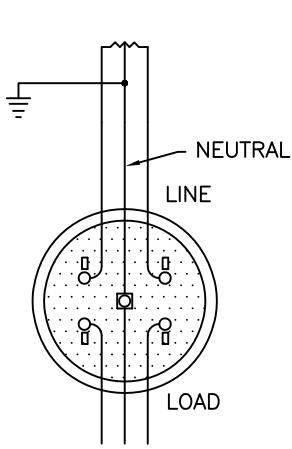
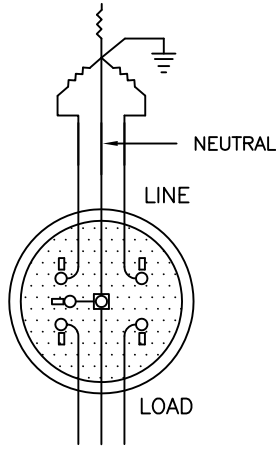


**SELF CONTAINED METER SOCKETS**



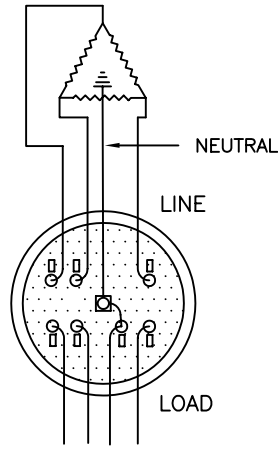
120/240V 1 $\phi$  3-WIRE  
4-JAW SOCKET

RESID SERVICES  $\leq$  400 AMPS  
(CLASS 320 METERS)  
COM SERVICES  $\leq$  200 AMPS



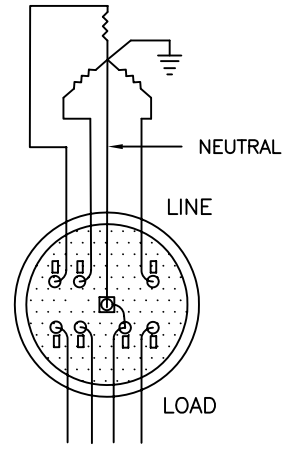
120/208Y V 1 $\phi$  3-WIRE  
5-JAW SOCKET

SERVICES  $\leq$  200 AMPS



120/240V 3 $\phi$  4-WIRE  
7-JAW SOCKET

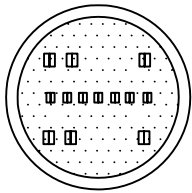
(REFERENCE ONLY,  
NOT AVAILABLE FOR  
UPGRADES OR  
NEW APPLICATIONS)



120/208Y V 3 $\phi$  4-WIRE  
277/480Y V 3 $\phi$  4-WIRE  
7-JAW SOCKET

SERVICES  $\leq$  200 AMPS

**TRANSFORMER RATED METER SOCKETS**



120/240 V 1 $\phi$  3-WIRE: COM SERVICES > 200 AMPS  
120/208Y V 3 $\phi$  4-WIRE: SERVICES > 200 AMPS  
277/480Y V 3 $\phi$  4-WIRE: SERVICES > 200 AMPS  
13-JAW SOCKET

**TEST BYPASS SWITCH REQUIREMENTS**

SERVICE TYPE/SIZE	TEST BYPASS SWITCH:
<u>TEMPORARY POWER</u>	
3-PHASE	REQUIRED
1-PHASE	NOT REQUIRED
<u>PERMANENT POWER</u>	
COMMERCIAL	REQUIRED FOR ALL
RESIDENTIAL $\leq$ 200 AMPS	NOT ALLOWED
>200A & $\leq$ 400A	ALLOWED, NOT REQUIRED
>400 AMPS	REQUIRED
3-PHASE	REQUIRED

**NOTES:**

- TEST BYPASS DEVICES ARE NOT ALLOWED FOR RESIDENTIAL ("RESID") SERVICES  $\leq$  200 A AND ARE REQUIRED FOR RESIDENTIAL SERVICES GREATER THAN 400 A OR FOR 3-PHASE SERVICE.
- TEST BYPASS FACILITIES ARE REQUIRED FOR ALL COMMERCIAL ("COM") PANELS AND ANY 3-PHASE SERVICE.
- LINE CONDUCTORS SHALL ALWAYS BE CONNECTED TO THE TOP TERMINALS OF THE SOCKET, AND LOAD CONDUCTORS CONNECTED TO THE BOTTOM TERMINALS OF THE SOCKET.
- NEUTRAL TAPS SHALL BE CONNECTED TO THE SERVICE NEUTRAL CONDUCTOR AND LOCATED BEHIND SEALED PANELS. WIRE NUTS ARE NOT PERMITTED.
- RESIDENTIAL, SELF-CONTAINED METER SOCKETS SHALL BE UL APPROVED AND SHALL HAVE A MAXIMUM CURRENT RATING EQUAL TO OR GREATER THAN THE CURRENT RATING OF THE ASSOCIATED SERVICE EQUIPMENT.
- METER SOCKETS WITH EXTRUDED OR CAST ALUMINUM JAWS ARE NOT ACCEPTABLE AND WILL NOT BE CONNECTED.
- THE NEUTRAL WIRE (WHITE) SHALL BE CONTINUOUS WITHOUT A SPLICE FROM THE WEATHERHEAD THROUGH THE SOCKET BONDING LUG TO THE NEUTRAL BAR IN THE MAIN SWITCH. WITH SPECIAL PERMISSION, THE NEUTRAL WIRE MAY BE BROKEN IF THE SOCKET IS EQUIPPED WITH AN APPROVED CONNECTION DEVICE.
- THE UTILITY WILL INSTALL THE NECESSARY TRANSFORMERS AND WIRE TRANSFORMER RATED METER SOCKETS.
- FOR RESIDENTIAL SWITCHBOARDS ABOVE 200 AMPS AND ALL COMMERCIAL SWITCHBOARDS FINAL SERVICE EQUIPMENT SUBMITTALS MUST BE PROVIDED TO, AND APPROVED BY CPAU ENGINEERING, PRIOR TO PROCUREMENT AND INSTALLATION. INSTALLATION MUST BE APPROVED BY CITY OF PALO ALTO BUILDING DEPARTMENT AND CPAU BEFORE CONNECTION TO CPAU'S ELECTRIC SYSTEM.
- VOLTAGE TRANSFORMERS ARE REQUIRED FOR ANY SERVICE > 480 V.

APPROVED 3/1994  
*MDP*  
ENGR. MANAGER

ENGINEERING STANDARD  
**DIAGRAM OF ELECTRIC  
METER SOCKETS**

**CITY OF PALO ALTO  
CALIFORNIA**

4	8/08	Allow 480V no PT required	TT
3	6/13	Added meter connections	TT
2	8/08	REVISED - Test bypass reqs.	TT
1	6/99	REVISED	FINCH
REV	DATE	DESCRIPTION	APPR
NTS		<b>SR-MT-E-1014</b>	1 OF 1
SCALE		STANDARD NO.	SHEET NO.