

A	AMPERE	MC	MICROPHONE
AC	ALTERNATING CURRENT	MICRO	MICROWAVE
AFB	ABOVE FINISHED FLOOR	MLO	MAIN LUG ONLY MOUNT
AFG	ABOVE FINISHED GRADE	MT	MOUNT
AHU	AIR HANDLING UNIT	MTS	MANUAL TRANSFER SWITCH
AIC	AMPERES INTERRUPTING CAPACITY	MCP	MOTOR CONTROL PANEL
ATS	AUTOMATIC TRANSFER SWITCH	MH	METAL HALIDE
AWG	AMERICAN WIRE GAUGE	MDP	MAIN DISTRIBUTION PANEL
BAS	BUILDING AUTOMATION SYSTEM	MIN	MINIMUM
BKBD	BACKBOARD	N	NEUTRAL
C	CONDUIT	NC	NORMALLY CLOSED
CAT	CATALOG, CATEGORY	NEC	NATIONAL ELECTRICAL CODE
CATV	CABLE TV	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT
CM	CIRCULAR MILS	NF	NON-FUSED
COMM	COMMUNICATIONS	NO	NORMALLY OPEN
CU	MECH CONDENSING UNIT	NO., #	NUMBER
CU	COPPER	NTS	NOT TO SCALE
CUH	CABINET UNIT HEATER	OC	ON CENTER
DC	DIRECT CURRENT	OCC	OCCUPANCY
DDC	DIGITAL DIRECT CONTROL	OH	OVERHEAD
DN	DOWN	P	POLE
DW	DISHWASHER	PA	PUBLIC ADDRESS
DWG	DRAWING	PH	PHASE
EF	EXHAUST FAN	PIR	PASSIVE INFRARED
ELEV	ELEVATOR	PNL	PANELBOARD
EMT	ELECTRICAL METALLIC TUBING	P/O	PART OF
EP	EXPLOSION PROOF	PV	PHOTOVOLTAIC
ERU	ENERGY RECOVERY UNIT	PVC	POLY-VINYL CHLORIDE
EWC	ELECTRIC WATER COOLER	REC	RECEPTACLE
FACP	FIRE ALARM CONTROL PANEL	REF	REFRIGERATOR RECEPT
FB	FLOOR BOX	RF	RETURN FAN
FLA	FULL LOAD AMPS	RGS	RIGID GALVANIZED STEEL
FWE	FURNISHED WITH EQUIPMENT	RM	ROOM
G, GND	GROUND	RMC	RIGID METAL CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RTU	ROOFTOP UNIT
GFP	GROUND FAULT PROTECTION	REF	REFRIGERATOR
HID	HIGH INTENSITY DISCHARGE	SF	SUPPLY FAN
HOA	HAND-OFF-AUTO SELECTOR SWITCH	SPDT	SINGLE POLE, DOUBLE THROW SWITCH
HP	HORSEPOWER	SQ	SQUARE
HVAC	HEATING, VENTILATION AND COOLING UNIT	TEL	TELEPHONE
IDS	INTRUSION DETECTION SYSTEM	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
IG	ISOLATED GROUND	TYP	TYPICAL
IMC	INTERMEDIATE METAL CONDUIT	UF	UNDER FLOOR
IR	INFRARED	UG	UNDERGROUND
K	KILO	UH	UNIT HEATER
KCMIL	KILO CIRCULAR MILS	UL	UNDERWRITER'S LABORATORY
KW	KILOWATT	UNO	UNLESS NOTED OTHERWISE
KVA	KILO VOLT-AMPS	UPS	UNINTERRUPTIBLE POWER SUPPLY
LAN	LOCAL AREA NETWORK	V	VOLTS
LC	LIGHTING CONTACTOR	VFD	VARIABLE FREQUENCY DRIVE
LF	LINEAR FEET	W	WATT
LC	LOADCENTER	WP	WEATHERPROOF
LCP	LIGHTING CONTROL PANEL	WG	WIREGUARD
LED	LIGHT EMITTING DIODE	XFMR	TRANSFORMER
LTG	LIGHTING	(E)	EXISTING ITEM TO REMAIN
LTS	LIGHTS	(R)	REMOVE ITEM AND DISPOSE OF PROPERLY
MAX	MAXIMUM	(ER)	RELOCATED ITEM AT NEW LOCATION
MCB	MAIN CIRCUIT BREAKER	(RL)	REMOVE AND RELOCATE
MECH	MECHANICAL		
MH	MOUNTING HEIGHT		

