



# THE SCHOOL DISTRICT OF PHILADELPHIA

THE SCHOOL DISTRICT OF PHILADELPHIA  
Office of Capital Programs  
440 North Broad Street, 3<sup>rd</sup> Floor – Suite 371  
Philadelphia, PA 19130

TELEPHONE: (215) 400-4730

## Addendum No. 03

**Subject:** Martha Washington: Contract Nos. 2022-003G, 2022-003E

**Location:** Martha Washington Elementary: 766 N. 44<sup>th</sup> Street Philadelphia, PA 19104

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**This Addendum dated 24 of February 2022, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.**

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**Clarifications:** None

### **Questions & Answers:**

Q1: Specification section 264313-2.2 specifies a service entrance surge protective device (SPD) for the existing to remain main distribution panelboard “MDP”. Drawing E3.00 does **not** show a new SDP serving MDP. The floor plans neither identify the location of MDP nor the location of the SPD. Please confirm a new SPD is required for existing MDP.

**A1: No new SPD is required at the existing MDP.**

Q2: New panelboards D1A and D1B are specified with integral surge protective devices (SPD's) on drawing E4.01. The panelboard spec 262416 does **not** specify SPD's. The SPD details in 264313-2.2 appear to show ratings for a service entrance rated model which is **not** applicable to the integral panelboard SPD's which are at panelboard level and typically have lower ratings. Spec section 264313-2.1A(1) doesn't list any of the panelboard manufacturers as acceptable; the panelboard manufacturers would provide the integral SPD's. Does specification section 264313 apply to the integral panelboard surge protective devices or does another specification need to be provided?

**A2: The panelboard manufacturer shall provide the integral SPD (100KA/per phase).**

Q3: Please provide basis of design model number for the clocks shown on T1.01. Per spec 275313, the manufacturer should be wireless from Sapling. Drawing E1.01 keynote 3 states to connect the new clock to the nearest 120V receptacle circuit, which means the new clocks are hard wired. However, we do not know if the round or square, the size, etc.

**A3: Provide 12” round analog clocks. See attached Sapling Cut Sheets with highlighted model and options.**

Q4: Notes at the clocks on drawing E1.01 state to provide (1) data drop from the new clocks back to the new master clock. Please confirm new clocks do **not** require CAT6. Spec 275313 calls for wireless clocks, so CAT6 should not be required.

**A4: Data Drop is not required. New clocks shall have wireless correction. Verify with existing master clock.**

Q5: Please clarify what type of structured cabling is required on this project. Spec 271005-2.4 calls for CAT6, but spec section 2.5 calls for CAT6A. Typically, SDP requires CAT6 enhanced cabling, but recently CAT6A has been specified for some SDP projects.

**A5: Provide CAT6 cable.**

Q6: Please confirm Leviton Berktek is an approved manufacturer system for structured cabling.

**A6: No. Not an approved manufacturer.**

Q7: Regarding drawing E0.01 note #17 and general note 6 on E1.01 please confirm painting is in the GC scope.

**A7: All painting is in the General Contractor scope of work.**

Q8: E0.01 general electrical note 13 mentions tamperproof screws for devices. The tamperproof screws are expensive and a lead time. Stainless Steel coverplates come with screws already, so this note is telling us throw those screws out and purchase tamper resistant ones. For surface mounted wiring devices with raised square box covers, not only do the devices have to be attached to the coverplate but there are larger screws which attach the raised cover to the square box ; are all the screws in this scenario supposed to be tamper resistant? Additionally, general note 3 on drawings E1.01 leads us to believe tamper resistant screws are not required. Please confirm this tamper resistant screw requirement can be eliminated because it adds unnecessary complication/lead times for a short construction schedule. If tamper resistant screws are still a requirement, please provide details on type of tamper screw (e.g. button hex head, 6-lobe star etc.).

**A8: Provide stainless steel tamper-resistant (proof) screws as noted/specified on sheet E0.01. Provide all required cover plate tamper-resistant screws to ensure design-intent preventions against tampering and unauthorized removal of the corresponding wiring device cover plate. Tamper resistant screws shall be as follows: *Flat-Torx*, or *Button-Torx* and shall match provided device cover plate and be coordinated by the E.C. with the supplier, e.g. single duplex receptacle outlet cover plate typically will require *Flat-Torx tamper-resistant screw*, and raised square box duplex or quad receptacle outlet cover plate may require *Button-Torx tamper-resistant screw* instead.**

Q9: Model number for fixture type G appears to be out of date. Please provide updated model number. Is the manufacturer supposed to be Trans Globe Lighting instead of Teron?


**A9: The Teron fixture information is correct and is not out of date.**

Q10: For fixture type E, please provide door frame type and lens type.

**A10: FA Door Frame 12F**

Q11: For fixture type F, please provide door frame type and lens type.

**A11: FA Door Frame 12F**

Q12: Drawing E3.01 detail #1 shows a 3-button wall switch Wattstopper #LMSW-103. Please confirm this is the symbol  shown on the floor plans. Please confirm the design intent is to program this LMSW-103 as a dimmer and the 3 buttons should be programmed as toggle on/off (1), dimmer raise (2), and dimmer lower (3).

**A12: Confirmed. Refer to Sequence of Operation for additional info.**

Q13: For the following rooms on drawing E2.01, should these be digital controls with 1 zone switched room controller? Or should the controls be non-digital per drawing E3.01 detail #4 with momentary low voltage

switches, momentary power pack, and non-digital occupancy sensor? Please provide basis of design Wattstopper part numbers for the low voltage switch, occupancy sensor, and power pack/room controller depending on the answer.

