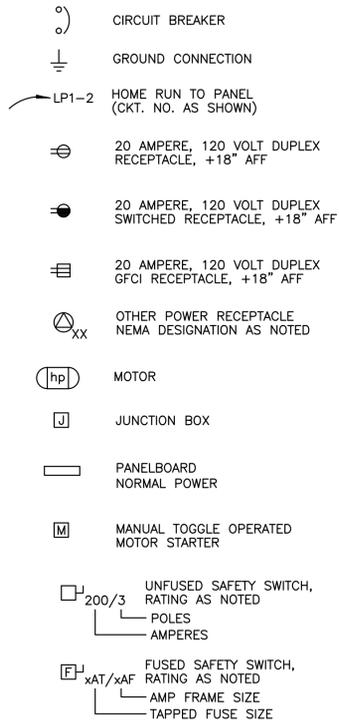
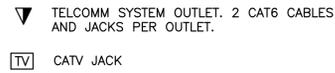


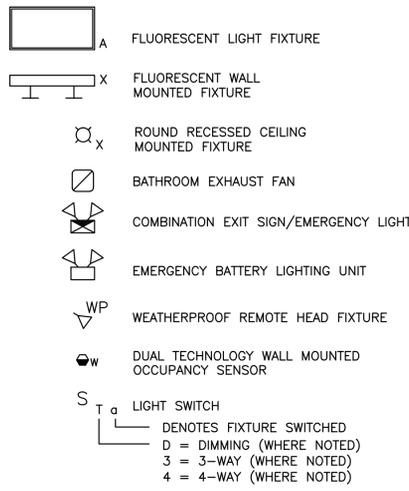
POWER SYMBOLS



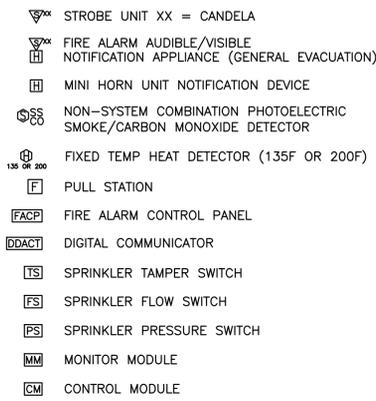
SYSTEMS SYMBOLS



LIGHTING SYMBOLS



FIRE ALARM SYMBOLS



ABBREVIATIONS

A	AMPERE	LV	LOW VOLTAGE
AC	ALTERNATING CURRENT	MCB	MAIN CIRCUIT BREAKER
AF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTION
AIC	AMPERES INTERRUPTING CAPACITY	MH	METAL HALIDE
AL	ALUMINUM	EMH	ELECTRICAL MANHOLE
ASYM	ASYMMETRICAL	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MO	MECHANICALLY OPERATED
AUX	AUXILIARY	MOD	MOTOR OPERATED DAMPER
AWG	AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH
BKR	BREAKER	MV	MERCURY VAPOR
C	CONDUIT	MVA	MEGAVOLT-AMPERE
CAB	CABINET	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NO	NORMALLY OPENED
CKT	CIRCUIT	OH	OVERHEAD
CT	CURRENT TRANSFORMER	OL	OVER LOAD
CU	COPPER	OOA	ON-OFF-AUTOMATIC
DC	DIRECT CURRENT	OSY	OUTSIDE STEM & YOKE VALVE (FA SYSTEM)
DISC	DISCONNECT	P	POLE
EG	EQUIPMENT GROUND	PB	PUSH BUTTON
EH	ELECTRICALLY HELD	PF	POWER FACTOR
EM	EMERGENCY	PH	PHASE
EMT	ELECTRICAL METALLIC TUBING	PNL	PANEL
EO	ELECTRICALLY OPERATED	PRI	PRIMARY
EPR	ETHYLENE PROPYLENE RUBBER	PT	POTENTIAL TRANSFORMER
EQUIP	EQUIPMENT	PVC	POLYVINYL CHLORIDE
EX	EXTERIOR	RGSC	RIGID GALVANIZED STEEL CONDUIT
FA	FIRE ALARM	RVSS	REDUCED VOLTAGE SOLID STATE
FC	FOOT-CANDLE	RSC	RIGID STEEL CONDUIT
FDR	FEEDER	RVAT	REDUCED VOLTAGE AUTO TRANSFORMER
FLUOR	FLUORESCENT	S	SIGNAL
FS	FLOW SWITCH (FA SYSTEM)	SEC	SECONDARY
FVNR	FULL VOLTAGE NON REVERSING	SHLD	SHIELDED CABLE
FVR	FULL VOLTAGE REVERSING	SW	SWITCH
GEN	GENERATOR	SWBD	SWITCHBOARD
GF	GROUND FAULT	SYM	SYMMETRICAL
GFI	GROUND FAULT CIRCUIT INTERRUPTER	T	TELEPHONE
GND	GROUND	TR	TRANSFORMER
H	HAND HOLE	TBD	TO BE DETERMINED
HOA	HAND-OFF-AUTOMATIC	TD	TELEDIALER
HP	HORSE POWER	TDR	TIME DELAY RELAY
HPS	HIGH PRESSURE SODIUM	TEL	TELEPHONE
HV	HIGH VOLTAGE	TM	TELEMETRY
HZ	HERTZ	UG	UNDERGROUND
IG	ISOLATED GROUND	UT	UTILITY
IMC	INTERMEDIATE METAL CONDUIT	V	VOLT
INCAND	INCANDESCENT	VA	VOLT-AMPERE
JB	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE
KCMIL	THOUSAND CIRCULAR MILS	W	WATT
KV	KILOVOLT	WH	WATT HOUR
KVA	KILO VOLT-AMPERE	WP	WEATHERPROOF
KW	KILOWATT	XFMR	TRANSFORMER
KWH	KILOWATT HOUR	XLP	CROSS LINKED POLYETHYLENE
LPS	LOW PRESSURE SODIUM	XP	EXPLOSION PROOF
LTG	LIGHTING		
LSW	LIGHT SWITCH		

