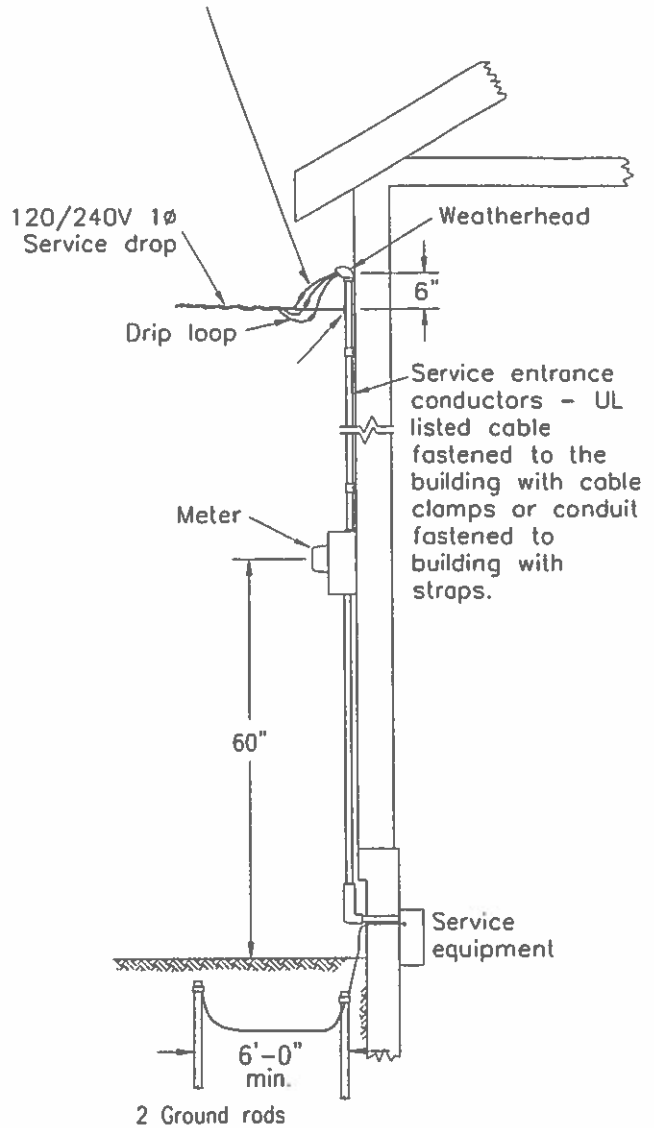
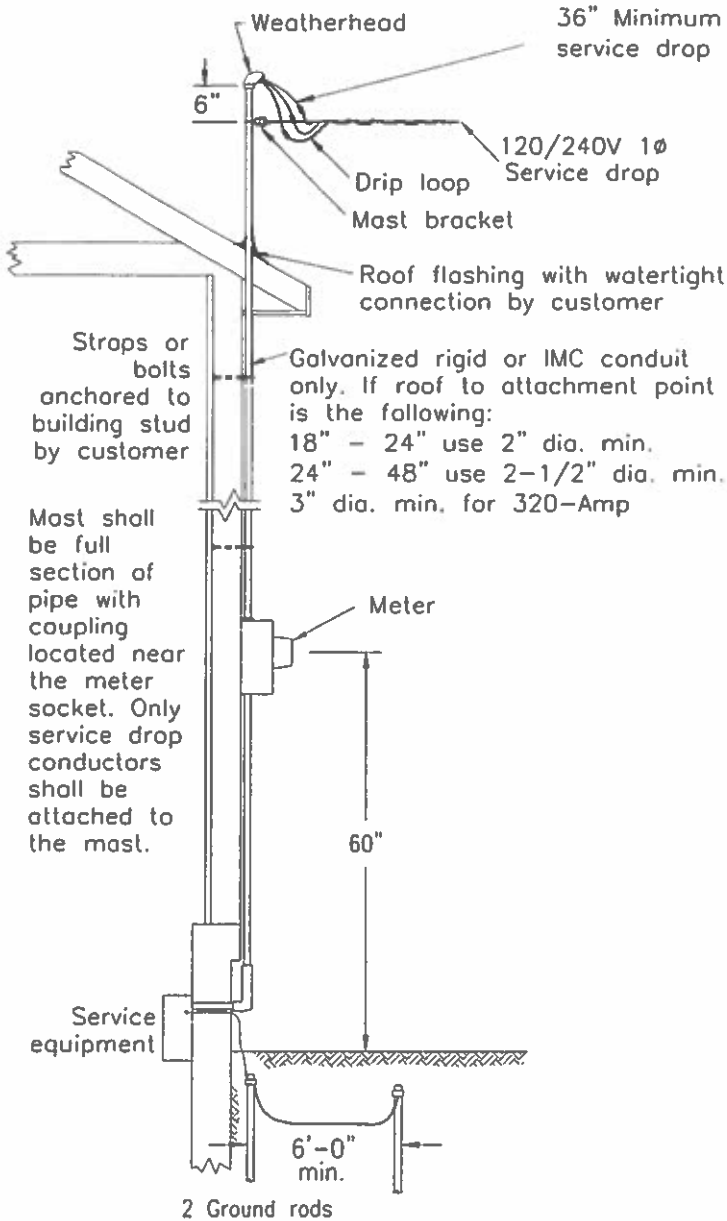