- a. Coats 208C
- b. Coats 207C
- c. Coats 109C

**A13: 4/E3.01 is the applicable detail - Refer to attached E3.01 for updated detail.**

S

**A14: Lighting controls shall be provided as per drawing: one wall occupancy sensor (2/E3.01) for the sink area and ceiling occupancy sensor with override key switch for the toilet area (5/E3.01) - Refer to attached updated E3.01 drawing with added applicable detail 5/E3.01**

Q15: Drawing states to replace meter and meter board. These are usually supplied and owned by PECO. Can you provide a manu. And model number for what we need to replace and a PECO contact in their Service and Metering Department? The electrical contractor does not connect the meter to the CT's, it is done by PECO.

**A15:** All work and materials/equipment related to the installation of the new meter shall be coordinated with PECO.

Q16: After reviewing photos of the wood trim from the site visit, it appears that the bottom has a cove and the top has a profile like a quarter round. It is very difficult to decipher wood thickness and height dimensions. It may be a three-piece base; quarter round top, flat vertical, cove bottom.

- a. Cost can vary widely depending on dimensions and curvature.
- b. Please provide a section detail sketch for the wood base, with dimensions.

**A16: 3/4" thick flat vertical with a quarter round on top and cove bottom that extends to 2" out from the wall. Total height is 8".**

**CHANGES TO SPECIFICATIONS:** None

**CHANGES TO DRAWINGS:**

Washington: E3.01 Details- Electrical: Changes to details

**ATTACHMENTS:**

E3.01 - Drawing dated February 24, 2022:  
Sapling Synchronized Clock Systems, SAW Series Wi-Fi Round Clock (V2.4) Cut Sheet

**End of Addendum 03**

SEAL:

NAME: GRAZYNA S. PICHTA  
PA. REG. NO. DATE: 09/02/2023

**ARCHITECT**

BLACKNEY HAYES ARCHITECTS  
150 S. Independence Mall West  
Suite 1200  
Philadelphia, PA 19106  
Phone: 215-829-0922  
thil@blackneyhayes.com  
Attn: Troy Hill

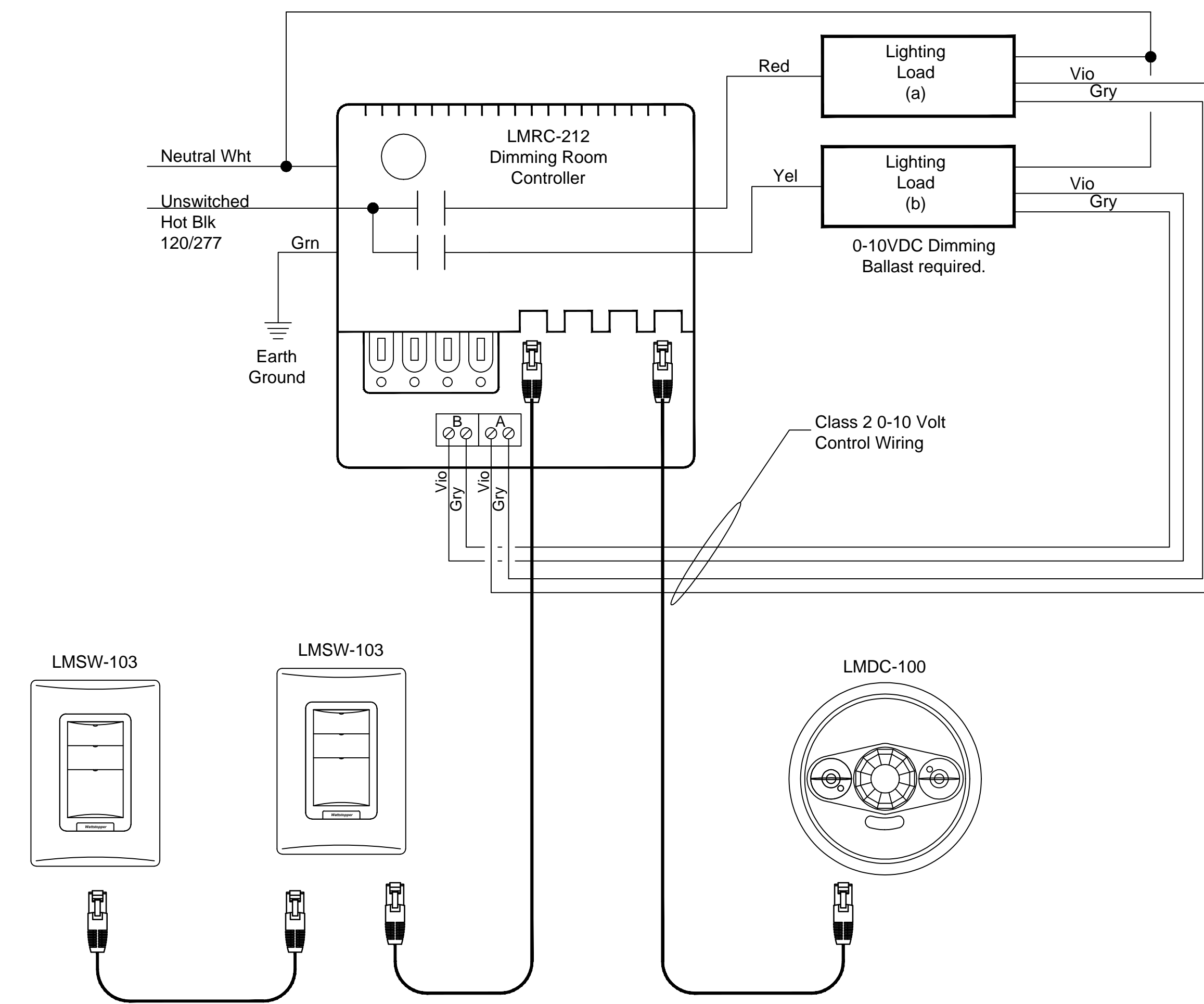
**M/P/FP/LOW VOLT ENGINEER**

SNYDER HOFFMAN ASSOCIATES  
1005 West Lehigh Street  
Bethlehem, PA 18018  
Phone: 610-694-8020  
jmachik@snyderhoffman.com  
Attn: Jeff Machik

