

GENERAL NOTES

- NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
- ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- PROVIDE PANELBOARDS AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER HAMMER OR APPROVED EQUAL.
- ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED ALL WIRING SHALL BE 2*12 AWG AND 1*12 EQUIPMENT GROUNDING CONDUCTOR. HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE *10 AWG.
- CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH *10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.
- TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.
- SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).
- FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (2.5 x FLA). SIZE IN THE FIELD IN ACCORDANCE WITH MFR. RECOMMENDATION.
- ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
- ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
- PROVIDE TWO BALLASTS FOR EACH FIXTURE INDICATED AS REQUIRING DUAL LEVEL SWITCHING. ONE BALLAST TO CONTROL OUTER LAMPS AND THE SECOND BALLAST TO CONTROL INNER LAMPS(S).
- COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MS OR COMMUNICATIONS CONTRACTOR.
- LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
- OPERATE ALL FLUORESCENT AND METAL HALIDE LAMPS FROM INITIAL INSTALLATION FOR 100 HOURS AT FULL OUTPUT (NO DIMMING) TO SEASON LAMPS AND STABILIZE LAMP COLOR.
- PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILINGS.
- THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.
- PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
- OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 - ARTICLE 406.9.
- ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
- PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT ADD TO MASTER AND DATE OBTAIN VALUES FROM ENGINEER.
- PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24
- BUILDING REQUIRES TWO SERVICE ENTRANCES, PROVIDE SIGNS PER NFPA 70-230.
- PROVIDE LABELING AT SERVICE EQUIPMENT INDICATING THE LOCATION OF EMERGENCY/STANDBY GENERATORS.

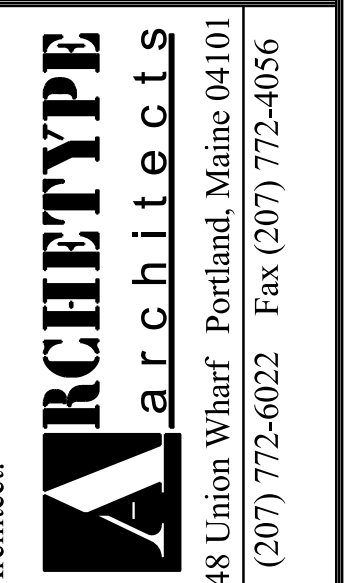
ABBREVIATIONS

A	AMP	LP	LIGHTING PANELBOARD
AC	ALTERNATING CURRENT, ABOVE COUNTER	LTG	LIGHTING
ADA	AMERICANS WITH DISABILITIES ACT	LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND FAULT CIRCUIT BREAKER TRIP FUNCTIONS AS INDICATED
AF	AMP FRAME	MCC	MOTOR CONTROL CENTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCCB	MOLDED CASE CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MDP	MAIN DISTRIBUTION PANEL
AIC	AMPERES INTERRUPTING CAPACITY	MH	MANHOLE
AL	ALUMINUM	MLO	MAIN LUGS ONLY
AT	AMP TRIP	MTS	MANUAL TRANSFER SWITCH
ATC	AUTOMATIC TEMPERATURE CONTROL	NC	NORMALLY CLOSED OF NURSE CALL
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BLOG	BUILDING	NL	NIGHT LIGHT
C	CONDUIT	NO	NORMALLY OPEN
CB	CIRCUIT BREAKER	NO.	NUMBER
CI	CAST IRON	OL	OVERLOAD
CKT	CIRCUIT	P	POLE
CL	CENTERLINE	PA	PUBLIC ADDRESS
CMP	CENTRAL MAINE POWER (ELECTRIC UTILITY)	PM	PUSH BUTTON
CMU	CONCRETE MASONRY UNIT	PF	POWER FACTOR
CT	CURRENT TRANSFORMER	PH	PHASE
CONC	CONCRETE	PNL	PANEL
CS	CARBON STEEL	TP1-2	TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED
CU	COPPER	PSNH	PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY)
CUH	CABINET UNIT HEATER	PT	POTENTIAL TRANSFORMER
DL	DAMP LOCATION	PVC	POLYVINYL CHLORIDE
EC	ELECTRICAL CONTRACTOR	RL	ELECTRICAL EQUIPMENT TO BE RELOCATED
EF	EXHAUST FAN	RM	ELECTRICAL EQUIPMENT TO REMAIN
ER	EXISTING REMAINS IN PLACE	RSC	RIGID STEEL CONDUIT
ERL	EXISTING RELOCATE	RTU	ROOF TOP UNIT
ERM	EXISTING REMOVE	RV	ELECTRICAL EQUIPMENT TO REMOVE
EUH	ELECTRICAL UNIT HEATER	RVNR	REDUCED VOLTAGE, NON-REVERSING
EWC	ELECTRICAL WATER COOLER	SB	SMART BOARD
FACP	FIRE ALARM CONTROL PANEL	SF	SUPPLY FAN
FAPS	FIRE ALARM PULL STATION	SLD	SINGLE LINE DIAGRAM
FRP	FIBER REINFORCED PLASTIC	SM	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT
FVNR	FULL VOLTAGE, NON-REVERSING	SS	SOLID STATE
FWU	FURNISHED WITH UNIT	SWBD-1	SWITCHBOARD NUMBER AS DESIGNATED
DC	DIRECT CURRENT	TC	TIME CLOCK
GFI	GROUND FAULT INTERRUPTER	TS	TRANSFER SWITCH
GND	GROUND	T&B	TOP AND BOTTOM
HID	HIGH INTENSITY DISCHARGE	TYP	TYPICAL
HOA	HAND-OFF-AUTOMATIC	UG	UNDERGROUND
HP	HORSEPOWER	V	VOLT
HPS	HIGH PRESSURE SODIUM	VA	VOLT-AMPERE
HZ	HERTZ	VFD	VARIABLE FREQUENCY DRIVE
ICB	INSULATED CASE CIRCUIT BREAKER	W	WITH
JB	JUNCTION BOX	W/	W/
KAIC	THOUSAND AMP INTERRUPTING CAPACITY	WP	WEATHERPROOF
KCML	THOUSAND CIRCULAR MIL	XFMR	TRANSFORMER
KV	THOUSAND VOLTS	XP	EXPLOSION PROOF
KVA	THOUSAND VOLT-AMPS	3PH	THREE PHASE
KW	THOUSAND WATTS (KILOWATT)	4W	FOUR WIRE
LC	LIGHTING CONTACTORS	3W	THREE WIRE
LCP	LATERAL CONTROL PIT		
LED	LIGHT EMITTING DIODE		