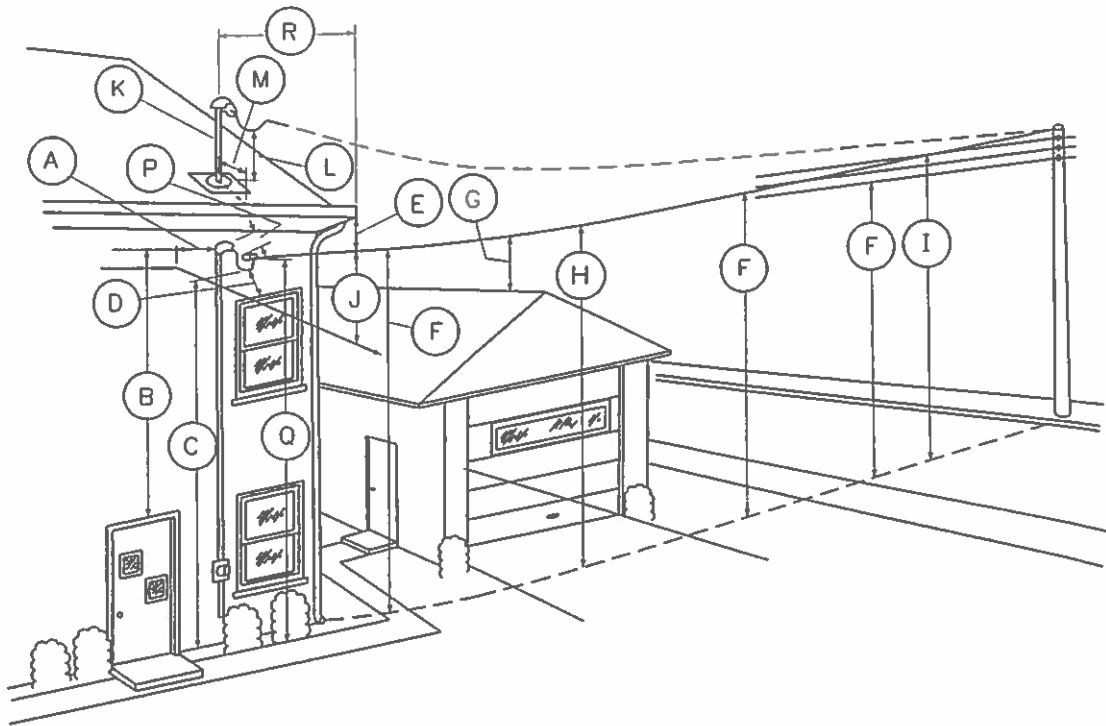
Overhead Service



All grounding electrodes that are present at each building or structure served shall be bonded together to form the grounding electrode system.
(See Electric Service Grounding Detail)

