

N:\Starbucks\Starbucks Northeast\STRN0127_7433_Hay Building_ME.rvt 11/22/2013 1:42:37 PM

Electrical Design Notes

Equipment				Electrical										
Design ID	Count	Description	Manufacturer	Model #	Volts	Phase	Wires	FLA	KW	HP	DCPD Rating	Branch Circuit	NEMA Plug	Notes
10312	1	Brewer Single Soft Heat Warming Stand	Bunn-O-Matic	27825.0007	120	1	3	0.75	0.090		15	#12 & #12 G IN 3/4" C	5-15	2
10475	1	Ice-Machine 1109b Air Cooled Side Vent	Ice-O-Matic	ICE1006-A	208	1	3	13.80	2.870		20	#12 & #12 G IN 3/4" C	5-15	2
10874	1	Hot Water Dispenser	Insinkerator	C1300	120	1	3	10.80	1.296		15	#12 & #12 G IN 3/4" C	5-15	2
11083	1	Fridge Reach In 2 Door 51x35in	TRUE	TG2R-2S-STAR247028	120	1	3	10.00	1.200	1/2	15	#12 & #12 G IN 3/4" C	5-15	2
11823	1	Scale - Digital	Edlund	EDL-10	120	1	3	1.00	0.120		15	#12 & #12 G IN 3/4" C	5-15	7
11851	1	Clover Brewer	SB Coffee Equipment	1S	208	1	3	17.50	3.700		30	#10 & #10 G IN 3/4" C	6-30	5
12631	1	Grinder Ditting KR804	Ditting	KR804	120	1	3	4.20	0.500		15	#12 & #12 G IN 3/4" C	5-15	5
12394	1	Food Case - Upright Self Serve Chilled	Structural Concepts	SBB45	208	1	3	15.00	3.120		20	#12 & #12 G IN 3/4" C	5-15	2
13620	1	Freezer Reach-In 1-Door 27in 685mm	TRUE	T-23F	120	1	3	7.20	0.864	1/2	15	#12 & #12 G IN 3/4" C	5-15	2
13697	1	Washer Hot	Hobart	LXeH	208	1	4	31.80	6.614	3/4	45	#6 & #10 G IN 1" C	14-45	5.6 (NEMA 14-50R, Hubbell hb9450a series or equal / NEMA 14-50P, Hubbell hb9452c series or equal)

- Notes:
- 1 Provide GFCI Circuit Breaker
 - 2 Cord & Plug supplied and installed by ES. EC shall provide receptacle.
 - 3 Cord & Plug supplied and installed by ES. Receptacle supplied by ES and installed by EC.
 - 4 Cord & Plug Supplied by ES. EC shall provide receptacle and install cord.
 - 5 Cord, Plug, & Receptacle Supplied and installed by EC.
 - 6 Single Phase, three wire equipment. Provide neutral conductor and ground.
 - 7 Power supply, cord, & plug supplied by ES. EC shall provide receptacle and mount power supply.
 - 8 Hard Wired.

Electrical Design Notes

- Furnish and install a complete and operating system. All items are not necessarily shown.
- Electrical Contractor responsible for site investigation prior to start of work to reveal full scope of work.
- Dimensions are to finish face unless otherwise noted.
- Refer to detail sheets for exact locations and mounting heights of electrical devices.
- The Electrical Contractor is responsible for confirming all voltage requirements on all equipment and providing buck-boost transformers as may be needed for code. All are not necessarily indicated.
- Electrical Contractor shall coordinate with Plumbing and Heating, Ventilating, and Air Conditioning (HVAC) Contractors for any additional equipment needing power.
- All future equipment needed herein shall be provided with an appropriate receptacle and fully wired. Even if not specifically indicated.
- Ground fault circuit interrupter (GFCI) breakers (not receptacles) shall be utilized where required by code and at any floor boxes. Provide dedicated neutral wire for all these circuits.
- Equipment requires connection to the building electrical system. Furnish and install all necessary conduct, wire, connections, receptacles and overcurrent protection necessary to ensure the equipment functioned properly and complies with all applicable local and national codes. Coordinate equipment requirements with manufacturer cut sheet prior to rough-in.
- All back bar and front bar J-boxes and outlets shall be surface mounted. Provide conduits as needed and (1) additional spare conduit between all J-boxes for future electrical requirements. All J-boxes shall be positioned to avoid obstruction of any equipment such as refrigerators and dishwashers.

