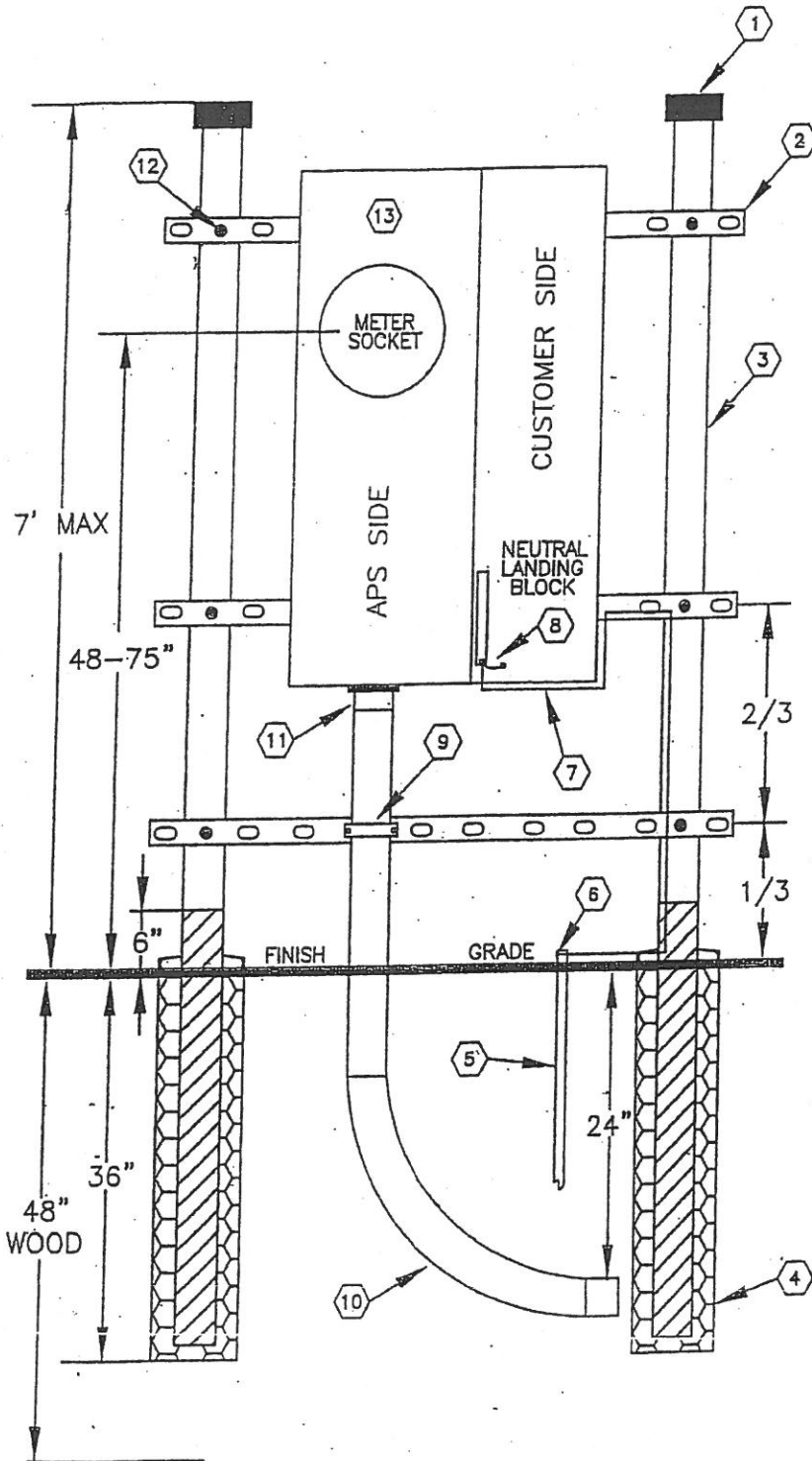


# "FREE STANDING" METER EQUIPMENT

## NOTES:

- 1 ALL STEEL POSTS MUST BE CAPPED.
- 2 MINIMUM OF ONE INCH STEEL UNISTRUT SUPPORTS.
- 3 THREE INCH DIAMETER RIGID GALVANIZED STEEL POSTS PREFERRED. (MAXIMUM LENGTH=10') THERE SHALL BE NO WELDS OR COUPLINGS IN STEEL POSTS. WOOD POSTS MAY BE USED IF THE FULL LENGTH OF POSTS ARE PRESSURE TREATED AS PER APS SPECIFICATION MS-1900. MINIMUM SIZE FOR WOOD POSTS IS 6"x6" OR 8" DIAMETER. (MAXIMUM LENGTH=10')
- 4 POSTS SHALL BE PLACED IN THE CENTER OF A 12" MINIMUM DIAMETER CONCRETE FOOTING. THE FOOTING SHALL BE A MINIMUM OF 36" IN THE GROUND & EXTEND A MINIMUM OF 4" ABOVE GROUND LEVEL, & HAVE A 1/2" SLOPE AWAY FROM THE POST TO ALLOW FOR DRAINAGE. NOTE, CONCRETE IS NOT REQUIRED OF WOOD 6"x8" OR 8" DIAMETER POST BURIED 48" OR DEEPER. IF POSTS ARE STEEL THE PORTION OF THE METALLIC POSTS BELOW GRADE, UP TO A MINIMUM OF 6" ABOVE GRADE, SHALL BE HALF-LAPPED WITH 20 MIL TAPE SUITABLE FOR IT'S USE, TO A TOTAL THICKNESS OF 40 MIL. THE TAPE SHALL BE LABELLED TO INCLUDE THE THICKNESS (20 MIL.) AND THE MANUFACTURER'S NAME.
- 5 5/8"x8" GROUND ROD. GROUND ROD SHALL NOT BE POSITIONED IN A PLACE WHERE IT IS A TRIPPING HAZARD TO APS OR THE PUBLIC. THERE SHALL BE A 3'x3' CLEAR WORKING SPACE IN FRONT OF THE METERING EQUIPMENT.
- 6 ACORN CLAMP PREFERRED AT CONNECTION. GROUNDING SHALL BE PROVIDED BY THE CUSTOMER IN COMPLIANCE WITH N.E.C. AND APS. MADE ELECTRODES SHALL HAVE A RESISTANCE-TO-GROUND OF NOT MORE THAN 25 OHMS.
- 7 GROUND WIRE SHALL BE A MINIMUM SIZE OF NO. 4 SOLID COPPER. GROUND WIRE SHALL NOT BE IN A POSITION TO BE A TRIPPING HAZARD TO APS OR THE PUBLIC.
- 8 INSTALL A BONDING JUMPER IF THE NEUTRAL LANDING BLOCK IS INSULATED FROM THE ENCLOSURE.
- 9 RISERS SHALL BE SECURELY FASTENED TO UNISTRUT BY AT LEAST ONE STRAP AND THE SERVICE EQUIPMENT ENCLOSURE. THE STRAP SHALL BE LOCATED 1/3 THE DISTANCE UP FROM FINISH GRADE BETWEEN THE RISER ENTRANCE TO THE SERVICE EQUIPMENT AND FINISHED GRADE. (200 AMP SES-2 1/2") (400 AMP SES-3")