NOTE
SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY INDICATE THEIR INCORPORATION INTO THE DESIGN

- \$A LIGHT SWITCH, 20A, 125/277V
- \$3 THREE-WAY LIGHT SWITCH
- \$4 FOUR-WAY LIGHT SWITCH
- \$2 TWO-POLE SWITCH
- \$K KEY OPERATED SWITCH
- \$M MOTOR RATED SWITCH
- \$P SINGLE POLE SWITCH WITH RED PILOT LIGHT - RED LIGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED
- \$a MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING
- \$os OCCUPANCY SENSOR SWITCH, WALL MOUNTED
- \$os2 2-BUTTON OCCUPANCY SENSOR SWITCH
- CS OCCUPANCY SENSOR, CEILING MOUNTED
- CS- OCCUPANCY SENSOR, WALL MOUNTED
- \$D DIMMER SWITCH - COORDINATE DIMMING TECHNOLOGY WITH LOAD TO BE DIMMED
- \$F HANDICAP SWITCHES FOR HOOD LIGHT AND FAN
- \$L TIMER SWITCH, 60 MINUTES
- \$T LOW VOLTAGE LIGHT SWITCH, MOMENTARY CONTACT
- \$LV LIGHTING TIME CLOCK
- LC LIGHTING CONTACTOR
- LCP LIGHTING CONTROL PANEL
- PC PHOTOCELL

NOTES:
1. MOUNT LIGHT SWITCHES WITH CENTERLINE 48" AFF, UNO
2. LOWER CASE LETTER AT SWITCH INDICATES SWITCHING

- HATCHING INDICATES FIXTURE WITH ONE LAMP ON EMERGENCY BATTERY/BALLAST
- BP# EMER BATTERY UNIT WITH NO HEADS, MT 7'-6" AFF BP# INDICATES BATTERY UNIT DESIGNATION, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- BP# EMER BATTERY UNIT WITH INTEGRAL HEADS, MT 7'-6" AFF BP# INDICATES BATTERY UNIT DESIGNATION, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- BP# SINGLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF BP# INDICATES BATTERY UNIT CONNECTED TO
- BP# DOUBLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF BP# INDICATES BATTERY UNIT CONNECTED TO
- EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S) ARROWHEAD INDICATES CHEVRON(S) REQUIRED, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
- EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S) MOUNT AT 7'-6" AFF OR OVER DOOR, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.

- LIGHT FIXTURE, RECESSED TROFFER, TYPICAL
- RECESSED DOWNLIGHT
- RECESSED WALL WASHER DOWNLIGHT
- WALL MOUNTED LIGHT FIXTURE
- CEILING SURFACE MOUNTED LIGHT FIXTURE
- PENDANT MOUNTED LIGHT FIXTURE
- LINEAR LIGHT FIXTURE, CEILING SURFACE MOUNTED
- LINEAR LIGHT FIXTURE, PENDANT MOUNTED
- LINEAR LIGHT FIXTURE, WALL MOUNTED
- REMOTE BALLAST, ALLOW 9" IN ALL DIRECTIONS BETWEEN BALLASTS
- TYPICAL FOR ALL FIXTURE TYPES:
INDICATES LUMINAIRE TYPE ON SCHEDULE
F1 - LOWER CASE LETTER INDICATES SWITCHING
- INDICATES CIRCUIT NUMBER

