

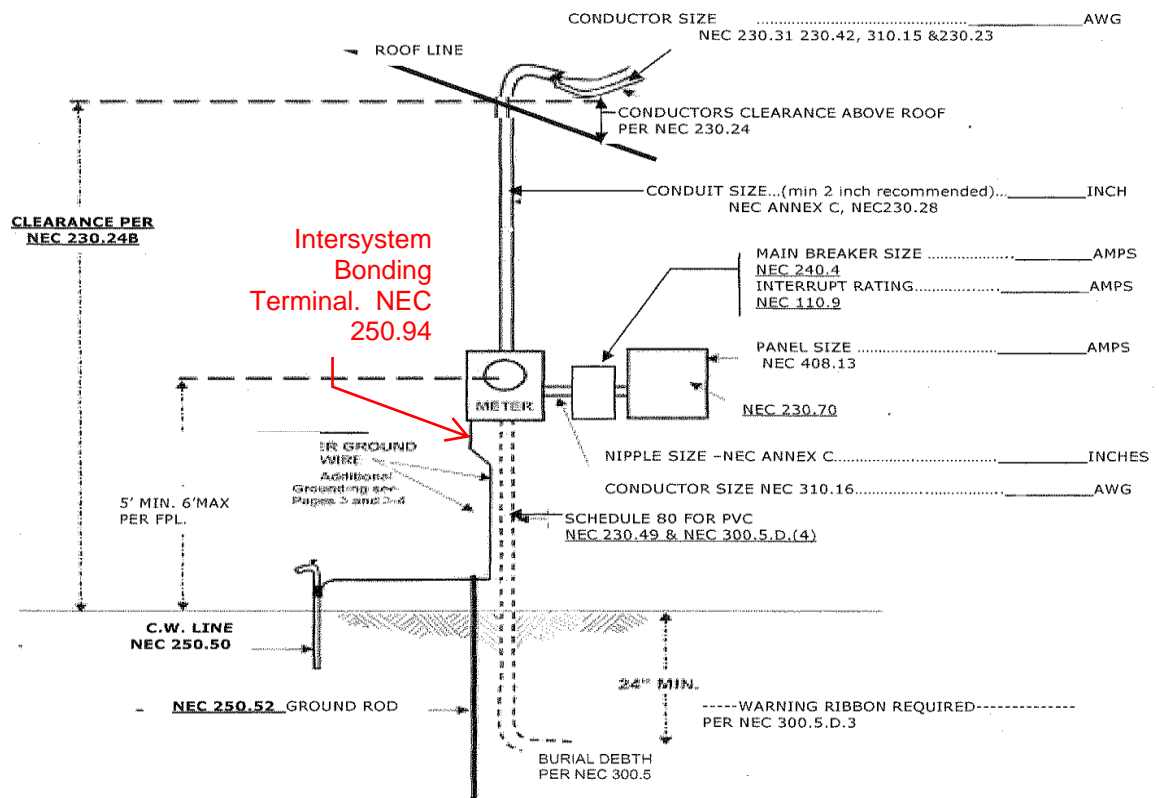


CITY OF BOYNTON BEACH  
BUILDING DEPARTMENT  
100 EAST OCEAN AVE BOYNTON BEACH FL 33435  
(561)742-6000

## ELECTRIC SERVICE CHANGE DIAGRAM

### *Residential Only*

All work shall comply with the current adopted edition of the  
National Electrical Code (NEC)