**ELECTRICAL ENGINEER**

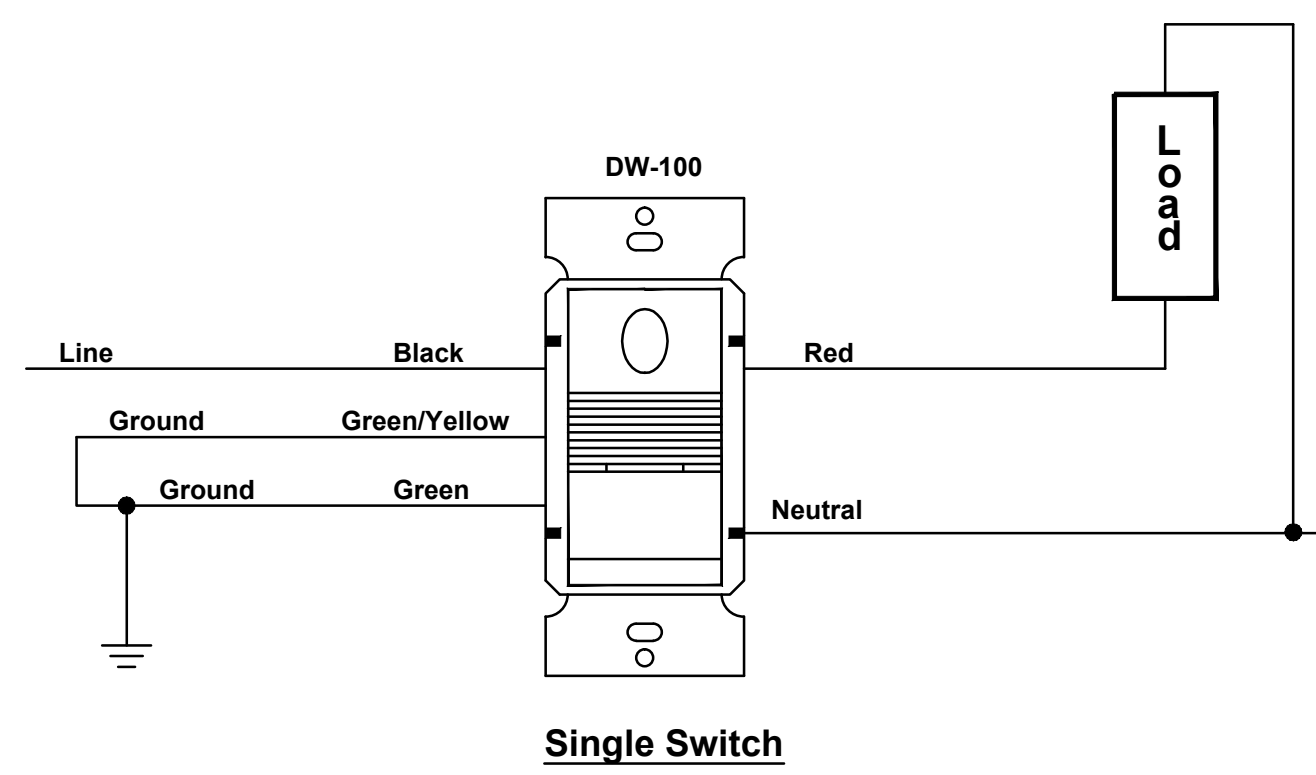
DGW ELECTRICAL ENGINEERING  
232 Cecilia Acres Drive  
Ivynland, PA 18974  
Phone: 215-354-9161  
grozyna@dgwengineering.com  
Attn: Grazyna Pichla

A  
B  
C  
D  
E  
F



**1 LIGHTING CONTROL DETAIL  
TYPICAL CLASSROOM**  
SCALE: NONE

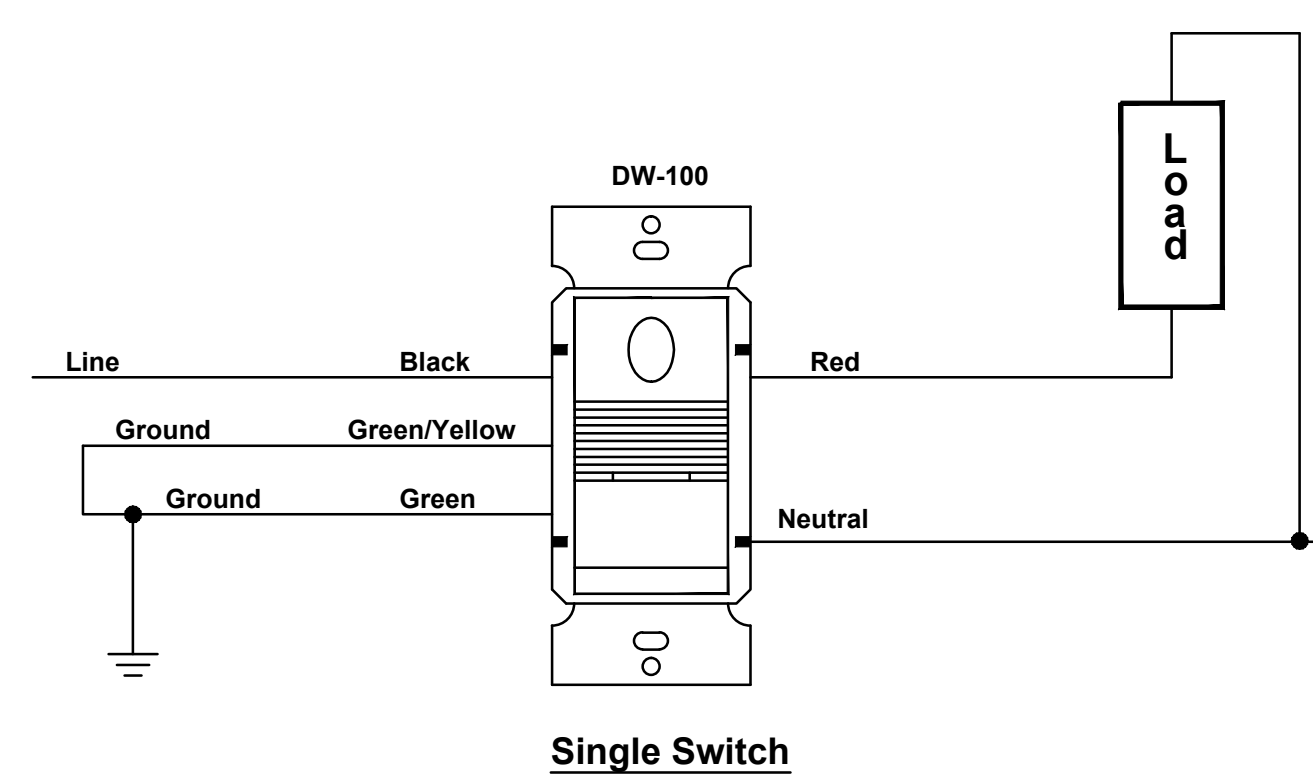
**SEQUENCE OF OPERATION**  
1. LIGHTING AUTO ON TO 50% WHEN OCCUPANCY DETECTED.  
2. LIGHTING IS MANUALLY CONTROLLED - ON/OFF/DIMMING WITH WALL SWITCHES.  
3. LIGHTING WILL AUTO OFF AFTER 20 MINUTES OF OCCUPANTS LEAVING.