Sheet Notes

- Contractor shall wire new equipment back to existing panelboard. New breakers shall match existing breaker type. AIC rating of new breakers shall also match relocated panelboard rating. Contractor shall verify ahead of time that relocated panelboard has the spare capacity to handle additional load. In the event that relocated panelboard can not handle additional load, contact engineer of record prior to commencement of work.
- Existing equipment to be relocated to location shown. Contractor to extend conduit and wire to new location if applicable. Wire back to relocated panel as indicated. Contractor to ensure that relocated wire and conduit are in proper working order. Replace as necessary.
- Retail grinder and/or scale, provide receptacle @ 26" AFF. Grinder requires 20 amp outlet.
- Dual brewer: provide NEMA 14-50r receptacle, Hubbell hb9450a series or equal at 26" AFF. Route 3/4" conduit with (3) #6, #10 ground to panel. Provide NEMA 14-50p angled plug and cord to brewer. Hubbell hb9452c series or equal.
- Coffee warmers: provide receptacle @ 26" AFF
- Under counter refrigerator: provide receptacle at 26" AFF.
- Blenders: provide a duplex receptacle at 26" AFF on a dedicated circuit for each blender.
- Furnish and install NEMA 6-30r receptacles at 26" AFF, and all necessary, conduit, wire and connections back to serving panel to support warming ovens
- NGO warming oven: furnish and install backbox for data outlet at 26" AFF. Route (1) 3/4" conduit from backbox to data rack near manager's work station. Label conduit for data cabling and provide pull string from end to end.
- Safe: furnish and install duplex receptacle and security J-box at 18" AFF.
- Insta-hot: provide receptacle at 26" AFF.
- Espresso machines: circuit voltage shall be between 198 volts and 218 volts. If needed, the contractor shall provide a Square-D buck-boost transformer to be located in an accessible location within 6'-0" of the electrical panel. Confirm location with project manager prior to rough-in. Provide any additional conduit, wire, primary and secondary protection, and connections necessary to insure a functional system.
- Espresso machine: furnish and install NEMA 6-50r receptacle Hubbell hb9367 series or equal at 26" AFF. Route 3/4" conduit (2) #6 and (1) #10 ground from machine back to panel. Furnish and install NEMA 6-50p angled plug, Hubbell hb9368 series or equal.
- Stub up power, data phone or safe conduits 6" AFF to serve nearby devices in this location. Route power conductors in flexible metal conduit concealed or tight-to-wall from receptacles to nearby rigid stub up and back to serving power panel. Route data, phone and safe conduits under floor back to data rack near manager workstation. Provide an end-to-end pull string in all data phone and safe conduits, label each end of pull string with conduit system ("POS", "security", etc.) and destination ("drive-thru", "front bar", etc.). Provide insulated bushings on all stubbed-up and exposed conduit ends.
- POS: furnish and install double duplex isolated-grounding type receptacle at 18" AFF, including green grounding wire and isolated grounding wire back to serving power panel per code. Furnish and install (1) J-box for data outlet and (1) J-box for phone outlet at 18" AFF.
- Food case: provide hardwired connections for refrigeration and lighting. Route 3/4" conduit with (2) #12, #12 ground to panel.
- Convenience receptacles: provide wall mounted receptacles in seating areas.
- Sanitizer (high temp): provide NEMA 14-50r receptacle, Hubbell hb945a series or equal. Route 3/4" conduit with (3) #6, #10 ground to panel. Provide NEMA 14-50p angled plug and cord to dishwasher, Hubbell hb9452c series or equal.
- Refrigerator and/or freezer: receptacle at 84" AFF.
- Clover grinder and scale: furnish and install fourplex receptacle in cabinet for equipment and maintenance.
- Ice Machine: confirm voltage configuration prior to rough-in with equipment schedule. Furnish and install all necessary conduit, wire, connections, and breakers to support ice machine.

