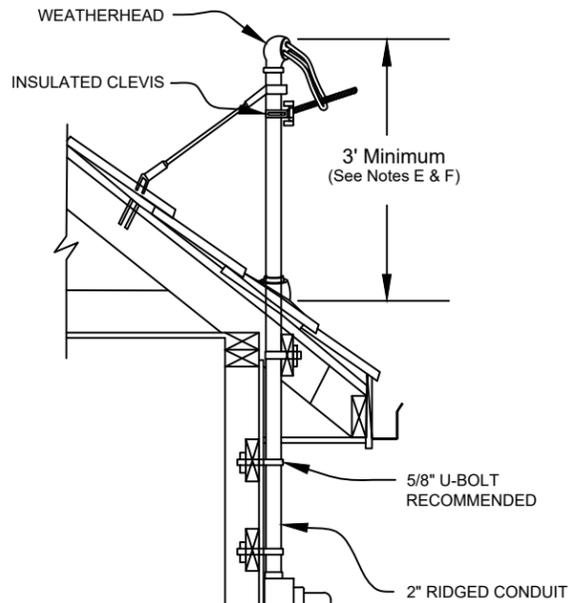
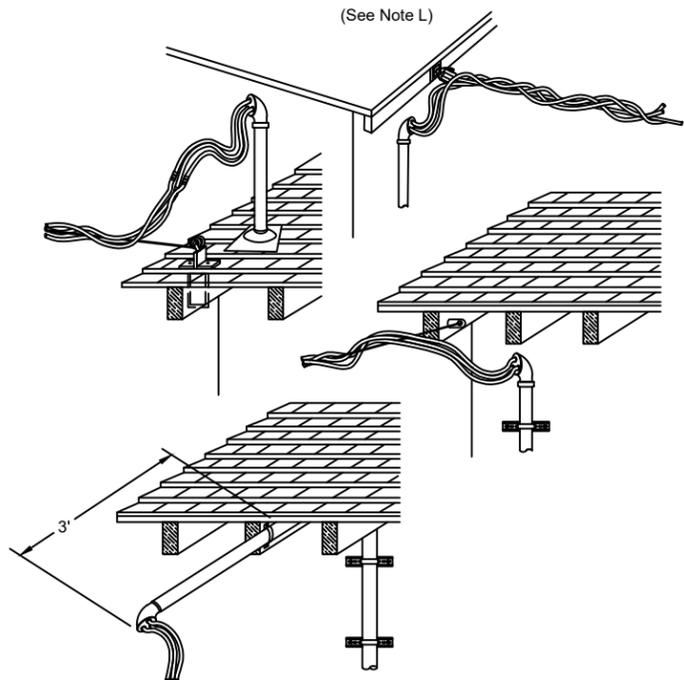