**SMALL TOILET ROOMS**

**2 WALL SWITCH OCUPANCY SENSOR**  
SCALE: NONE

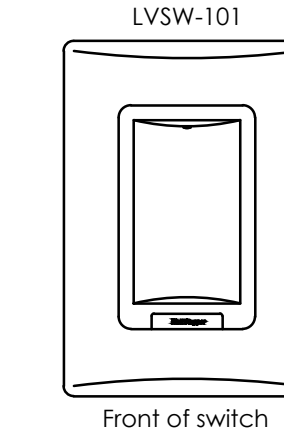
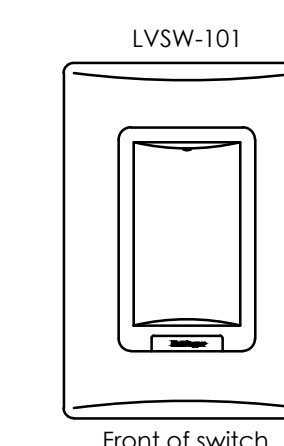
**SEQUENCE OF OPERATION**  
1. LIGHTING WILL AUTO ON 100%.  
2. LIGHTING IS MANUALLY CONTROLLED ON/OFF WITH VACANCY SENSOR SWITCH.  
3. LIGHTING WILL AUTO OFF AFTER 20 MINUTES OF OCCUPANTS LEAVING.



