

PIQUA MUNICIPAL POWER SYSTEM

APPLYING FOR NEW SERVICE
RESIDENTIAL
(937) 778-2077

NEW SERVICE - Residential

This Service Policy identifies the responsibility of the City and Customer in providing materials and labor for electrical service to new or upgraded facilities. The customer has the responsibility to notify Piqua Municipal Power System (PMPS) for review and approval of all plans for construction, concerning electrical service, prior to commencing construction. The option for overhead or underground service will be determined by the City. All customer electrical installations must be inspected and approved by the City's designated electrical inspector prior to the City energizing the service. The following information is attached to the back of this packet to help provide a better understanding of the policies of PMPS:

- List of Approved Meter Sockets
- Service Specification Drawings
 - Assembly Guide of Service Mast Installation
 - Underground Pole to Home Installation
 - Underground Trench Details
- Zero Lot Line Service Requirements
- Condominium/Apartment Service Requirements

Temporary Service

After the customer has made a request for temporary power, a representative of PMPS will stake a location and mark it with an orange ribbon. It will generally be located

within 70 feet of a service pole. It should be braced and tall enough to allow a minimum of 12 ft. of ground clearance at its lowest point. PMPS will try to locate the pole so that it does not interfere with vehicular traffic. There should be a minimum of 18 inches of loose ends at the point of service attachment.

Residential - Underground

If the customer desires the residential service to be underground and power is available from an existing transformer or power pole, the customer will be responsible for opening the necessary trench to a **depth of 30 inches** and install **schedule 40 (schedule 80 under roadways)** PVC conduit and approved fittings. The trench must be dug on a straight line from stake to spotted meter base as laid out by a **PMPS representative** with minor deviations in trench depth. It will be necessary to use **long sweep (36 inch radius) schedule 80 PVC elbows** at each end of the trench, and use **schedule 80 PVC on all exposed conduit** up to eight feet above finished grade. Three stalks of conduit and a weatherhead are required when power is supplied from a power pole. A stout **pulling cord** will need to be installed inside the conduit with its ends available at both ends of the conduit. Please refer to the attached spec sheets.

For a **100A** installation use **2 inch** conduit

For a **200A** installation use **2 ½ inch** conduit

For a **400A** installation use **3 inch** conduit

If the residential is to be powered from an existing transformer, the customer needs to contact PMPS before installing the conduit under the transformer. For the safety of the customer, a Utility employee will open the transformer and assist the customer with installing the conduit.

Residential - Overhead

You will need to have a representative from PMPS determine the location of the meter center. At this time, you will be informed of any trees needing to be cut or pruned

to provide a clear path for the service. Service lines should clear windows, doors, porches, fire escapes, etc. by a minimum of 3' measured horizontally. The center of the meter socket should be 5 ½ to 6 ft. above finished grade.

Primary Extensions - Underground

When secondary service is not available and extension of underground primary is required to serve the location, the customer or the developer shall meet with PMPS representative before any construction begins. In addition, The customer will be responsible for opening and closing the necessary trench to a depth of **36 or 42 inches** and installing **schedule 40 (schedule 80 under roadways), 4 inch** conduit and **long sweep schedule 80 elbows** at each end of the trench. Any deviations in direction and/or evenness of bottom of trench should be minor to aid in the ease of pulling wire through the conduit. A **stout cord** should be installed in the conduit with its ends available at each conduit stub-up. It will be the customers' responsibility to bury the provided transformer pedestal to the standards designated by PMPS. A **high voltage warning tape** is to be installed as the trench is back filled and placed one foot minimum and two foot maximum above the primary conduit.

Please see attached spec sheets and service steps for more detail. If you have any questions contact the PMPS at (937) 778-2077 or email at nberger@piquaoh.org

Piqua Power System
Approved Meter Sockets
As of 01-01-2007

Meter Sockets may be purchased at:

<i>City Electric Supply</i>	<i>(937) 335-6908</i>
<i>All Phase, in Springfield</i>	<i>(937) 323-7555</i>
<i>Piqua Electric, in Piqua</i>	<i>(937) 773-2027</i>
<i>Dickman Supply</i>	<i>(937-492-6166</i>

Or any place that sells Milbank products or visit their web site at www.milbankmfg.com

Single Phase 120/240 Volt or 120/208 Volt – 200 Amp or less

Milbank Cat. #U9551-RRL

A grounded fifth terminal, Milbank Kit #K3866, must be installed in the 9:00 position for 120/208 volt operation.