**SERVICE MAST GUYING
EXAMPLE**

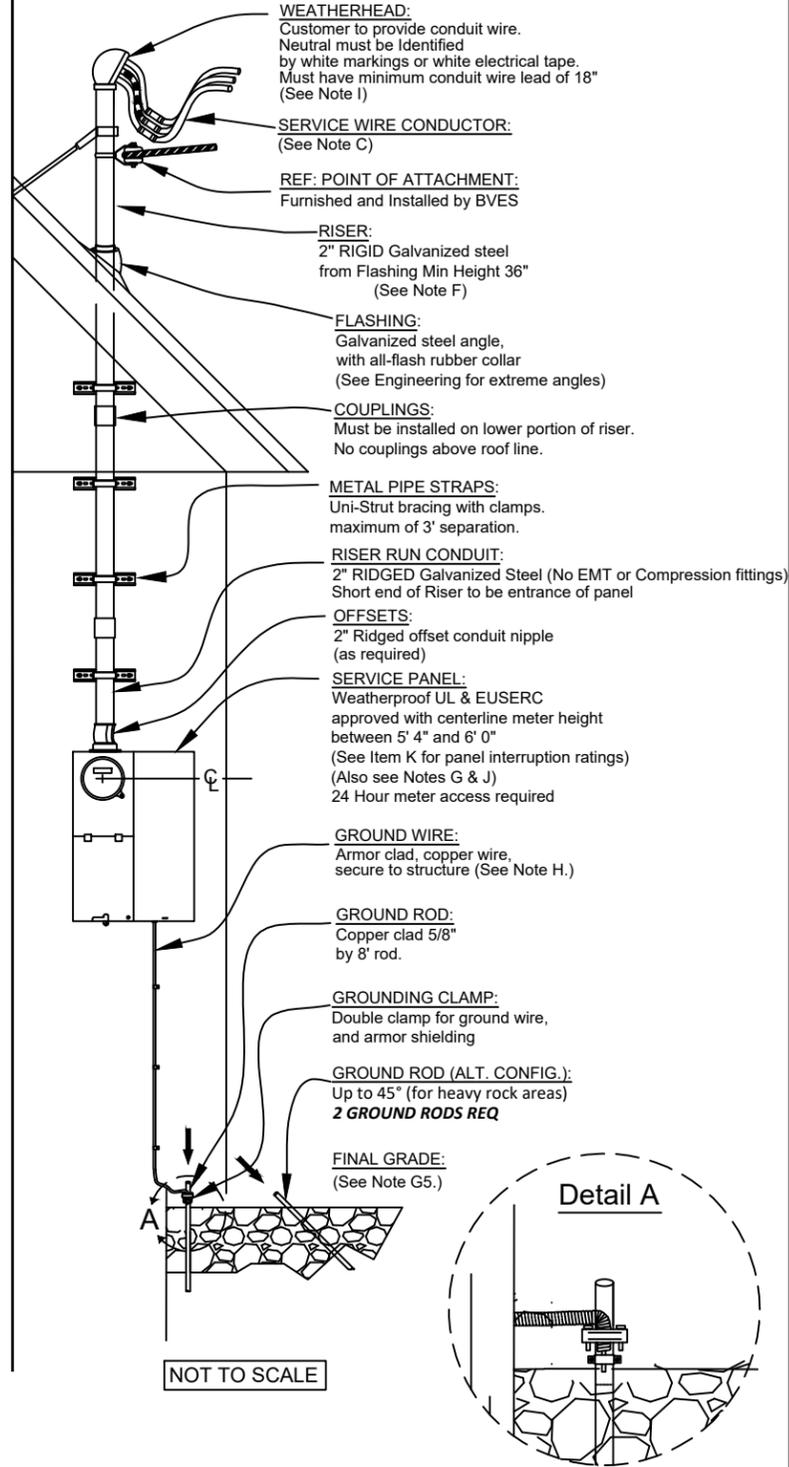


BVES does not allow any foreign attachments to the riser.

ALTERNATE MAST CONFIGURATION EXAMPLES



**PERMANENT OVERHEAD SERVICE
EXAMPLE**



NOT TO SCALE

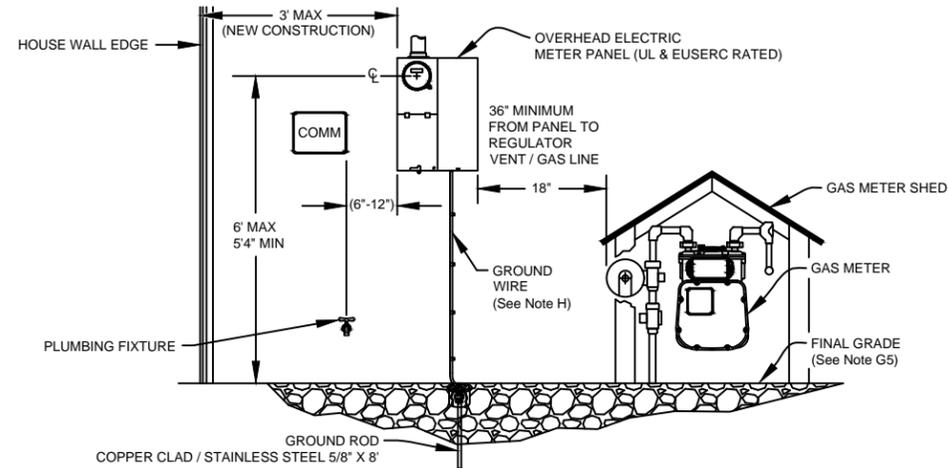
**Minimum Requirements -
Permanent Overhead
Service**

