, AMP A3P AC AFF AIC AIM AHJ ATS	AMPERE AMPERES, 3-POLE ALTERNATING CURRENT ABOVE FINISHED FLOOR AMPERE INTERRUPTING CAPACITY ADDRESSABLE INTERFACE MODULE AUTHORITY HAVING JURISDICTION AUTOMATIC TRANSFER SWITCH
	AWG BPW C CAT CB DOT EMT FACP	AMERICAN WIRE GAUGE BUREAU OF PUBLIC WORKS CONDUCTOR, CONDUIT CATALOG, CATEGORY CIRCUIT BREAKER DEPARTMENT OF TRANSPORTATION ELECTRICAL METALLIC TUBING FIRE ALARM CONTROL PANEL
	FE/FEC G GFCI HP HVAC KCMIL	FIRE EXTINGUISHER /FIRE EXTINGUISHER CABINET GROUND; GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER HORSEPOWER HEATING, VENTILATION, AND AIR CONDITIONING KILO-CIRCULAR MILS
	KVA KW L LED LTG M MAX	KILO-VOLT-AMPERE KILO-WATT LIGHTING LOAD TYPE FOR PANEL SCHEDULE LIGHT EMITTING DIODE LIGHTING MOTOR LOAD TYPE FOR PANEL SCHEDULE MAXIMUM
	MCB MIN MLO N NEMA	MAIN CIRCUIT BREAKER MINIMUM MAIN LUG ONLY NEUTRAL NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
	NFPA NO, # Ø P POTS P/O	NATIONAL FIRE PROTECTION ASSOCIATION NUMBER PHASE POLE PLAIN OLD TELEPHONE SERVICE PART OF
	POE PV R REC RGS RM	POWER OVER ETHERNET PHOTOVOLTAIC RECEPTACLE LOAD TYPE FOR PANEL SCHEDULE RECEPTACLE RIGID GALVANIZED STEEL ROOM
	SPD SW TGB TMGB THHN	SURGE PROTECTION DEVICE SWITCH TELECOM GROUND BUSBAR TELECOM MAIN GROUND BUSBAR HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET
	THWN	MOISTURE & HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET

TYPICAL

VOLT

WITH

VOLT AMPERE

WATT, WIRE

WIRE GUARD

WEATHERPROOF

USB

VOIP

W/

WG

WP

UNDERGROUND ELECTRIC

UNIVERSAL SERIAL BUS

UNDERWRITERS LABORATORIES

VOICE OVER INTERNET PROTOCOL

ELECTRICAL GENERAL NOTES

- ELECTRICAL INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA AND STATE AND LOCAL CODES.
- COORDINATE WORK WITH ARCHITECTURAL, CIVIL. STRUCTURAL, MECHANICAL AND PLUMBING TRADES.
- 3. ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND UL LISTED UNLESS OTHERWISE NOTED.
- 4. LIGHT FIXTURES AND OTHER CEILING MOUNTED ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND PLUMBING WORK TO AVOID INTERFERENCE.
- PROVIDE A SEPARATE GREEN GROUNDING CONDUCTOR FOR EACH INDIVIDUAL CIRCUIT. GROUND METAL CONDUIT. METAL CONDUIT SHALL NOT BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.
- 6. CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE.
- 7. CONDUIT SHALL BE MINIMUM 1/2" UNLESS OTHERWISE NOTED. COMMUNICATIONS CONDUIT SHALL BE MINIMUM 1".
- 8. UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZE FOR EACH 15A 1P, 15A 2P, 20A 1P, 20A 2P BRANCH CIRCUIT SHALL
- 9. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH INDIVIDUAL CIRCUIT. MULTIWIRE CIRCUITS ARE NOT PERMITTED.
- 10. UNLESS OTHERWISE INDICATED, WIRE AND CONDUIT SIZE FOR EACH 15A 3P AND 20A 3P BRANCH CIRCUIT SHALL BE 3 #12, 1 # 12G, IN 1/2"C.
- 11. DO NOT DRILL THROUGH OR CUT STRUCTURE.

BE 2 #12 + #12G, IN 1/2"C.

- 12. SEAL CONDUIT INTERIOR TO PROHIBIT PASSAGE OF MOISTURE. PROVIDE SEALANT PRODUCT INTENDED FOR SUCH USE THAT IS COMPATIBLE WITH CONDUCTOR INSULATION/JACKET MATERIALS. PROVIDE AT CONDUITS PENETRATING FOUNDATION WALLS. BASIS OF DESIGN: AMERICAN POLYWATER FST.
- 13. DO NOT COMBINE FEEDERS AND DEDICATED HOMERUNS WITH OTHER FEEDERS OR DEDICATED HOMERUNS.

WIRE SIZE	HOME RUNS (20A CIRCUIT) MAXIMUM DISTANCE IN FEET			•
	120V	208V	277V	480V
#12	60'	100'	140'	240'
#10	100'	160'	220'	360'
#8	150'	250'	325'	550'
#6	240'	400'	500'	800'

MOUNTING HEIGHT SCHEDULE

(UNLESS NOTED OTHERWISE)

- 1. RECEPTACLES 18" UNLES NOTED OTHERWISE. RECEPTACLES AT COUNTERS: 4" ABOVE COUNTER
- TOP/BACKSPLASH. SWITCHES 48".
- MANUAL PULL STATIONS: 48" FIRE ALARM STROBES: 80"

EQUIVALENT CONDUCTOR SIZES SCHEDULE (FEEDERS ONLY)					
COPPER	ALUMINUM				
1/0	3/0				
2/0	4/0				
3/0	250 KCMIL				
4/0	300 KCMIL				
250 KCMIL	400 KCMIL				
350 KCMIL	500 KCMIL				
500 KCMIL	750 KCMIL				

NOTE: CONDUCTOR SIZES SHOWN ON THE DRAWINGS ARE COPPER. INCREASE CONDUIT SIZE AS NEEDED IN ACCORDANCE WITH THE NEC IF ALUMINUM CONDUCTORS ARE USED.

	DALE C. LINCOLN, II No. 10443 OENSO OONAL BIJIIII	TII LCC
	DRAWN BY: BPD	

DESCRIPTION **REVISIONS**

NO. DATE

STATE OF MAINE PUBLIC SCHOOL PROJECT

TITLE PORTLAND PUBLIC SCHOOLS NEW FRED P. HALL ELEMENTARY SCHOOL LOCATION 23 ORONO ROAD, PORTLAND, ME

ELECTRICAL SYMBOLS, ABBREVIATIONS AND GENERAL NOTES

OAK POINT DAM DRAWING NO.

ASSOCIATES E TO E-001 SHEET NO.

231 Main Street, Biddeford, Maine 04005

::\Users\OPA\Documents\21602.08_HALL SCHOOL_ELECTRICAL_V17_OPA.rvt

CHECK BY: DCL

DATE 03/17/17