

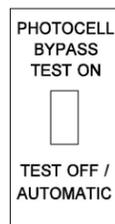
**KEY**

- ① METER BASE PER SERVING UTILITY REQUIREMENTS ~ SEE STANDARD PLAN J-10.30.
- ② MAIN BREAKER (SPST - SIZE PER BREAKER SCHEDULE)
- ③ PHOTOELECTRIC CONTROL BREAKER (SPST ~ 15 AMP ~ 120/240 VOLT)
- ④ TEST SWITCH (SPDT ~ SNAP ACTION ~ POSITIVE CLOSE ~ 15 AMP ~ 120/277 VOLT ~ "T" RATED)
- ⑤ PHOTOELECTRIC CONTROL UNIT ~ SEE **STANDARD SPECIFICATION 9-29.11(2)**
- ⑥ BRANCH BREAKER ~ SEE BREAKER SCHEDULE (SPST ~ 120/240 VOLT)
- ⑦ SPARE BRANCH BREAKER (SPST ~ 20 AMP ~ 120/240 VOLT)
- ⑧ CONTACTOR ~ SEE BREAKER SCHEDULE
- ⑨ ISOLATED NEUTRAL BUSS ~ 8 LUG COPPER
- ⑩ DEAD FRONT ~ INSTALL SCREWS WITH WASHERS AT EACH CORNER ~ DEAD FRONT PANEL BOLTS SHALL NOT EXTEND INTO VERTICAL LIMITS OF THE BREAKER ARRAY(S)
- ⑪ CABINET MAIN BONDING JUMPER ASSEMBLY ~ BUSS SHALL BE 8 LUG TINNED COPPER ~ SEE **STANDARD PLAN J-10.20** FOR CABINET MAIN BONDING JUMPER ASSEMBLY DETAILS
- ⑫ METAL WIRING DIAGRAM HOLDER
- ⑬ 1/4" (IN) DIAMETER DRAIN HOLE ~ DRILL BEFORE GALVANIZING
- ⑭ MOUNTING HOLE ~ SEE **STANDARD PLAN J-10.30** FOR MOUNTING DETAILS
- ⑮ 4-CIRCUIT PANEL BOARD ~ MINIMUM SIZE WITH BACK-FED MAIN BREAKER
- ⑯ LABEL CABINET WITH BUSSWORK RATING
- ⑰ ARC FLASH AND SHOCK HAZARD LABEL ~ SEE DETAIL
- ⑱ CONNECTION TO GROUND ELECTRODE ~ SEE **STANDARD PLAN J-60.05**

WARNING			
Arc Flash and Shock Hazard Appropriate PPE Required			
ARC FLASH PROTECTION		SHOCK PROTECTION	
Arc Flash Boundary (in)	00 in	Shock Hazard When Cover Removed	000 VAC
Incident Energy at 18 inches (cal/cm <sup>2</sup> )	0.00	Limited Approach	00 in
Assessment Date:	00-00-0000	Restricted Approach	00 in
By:		Glove Class	00
WSDOT Approval Inspector:		Date:	

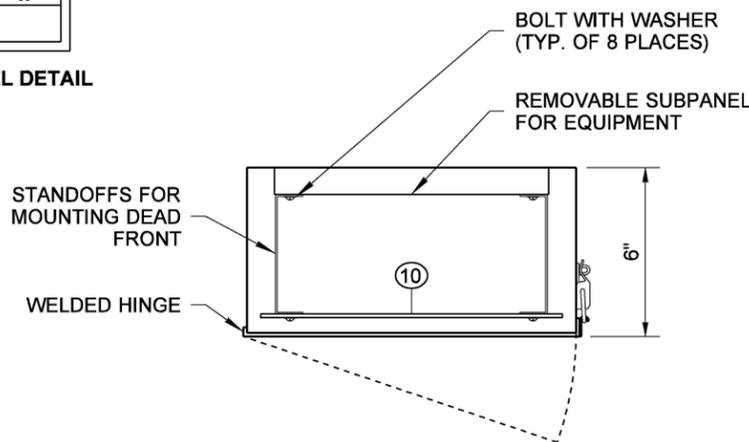
**ARC FLASH AND SHOCK HAZARD LABEL DETAIL**