Single Phase 120/240 Volt or 120/208 Volt – 320 Amp (for use on 400 amp service)

Milbank Cat. #U4905-X

A grounded fifth terminal, Milbank Kit #K3866, must be installed in the 9:00 position for 120/208 volt operation.

Single Phase Double Meter 120/240 Volt or 120/208 Volt – 200 Amp or less

Milbank Cat. #U2872-XT

Single Phase 3 or more ganged 120/240 Volt or 120/208 Volt 200 Amp or less (horizontally hung)

Milbank Cat. # U2873-XT (3), U2874-XT (4), U2875-XT (5), U2876-XT (6)

Single Phase 3 or more ganged 120/240 Volt or 120/208 Volt 200 Amp or less (vertically hung comes with main breakers)

Milbank Cat. #U4373-XT (3), U4374-XT (4), U4375-XT (5), U4376-XT (6)

Three Phase 120/208 Volt – 200 Amp or less

Milbank Cat. #U9701-RRL

Three Phase 120/208 Volt – 320 Amp (for use on 400 Amp Service)

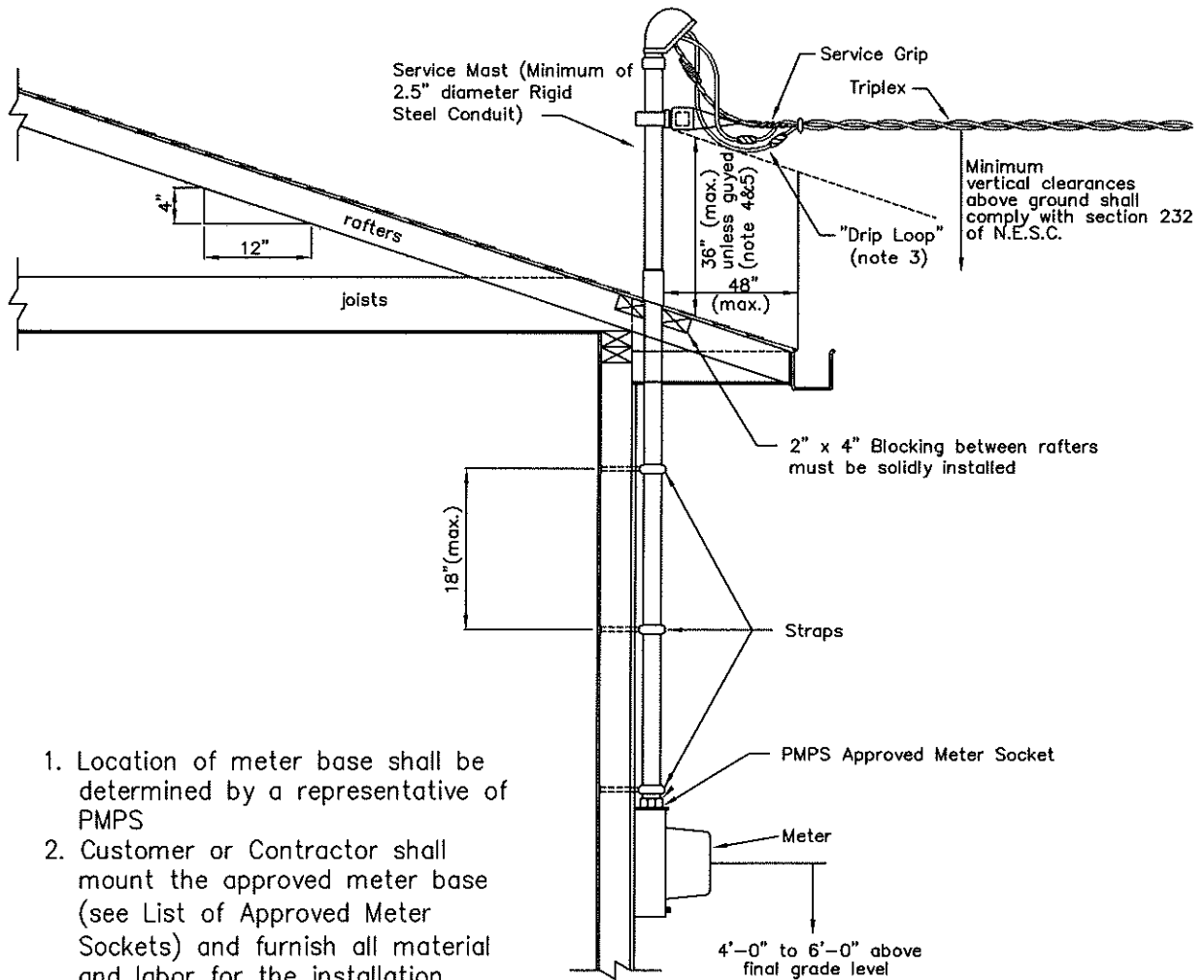
Milbank Cat. #U2594-X

Three Phase 120/208 Volt or 277/480 Volt (greater than 400 Amp service)