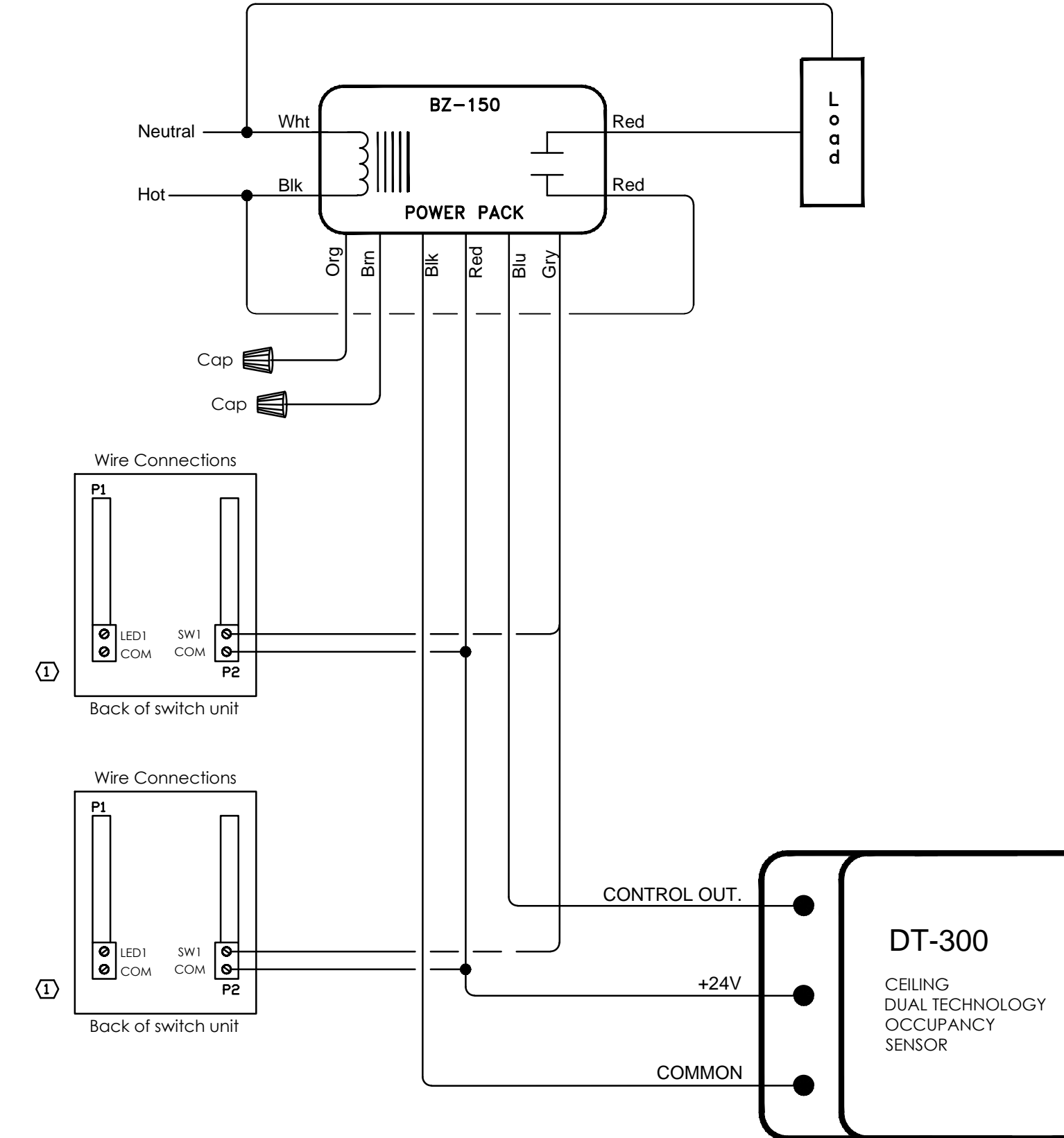
**UTILITY ROOMS**

**3 WALL SWITCH VACANCY SENSOR**  
SCALE: NONE

**SEQUENCE OF OPERATION**  
1. LIGHTING IS MANUALLY CONTROLLED ON/OFF WITH VACANCY SENSOR SWITCH.  
2. LIGHTING WILL AUTO OFF AFTER 20 MINUTES OF OCCUPANTS LEAVING.



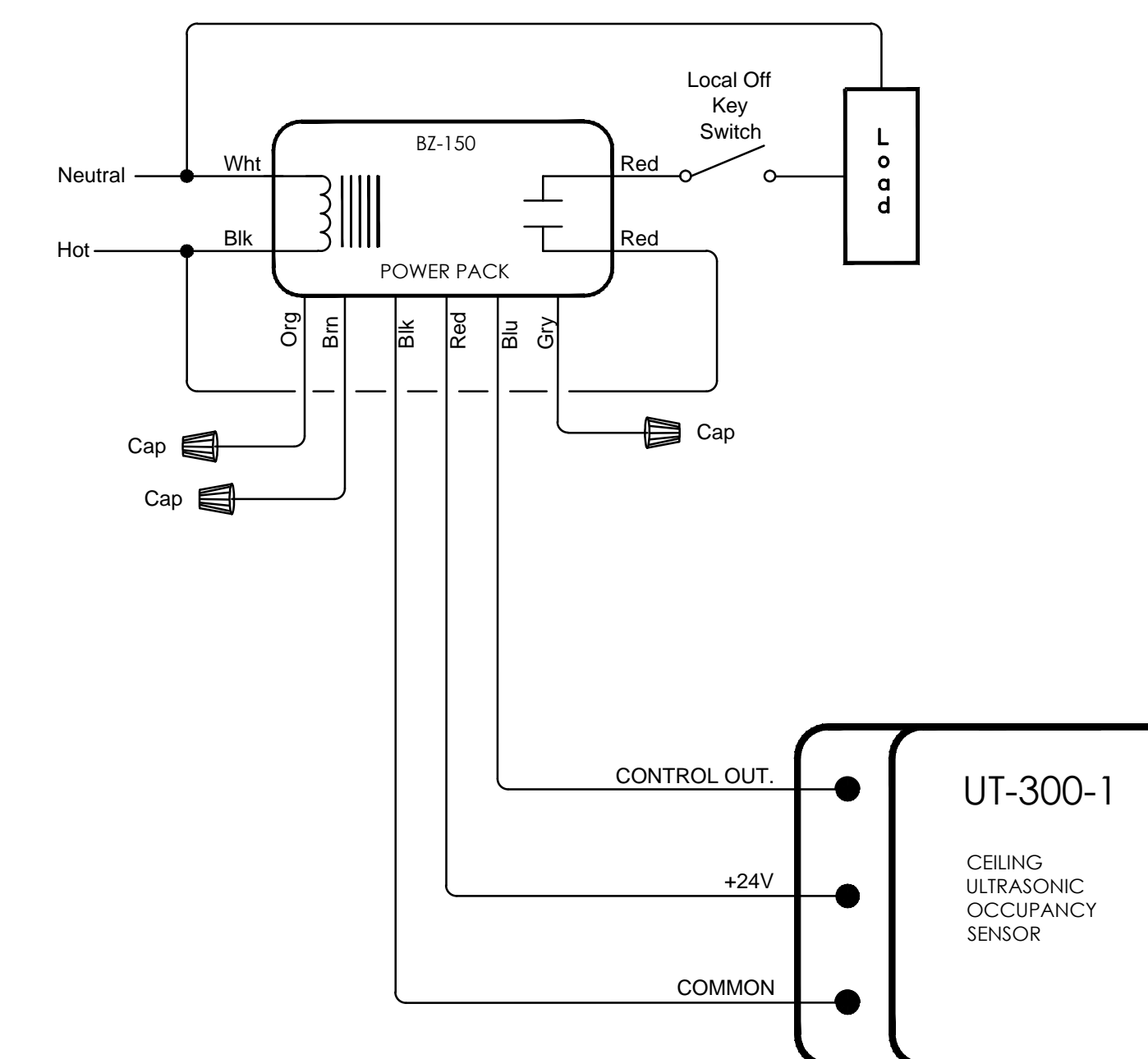
Local Manual On/Off SWITCH (Quantity As Shown)



**UTILITY ROOMS**

**4 TYPICAL LIGHTING CONTROL DETAIL  
VACANCY SENSORS**  
SCALE: NONE

**SEQUENCE OF OPERATION**  
1. MANUAL ON, OVERRIDE OFF WITH SWITCH.  
2. AUTO OFF ALL LIGHTING AFTER 20 MINUTES OF OCCUPANTS LEAVING.