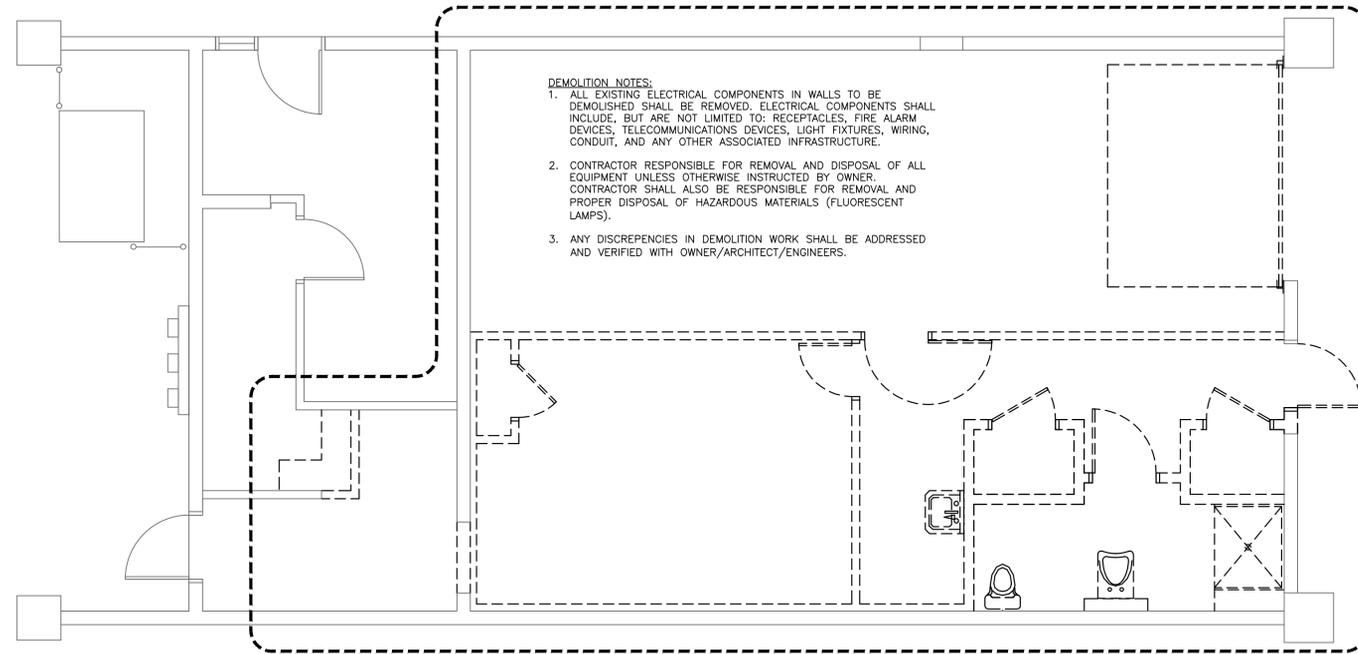
GENERAL NOTES

- ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC).
- ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
- MOUNTING HEIGHTS FOR EQUIPMENT SHALL BE AS FOLLOWS:
CONVENIENCE RECEPTACLES: 18" AFF TO BOTTOM OF BOX
LIGHTING TOGGLE SWITCHES: 48" AFF TO TOP OF BOX
UNIT LOAD CENTERS: SUCH THAT HIGHEST BREAKER SWITCH DOES NOT EXCEED 48" AFF
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION. ALSO MAINTAIN THE INTEGRITY OF THE SEPARATION WITH RESPECT TO AIR SEALING WHEN PENETRATING FLOORS, WALLS AND PARTITIONS.
- LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
- CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE, GROUNDING TYPE, TAMPER RESISTANT NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL. GROUND FAULT INTERRUPTING (GFI) RECEPTACLES SHALL ALSO BE COMMERCIAL SPECIFICATION GRADE INSTALLED WHERE SHOWN ON THE DRAWINGS. ARC FAULT BREAKERS OR RECEPTACLES SHALL BE INSTALLED AS SHOWN ON DRAWINGS OR AS REQUIRED BY NEC.
- SWITCHPLATE AND RECEPTACLE PLATE COVERS SHALL BE OF THERMOPLASTIC CONSTRUCTION WITH IVORY FINISH IN FINISHED AREAS. BRUSHED ALUMINUM IN MECHANICAL SPACES.
- UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 20A CIRCUITS SHALL BE 2#12AWG & #12 GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET SHALL BE #10AWG. ALL WIRING SHALL BE COPPER.
- CONDUIT SYSTEMS: INTERIOR WIRING SHALL BE TYPE MC. EMT CONDUITS SHALL BE USED WHERE EXPOSED INDOORS. GALVANIZED RIGID STEEL (GRS) CONDUITS SHALL BE INSTALLED WHERE RUN EXPOSED OUTDOORS. UNDERPIER CONDUITS SHALL BE SCHEDULE 80 PVC.



Winton Scott Architects
5 Milk Street
Portland, Maine 04101
207 774 4811
www.wintonsscott.com

Architecture / Planning
Preservation Architecture
Interior Architecture



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

Renovations To:

City of Portland
Fireboat Crew
Quarters

Main State Pier
Portland, Maine

CONSTRUCTION DOCUMENTS
October 22, 2012

ELECTRICAL DEMO
PLAN, LEGEND,
ABBREVIATIONS, &
GENERAL NOTES
SCALE: 1/4" = 1'-0"