Current Transformer type metering

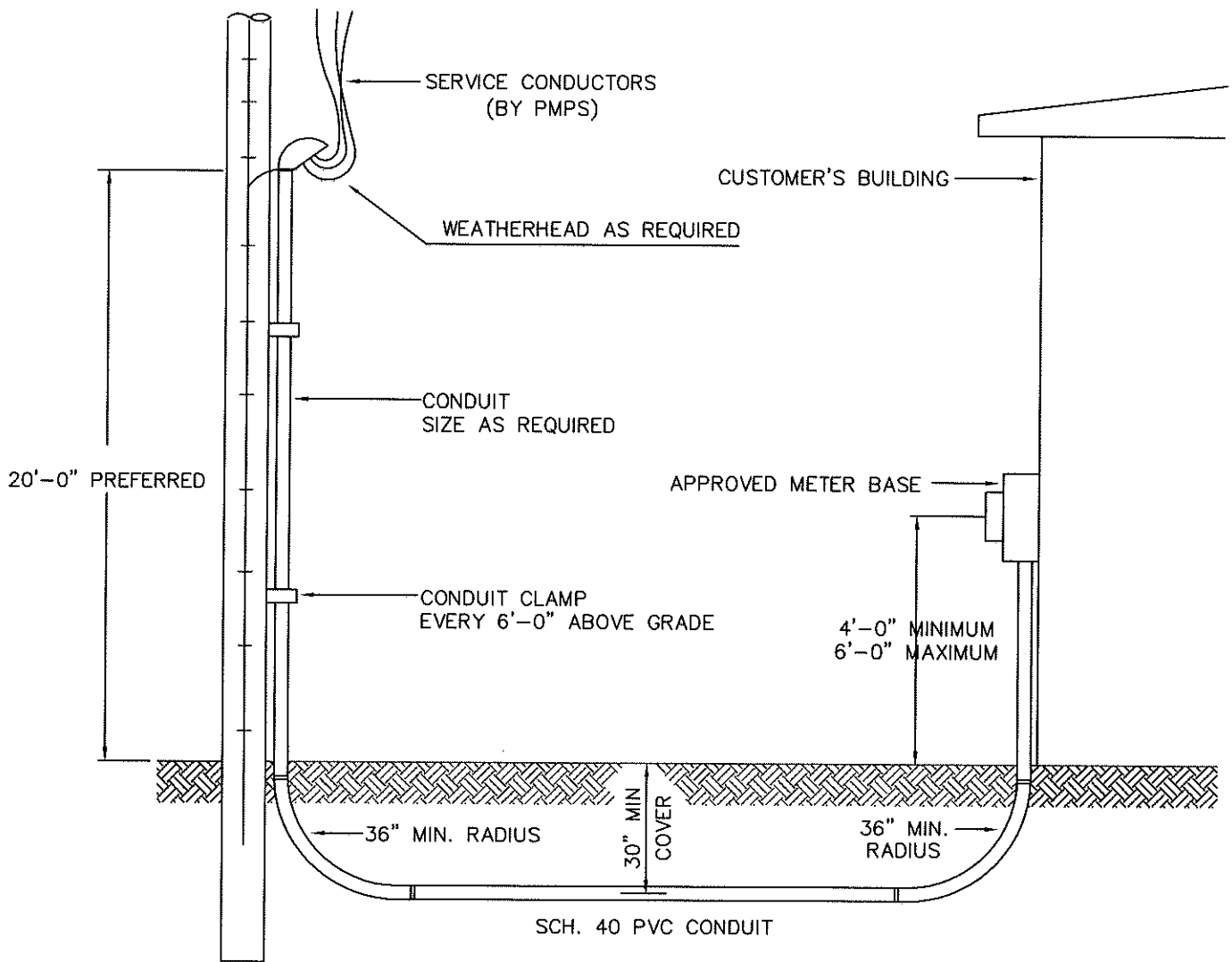
Milbank Cat. #UC-7461-RL-131 with Test Switch #TS10-0109 wired according to Milbank Wiring Diagram “J”.