Service Size: 100 Amp 150 Amp 200 Amp 400 Amp Other _____

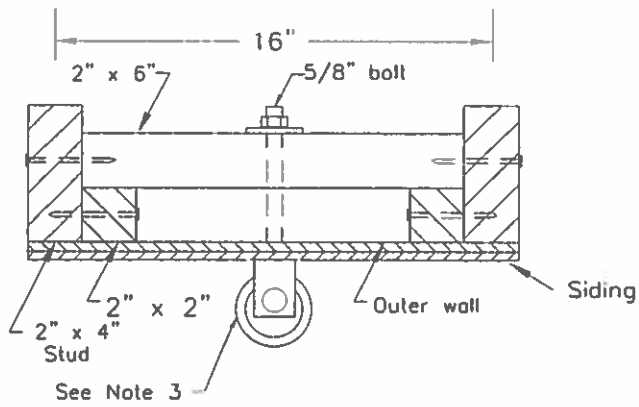
Conductor Size: _____
 Neutral Size: _____
 G.E.C. Size: _____
 Conduit Size: _____



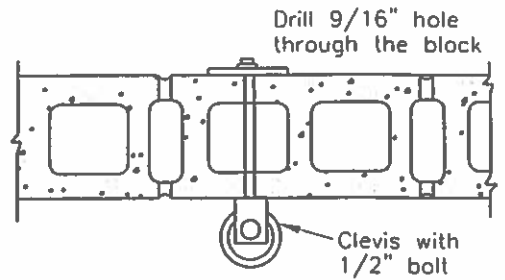
Minimum Clearance

A	Telephone service at point of attachment	1 ft
B	Doors, porches, fire escapes, and similar locations	3 ft
C	Lowest point of the drip loop: Multiplex Open-wire (300 V to ground)	10 ft 12 ft
D	Windows: Beside or below Above a window	3 ft 4 inches
E	Gutters and downspouts	3 inches
F	Sidewalks and final grade: Multiplex Open-wire (300 V to ground)	12 ft 12.5 ft
G	Refer to Section 3.15 for conductors not attached to, but crossing over buildings	-
H	Residential driveways	16 ft
I	Public street, alley, public parking lot, and areas subject to truck traffic	18 ft
J	Telephone service drop at crossing	2 ft
K	Optional method by use of mast: Conduit coupling shall be located near meter socket (Only power service drop conductors shall be attached to the mast.)	-
L	Overhanging roof: (Roof slope not less than 4" in 12")	If service overhang "R" is 6 feet or less and "M" is 4 feet or less 18 inches If service overhang "R" is greater than 6 feet, the vertical clearance above the roof for the remainder of horizontal distance 3 ft
M	Distance from service mast to edge of the roof (see dimension "L")	-
P	Point of attachment shall not be higher than the weatherhead	-
Q	Electrical service drop attachment	12 ft
R	Length of electrical service overhanging roof (see dimension "L")	-

