

LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMPS QUANTITY & TYPE	REMARKS
A	SEE DRAWING E1.0 FOR INFO	-	-
B	PRESCOLITE *CFTD832HEB	32W TRIPLE TUBE	RECESSED DOWNLIGHT
B1	PRESCOLITE *CFTD832HEB55	32W TRIPLE TUBE	RECESSED WALL WASHER
C	SEE DRAWING E1.0 FOR INFO	-	-
D	SEE DRAWING E1.0 FOR INFO	-	-
E	SEE DRAWING E1.0 FOR INFO	-	-
E1	PRESCOLITE EXTERIOR RECESSED WALL WASHER	32 W TT	RECESSED WET LOCATION WITH LENS, WALL WASHER
F	DUAL-LITE *LX-U-R-W-E	LED'S FURNISHED W/ UNIT	SINGLE/DOUBLE FACE, END/CEILING/WALL MOUNT
G	COLUMBIA LUN 4 4'-2 32-E U	(2) 4' T8	USED AT PARKING LEVEL, CUSTODIAL AND LAUNDRY ROOM
H	KENALL, MR17FD S MW, 42P-2-120	(2) 42W PLT	USED IN STAIRWAYS
J	SHERIDAN, SHS113 SERIES, SHS113SNEC-LA	(1) 13W CFO 4 PIN	SATIN NICKEL WALL SCONCE OUTSIDE UNIT DOORS
K	SHERIDAN, SHC155 SERIES, SHC155SNMVT-LA	(1) 55W T5 CIRCLINE	SATIN NICKEL CEILING MOUNTED CORRIDORS AND COMMON ROOMS
L	LITHONIA LIGHTING, MINI-PENDENT FERROS MOD. *11536 BN, BRUSHED NICKEL	(1) 13W COMPACT FULL SPIRAL 4-PIN 2700K FLUORESENT LAMP INCLUDED	5" DIA x 31 7/8" LONG CEILING MOUNTED MINI-PENDANT, AT PASSTRU AREA IN ALL UNITS, BRUSHED NICKEL FINISH
M	LITHONIA LIGHTING, 3 LIGHT FERROS VANITY MOD. *11536 BN, BRUSHED NICKEL	(3) 13W COMPACT FULL SPIRAL 4-PIN 2700K FLUORESENT LAMP INCLUDED	WALL MOUNTED VANITY, BRUSHED NICKEL, TO BE USED IN ALL BATHROOMS
N	AMERICAN FLUORESCENT HUDSON SERIES, MOD. HZNI55SNE6T, SATIN NICKLE	(1) 40W T5 CIRCLINE	16" DIA CEILING MOUNTED, KITCHEN, LIVING ROOM AND BATH IN ALL UNITS, SATIN FINISH
P	PROGRESS P83-26ICAT, P8060-28	(1) 26W CF	RECESSED SHOWER LIGHT
Q	PROGRESS LIGHTING *P7131-30str	(2) F17 T8	SLIM LINE WRAP - UNIT STORAGE CLOSET
R	PROGRESS *4020 (120V)	(1) 75W A19	ELEVATOR PIT LIGHT
Z	INSIGHT TREQ *TCL12-35K-W-4'-120-W	LEDS INCLUDED WITH UNIT	MOUNTED ON FACE OF LANDING VERTICAL TO LIGHT ART WALL IN FRONT STAIR TOWER.

All Lighting fixtures shall be energy star rated or have High performance T8 ballast and lamps to meet Efficiency Maine criteria. All fluorescent lamps 3000°K