If used with an overhead feed a Milbank #A7514 1” hub must be installed.



1. Location of meter base shall be determined by a representative of PMPs
2. Customer or Contractor shall mount the approved meter base (see List of Approved Meter Sockets) and furnish all material and labor for the installation beyond the "Point of Delivery."
3. Exposed service conductors shall have a clearance of not less than 3 feet from gas/propane installations and equipment.
4. Meter base must be installed on the outside of the building and kept clear and accessible to PMPs employees at all times.
5. Installation must be approved and released by local regulatory agency before permanent connections

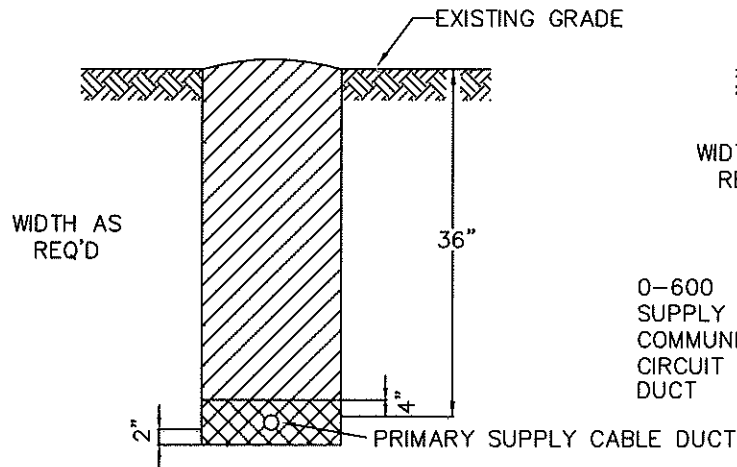
PIQUA MUNICIPAL POWER SYSTEM			
ASSEMBLY GUIDE OF SERVICE MAST INSTALLATION			
100 Amp, 200 Amp, 400 Amp Overhead Service with Mast			DWG. No. OH Service
DATE	REVISION	DATE	REVISION
Nov. 2010			



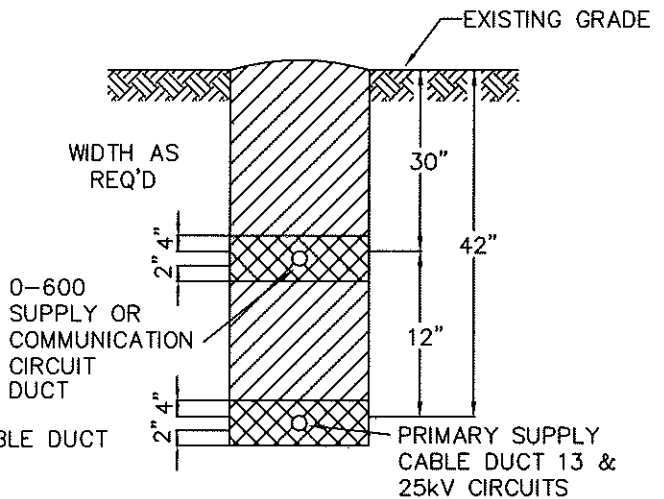
1. Location of meter base shall be determined by a representative of PMPS
2. Customer or Contractor shall mount the approved meter base (see List of Approved Meter Sockets) and furnish all material and labor for the installation beyond the "Point of Delivery"
3. Exposed service conductors shall have a clearance of not less than 3 feet from gas/propane installations and equipment.
4. Customer is required to install a Conduit System to PMPS specifications.
5. Meter base must be installed on the outside of the building and kept clear and accessible to PMPS employees at all times.
6. Installation must be approved and released by local regulatory agency before permanent connections.
7. See additional information about Zero Lot Line, Condominium and Apartment Service Requirements if applicable.