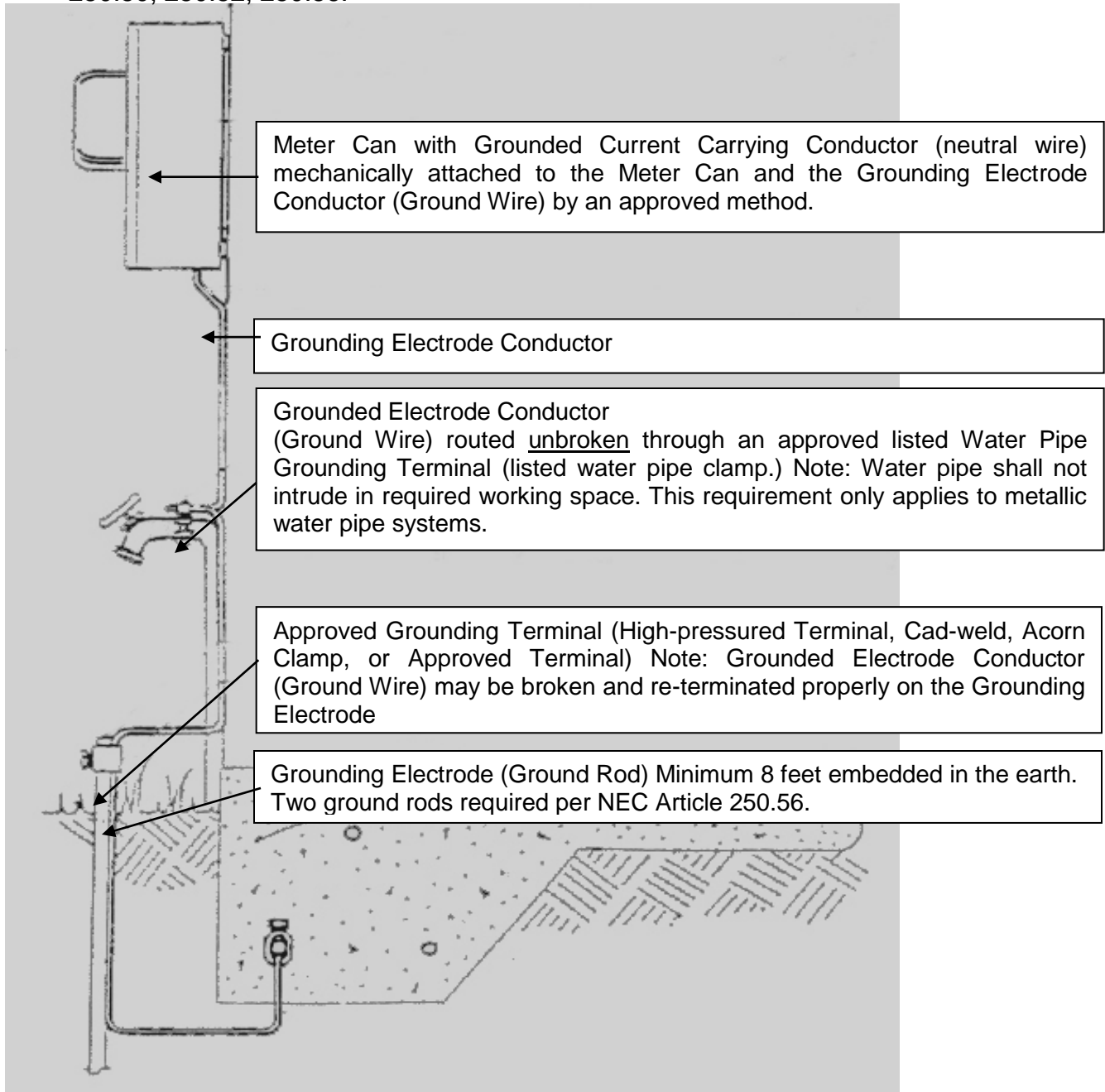
AMP CIRCUIT BREAKER PANEL SCHEDULE						PANEL #					
CIRCUIT	C.B. SIZE	CIRCUIT DESCRIPTION	LOAD (WATTS)	WIRE SIZE		CIRCUIT	C.B. SIZE	CIRCUIT DESCRIPTION	LOAD (WATTS)	WIRE SIZE	
1						2					
3						4					
5						6					
7						8					
9						10					
11						12					
13						14					
15						16					
17						18					
19						20					
21						22					
23						24					
25						26					
27						28					
29						30					
31						32					
33						34					
35						36					
37						38					
39						40					
41						42					
TOTAL ESTIMATED LOAD						WATTS (LESS HVAC LOAD)					
FIRST 10,000 WATTS AT 100%						WATTS					
REMAINING WATTS AT 40%						WATTS					
HVAC (ESTIMATED) AT 100%						WATTS					
TOTAL ESIMATED DEMAND						WATTS ÷ 240 VOLTS =                  AMPS					

## **Grounding Electrode System**

Effective Date: Primary Building Permits applied for on or after June 30, 2003.

This change was made in the interest of Grounding and compliance with the current adopted edition of the NEC Article 250.56. In this application a supplementary (Ground Rod) will be required.

The grounding system shall also comply with the current adopted edition of the NEC Article 250 inclusively. Particular attention should be given to Articles 250.20, 250.36, 250.50, 250.52, 250.56.



# Grounding Electrode System

Effective Date: Primary Building and or Electrical Permits applied for on or after June 30, 2005.

On free-standing Temporary Services, Irrigation Services, Lift Stations, Sign Services and like Electrical Services a second Grounding Electrode (Ground Rod) will be required if the other electrodes are available (as described in the current adopted edition of the NEC Articles 250.54 & 250.56). The second Grounding Electrode (Ground Rod) must be placed no closer than 6 feet apart and effectively tied together. The second Grounding Electrode is not required when the Electrical Contractor can demonstrate the first Electrode measures 25 Ohms or less to ground. (Current adopted edition of the NEC Article 250.56).

This change was made in the interest of Grounding and compliance with the current adopted edition of the NEC Article 250.50.