Minimum Clearances

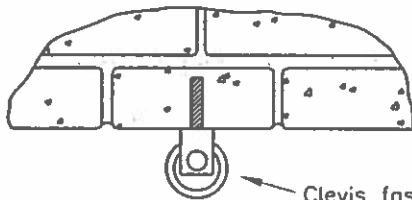


Wood, Aluminum, or Composition Siding



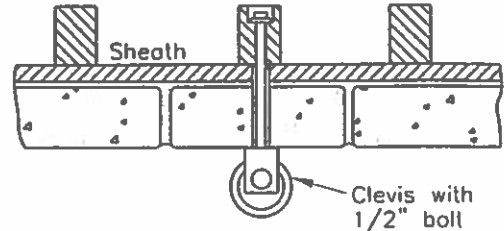
Cinder or Cement Block

To be installed in the brick or poured cement only, not in the brick mortar

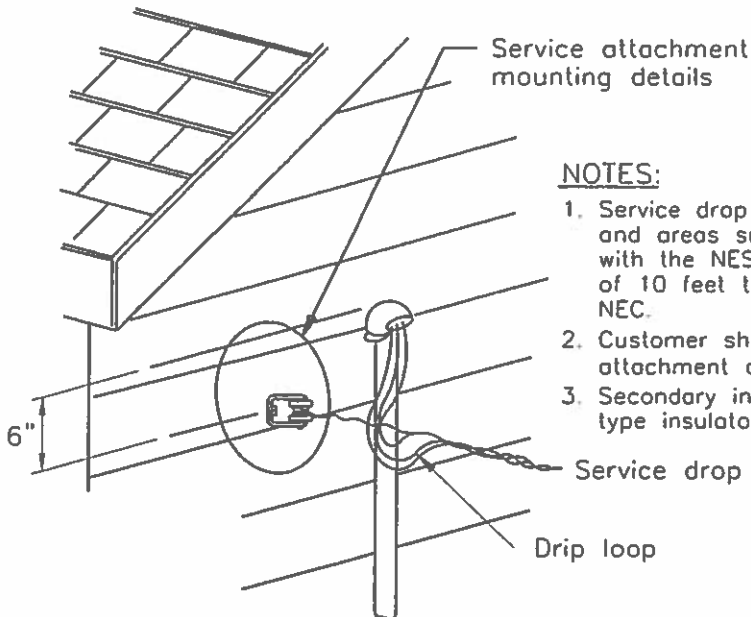


Solid Brick or Concrete Masonary

Drill 9/16" hole in stud and countersink bolt head Bolt shall be installed before brickwork is started.