SERVICE ENTRANCE SIZE (AMPS)	CONDUIT SIZE	WIRE SIZE
100 AMPS	2"	#2/0
200 AMPS	2 1/2"	#4/0
400 AMPS	3"	350 kcmil

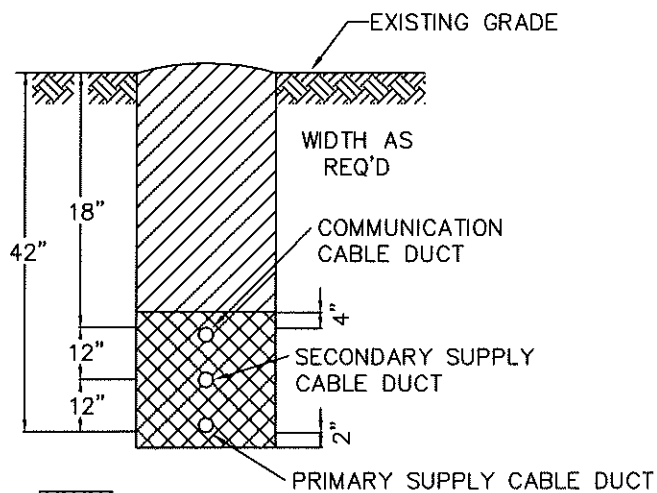
PIQUA MUNICIPAL POWER SYSTEM			
TYPICAL SINGLE-PHASE SECONDARY URD SERVICE			
RUS EQUIVALENT: NONE			DWG. No.
			UM5-3
DATE	REVISION	DATE	REVISION






PRIMARY SUPPLY CABLE ONLY



PRIMARY SUPPLY AND
SECONDARY SUPPLY OR
COMMUNICATION CIRCUIT



-  UNDISTURBED EARTH
-  COMPACTED BACKFILL
-  SAND OR CLEAN SOIL

NOTES:

- 1- 12" spacing between cable circuits recommended in case of maintenance and repair work.
- 2- Closer spacing is allowable under NESC Rule 320B provisions of exception when all parties agree.
- 3- In some cases where other supports and utilities are involved, greater depth of burial is recommended.

PIQUA MUNICIPAL POWER SYSTEM			
TYPICAL TRENCHES FOR BURIED CONDUITS			
			DWG. No. UR2-DBD
DATE	REVISION	DATE	REVISION

ZERO LOT LINE SERVICE REQUIREMENTS

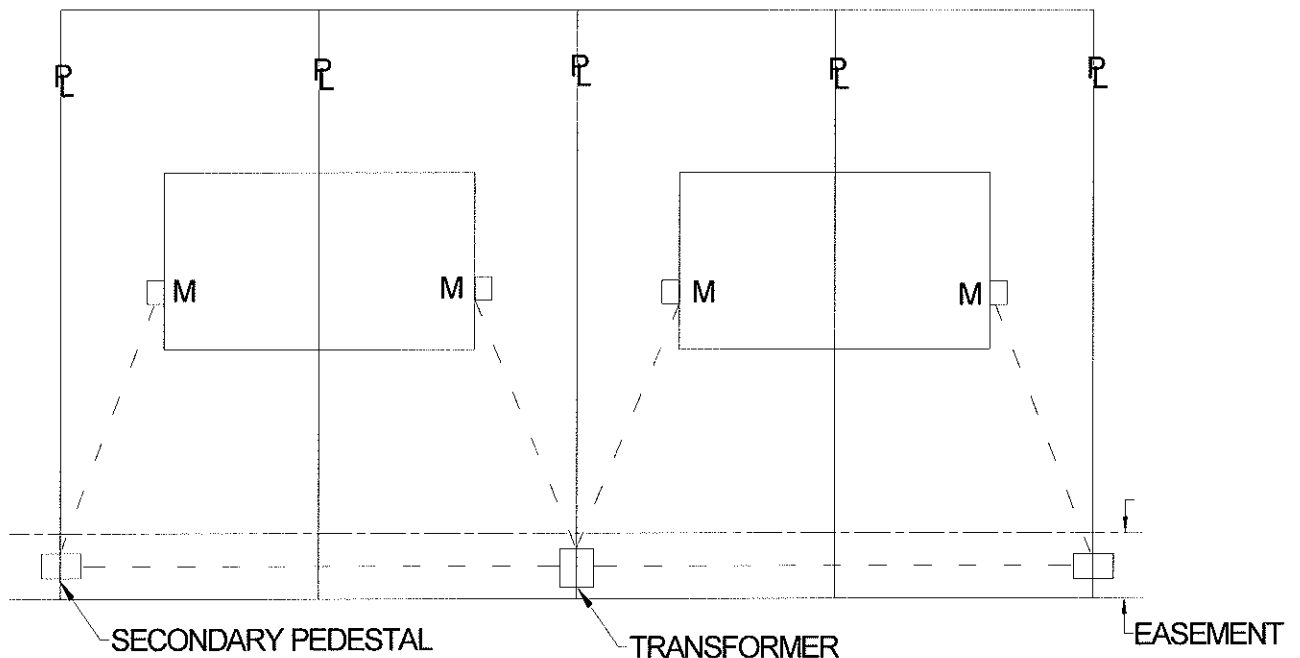
Definition:

The below installation specifications applies only to a zero-lot line two-unit Building. Any building that has three or more units or does not have a zero lot line designation is considered a Condominium/ Apartment Complex and will have different service requirements (see Condominium/Apartment Service Requirements).