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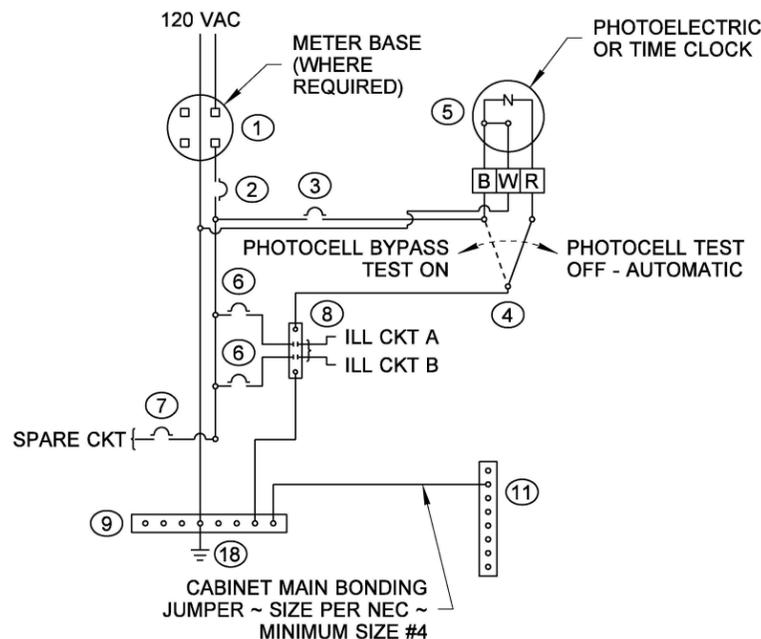
**TEST SWITCH LABEL DETAIL**

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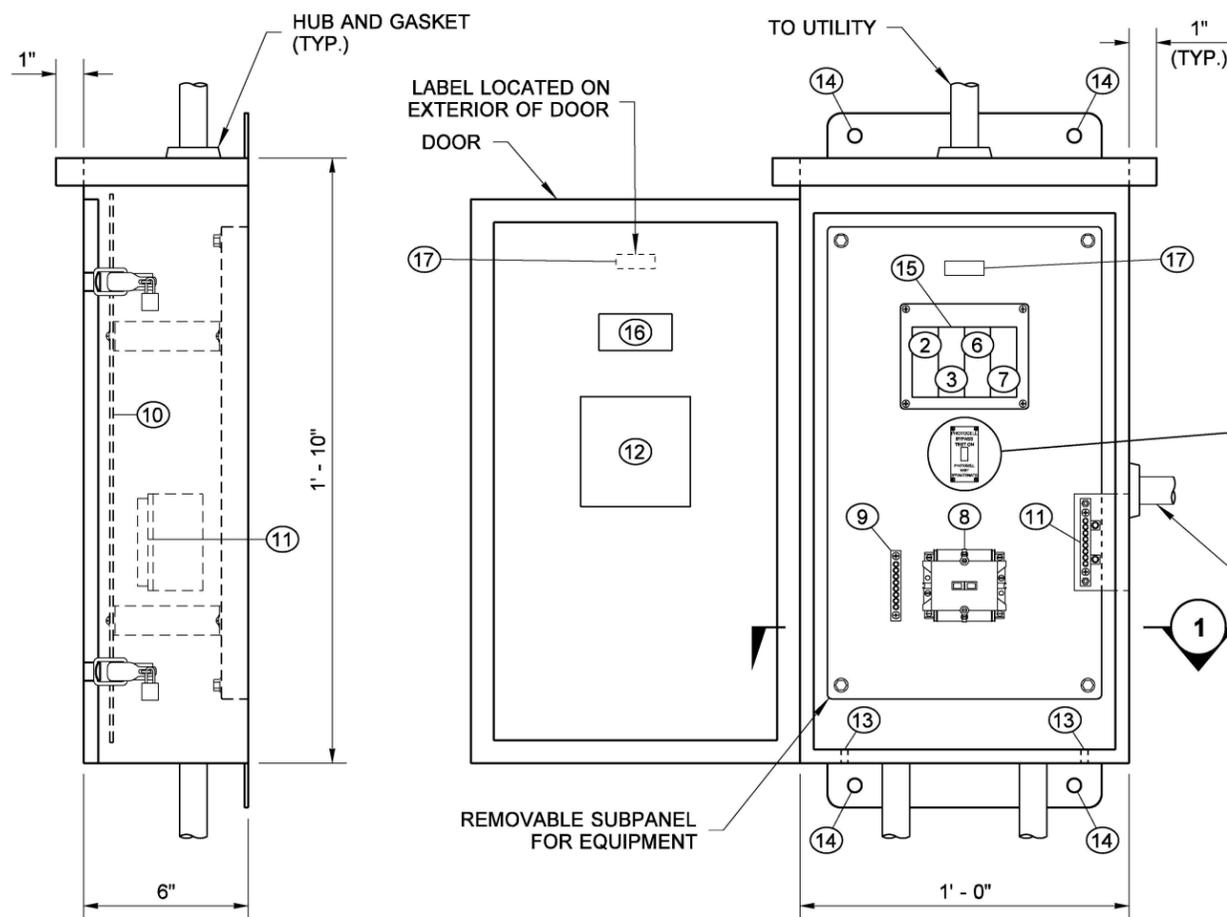