- 10 UNDERGROUND RISERS SHALL BE OF SCHEDULE 80 PVC, RIGID METALLIC OR INTERMEDIATE METALLIC CONDUIT (IMC) AND LISTED OR RATED FOR THEIR INTENDED USE. RISER SHALL NOT BE CUT WITH A TORCH, WELDED OR BRAZED. ONLY TRUE ROUND CROSS-SECTION RISERS WILL BE ACCEPTABLE. THERE SHALL BE NO COUPLINGS OR CONNECTORS ABOVE GRADE EXCEPT FOR THE CONNECTION AT THE PANEL. RISERS SHALL BE PLUMB WITH NO KICKS OR BENDS. IF ELBOW IS STEEL THE PORTION OF THE METALLIC RISER BELOW GRADE, UP TO A MINIMUM OF 6" ABOVE GRADE, SHALL BE HALF-LAPPED WITH 20 MIL TAPE SUITABLE FOR IT'S USE, TO A TOTAL THICKNESS OF 40 MIL. THE TAPE SHALL BE LABELLED TO INCLUDE THE THICKNESS (20 MIL.) AND THE MANUFACTURER'S NAME OR FACTORY COATED. IF RISER IS FACTORY COATED, IT SHALL HAVE A U.I. LABEL. THE COUPLER CONNECTING THE PVC CONDUIT SYSTEM TO THE METALLIC ELBOW SHALL ALSO BE TAPED. IIC OR RIGID METALLIC RISER OR SCHEDULE 40, 24 INCH RADIUS ELBOW ARE ACCEPTABLE.
- 11 FACTORY BOLT-ON HUB PREFERRED. IF FACTORY BOLT-ON HUB IS USED, ALL KNOCK-OUTS SHALL BE REMOVED. REDUCER WASHERS SHALL BE INSTALLED ON THE INSIDE AND OUTSIDE OF THE SECTION WHENEVER THE LARGEST KNOCK-OUT IS NOT USED. SCHEDULE 80 PVC CONDUIT RISERS SHALL BE SECURED TO THE PULL SECTION WITH A THREADED MALE SLIP-SLEEVE CONNECTOR AND A STEEL LOCK NUT, A THREADED MALE SLIP-SLEEVE CONNECTOR INTO A FACTORY BOLT-ON HUB, OR A MALLEABLE "CHASE NIPPLE" INTO A THREADED FEMALE SLIP-SLEEVE CONNECTOR ON THE RISER. METALLIC CONDUIT RISERS SHALL BE SECURED TO THE PULL SECTION USING A RISER "HUB" WITH A BONDABLE LOCK NUT/BUSHING, A FACTORY BOLT-ON HUB, OR A SELF-BONDING HUB (MEYERS OR EQUIVALENT). THE SELF-BONDING HUBS SHALL BE INSTALLED IN THE LARGEST KNOCK-OUT PROVIDED.
- 12 ALL STEEL UNISTRUT SHALL BE ATTACHED TO THE POLE OR POST SECURELY WITH A MINIMUM 1/2" GALVANIZED THROUGH BOLT WITH A 1-1/2" GALVANIZED BACKING AND A LOCK NUT. NAILS OR LAGS SCREWS WILL NOT BE ACCEPTABLE. POLE SHALL BE NOTCHED TO THE DEPTH OF THE UNISTRUT WHEN USING WOOD POLES.
- 13 APS APPROVED PANEL.



ALL DIMENSIONS ARE MANDATORY.