IGHTING SYMBOL LEGEND:	POWER SYMBOL LEGEN
NOTE: SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE	
• AX- 2x2 RECESSED LED FIXTURE	PANELBOARD, (SEE SHEET
INDICATES ASSOCIATED CONTROL DEVICE	#AS FILATELY FUSED SAFET
■ _{Bx} 1×4 LINEAR LED FIXTURE	#AS INDICATE
INDICATES ASSOCIATED CONTROL DEVICE	MANUFACTURI
	MOTOR STAR
□ cEXTERIOR LED WALLPACK INDICATES FIXTURE TYPE	VOLTAGE AND MANUFACTURI
Xny RECESSED LED DOWN LIGHT	M _{WP} MANUAL MOT
RECESSED LED DOWN LIGHT INDICATES ASSOCIATED CONTROL DEVICE INDICATES FIXTURE TYPE	TOGGLE OPE MANUFACTUR
EXIT SIGN, WALL MOUNTED SHADING INDICATES SIGN FACE	DUPLEX REC MANUFACTUR
DUAL HEAD EMERGENCY LIGHT BATTERY PACK	∰48",₩P GFCI DUPLEX
⊲ REMOTE EMERGENCY LIGHTING HEAD	LINDICATE THAN N
S _{3x}	DUPLEX RECI
INDICATES 3-WAY CONTROL	(EXISTING DE
	<u>ΦΦΦ</u> MULTI OUTLE
	J JUNCTION BO
	HARD-WIRED
	O CONDUIT TUR

<u>GROUN</u>	IDING SYMBOL LEGEND:	<u>SYSTEMS/LC</u>	W-VOLTAG
	GROUND ROD: $10'-0" \times 3/4"$ DIAMETER; COPPER CLAD		OMBINATION VO (2) RJ
∳ □	EXOTHERMIC WELD CONNECTION COMPRESSION CONNECTION		ECURITY S
G	BARE COPPER CONDUCTOR RUN EXPOSED	S-KP SE	ECURITY SI
— — G — —	BARE COPPER CONDUCTOR EMBEDDED IN CONCRETE OR BURIED	HC SE	ECURITY CA
		HA AN	NTENNA (E
			TERCOM S E PLANS
		AL (2)	HOTOELECT
			ARBON MO

SUBMITTALS:	ACCESS CONTROL SYS
NOTE: EACH SUBMITTAL SHALL BE CLEARLY MARKED WITH UNIQUE EQUIPMENT IDENTIFIER.	1. VISITORS CAN ON 1.1. VISITOR USES SCALE HOUSE
 PANELBOARD LIGHTING FIXTURES (EACH TYPE) DEVICES 	1.2. ATTENDANT R DESK CONSO 1.3. VISITOR CAN
 3.1. RECEPTACLES (NORMAL AND GFCI) 3.2. LIGHTING TOGGLE SWITCHES 3.3. VOICE/DATA OUTLETS 	A KEYPAD ON 1.4. VISITOR EXITS
 4. DISCONNECT SWITCH (DWH-1) 5. DISCONNECT SWITCH (RTU-1) 6. MOTOR STARTER (RTU-1) 7. ENVIRONMENTAL MONITORING SYSTEM 7.1. CONTROLLER 	2. SCALE HOUSE AT RESTROOM DOOR 2.1. ATTENDANT M 2.2. ATTENDANT M EXIT.
 7.2. SMOKE DETECTOR 7.3. CARBON MONOXIDE DETECTOR 8. AS-BUILT INFORMATION 8.1. ELECTRICAL PLAN VIEWS (SEPARATE POWER/SYSTEMS AND 	3. ALL DOOR HARD
LIGHTING) INDICATING FINAL DEVICE/EQUIPMENT LOCATION AND CIRCUIT, IF APPLICABLE 8.2. FINAL PANELBOARD DIRECTORY 8.3. GATE INTERCONNECTIONS	

INTERCOM SYSTEM INTERCONNECTIONS

ACCESS CONTROL SYSTEM INTERCONNECTIONS

8.4.

