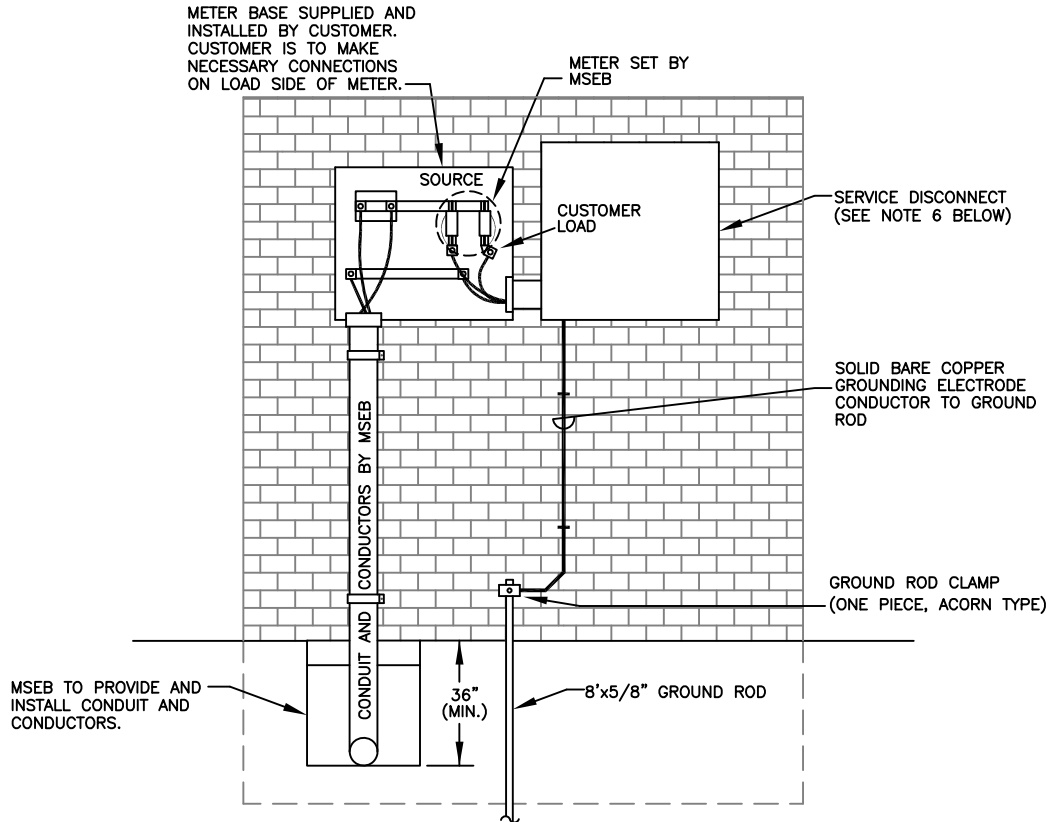




UNDERGROUND SERVICE BUILDING WALL MOUNTED



Service Entrance Conductor Sizes		
Table is for Type RHW, THHW, THW, THWN, XHHW		
Insulated Conductors Rated at 75°C		
RESIDENTIAL - SINGLE PHASE SERVICE IN CONDUIT 2 CONDUCTORS, PLUS 1 NEUTRAL		
COPPER CONDUCTORS		
Size Entrance Switch	Min. Conductor Size	Size Of Grounding Electrode Conductor COPPER ONLY (SOLID OR STRANDED)
200	3 #2/0	#2
400	3 #500 MCM	#1/0
400	2 runs 3 #3/0	#1/0
600	2 runs 3 #350 MCM	#2/0

Service Entrance Conductor Sizes		
Table is for Type RHW, THHW, THW, THWN, XHHW		
Insulated Conductors Rated at 75°C		
COMMERCIAL - SINGLE PHASE SERVICE IN CONDUIT 2 CONDUCTORS, PLUS 1 NEUTRAL		
COPPER CONDUCTORS		
Size Entrance Switch	Min. Conductor Size	Size Of Grounding Electrode Conductor COPPER ONLY (SOLID OR STRANDED)
200	3 #3/0	#2
400	3 #500 MCM	#1/0
400	2 runs 3 #3/0	#1/0
600	2 runs 3 #350 MCM	#2/0
COMMERCIAL - THREE PHASE SERVICE IN CONDUIT 3 CONDUCTORS, PLUS 1 NEUTRAL		
200	4 #3/0	#2
400	4 #500 MCM	#1/0
600	2 runs 4 #350 MCM	#2/0

- NOTES:**
- THIS DIAGRAM IS INTENDED FOR USE AS A GUIDE. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT EDITION OF THE NESC AND NEC, EXCEPT THAT LOCAL CODES AND REGULATIONS HAVING JURISDICTION SHALL TAKE PRECEDENCE.
 - ALL CLEARANCES TO BE IN CONFORMANCE TO THE MOST STRINGENT REQUIREMENTS OF THE CURRENT EDITION OF EITHER THE NESC, NEC, OR OTHER CODES OF GOVERNMENTAL OR REGULATING AUTHORITIES AS APPLICABLE.
 - UNDERGROUND METER BASES MAY BE PURCHASED FROM MUSCLE SHOALS ELECTRIC BOARD. CUSTOMER SHOULD CONTACT: **SERVICE APPLICATIONS DEPARTMENT**
PH. (256) 386-9290 1015 AVALON AVE., MUSCLE SHOALS, ALABAMA
 - MSEB REPRESENTATIVE SHALL INSPECT CUSTOMER INSTALLATION BEFORE TRENCH IS BACKFILLED.
 - CUSTOMER SHALL CONSTRUCT FOUNDATION SUCH THAT CONDUIT AND SWEEP CAN BE INSTALLED FLUSH AGAINST EXTERIOR WALL.
 - BREAKER BOX WITH MAIN DISCONNECT (RATED FOR SERVICE ENTRANCE EQUIPMENT) IS OPTIONAL UNLESS OVER 3' TO PANEL INSIDE HOUSE.
 - ROD-TYPE ELECTRODES OF STAINLESS STEEL AND COPPER, OR ZINC COATED STEEL SHALL BE AT LEAST 5/8" IN DIAMETER. RODS SHALL BE NOT LESS THAN 8' LENGTH.
 - GROUND CLAMPS SHALL BE LISTED FOR THE MATERIALS OF THE GROUNDING ELECTRODE AND THE GROUNDING ELECTRODE CONDUCTOR, AND SHALL ALSO BE LISTED FOR DIRECT SOIL BURIED OR CONCRETE ENCASMENT.
 - THE GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN TO THE SERVICE NEUTRAL.