GENERAL NOTES

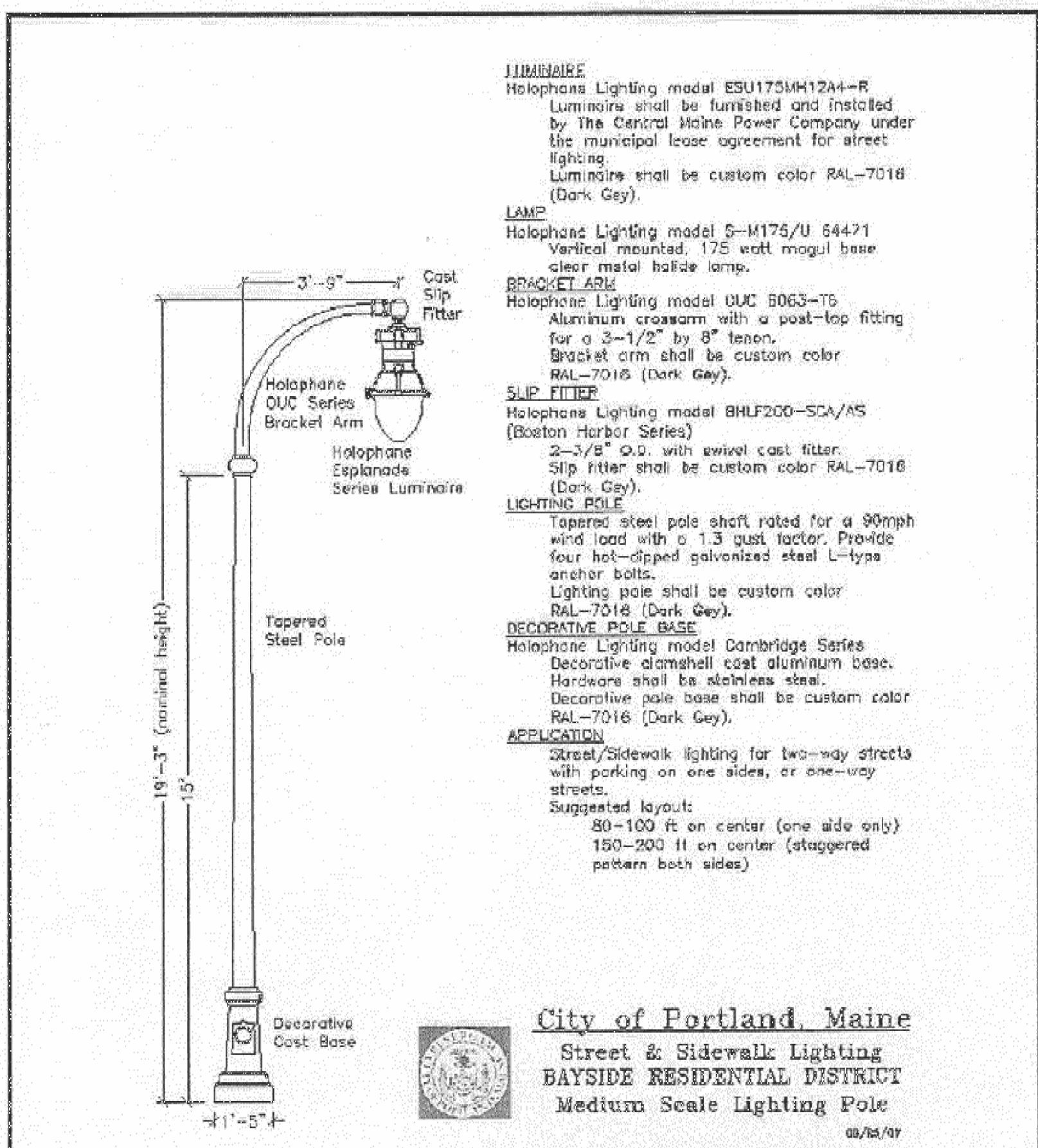
- NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
- ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- PROVIDE PANELBOARDS AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS, CUTLER HAMMER OR APPROVED EQUAL.
- ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL". UNLESS OTHERWISE NOTED ALL WIRING SHALL BE #12 AWG. AND #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 FEEDER 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 LAMP(S).
- COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS 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.
- STATE OF MAINE PROJECTS: IN CEILING CAVITIES WHERE CABLE TRAY OR BUNDLES OF UNPROTECTED CABLE EXCEED 12/BUNDLE, THE CEILING CAVITY SHALL HAVE FIRE PROTECTION (SPRINKLER HEADS). IF SPRINKLER PROTECTION ABOVE CEILING IS NOT IN THE PROJECT SCOPE-CABLE BUNDLES SHALL NOT EXCEED 12 AND SHALL BE SPACED A MINIMUM OF 2" APART IN ALL DIRECTIONS WITH HANGERS EVERY 4'. LOCAL SPRINKLER PROTECTION AT TELCOM ROOMS SHALL BE PROVIDED WHERE CABLE QUANTITIES EXCEED THIS RESTRICTION. THE USE OF FLENUM OR RISER CABLE NEGATES THESE REQUIREMENTS.
- 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 UNLESS NOTED OTHERWISE.