- CR CARD READER - PROVIDE 4" SQ. JUNCTION BOX AT 48" AFF AND 1" C
 - DA DOOR ALARM CONTACT - PROVIDE 1/2" CONDUIT
 - KEY PAD - PROVIDE 4" SQ. BOX AT 48" AFF AND 3/4" C
 - MT MOTION DETECTOR - PROVIDE 1/2" CONDUIT
 - CM CAMERA - PROVIDE 3/4" CONDUIT
 - SP SECURITY PANEL
 - DR DOOR RELEASE - PROVIDE CONDUIT STUBBED OUT OF WALL AT CEILING
 - SS SIREN - PROVIDE 1/2" CONDUIT
 - RX REQUEST TO EXIT MOTION SENSOR - PROVIDE 4" SQ. JUNCTION BOX AT CEILING
 - ES ELECTRIC STRIKE - PROVIDE 1/2" C AND 120V CONNECTION TO POWER SUPPLY
 - EL ELECTRIFIED LEVER LOCKSET - PROVIDE 120V WIRING AND 12V POWER SUPPLY COMPATIBLE WITH HARDWARE. COORDINATE WITH DIVISION 08
- SECURITY & ACCESS CONTROL GENERAL NOTES:**
- DIVISION 26 SHALL PROVIDE BOXES AND CONDUITS WITH PULL STRINGS AS INDICATED. CABLING AND TERMINATIONS SHALL BE BY OWNER.
 - FOR EACH ITEM, PROVIDE CONDUIT TO 6" ABOVE THE NEAR ACCESSIBLE CEILING THAT IS CONTIGUOUS TO THE SERVER ROOM.

E5 SECURITY AND ACCESS CONTROL

NO SCALE

- Φ SINGLE RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R
- Φ SINGLE RECEPTACLE, 20A, 125V, 2P, 3W, NEMA L5-20R (TWISTLOCK)
- Φ SINGLE RECEPTACLE, 30A, 125/250V, 3P, 4W, GROUNDING, NEMA 14-30R, (3)#10+(1)#10G TO 30A, 2P CIRCUIT BREAKER
- Φ SINGLE RECEPTACLE, 30A, 250V, 2P, 3W, NEMA 6-30R
- Φ SINGLE RECEPTACLE, 50A, 125/250V, 3P, 4W, GROUNDING, NEMA 14-50R, (3)#6+(1)#10 TO 50A, 2P CIRCUIT BREAKER

NOTES:
PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES

- F Φ DUPLX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
- F Φ DOUBLE DUPLX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
- F J JUNCTION BOX, MOUNT IN FLUSH FLOOR BOX
- F E EMPTY FLUSH FLOOR BOX

- P Φ DUPLX RECEPTACLE, PEDESTAL MOUNTED
- P Φ SINGLE RECEPTACLE, PEDESTAL MOUNTED
- P J JUNCTION BOX, PEDESTAL MOUNTED
- C Φ DUPLX RECEPTACLE, FLUSH MOUNTED IN CEILING
- C Φ DOUBLE DUPLX RECEPTACLE, FLUSH MOUNTED IN CEILING
- C Φ DUPLX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
- C Φ DOUBLE DUPLX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
- C Φ DATA OUTLET, FLUSH MOUNTED IN CEILING, SEE SCHEDULE FOR TYPE
- C J JUNCTION BOX, FLUSH MOUNTED IN CEILING
- Φ OVERHEAD RECEPTACLE DROP, DUPLEX
- Φ OVERHEAD RECEPTACLE DROP, DOUBLE DUPLEX
- Φ OVERHEAD RECEPTACLE DROP, GFCI
- EM RECESSED FLOOR BOX WITH (4) DUPLX RECEPTACLES AND (8) DATA OUTLETS, BASIS OF DESIGN: FSR, INC #FL-600P, "EM" INDICATES POWER ON EMERGENCY CIRCUIT
- EM SYSTEMS FURNITURE MULTI-SERVICE POKE-THRU, "EM" INDICATES POWER ON EMERGENCY CIRCUIT
- EM 6" DIA POKE-THRU WITH (2) DUPLX RECEPTACLES AND (4) DATA OUTLETS, "EM" INDICATES POWER ON EMERGENCY CIRCUIT
- Φ DUPLX RECEPTACLE - 20A, 125V, 2P, 3W, NEMA 5-20R
- Φ DOUBLE DUPLX RECEPTACLE
- Φ DUPLX RECEPTACLE, HATCH INDICATES CONNECTION TO STANDBY PANEL
- Φ GFCI DUPLX RECEPTACLE, MOUNT 44" AFF UNO
- Φ GFCI DOUBLE DUPLX RECEPTACLE, MOUNT 44" AFF UNO
- WP GFCI RECEPTACLE WITH WEATHERPROOF COVER
- Φ GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF

- NOTES:
1. MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO
2. MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFF UNO

NO SCALE

- FACP FIRE ALARM CONTROL PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
- FAA FIRE ALARM ANNIUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
- ◇ SMOKE DETECTOR
- ◇ SMOKE DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL
- SS◇ SINGLE STATION SMOKE DETECTOR WITH AUDIBLE INDICATING APPLIANCE, MOUNT ON WALL
- SS AV◇ SINGLE STATION SMOKE DETECTOR WITH AUDIBLE/VISUAL INDICATING APPLIANCE
- ◇ HEAT DETECTOR
- ◇ HEAT DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL
- ◇ DUCT SMOKE DETECTOR
- ◇ GAS VALVE
- ◇ FLAME DETECTOR, ARROW INDICATES DIRECTION OF COVERAGE
- RTS- REMOTE TEST INDICATOR FOR DUCT SMOKES, MOUNT ON CEILING BENEATH UNIT, OR WALL MOUNT WHERE INDICATED ON PLANS
- MANUAL PULL STATION, MOUNT 48" AFF
- 30 □- HORN/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
- 30 □- SPEAKER/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
- 15 □- STROBE ONLY NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS
- R □- STROBE NOTIFICATION APPLIANCE, 15 CANDELA, 120V, CONNECT TO OPERATE UPON ACTIVATION OF ROOM SMOKE DETECTOR
- MINI HORN NOTIFICATION APPLIANCE
- 30 □- HORN/STROBE WITH PULL STATION DIRECTLY BELOW
- ◇ MAGNETIC DOOR HOLD OPEN DEVICE
- T TRANSFORMER
- ◇ SPRINKLER SYSTEM WATER FLOW SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- ◇ SPRINKLER SYSTEM TAMPER SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- ◇ SPRINKLER SYSTEM CHECK VALVE PRESSURE SWITCH, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- ◇ SPRINKLER SYSTEM EXCESS PRESSURE PUMP, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26
- KNOX BOX, PROVIDE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS
- SD SMOKE DAMPER
- FSD FIRE AND SMOKE DAMPER

D7 FIRE ALARM SYSTEM

NO SCALE

- W TELEPHONE WALL OUTLET, 44" AFF UNO
- ▼ TELEPHONE OUTLET FOR ELEVATOR CONNECTION
- ▼ TELEPHONE OUTLET, 18" AFF UNO
- ▼ TEL/DATA OUTLET, 18" AFF UNO
- ▼ DATA OUTLET, 18" AFF UNO
- WA WIRELESS ACCESS POINT CEILING MOUNTED
- WA WIRELESS ACCESS POINT WALL MOUNTED

TECHNOLOGY GENERAL NOTES

- DIVISION 26 SHALL PROVIDE BOXES AND CONDUITS WITH PULL STRINGS AS INDICATED. CABLING AND TERMINATIONS SHALL BE BY OWNER.
- FOR EACH TECHNOLOGY OUTLET, PROVIDE A 2-GANG BOX WITH 1-GANG ADAPTER. PROVIDE A 1" CONDUIT FROM EACH OUTLET BOX TO 6" ABOVE THE NEAREST ACCESSIBLE CEILING THAT IS CONTIGUOUS TO A J-HOOK OR CABLE TRAY PATHWAY.