**TOILET ROOMS**

**5 SINGLE OCCUPANCY SENSOR CONTROL DETAIL**  
NOT TO SCALE

**SEQUENCE OF OPERATION**  
1. LIGHTING AUTO ON TO 100% WHEN OCCUPANCY DETECTED.  
2. MANUAL OFF WITH SWITCH.  
3. AUTO OFF ALL LIGHTING AFTER 20 MINUTES OF OCCUPANTS LEAVING.

BASIS OF DESIGN - WATT STOPPER  
ACCEPTABLE EQUAL SUBSTITUTIONS: HUBBELL; LEVITON

**BID SUBMISSION**  
01/21/2022

10		
9		
8		
7		
6	2.24.22	ADDENDUM 3
5	1.21.22	BID SUBMISSION
4	2.03.21	BID SET
3	1.15.21	PRICING SET
2	9.24.21	DD SET
1	9.10.21	PROGRESS SET
NO. DATE		REVISION

SCHOOL & LOCATION  
**MARTHA WASHINGTON  
ELEMENTARY SCHOOL**  
766 N. 44TH ST.  
PHILADELPHIA, PA 19104

PROJECT TITLE  
**Washington Classroom  
Modifications**

DRAWING TITLE

**DETAILS - ELECTRICAL**

DRAWING SCALE <b>As Indicated</b>	
LOCATION NO. <b>21-100</b>	FILE NO. <b>21-100</b>
DRAWN BY <b>DGW</b>	CHECKED BY <b>GSP</b>

SDP Contract No.:  
General Contract: 2022-003-G  
Electrical Contract: 2022-003-E

DRAWING NO.  
**E3.01**

## SAW Series Wi-Fi Round Clock (V2.4)

### Features:

- Available in 9" (22.8cm), 12" (30.4 cm), and 16"(40.6 cm) dial sizes
- Offered in a Standard or SlimLine ABS case
  - Optional Cherry Wood finish or Brushed Aluminium finish
- Multiple power options
  - Offered in 24VAC/VDC, 110VAC, 230VAC, & battery-powered models
- Provided with mounting hardware for easy installation
- Hour, minute, and second hands
- Quick correction for time change (max. 5 minutes)
- Internal Antenna
- Microprocessor based movement
- Side molded, polycarbonate crystal
- FCC Compliant per FCC part 15 Section 15

### Highlights:

- Built-in web interface - each clock has a built in web interface allowing the user to set, control, and monitor the Wi-Fi clock
  - Settings include: Network settings, NTP server selection, UTC/GMT offset selection (-5 default), automatic Daylight Saving Time adjustments (US default), and much more!
- Receives time data from one of five pre-programmed third party NTP servers (user changeable) for added reliability and redundancy. Alternatively, it can be set to receive the time data from an in-house NTP Server or from any Sapling Master Clock model.
- Built-in self-diagnostics for:
  - NTP Synchronization Timeouts
  - Power resets
  - Hand position errors and corrections
- Direct-connect mode allows users to configure the clock wirelessly before connecting it to a Wireless Network.
- Adjustable synchronization rate to reduce electricity costs.
  - Battery: 12 hours default. 2/4/8/12/24 hours adjustable.
  - Locally powered: 5 minutes default. 0.25/0.5/1/4/12/24 hours adjustable.
- Custom Color Cases available (minimum quantity 25)
- Designed and Produced by Sapling Inc. in Pennsylvania, United States of America



Specification sheets may change without prior notice

## SAW Series Wi-Fi Round Clock (V2.4)

### Specifications:

#### Case Material:

Acrylonitrile Butadiene Styrene (ABS)

Cherry wood finish or brushed aluminum finish for the SlimLine ABS case are also available

#### Case Color:

Standard black finish (custom colors available)

#### Dial Face:

12 or 24 (military) hour standard

Specialty dials available

#### Dial Material:

Polyvinyl Chloride (PVC)

#### Crystal Material:

Shatter-proof, side-molded, transparent polycarbonate

#### Voltage Input:

Two 1.5V "D" Cell Alkaline Batteries (Battery model)

7 - 28 VDC/VAC 50/60 Hz (24V model)

85 - 130 VAC 50/60 Hz (110V model)

180 - 260 VAC 50/60 Hz (230V model)

#### Average Current Consumption:

Battery - 5 - 7 years (affected by frequency of updates)

40 mA @ 24VDC/VAC

10 mA @ 110VAC Maximum

5 mA @ 230VAC Maximum

#### Compatible Wi-Fi Communication Protocols:

802.11 b/g/n (2.4GHz only)

#### Compatible Security Protocols:

WEP, WPA/WPA2, PEAPv0 (MSCHAPv2), EAP-FAST, LEAP

#### Hand tolerance:

Minute hand: +/- 1/4 minute

Second hand: +/- 1/2 second

#### Temperature range:

Operating: 14°F - 122°F (-10°C - 50°C)

Shelf: -4°F - 131°F (-20°C - 55°C)

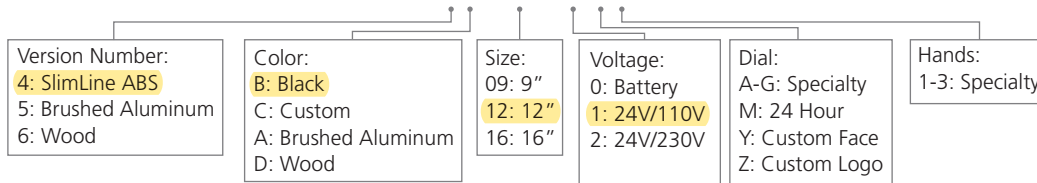
#### Compliance:

UL, cUL listed. FCC part 15 Section 15

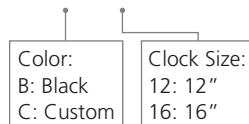


### Ordering Information:

SAW Series Wi-Fi Round Clock: SAW-XXS-XXR-X-XX



Double Mount Housing: SAH-1XD-XXR-0



**Note:** Purchasing double mounted round analog clocks will require two clocks using the clock part number and one double mount housing using the part number above.