ABBREVIATIONS

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

SYMBOL LEGEND

—	POWER PANEL, 120/208V, 3PHS, 4WIRE	
TP	LOAD CENTER, 120/208V, 3PHS, 3WIRE	
⊙	ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN	
SM	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT	
⊙	JUNCTION BOX - "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL, "DW" DENOTES DISHWASHER	
A	LIGHTING FIXTURES - CAPITAL LETTERS DENOTE TYPE AS PER LIGHTING FIXTURE SCHEDULE, LOWER CASE LETTERS INDICATE SWITCH CONTROL, DIAGONAL LINE INDICATES NIGHT LIGHT - UNWITTED	
⊠	DISCONNECT SWITCH - 250 VOLT - SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING, PROVIDED AND INSTALLED BY E.C. - UNLESS OTHERWISE NOTED, 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 OTHERWISE NOTED.	
VFD	VARIABLE FREQUENCY DRIVE - PROVIDED BY M.C., INSTALLED AND WIRED BY E.C.	
—	RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILING.	
---	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	
1 3	BRANCH CIRCUIT WIRING SHALL CONSIST OF 2*12, #12G, 1/2" C, UNLESS OTHERWISE NOTED. ASTERISK INDICATES #10 AWG FOR ALL CIRCUITS CONTAINED IN HOMERUN. DOUBLE ASTERISK INDICATES 2*14 #1, #10, 1/2" C PROVIDE EQUIPMENT GROUNDS IN ACCORDANCE WITH NFPA 70, ARTICLE 250.	
S	SINGLE POLE SWITCH, 120 VOLT, 20 AMP, SPEC. GRADE, GROUNDING TYPE, MOUNT 48" AFF. 3-3 WAY 4-4 WAY P-Pilot LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD. PILOT LIGHT SWITCHES SHALL BE PROVIDED W/ ENGRAVED	
S	BURNER SAFETY SWITCH - PROVIDE WITH RED PLATE - MOUNTED 72" AFF	
⊠	SELF CONTAINED EMERGENCY LIGHTING UNIT W/ 2 HEADS QUALITY #12 - 12 WATTS FOR 90 MINUTES, V.O.C.	
E	EXIT LIGHT FIXTURE - UNSWITCHED - SEE LIGHTING FIXTURE SCHEDULE	
TC	TEMPERATURE CONTROL PANEL - PROVIDED BY M.C. WIRED BY E.C.	
D	DUPLEX RECEPTACLE - 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE - MOUNT 18" AFF. "R" DENOTES REFRIGERATOR, "D" DENOTES DOUBLE DUPLEX	
⊠	DUPLEX RECEPTACLE - 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE - MOUNT 18" AFF. BOTTOM RECEPTACLE SWITCHED	
GF	DUPLEX RECEPTACLE - GROUND FAULT OUTLET 20A, 125V - TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET, FLUSH MOUNTED 45" AFF EXCEPT AS NOTED.	
FL	DUPLEX RECEPTACLE - 15A, 125V SPEC. GRADE GROUNDING TYPE - FLUSH FLOOR 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	
⊠	FIRE ALARM CONTROL PANEL	
30	FIRE ALARM AUDIO/VISUAL MOUNT 6'-8" AFF - NUMERAL DENOTES CANDELA RATING "MH" DENOTES MINIMUM NO. DESIGNATION EQUALS A 15cd	
15	FIRE ALARM VISUAL STROBE ONLY - FLUSH MOUNT 6'-8" AFF NUMERALS DENOTE CANDELA RATINGS.	
150	200	SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
ER	SMOKE DETECTOR, PHOTOELECTRIC TYPE - SYSTEM CONNECTED, "ER" - ELEV. RECALL	
SB	SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE - W/ SOUNDER BASE - "SB" DENOTES SOUNDER BASE.	
SD	DUCT SMOKE DETECTOR & TEST STATION	
⊠	FIRE ALARM PULL STATION - MOUNT 48" AFF	
CTV	CABLE TV JUNCTION BOX "CTV" - SIZE AS REQUIRED BY CABLE TV CO.	
TV	TV OUTLET LOCATION - CABLE AND JACKS BY E.C.	
FL	FLOOR MOUNTED TELEPHONE/DATA DUAL JACK LOCATION MOUNT 18" AFF - TWO CAT 5E CABLES BACK TO TBB.	
▼	TELEPHONE/DATA DUAL JACK LOCATION MOUNT 18" AFF - TWO CAT 5E CABLES BACK TO TBB.	
▼	TELEPHONE JACK LOCATION MOUNT 18" AFF - ONE CAT 5E CABLE BACK TO TBB.	
⊠	PHOTOCELL	
⊠	LIGHTING CONTACTOR	
⊠	TIMECLOCK	
⊠	PUSHBUTTON FOR ELECTRICALLY OPERATED DOOR - FURN. W/ DOOR OPERATOR - WIRED BY E.C.	
⊠	DOOR CHIME	
⊠	DOOR PUSHBUTTON	
⊠	WEATHERPROOF	
⊠	INTERCOM PANEL IN UNIT	
⊠	DOOR ELECTRIC STRIKE	
⊠	INTERCOM PANEL AT RECEPTION	
⊠	SPRINKLER SYSTEM FLOW SWITCH	
⊠	SPRINKLER SYSTEM TAMPER SWITCH	
⊠	MOTION SENSOR (WATTSTOPPER OR EQUAL) CORRIDORS: WT-2255 SENSOR & B120E-P POWER PACK OTHER COMMON SPACES: WT-605 SENSOR & B120E-P POWER PACK	
⊠	SMOKE DAMPER	



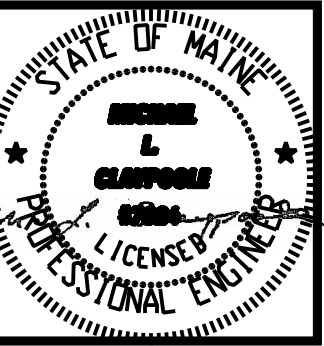
DATE: AUGUST 2009	CITY OF PORTLAND, MAINE TECHNICAL STANDARDS MANUAL	MUNICIPAL STREET LIGHTING STANDARDS SECTION X	FIGURE: X-2D
REVISED:	BAYSIDE DISTRICT MEDIUM SCALE RESIDENTIAL LIGHT		

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JOB NO.
10-020

DRWN: CHK
TWG WSBJR

SCALE:
AS NOTED

ISSUE:
August 3, 2011
For Bid

TITLE
SCHEDULES,
LEGENDS, AND
DETAILS

SHEET

E3.1