NO SCALE

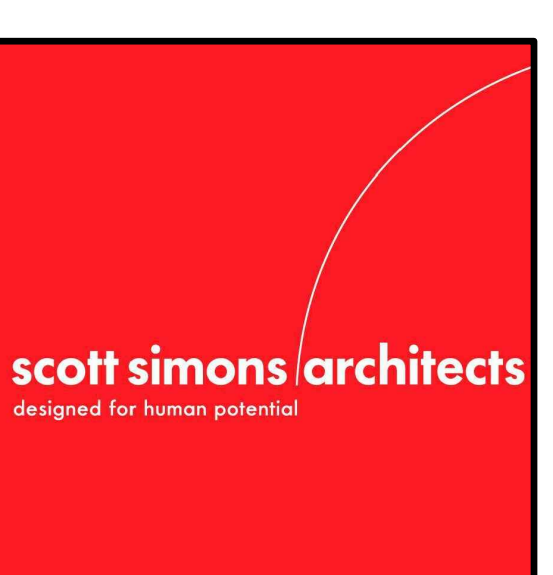
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - FLUSH MOUNTED
- FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH
- 00 □ MOTOR STARTER - NUMBER INDICATES NEMA SIZE
- 00 □ COMBINATION MOTOR STARTER/FUSED DISCONNECT
- MOTOR OR FAN
- ⊙ METER AND CABINET
- ⊙ JUNCTION BOX - CEILING MOUNTED
- ⊙ JUNCTION BOX - WALL MOUNTED
- ⊙ JUNCTION BOX - FLOOR MOUNTED
- ⊙ JUNCTION BOX - PEDESTAL MOUNTED
- TA TRANSFORMER - NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE
- VFD VARIABLE FREQUENCY DRIVE
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR
- EMERGENCY SHUTOFF SWITCH - WALL MOUNTED 48" TO CENTERLINE - PROVIDE TAMPER-PROOF COVER
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- WIRING UNDERGROUND OR UNDERSLAB
- ← HOMERUN - (2)#12+(1)#12G UNO (EXCEPT LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)
- ← SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- ← 3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
- ~ FLEXIBLE CONNECTION
- || GROUNDING SYSTEM
- POWER POLE
- PUSHBUTTON
- DOORBELL CHIME
- SYSTEMS FURNITURE WHIP ON WALL
- MOTORIZED DOOR OPERATOR AND PUSH PADDLE - FURNISHED BY DIVISION 08, WIRED BY DIVISION 26
- ENCLOSED CIRCUIT BREAKER

D9 POWER DISTRIBUTION

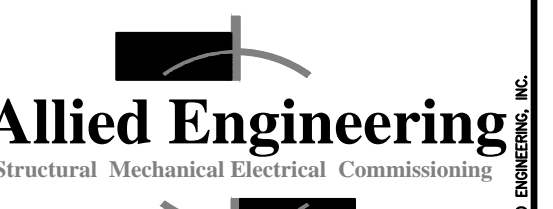
NO SCALE

- BRANCH CIRCUIT WIRING NOT SHOWN. WIRE AND CONNECT ELECTRICAL ITEMS TO CIRCUITS INDICATED.
- DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.
- DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.
- THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.
- COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.
- VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN
- POWER WIRING FOR EQUIPMENT & CONTROL SHALL BE PERFORMED BY DIVISION 26. ALL CONTROL WIRING OPERATING AT LESS THAN 120 VOLTS FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 23.
- NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.

NO SCALE



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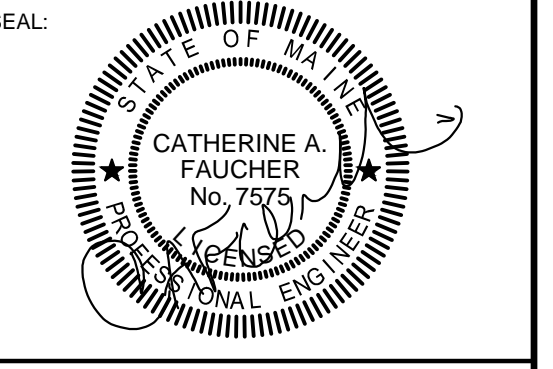


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PORTLAND TECHNOLOGY PARK
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5	DATE
6	DATE

DATE OF ISSUE: 14 January, 2016
PROJECT NUMBER: 2105-0100 Patrons Oxford
STATUS: Construction Documents

ELECTRICAL LEGENDS, ABBEVIATIONS AND GENERAL NOTES

E000