

REFERENCE USE ONLY

USE : Requirements for installation of plug-in electric vehicle (PEV) car charging station sub-meter socket.

Note: Special installation no longer approved for new construction. Standard is kept for reference use only.

STANDARD ORIGINATED	PREVIOUS STANDARD REVISION	PREVIOUS STANDARD NUMBERS
04-12	04-01-12	-

REVISION SUMMARY: Convert to current format. General revision. Noted standard is for informational use only.

REFERENCE(S): (All references are latest revision; unless noted)

National Standard(s)

- Association of Edison Illuminating Companies (AEIC®)
- ANSI C2: National Electrical Safety Code® (NESC®)
- ANSI C12.7: Requirements for Watthour Meter Sockets
- Edison Electric Institute (EEI)
- Indiana Electrical Code / National Electrical Code® (IEC/NEC®)
- National Electrical Manufacturers Association (NEMA)
- Underwriter Laboratories® (UL®) 414: Meter Sockets

NIPSCO Standard(s)

- Tariff Rider 685 (Valid 02/01/12 to 01/31/17): Plug- in Electric Vehicle Off-Peak Charging Rider (Pilot Program)
- Electric Rules Standard ER 13-230: Meters - Location
- Electric Rules Standard ER 19-900: Standards of Work

SPECIFICATIONS:

1. METER SOCKETS:

- Shall meet the following specifications, unless otherwise stated below.
- Shall be designed for use with standard detachable-type watthour meters.
- Shall meet requirements of AEIC, EEI, NEMA standards for watthour meter sockets.
- Shall have swing-style latch accepting padlock or wire-style seal.
- Shall be made of aluminum alloy or galvanized steel.
- Shall be ringless type.
- Shall be UL listed.
- Shall be provided with concentric knockouts on back, sides, and bottom.
- Shall include by-passes shall be of manual, horn, or lever type, arranged such that the meter socket cannot be sealed with the by-pass on.
- Shall be provided with a grounding connector for a #6 conductor.
- Shall be plainly marked with manufacturer name, catalog number, and electrical ratings
- Shall be rated for 100 amperes.
- Shall include bonding bushings and jumpers used to maintain electrical continuity to service equipment enclosures when the entire concentric knockout is not removed.

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2. INSTALLATION:

- 2.1. The sub-meter socket shall be installed as close as possible to the existing service entrance meter socket (while maintaining specified clearances per NIPSCO ER 13-230) and shall be installed five feet from top of meter opening.
- 2.2. Properly sized 240-volt wiring and circuit breaker shall be installed for PEV car charging station.
- 2.3. PEV car charging station shall be connected as a dedicated feed in such manner that customers shall not have other loads connected to this feed.
- 2.4. Sub-meter socket shall be labeled "SUB-METER FOR CAR CHARGING STATION". (See **Section 3**)
- 2.5. All PEV car charging station installations shall comply with all applicable codes and standards, including but not limited to codes listed in the reference section of this standard.
- 2.6. PEV car charging station sub-meter installations must be approved by an authorized municipal, county, or other governmental inspector, where such inspection procedures are established, and by a final inspection by a NIPSCO representative.
- 2.7. PEV car charging station and sub-meter socket installation is the sole ownership and responsibility of the customer. NIPSCO will provide watthour meter for proper billing purposes.

3. PEV SUB-METER SOCKET INSTALLATION:

Typical PEV sub-meter socket installation:

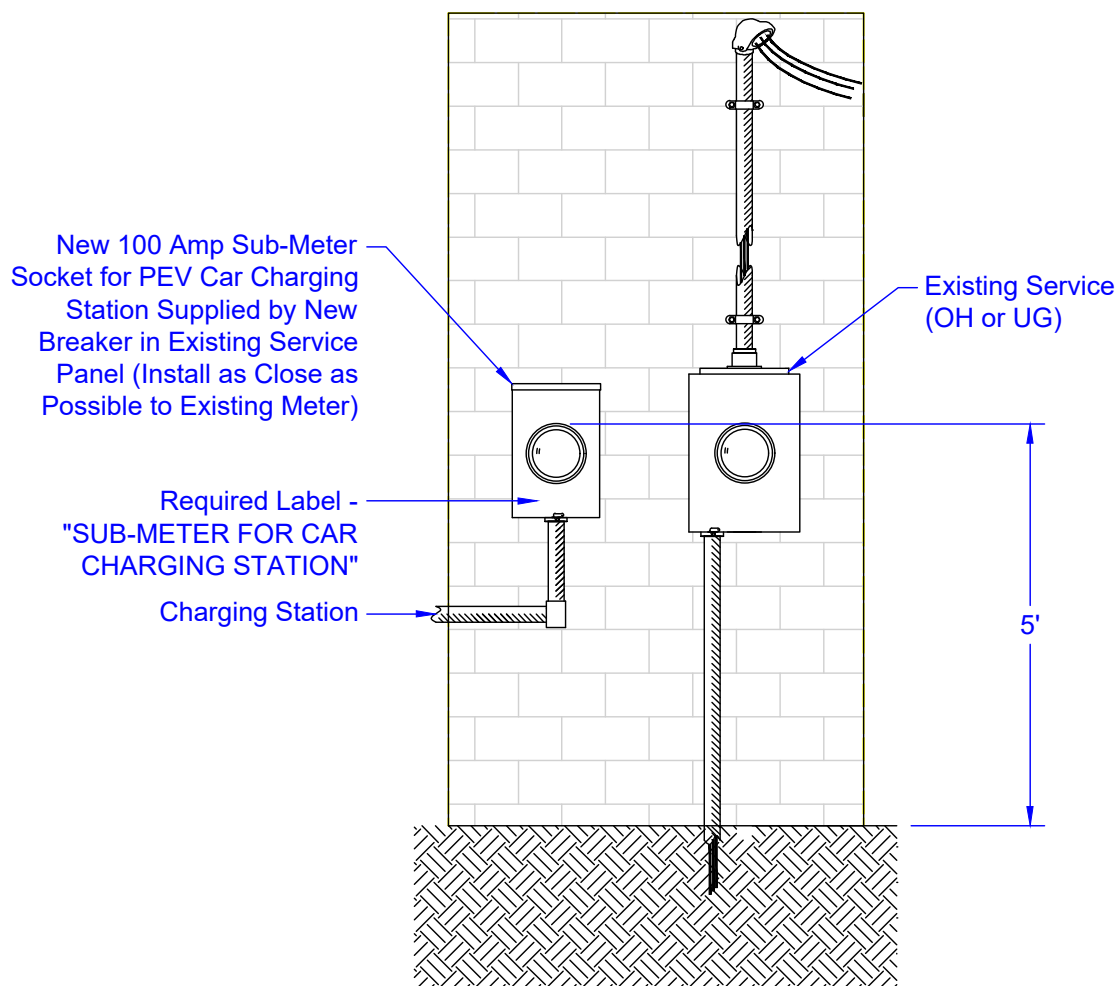


Figure 3

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4. CUSTOMER SERVICE PANEL DETAIL:

Typical customer service panel new wiring circuit for PEV car charging station:

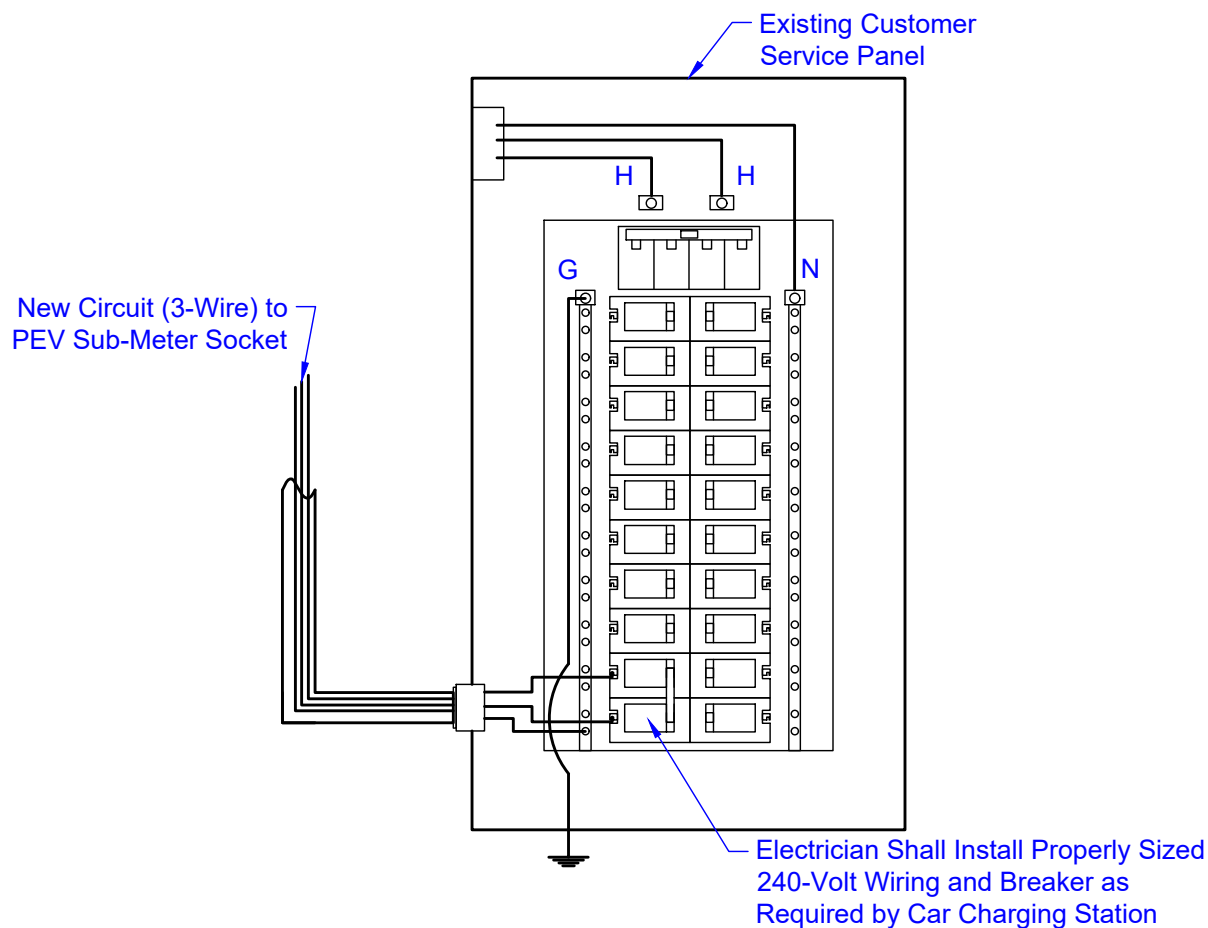


Figure 4

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5. PEV SUB-METER SOCKET DETAIL:

PEV sub-meter socket wiring detail:

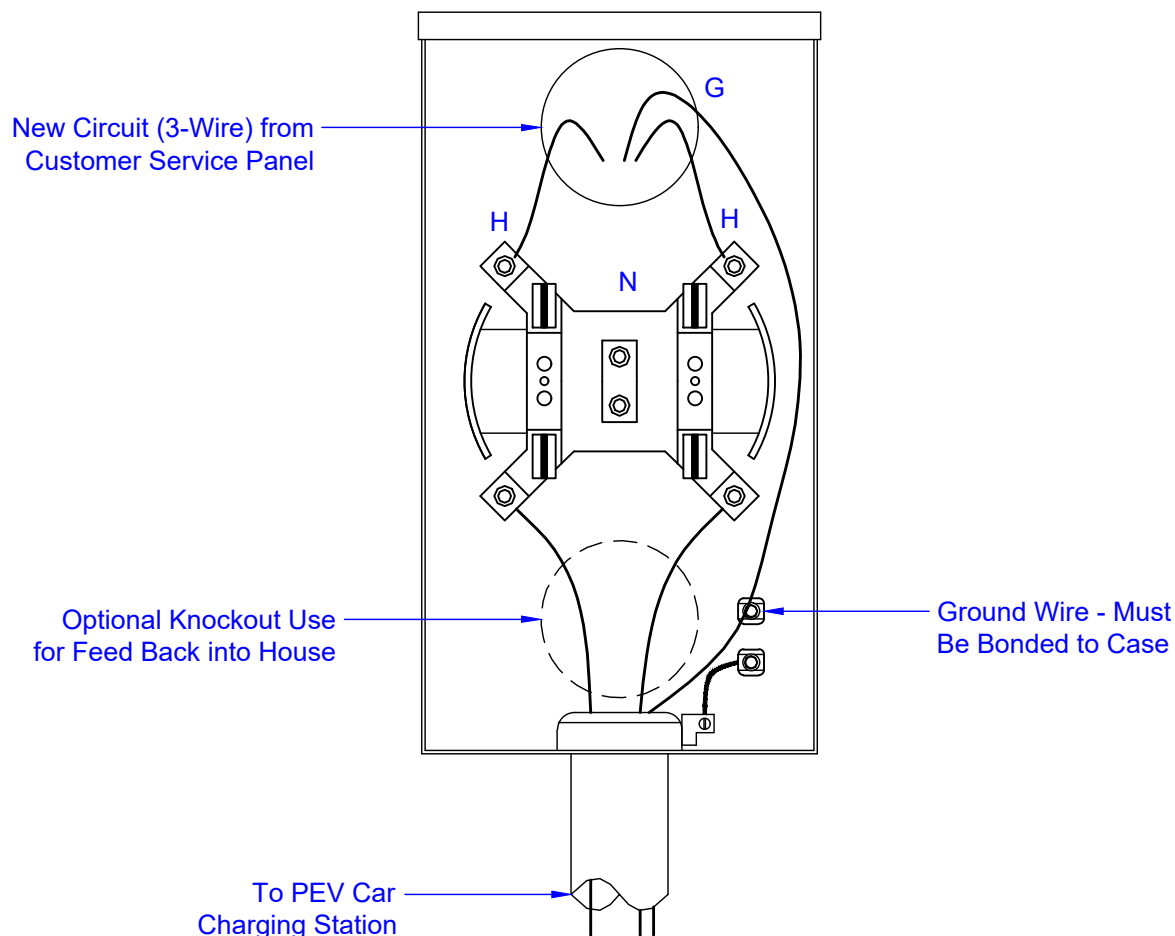


Figure 5