\*Note: SlimLine and Aluminum clocks use the SlimLine Adapter.

Examples:

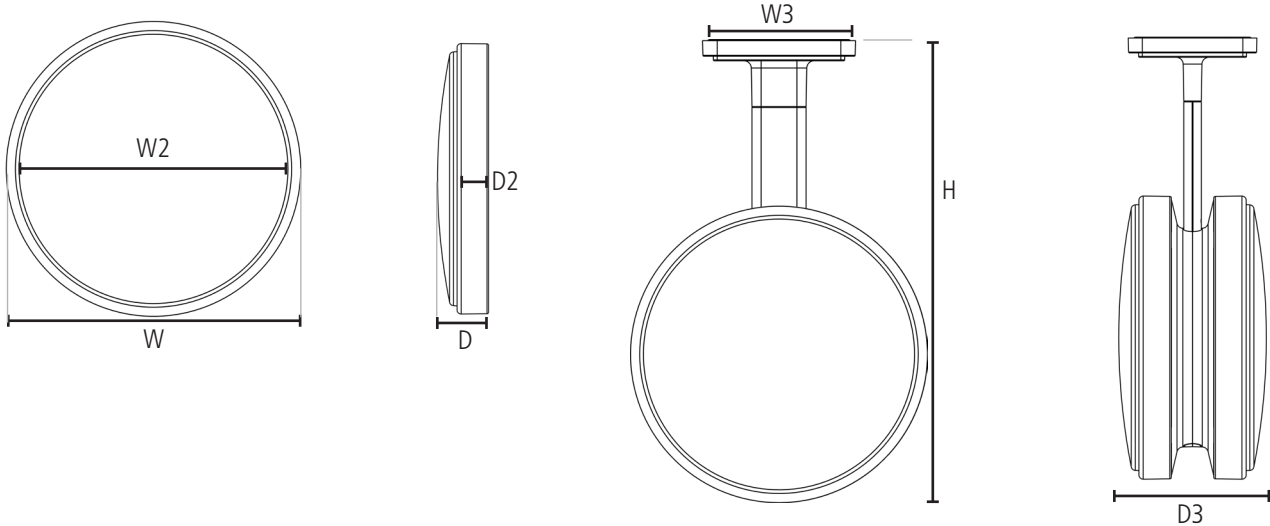
SAW-5AS-09R-0 Sapling Analog, Wi-Fi SlimLine, 9" Round, Battery-Operated, Surface Wall Mount, Brushed Aluminum Case

SAW-6DS-16R-14 Sapling Analog, Wi-Fi SlimLine, 16" Round, 24/110 VAC, Surface Wall Mount, Solid Cherry Wood Frame

Specification sheets may change without prior notice

# SAW Series Wi-Fi Round Clock (V2.4)

## Sapling Round Analog Clock Dimensions



### SLIMLINE ABS

Clock Size:	9" SlimLine	12" SlimLine	16" SlimLine
W	9.8" (24.8cm)	12.9" (32.7cm)	16.7" (42.3cm)
W2	9.5" (24.2cm)	12.6" (32.0cm)	16.3" (41.5cm)
D	2.4" (6.2cm)	2.4" (6.2cm)	2.5" (6.4cm)
D2	1.7" (4.2cm)	1.7" (4.3cm)	1.7" (4.4cm)
Shipping Weight:	2 lbs (0.9 kg)	2 lbs (0.9 kg)	4 lbs (1.8 kg)
Double/Dual Mount Dimensions:	Not Applicable	W3 = 6.6" (16.7cm) D3 = 6.4" (16.2cm)	W3 = 6.6" (16.7cm) D3 = 6.4" (16.3cm)
Adjustable Pole Height:	Not Applicable	H = 19.7" (50.2cm) = 18.1" (46.1cm) = 16.5" (41.9cm)	H = 21.7" (55.3cm) = 20.1" (51.2cm) = 18.5" (47.0cm)

### ALUMINUM

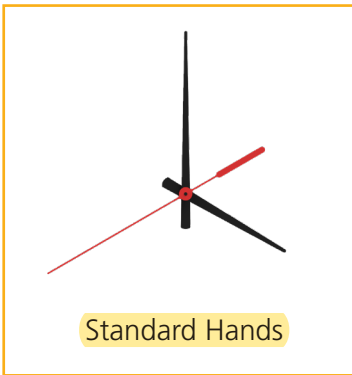
### WOODEN

Clock Size:	9" Aluminum	12" Aluminum	16" Aluminum	9" Wood	12" Wood	16" Wood
W	10.7" (27.1cm)	13.8" (35.0cm)	17.8" (45.1cm)	11.6" (29.5cm)	13.3" (33.8cm)	19.6" (49.9cm)
W2	9.5" (24.2cm)	12.6" (32.0cm)	16.3" (41.5cm)	9.5" (24.2cm)	12.6" (32.0cm)	16.5" (41.5cm)
D	2.4" (6.2cm)	2.4" (6.2cm)	2.4" (6.4cm)	D* = 2.4" (6.2cm)	D* = 2.4" (6.2cm)	D* = 2.4" (6.4cm)
D2	1.7" (4.2cm)	1.7" (4.4cm)	1.7" (4.4cm)	D2* = 2.7" (6.8cm)	D2* = 2.7" (6.8cm)	D2* = 2.7" (6.8cm)
Shipping Weight:	2 lbs (0.9kg)	3 lbs (1.4 kg)	4 lbs (1.8 kg)	3 lbs (kg)	4 lbs (1.8 kg)	6 lbs (2.7 kg)
Double/Dual Mount Dimensions:	Not Applicable	W3 = 6.6" (16.7cm) D3 = 6.4" (16.2cm)	W3 = 6.6" (16.7cm) D3 = 6.4" (16.3cm)	Not Applicable	Not Applicable	Not Applicable
Adjustable Pole Height:	Not Applicable	H = 20.2" (51.5cm) = 18.6" (47.3cm) = 17.0" (43.2cm)	H = 22.3" (56.6cm) = 20.6" (52.4cm) = 19.0" (48.2cm)	Not Applicable	Not Applicable	Not Applicable

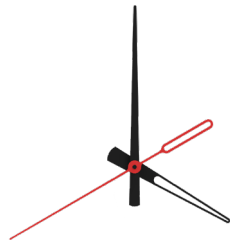
\*NOTE: For wood clocks, the rim (D2) protrudes further from the wall than the crystal (D).