SYMBOL LEGEND

- POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN
- JUNCTION BOX - "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL, "DW" DENOTES DISHWASHER
- POWER POLE - UTILIZED FOR RUNNING POWER AND DATA TO LOCATIONS NOT AVAILABLE THROUGH WALL OR FLOORS.
- DISCONNECT SWITCH - 250 VOLT- SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING. PROVIDED BY E.C. UNLESS NOTED OTHERWISE. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER.
- COMBINATION MOTOR STARTER/ DISCONNECT SWITCH - WITH AUXILIARY CONTACTS AND HAND-OFF-AUTO SWITCH AND RED RUN LIGHT. PROVIDED AND INSTALLED BY E.C. UNLESS NOTED OTHERWISE.
- VARIABLE FREQUENCY DRIVE - PROVIDED BY M.C., INSTALLED AND WIRED BY E.C.
- DUPLEX RECEPTACLE- 20A, 125V. SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- QUAD RECEPTACLE- 20A, 125V. SPEC. GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE- 20A, 125V. SPEC. GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF- BOTTOM RECEPTACLE SWITCHED.
- GROUND FAULT DUPLEX RECEPTACLE- 20A, 125V- TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF EXCEPT AS NOTED.
- REFRIGERATOR DUPLEX RECEPTACLE- 20A, 125V. SPEC. GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT RECEPTACLE AT *48 INCHES ABOVE FINISHED FLOOR.
- FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE- 20A, 125V. SPEC. GRADE GROUNDING TYPE "CL" DENOTES CEILING MOUNTED
- RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- DRYER OUTLET 30 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILINGS.
- RACEWAY & WIRING RUN EXPOSED
- RACEWAY & WIRING RUN CONCEALED UNDER FLOOR OR BURIED 30" BELOW FINISH GRADE
- HOME RUN TO PANEL- ARROWS INDICATE QUANTITY OF CIRCUITS- NUMERALS DENOTE CIRCUIT NUMBERS
- CABLE TV JUNCTION BOX "CTV" - SIZE AS REQUIRED BY CABLE TV CO.
- TV OUTLET LOCATION - CABLE AND JACKS BY E.C.
- TEMPERATURE CONTROL PANEL - PROVIDED BY M.C. WIRED BY E.C.
- PUSHBUTTON FOR ELECTRICALLY OPERATED DOOR, FURN. W/ DOOR OPERATOR, WIRED BY E.C.
- DOOR PUSHBUTTON
- DOOR ELECTRIC STRIKE
- LIGHTING FIXTURES- CAPITAL LETTERS DENOTE TYPE AS PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. DIAGONAL LINE INDICATES NIGHT LIGHT - UNSWITCHED
- FAN/LIGHT UNIT PROVIDED BY MECHANICAL CONTRACTOR WIRED AND LAMPED BY E.C.
- SELF CONTAINED EMERGENCY LIGHTING UNIT W/2 HEADS DUAL-LITE (LED) MODEL LZ65I-03L WITH REMOTE HEADS (2) - 65 WATTS FOR 90 MINUTES, 6V D.C.
- DUAL-LITE (LED) MODEL No. 0CRD-0603L AT DOORS (EXTERIOR)
- EXIT LIGHT FIXTURE - UNSWITCHED - DUAL-LITE *LX-U-R-W-E OR APPROVED EQUAL