8.5.

IND:

RD, SERVICE ENTRANCE E-601 FOR SPECIFICATIONS)

ETY SWITCH; 240V/3P; HEAVY-DUTY TES SWITCH AMPERE RATING TES FUSE RATING ENCLOSURE RERS: SQUARE D, EATON, OR SIEMENS

RTER: HAND/OFF/AUTO ND CURRENT RATING TO MATCH EQUIPMENT RERS: SQUARE D, EATON, OR SIEMENS

)TOR STARTER W/ OVERLOAD PROTECTION; ERATED, PHASE/POLES AS REQUIRED RERS: SQUARE D OR HUBBELL TES WEATHERPROOF RATING

CEPTACLE, NEMA 5-20R RERS: LEVITON OR HUBBELL

EX RECEPTACLE, NEMA 5-20R RERS: LEVITON OR HUBBELL TES WEATHERPROOF RATING TES MOUNTING HEIGHT (IF DIFFERENT NORMAL SPECIFIED REQUIREMENT)

CEPTACLE, NEMA 5-20R, BELOW GRADE DEVICES TO REMAIN)

ET ASSEMBLY/WIRE MOLD (DEMOLITION)

BOX (TYPICALLY USED TO INDICATE A ED CONNECTION TO A PIECE OF EQUIPMENT)

CONNECTION

JRNING UP/DOWN, AS NOTED

AGE SYMBOL LEGEND: ION VOICE/DATA SYSTEM OUTLET; RJ45 PORTS FOR CAT 5 CONNECTIONS

SYSTEM - DOOR CONTACT (NEW)

SYSTEM - KEYPAD

CAMERA (EXISTING)

(EXISTING)

SYSTEM STATION: FOR DESCRIPTION

CTRIC SMOKE DETECTOR

IONOXIDE DETECTOR

YSTEM NOTES:

ONLY ACCESS RESTROOM FROM BUILDING EXTERIOR ES EXTERIOR INTERCOM TO COMMUNICATE REQUEST TO SE ATTENDANT. RELEASES EXTERIOR DOOR LOCK CONTACT FROM OFFICE

OLE. NOT ACCESS INTERIOR OF SCALE HOUSE AS THERE IS ON INTERIOR OF RESTROOM DOOR TO VESTIBULE.

ITS THROUGH EXTERIOR DOOR USING NORMAL HARDWARE.

ATTENDANT ACCESSES RESTROOM VIA VESTIBULE

MUST USE KEYPAD TO ACCESS RESTROOM MUST USE EXIT KEYPAD ON INTERIOR OF RESTROOM TO

DWARE SYSTEMS SHALL OPERATE AT 24VDC

ABBREVIATIONS:

Ø	DIAMETER
Â	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	
AHJ	
AIC	
AWG	
С	CONDUIT
CO	CARBON MONOXIDE
	COMMUNICATIONS (VOICE/DATA)
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
FWE	•
GFCI	
GND	
	HEATING, AIR CONDITIONING, AND REFRIGERATION
HPS	
K	KILO
	THOUSAND CIRCULAR MILS
	KILOVOLT-AMPERE
KW	
LFMC	
LTG	
MAX	
MC	
MCB	MAIN CIRCUIT BREAKER
MTD NEC	MOUNTED NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIC
	NOT IN CONTRACT
NTS	NOT TO SCALE
P	POLE
PH	PHASE
PVC	
QTY	QUANTITY
RM(S)	•
RGS	
SPD	SURGE PROTECTIVE DEVICE
STP	SHIELDED TWISTED PAIR
TVSS	
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
	UNINTERRUPTIBLE POWER SUPPLY
	VOLT
VA	VOLT-AMPERE
VAC	VOLTS – ALTERNATING CURRENT
*/ (0	

DEMOLITION NOTES:

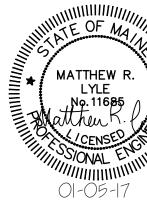
WP

WEATHER PROOF

- 1. SEE SHEET ED-101 FOR EXISTING CONDITIONS AND DEMOLITION SCOPE.
- 2. ELECTRICAL CONTRACTOR (EC) SHALL ATTEND PRE-BID SITE WALK-THROUGH TO VERIFY EXISTING CONDITIONS. ALL QUESTIONS REGARDING WORK SCOPE SHALL BE SUBMITTED TO OWNER FOR CLARIFICATION.
- 3. EC SHALL INVENTORY ALL ELECTRICAL UTILITIES ENTERING AND LEAVING THE BUILDING, INCLUDING BOTH FEEDERS/BRANCH CIRCUITS (GREATER THAN OR EQUAL TO 120V) AND LOW-VOLTAGE (LESS THAN 120V) CONTROL/SIGNAL CABLING. KEEP AS-BUILT RECORDS OF EXISTING ELECTRICAL UTILITIES FOR RECONNECTION DURING INSTALLATION PHASE.

NOTE: UTILITIES SCHEDULED TO BE RECONNECTED SHALL BE SPLICED IN JUNCTION BOXES BELOW FINISHED FLOOR OF NEW SCALE HOUSE BUILDING. UTILITIES WILL THEN EXTEND TO NEW LOCATIONS AS SHOWN ON PLANS.

- 4. ALL POWER AND CONTROL WIRING FOR TRUCK SCALES SHALL BE HANDLED BY SCALE VENDOR.
- 5. EC SHALL INSPECT SALVAGED CONDUCTORS FOR ELECTRICAL INTEGRITY. NOTE CONDUCTORS THAT EXHIBIT DISCOLORATION OR DAMAGED INSULATION AND BRING TO THE OWNER'S ATTENTION.
- REMOVE EXISTING BUILDING GROUND WIRE WHERE CONCRETE CURB/SIDEWALK IS BEING REMOVED. SALVAGE REMAINING GROUND WIRE FOR RECONNECTION DURING INSTALLATION PHASE.



ISSUED FOR BID NOT FOR CONSTRUCTION **JANUARY 5, 2017**

PLEASE NOTE: THIS DOCUMENT MAY NOT ACCURATELY REPRESENT THE FINAL DOCUM ONLY AN ENGINEER, ARCHITECT OR SURVEY SIGNED, SEALED AND DATED PAPER COPY, PROVIDED BY THIS OFFICE, MAY BE UTILIZED BIDDING OR CONSTRUCTION PURPOSES.

NOTES:

- 1. ALL GENERAL NOTES, SYMBOL LISTS AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL ELECTRICAL DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION IN THE DESIGN.
- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE (NEC) 2014.
- 3. ALL CONDUCTOR MATERIAL, INCLUDING WIRING, PANELBOARD BUSES, AND GROUNDING SHALL BE COPPER. ALUMINUM CONDUCTORS SHALL NOT BE ALLOWED.
- 4. ALL INTERIOR DISTRIBUTION AND BRANCH WIRING SHALL BE 600V COPPER WITH THHN/THWN INSULATION. ALL EXTERIOR DISTRIBUTION AND BRANCH WIRING SHALL BE 600V COPPER WITH XHHW INSULATION.
- 5. CONDUIT TYPES (MINIMUM TRADE SIZE 3/4"):
- INTERIOR: EMT
- INTERIOR, SURFACE MOUNT (OFFICE): WIREMOLD • INTERIOR, LIGHTING CONNECTIONS: MC CABLE
- EXTERIOR, EXPOSED: RGS
- EXTERIOR, UNDERGROUND: PVC
- EXTERIOR, EQUIPMENT CONNECTIONS: LFMC
- 6. ALL EQUIPMENT DISCONNECTS AND MANUAL MOTOR STARTERS ARE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR UNITS PROVIDED WITH STARTERS. ELECTRICAL CONTRACTOR SHALL ASSUME RESPONSIBILITY OF DISCONNECT/STARTER INSTALLATION AND CONNECTION. MOUNT ALL DISCONNECTS AND MOTOR STARTERS IN AN ACCESSIBLE LOCATION WITHIN SIGHT OF THE LOAD SERVED.
- 7. ALL WALL-MOUNTED DEVICE BOXES AND FACEPLATES SHALL BE STAINLESS STEEL.
- 8. DEVICE MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED:
- CONVENIENCE RECEPTACLES: 18-INCHES AFF
- LAVATORY GFCI RECEPTACLES: 48-INCHES AFF
- EXTERIOR GFCI RECEPTACLES: 48-INCHES AFF • LIGHTING TOGGLE SWITCHES: 48-INCHES AFF
- TEL/DATA SYSTEM OUTLETS: 18-INCHES AFF
- EQUIPMENT DISCONNECT/STARTER, INTERIOR: 48-INCHES AFF
- 8. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF SEPARATION.
- EQUIPMENT CONNECTIONS ARE SHOWN FOR BASIS-OF-DESIGN PRODUCTS. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT CONNECTIONS - INCLUDING DISCONNECTING MEANS, OVERCURRENT PROTECTION, AND WIRE SIZING - WITH SELECTED MANUFACTURERS' RECOMMENDED INSTRUCTIONS.
- 10. CONTRACTOR SHALL COORDINATE FINAL DEVICE LOCATIONS WITH OWNER'S PROPOSED FURNITURE LAYOUT.
- 11. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE NECESSARY FOR A COMPLETE INSTALLATION. MOUNT EQUIPMENT AND ROUTE CONDUIT SO AS NOT TO INTERFERE WITH OPERATIONS SUCH AS DOOR SWINGS, MECHANICAL EQUIPMENT OPERATION, ETC. HARDWARE USED FOR EXTERIOR INSTALLATIONS SHALL BE RATED FOR EXTERIOR ENVIRONMENTS
- 12. MANUFACTURERS NAME AND MODEL NUMBERS ARE USED THROUGHOUT THE PROJECT FOR DESCRIPTIVE PURPOSES ONLY AND ARE INTENDED TO INDICATE THE STANDARD OF MATERIAL OR ARTICLES REQUIRED. DESIGN IS PREDICATED AROUND LISTED MANUFACTURERS AS NOTED ON SCHEDULES AND NOTES AND IS NOT INTENDED TO LIMIT THE CONTRACTOR TO ONE MANUFACTURER.
- 13. PANELBOARD SHALL HAVE APPROPRIATE ARC-FLASH LABELS INSTALLED IN ACCORDANCE WITH NFPA 70E REQUIREMENTS.
- 14. GROUND THE ELECTRICAL DISTRIBUTION SYSTEM IN ACCORDANCE WITH NEC ARTICLE 250 AND SHEET E-101.
- 15. ALL VOICE/DATA CABLING SHALL BE CAT 5. COORDINATE ALL VOICE AND DATA INSTALLATIONS WITH OWNER.
- 16. PROVIDE ADHESIVE LAMINATED LABELS FOR ALL DEVICES. LABELS SHALL BE BLACK LETTERING ON A WHITE BACKGROUND. LABELS SHALL INDICATE SOURCE CIRCUIT OF DEVICE AND BE LOCATED ON DEVICE WALL PLATE OR OTHER CONSPICUOUS LOCATION.

							64 BLUEBE	ecomaine RRY ROAD, PORTLAND, ME
								LE HOUSE WITH
	C	RE-ISSUED FOR BID		MRL	CBC	01/05/17	INSULATED BLOCK CONSTRUCTION	
	В	RE-ISSUED FOR BID		MRL	CBC	10/28/16		
	Α	ISSUED FOR BID		MRL	CBC	9/02/16	ELECTRICAL LEGEND, ABBREVIATIONS	
	REV	REV DESCRIPTION		DWN	APP	DATE	AND GENERAL NOTES	
				SIZE:	AN	SID	PROJECT NO.	DRAWING NO.
ENT.		47A York Street		DATE:	09/	02/2016	162.002.002	
OR	Portland, Maine 04101		DES BY: MRL		L			
FOR	G	Colby Company 207.553.7753 colbycoengineering.com		DWN BY: MRL			- SHEET	⊢_()()1
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