Requirements:

1. The Customer is responsible to contact PMPS to spot the meter base location.
2. The Customer is required to follow the specifications found in the New Service Packet for underground installation.
3. PMPS shall supply and install the necessary conductors.
4. Connections at the meter socket will be done by the Customer.

Typical Installation Diagram



Questions? Please call 937-778-2077

CONDOMINIUM/APARTMENT SERVICE REQUIREMENTS

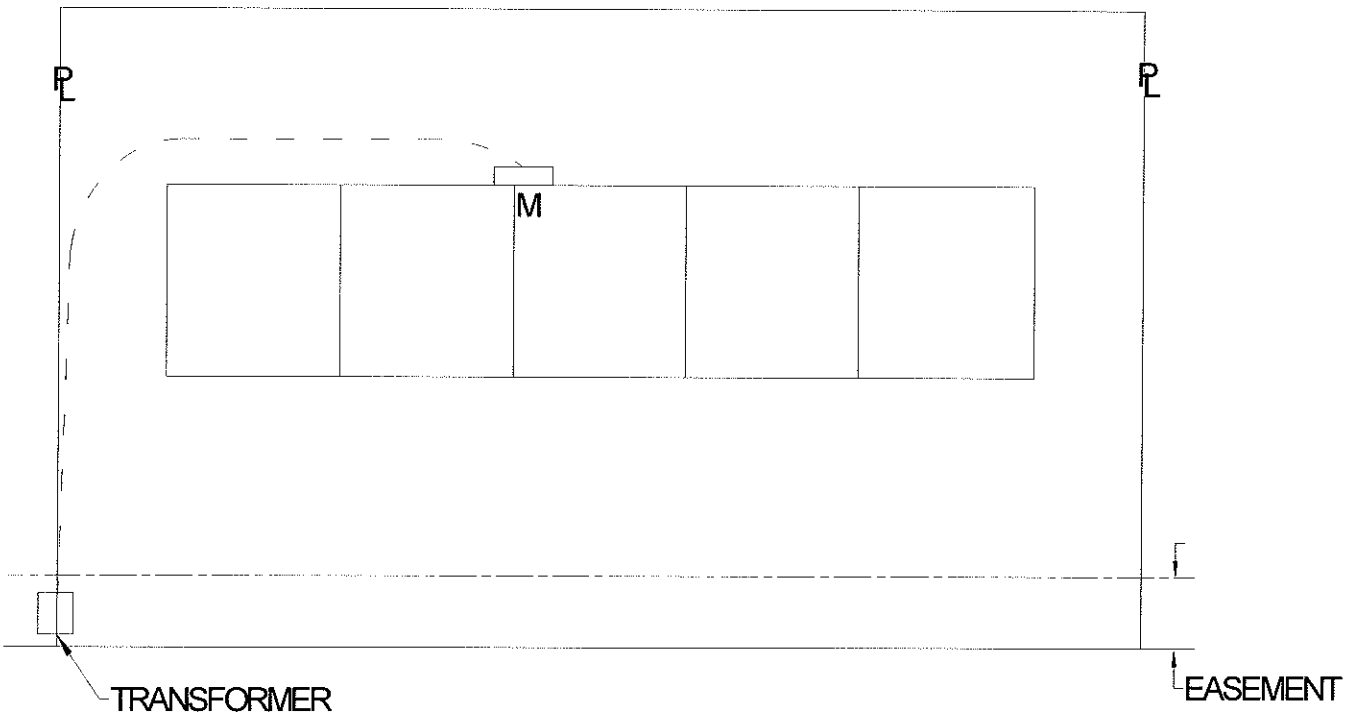
Definition:

The below installation specifications applies to a three or more unit Building or a parcel that is not designated as zero lot lines.

Requirements:

1. The Customer is responsible to contact PMPS to spot the meter base location.
2. PMPS will provide customer with the requirements of an approved gang meter base.
3. The Customer is required to follow the specifications found in the New Service Packet for underground installation.
4. PMPS shall supply and install the necessary conductors.
5. Connections at the meter socket will be done by the Customer.

Typical Installation Diagram



Questions? Please call 937-778-2077