- CEILING MOUNTED MOTION SENSOR (WATTSTOPPER OR EQUAL) CORRIDORS- WT-2255 SENSOR & B120E-P POWER PACK. OTHER COMMON SPACES- W1-605 SENSOR & B120E-P POWER PACK SENSORS AND RELAYS TO CONTROL CIRCUITS IN SPACES INDICATED. DEVICES SHALL PROVIDE FULL COVERAGE IN AREAS INSTALLED
- WALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED
- SINGLE POLE SWITCH, 120 VOLT, 20 AMP, SPEC. GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY. LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- SWITCH WITH PILOT LIGHT, SWITCHES SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE
- RANGE HOOD FAN SWITCH, CONNECT TO RANGE HOOD FAN THRU RANGE HOOD JUNCTION BOX.
- RANGE HOOD LIGHT SWITCH, CONNECT TO RANGE HOOD LIGHT THRU RANGE HOOD JUNCTION BOX.
- BURNER SAFETY SWITCH - PROVIDE WITH RED PLATE - MOUNTED 72" AFF
- PHOTOCELL
- LIGHTING CONTACTOR
- TIMECLOCK
- 4 PORT DATA JACK LOCATION-MOUNT 18" AFF ON WALL LOCATIONS, COORDINATE WITH FURNITURE VENDOR ON DESK LOCATIONS. RUN CAT 6 CABLE BACK TO MDF
- DATA JACK, RUN TWO CAT 5E CABLES BACK TO TBB.
- FLUSH FLOOR MOUNTED TELEPHONE/DATA DUAL JACK, RUN TWO CAT 5E CABLES BACK TO TBB. "CL" DENOTES CEILING MOUNTED
- TELEPHONE JACK LOCATION MOUNT 18" AFF UNLESS NOTED OTHERWISE, RUN ONE CAT 5E CABLE BACK TO TBB.
- WIFIROUTER, OCE CAT 5E CABLE BACK TO TBB OR IT ROOM. MOUNT ABOVE CEILING, "W" DENOTED WALL MOUNTED AT 72" AFF
- INTERCOM PANEL IN UNIT
- INTERCOM PANEL AT RECEPTION
- FIRE ALARM CONTROL PANEL
- FIRE ALARM AUDIO/VISUAL, MOUNT 6'-8" AFF. NUMBER DENOTES CANDELA RATING. "MH" DENOTES MINHORN. NO DESIGNATION EQUALS 15cd.
- FIRE ALARM PULL STATION - MOUNT 48" AFF
- FIRE ALARM VISUAL STROBE ONLY, FLUSH MOUNT 6'-8" AFF NUMBER DENOTE CANDELA RATINGS.
- CEILING MOUNTED (CL) FIRE ALARM VISUAL STROBE ONLY. NUMBER DENOTE CANDELA RATINGS.
- SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED.
- SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED. "ER" = ELEV. RECALL
- SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE, WITH SOUNDER BASE
- CARBON MONOXIDE DETECTOR
- DUCT SMOKE DETECTOR & TEST STATION
- SMOKE DAMPER
- SPRINKLER SYSTEM FLOW SWITCH - SUPPLIED BY SPRINKLER CONTRACTOR
- SPRINKLER SYSTEM TAMPER SWITCH - WIRED BY E.C. VERIFY LOCATIONS WITH SPRINKLER CONTRACTOR.
- WP - DENOTES WEATHERPROOF CONSTRUCTION
- RP - DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED
- RM - DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
- RL - DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
- RV - DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED
- FWU - DENOTES FURNISHED WITH UNIT

Prepared For:



Consulting Engineer:

Architect:

Project:

Revisions:

Date: 16 September 2013

Scale: AS NOTED

LEGENDS, DETAILS AND SCHEDULES

E3