SAW Series Wi-Fi Round Clock (V2.4)

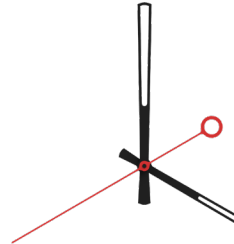
Hand & Dial Options



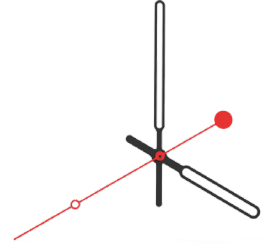
Standard Hands



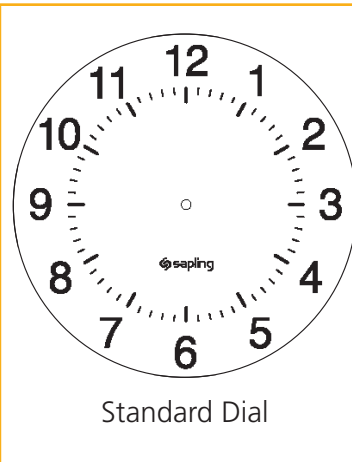
Specialty Hands 1



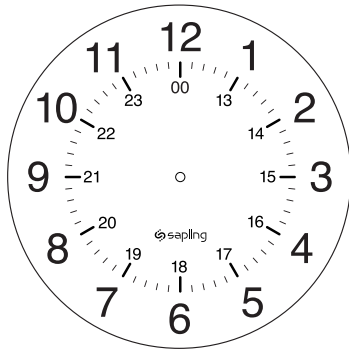
Specialty Hands 2



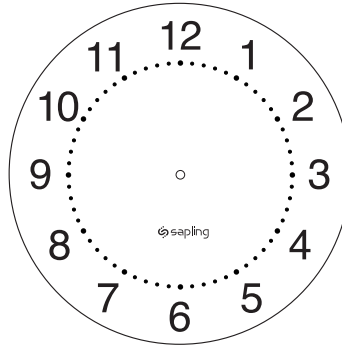
Specialty Hands 3



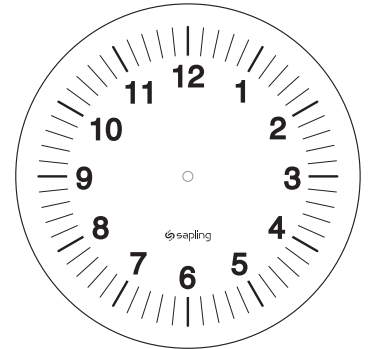
Standard Dial



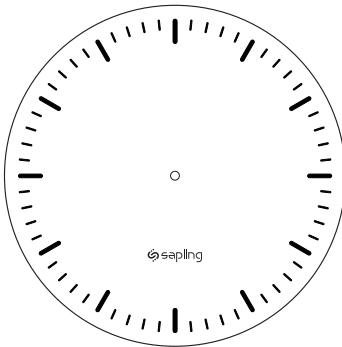
Dial M  
(Military 24 Hours)



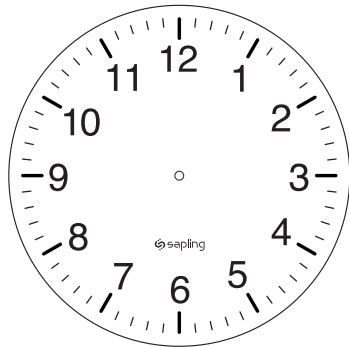
Dial A



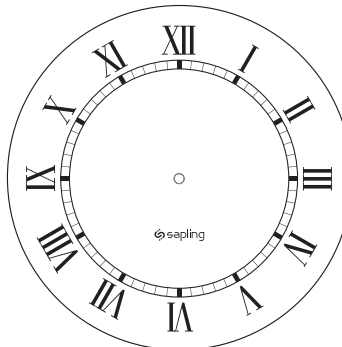
Dial B



Dial C



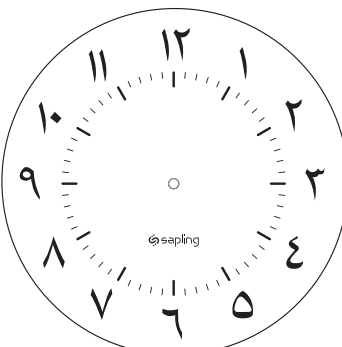
Dial D



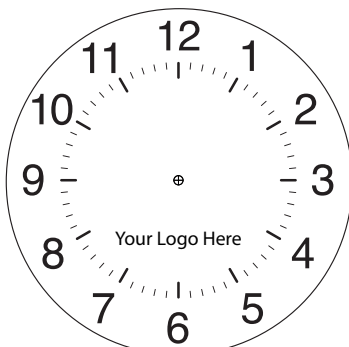
Dial E



Dial F



Dial G



Dial Z

Specialty Hands 1-3 & Specialty Dials A-Z are offered at an additional cost.

For more information please contact your Sapling Representative.



## SAW Series Wi-Fi Round Clock (V2.4)

## Clock Case Options



Standard SlimLine  
ABS Case



Brushed Aluminum Finish



Solid Wood Case Cherry Finish