Brick Veneer

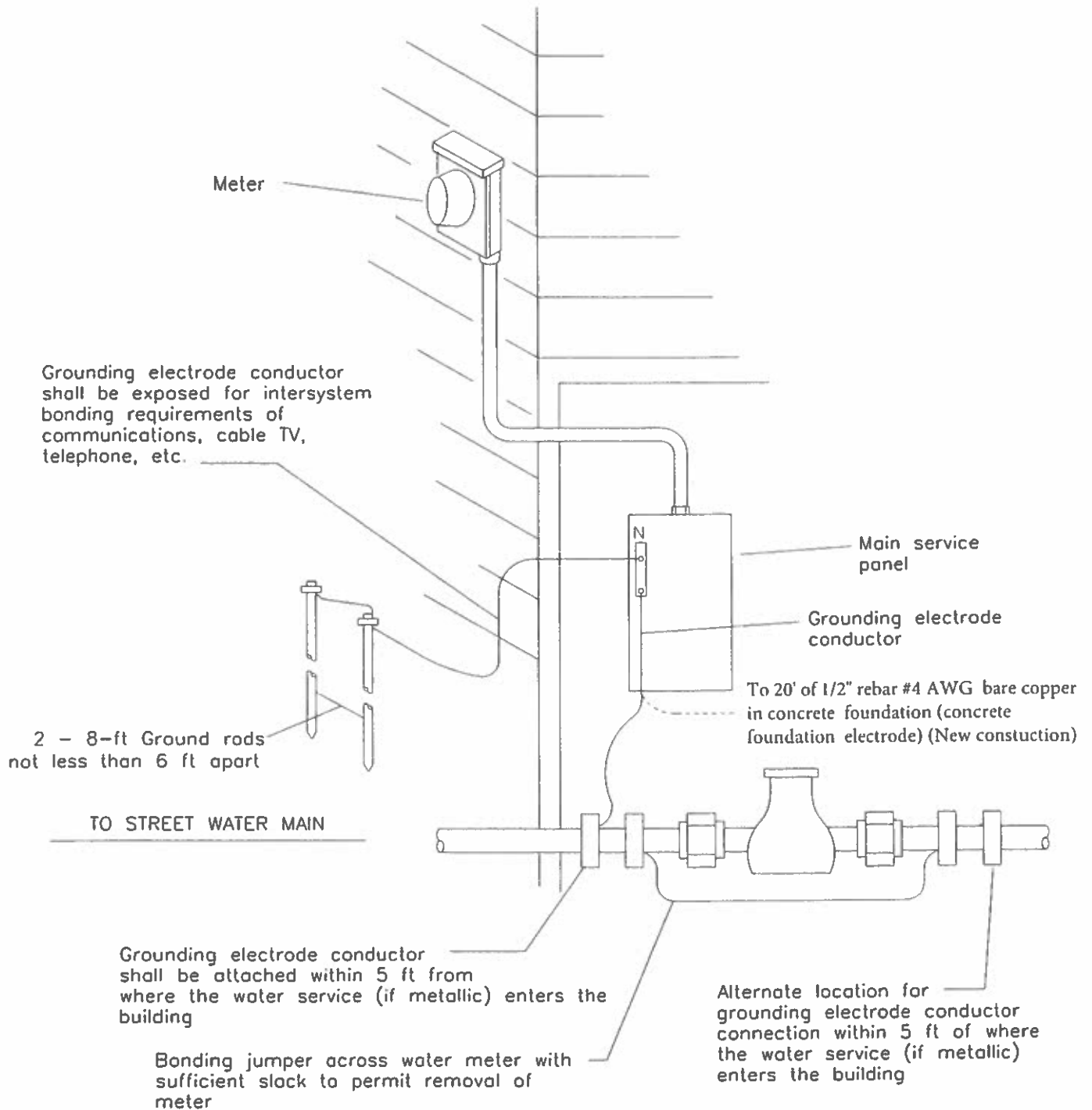


NOTES:

1. Service drop clearances above grade, alleys, driveways, and areas subject to truck use, shall be in accordance with the NESC (). Minimum ground clearance of 10 feet to the bottom of the drip loop is required per NEC.
2. Customer shall provide, install, and maintain the service attachment at location approved by the Company.
3. Secondary insulators with clevis and 5/8" bolt. Screw-in type insulators are not acceptable.

**OVERHEAD SERVICE
TYPICAL SERVICE DROP ATTACHMENT**

Electric Service Grounding Detail



All grounding electrodes that are present at each building or structure served shall be bonded together to form the grounding electrode system. Exception: Concrete-encased electrodes of *existing buildings* or structures shall not be required to be part of the grounding electrode system where the steel reinforcing bars or rods are not accessible for use without disturbing the concrete. **NEW CONSTRUCTION** where steel reinforced footers are present, the steel ***shall*** be bonded to the grounding electrode system.

NEC Standard Electrical Load Calculation for Dwellings

Owner: _____ Location: _____

Total Floor Area of Dwelling (NEC 220.12) _____ SQ FT.

Factor	Quantity	Volt Amperes (VA)
“General Lighting”		
1. General Lighting (SQ FT X 3 VA/SQ FT (Table 220.12))	s.f.	
2. Small Appliance Circuits (1500 VA per circuit) (NEC 220.52(A)) (min. 2)		
3. Laundry Circuit (1500 VA per circuit) (NEC 220.52(B))		
4. Total General Lighting Load (Add lines 1, 2 & 3):		
5. First 3000 VA @ 100%:		3000
6. Total General Lighting Load – 3000 = _____ @ 35% =		
7. Net General Lighting Load (Per NEC T. 220.42) (Add lines 5 & 6):		
Appliances		
	Total	
8. 3 or less Appliances, Total Appliance VA; 4 or more Appliances, 75% Total Appliance VA (NEC 220.53):		
Other Loads (other than motors)		
	Nameplate Rating (VA)	Adjusted Rating (VA)
9.		
10.		
11.		
12.		
13.		
14. 25% of largest motor (NEC 430.24)		
Total Volt-Amperes (VA) (Add lines 7, 8 & 9 thru 14) =		
Total Volt-Amperes / 240-volts = _____ Amperes		
Conductor Size (Indicate Copper or Aluminium)		
Service Rating (Amperes)		

Note: See 2008 NEC < Annex D, Example D1