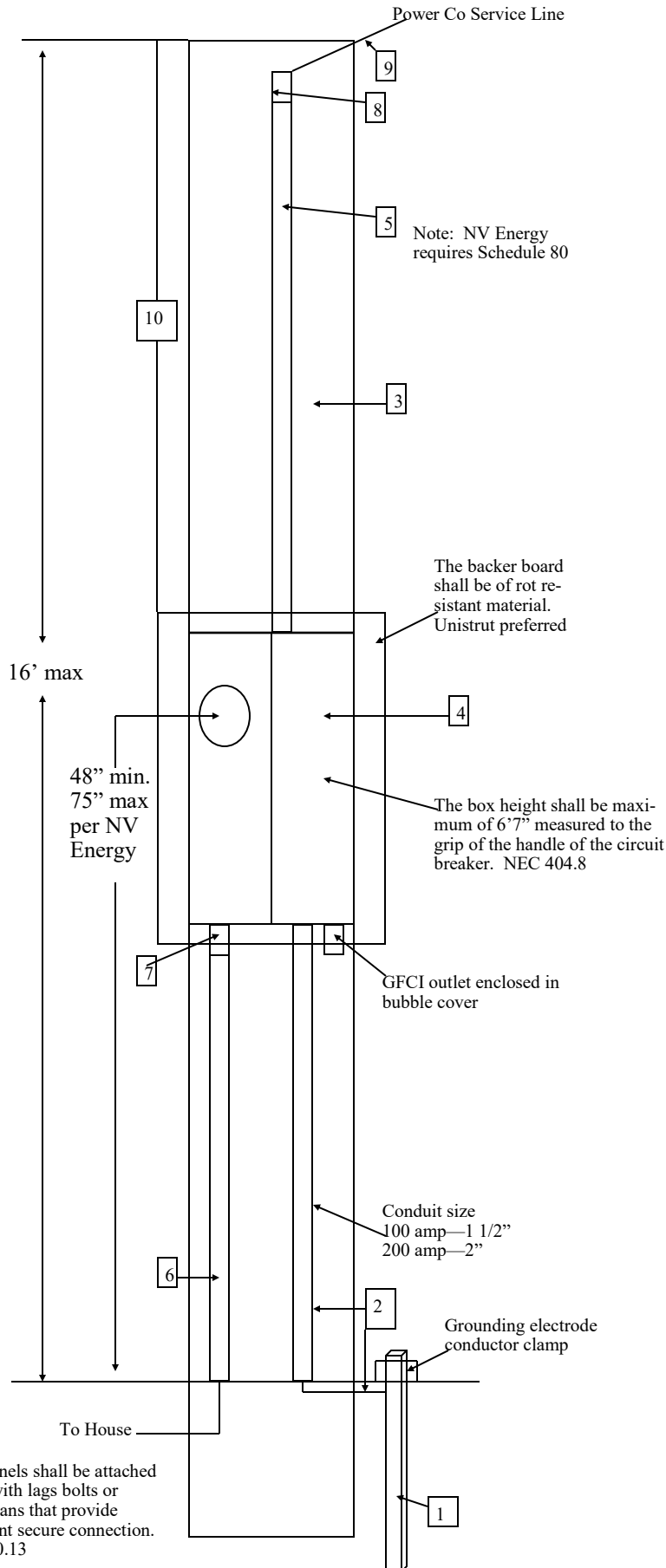


Humboldt County & City of Winnemucca Bldg Departments
 Overhead Electrical Service Installation
 2018 National Electric Code



1. Ground Electrode Conductor may be:
 - a. Rods of iron or steel or stainless steel at least 5/8" in diameter
 - b. Rods of listed nonferrous metal (copper or copper clad) not less than 1/2" diameter.
 - c. Pipe or conduit not less than 3/4" trade size & where of iron or steel shall have the outer surface galvanized or otherwise metal coated for corrosion protection.
 - d. The electrode shall be installed such that at least 8' of length is in contact with soil. NEC 205.52.A(5)
 - e. Grounding electrode conductor clamp shall be installed above grade.
2. Grounding Electrode Conductor—Bare #6 copper for 100 amp service. Bare #4 copper for 200 amp service. NEC Table 250.66
 Shall be secured in an approved manner & connected to ground rod.
3. Wood pole—must be 6"x6" square or 6" diameter round at the top & 10" diameter round at the bottom. Rot treated by pressure method

Pole Length(Ft)	Depth(ft)
25	4 1/2
30	5
35	5 1/2
40	6
4. Meter base—(socket) with main disconnect breaker (NEC 230.70). General means shall be provided to disconnect all conductors in a building or structure from the service entrance conductors. The disconnect shall be an external disconnect installed immediately adjacent to the meter locations.
 Switch boards and panels shall comply with NEC Article 408
5. Service conduit Schedule 80 sunlight resistant PVC (8' long min). Size conduit per wire size installed. Secure conduit to pole @ 30' o.c.
6. Load side conduit, Schedule 80 sunlight resistant PVC. NEC 300.50. Size conduit per wire size.
7. Conduit access fitting (optional). Install approved fittings and bushings.
8. Service cables shall be equipped with rain tight service head. NEC 230.54
9. Insulated wire of appropriate size (leave 16" out of weatherhead for drop loop by Power Co)
10. Clearances—NEC 225.18 & 225.19
 - a. 10' at the electric service entrance to buildings, and above areas or sidewalks where voltage does not exceed 150 volts.
 - b. 12' over residential property and driveways where the voltage does not exceed 300 volts to ground.
 - c. 15' over residential properties and driveways where the voltage exceeds 300 volts.
 - d. 18' over public streets, alleys, roads, parking areas subject to truck traffic, driveways on other than residential properties.
 - e. Conductors shall have a vertical clearance of not less than 8' 6" above roof surfaces.
11. Contact the local power company for specific utility company requirements. Commercial equipment is required to be preapproved by power company.