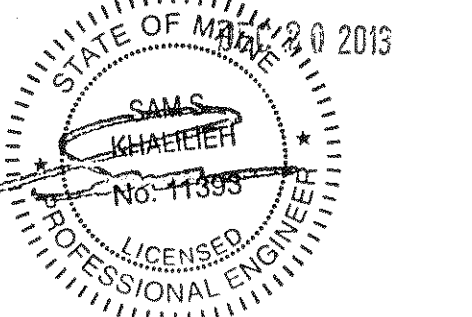


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ENGINEER OF RECORD

Revision Schedule			
Rev	Date	By	Description



FULL REMODEL

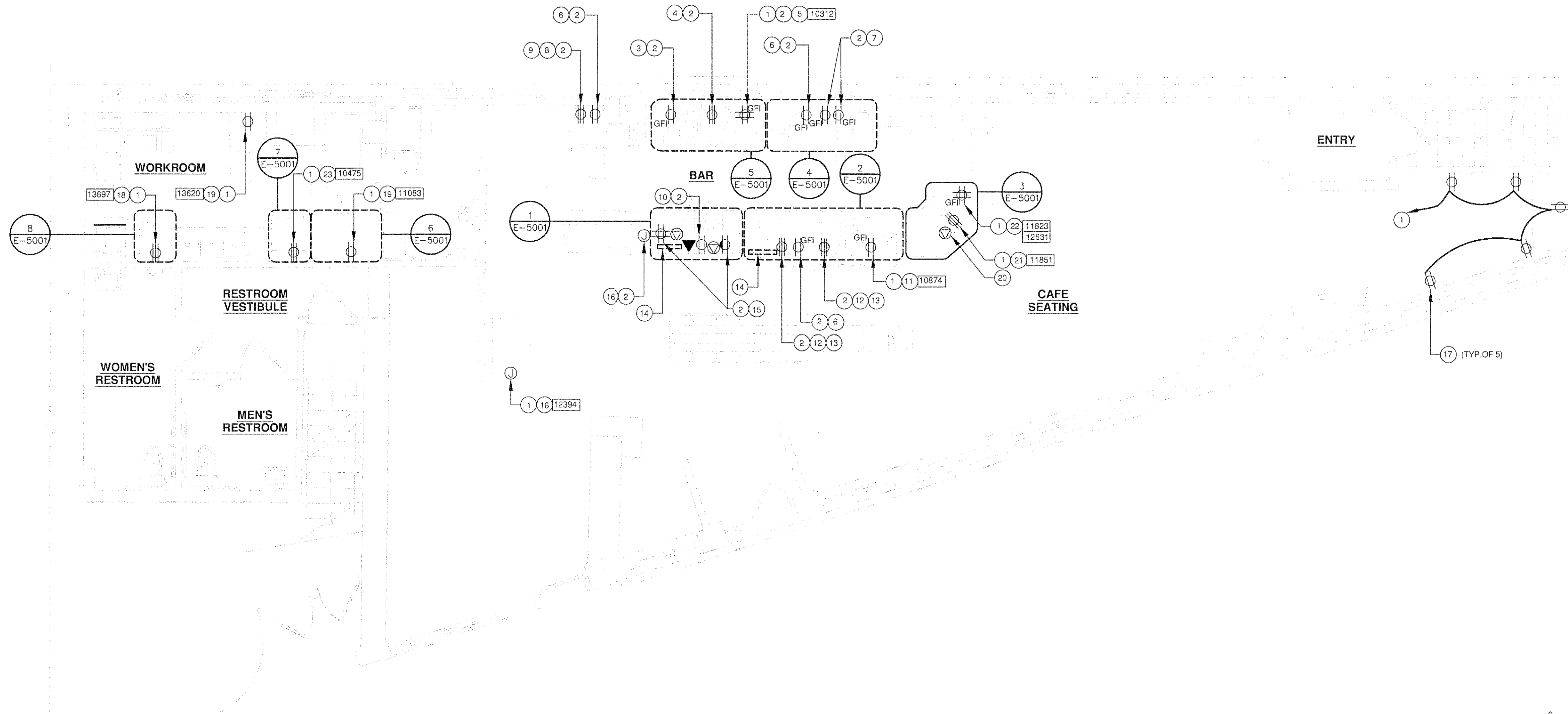
PROJECT NAME: **HAY BUILDING**
 PROJECT ADDRESS: **594 CONGRESS STREET
 PORTLAND, ME 04101**

STORE #: 7433
 PROJECT #: 04704-026
 CONCEPT: NCS
 PALETTE: REGIONAL MODERN
 ISSUE DATE: 12-16-2013
 DESIGN MANAGER: ETA KLIGER
 LEED® AP: N/A
 PRODUCTION DESIGNER: SANKET J.
 CHECKED BY: HUSSEIN B.

SHEET TITLE:
ELECTRICAL DESIGN

SCALE: As indicated

SHEET NUMBER:
E-1102



1 ELECTRICAL DESIGN PLAN
 Scale: 1/4" = 1'-0"