**SECTION 1**

①



**TYPE A WIRING DIAGRAM ~ 120 VOLT**



**SIDE VIEW**

**ELEVATION VIEW**

**TYPE A SERVICE CABINET  
(60 AMP TYPE 120 V SERVICE CABINET)**

**NOTES**

1. See **Standard Specification Section 9-29.24** (Service Cabinets).
2. Cabinet shall be rated NEMA 3R.
3. Dimensions shown are minimum and shall be adjusted to accommodate the various sizes of equipment installed. A 1% tolerance is allowed for all dimensions.
4. Door shall be pad-lockable and gasketed.
5. Hinges shall have stainless steel or brass pins. See **Standard Plan J-10.20** for door hinge details.
6. When using alternate door hinge, remove hinge pin prior to welding the hinge to the cabinet and prior to hot-dip galvanizing. After galvanizing, replace pin with a brass pin or solder in place. See **Standard Plan J-10.20** for alternate door hinge details.
7. Equipment identified by Key Numbers 2, 3, 4, 6, 7, and 8 shall have an appropriately engraved phenolic name plate attached with screws or rivets. The name plate for Key Number 4 shall read as follows: "PHOTOCELL BYPASS TEST ON" AND "PHOTOCELL TEST OFF - AUTOMATIC." See Test Switch Label Detail.
8. All busswork shall be high grade copper and shall have a minimum rating of 250 amps. All breakers shall bolt on to the busswork. Jumpering of breakers shall not be allowed. Busswork shall accommodate all future equipment as shown in the Breaker Schedule.
9. All internal wire runs shall be identified with "TO - FROM" coded tags labeled with the code letters and/or numbers shown on the Schedules. Approved PVC or polyolefin wire marking sleeves shall be used.
10. See Contract for Breaker and Contactor Schedule.
11. Buss bars shall be sized to accommodate up to #4 AWG wires.
12. See **Standard Plan J-10.30** for pole installation details.

DRAWN BY: FERN LIDDELL



Jackson, Flint  
Aug 24 2020 9:39 AM  
**SERVICE CABINET TYPE A  
(0 - 60 AMP TYPE 120 VOLT  
SINGLE PHASE)**  
**STANDARD PLAN J-10.16-01**

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
**Roark, Steve** Digitally signed by Roark, Steve  
Date: 2020.09.16 10:14:58 -07'00'  
STATE DESIGN ENGINEER  
Washington State Department of Transportation