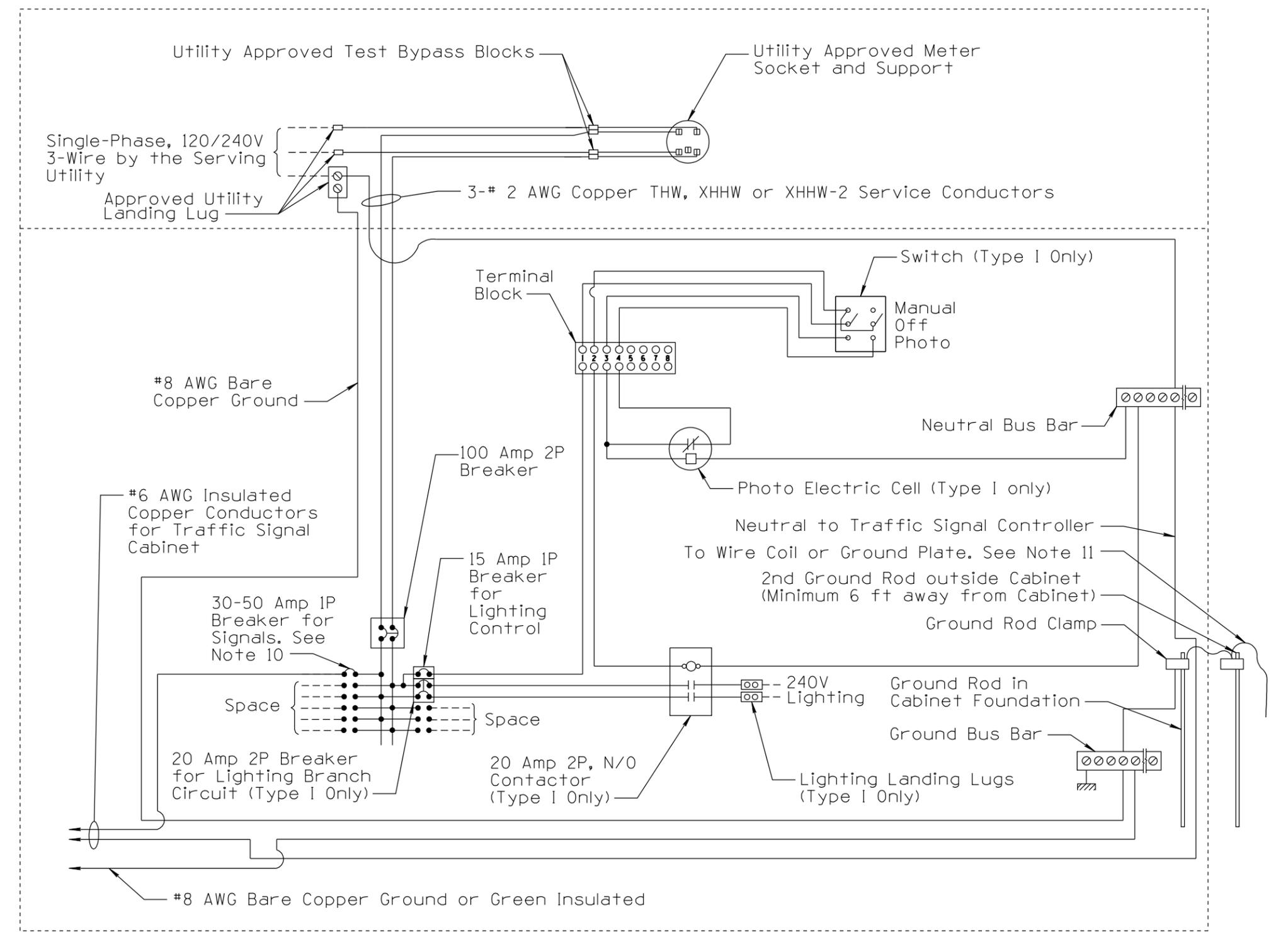


NO	DESCRIPTION OF REVISIONS	DATE	MADE BY
1	2010 EDITION	03/10	C. COLE
2	REVISED NOTES & GRAPHICS	12/12	L. LOPEZ

NOTES:

- All service and load side conductors, breakers and other component shall be the minimum indicated. These ratings are based on typical applications; actual loads may require higher ratings, including the lighting contactor.
- As shown, there are two types of cabinets. The Type I includes roadway lighting control circuitry, components including a photo electric cell and the Type II does not include any of the lighting control circuitry. The Type II should only be used when the roadway lighting control is within the traffic signal cabinet or it is not needed (no lighting), now or in the future.
- All wiring and components shall be rated for 600 volt operation except as noted. The lighting control and photoelectric cell shall be UL or equivalent independent test lab listed and rated for 120 VAC operations.
- The main hot bus bar shall have a minimum of 12 positions.
- All live electrical components shall be protected by removable dead front panels.
- Conductors within the cabinet shall be continuous without splice. The copper ground shall be routed continuous from the service neutral bus, through the cabinet load side bus.
- All circuit breakers shall be permanently labeled per their circuit assignments shown on the project plans.
- The cabinet and all components shall meet all of the applicable EUSERC and serving electrical utility requirements. The contractor shall verify all such requirements prior to ordering and installing equipment.
- If service exceeds 100amp then see NEC Tables 250.66 and 310.15(B)(6) for conductor requirements.
- The main breaker for the signal circuit shall always be higher than the breaker in the traffic signal control cabinet. The contractor shall field verify this.
- A 25 ft coil of #4 AWG bare copper or 14" square copper ground plate shall be installed before the concrete is pored and connected to the clamp of the grounding rod. The ground or coil shall be covered with 6" of fill. Install two 5/8" Dia x 10 ft copper clad ground rods with approved clamp. The first ground rod is to be in the foundation, with the second rod at least 6 ft away on the outside. Add additional ground rods if the resistance of the grounding rods is not less than 25 ohms.



TYPE I WITH LIGHTING CONTROL - TYPE II WITHOUT LIGHTING CONTROL

- All ground rods shall have at least 8 ft of their length in direct contact with the soil. If this is not possible, then consult with NEC 250.53 - 250.56 for approved solutions. All ground clamps shall be suitable for direct burial. The use of exothermic weld is a suitable alternative to a clamp.

NOT TO SCALE

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS	REVISION 12/12
SIGNATURE		DRAWING NO. T.S. 3-5
APPROVED FOR DISTRIBUTION	ON FILE	METER PEDESTAL CABINET
		SHEET NO. 2 OF 2