- A.) A "Preliminary Service Request" is mandatory on all new services, and panel upgrades.
A BVES Engineering Representative must pre-approve and provide a Preliminary Service Request Response letter which will include a confirmation number and instruction on requirements that will need to be met in order to complete the panel upgrade request.
The response will indicate an approval or a pending status.
Please refer to BVES Inc. Engineering representative to understand requirements.
All panel upgrade request are valid for 6 Months upon the month of submission. After 6 month time period a re-submission will be required
Always contact BVES to arrange for a meter spot.
 - B.) Meter shall be located on an exterior wall, facing, or at an angle to the utility pole line. Not to exceed 3' from the nearest corner. Location is subject to approval by a BVES Engineering representative.
 - C.) Facilities to be installed by customer include the meter panel, grounding, min. 2" rigid steel riser, weatherhead, and service entrance conductor wire (needs to be extended a min. of 18" out of weatherhead).
 - D.) Property address must be on home and clearly visible from roadway
- MINIMUM WIRE SIZES: (Residential)**
- 1.) 100 amp panel - #4 copper or #2 aluminum (Insulated) 600 Volt Rating
 - 2.) 200 amp panel - #2/0 copper or 4/0 aluminum (Insulated) 600 Volt Rating
- BVES will install the service drop, meter, and connection at the weatherhead.
See NOTE (d)
- D.) Inspections and Permits must be obtained from the following agencies, depending on service location:
City of Big Bear Lake
39707 Big Bear Blvd
Big Bear Lake, CA 92315
(909) 866-5831
or: County of San Bernardino
477 Summit Blvd.
Big Bear Lake, CA 92315
(909) 866-0170
- It is the customer's responsibility to notify and supply BVES with an Electric Service Release before service can be connected.
No Exceptions
- IMPORTANT NOTE:**
There may be a delay to bring in a service connection after receiving an Electric Service Release Reconnection and new connections are tentative to weather conditions, crew availability, existing work load, hours of operations, emergencies etc...
Contact BVES Inc. customer service in the event of a delayed connection scenario.
- NOTE:(d)** Under no circumstances will service drop or meter ring be cut and or removed by any individual other than BVES Inc. qualified team member. Any disconnection completed without BVES Inc. knowledge will be considered a tamper and disconnected.
An Electric Service Release must be on file in the event of a tamper in order to restore service to the property.
Upon the discovery of a tampered service in the eyes of BVES Inc. will be viewed as a safety hazard since the Governing Building and Safety Department has not reviewed the site.
Additionally in the event that an Electric Service Release was submitted but service was disconnected by customer/contractor. BVES Inc. has the right to disconnect service until BVES Inc. specifications have been met.
Both BVES Inc. and local agency specifications, standards, and guidelines will be applied in a service upgrade
- E.) BVES requires a 2" min. rigid galvanized steel riser extending through roof at a minimum height of 36"
Due to snow load conditions this riser will exceed NEC requirements.
No Junction boxes and or pull sections will be allowed for a riser installation.
 - F.) Risers will be at a height of 36" from flashing using a 2" Min Rigid galvanized steel
All new and repaired riser will require bracing to be installed regardless of the height of riser and lead length of a service.
(See Guying Specifications on the the next page.)
 - G.) Minimum clearance required (other):
1.) **Min. meter height, to be between 5'4" & 6'**
above ground (middle of meter).
2.) 36" service drop radius clearance is required around around all windows.
3.) Above any walkable surfaces, (patios, decks, walkable roofs, stairways) a min. of 8' vertical clearance is required, and 12' over driveways.
4.) A walkable roof will be considered at any roof less than 4 and 12 as defined in NEC 230.24 A
5.) **Min. of 3' radius clearance** (around weatherhead), above the top of doorways.
6.) Min of 18" from Chimney, heat vents, and or exhaust ports.
(Top of weather head and connection points)
7.) Maintain a 3' clear, level, and unobstructed workspace in front of electric service equipment.
 - H.) BVES Grounding Requirements:
BVES requires, in addition to NEC, **Two** grounding conductor and ground rods. both shall be covered with PVC Cover and access lid
Residential Grounding conductor is to be:
100 Amp - #6 Copper (shielded)
200 Amp - #4 Copper (shielded)
400 Amp - 1/0 Copper (shielded)
For any panel larger than 200 amps, contact BVES Engineering Department.
1.) **Maximum service height to be 23' to the top of the weatherhead on level terrain**

NOTE: BVES requires that access to the riser be maintained at all times and exceptions must be approved by a BVES Engineering Representative
 - J.) Temporary jumpers and meter rings must be removed from service panel prior to service installation.
Contact BVES Engineering Department or Operations for any situation that exceeds these requirements.
 - K.) BVES follows the County of San Bernardino specifications for electrical panel interrupting ratings:
(See Short Circuit Current Table.)
 - L.) BVES Inc. provides a single service attachment per a Properties APN
For multiple meter request, and or ADU request scenarios all meter sections shall be installed with a single riser at a panel with the capability to house any additional meter.
Please speak with BVES Inc. engineering representative to understand process further
All points-of-service drop attachments shall be on the wall, roof edge, verge, or exterior frame member nearest and facing the BVES pole line.
The service head, wherever practicable, should be located one foot above the level of the point provided for service drop attachment.
(see alternative mast guying examples diagram).
Drip loops and connections shall be formed below the service entrance weatherhead to prevent the entrance of moisture into the service conduit.
Please Note: For service requirements that exceed these standards, please contact a BVES Engineering Representative.

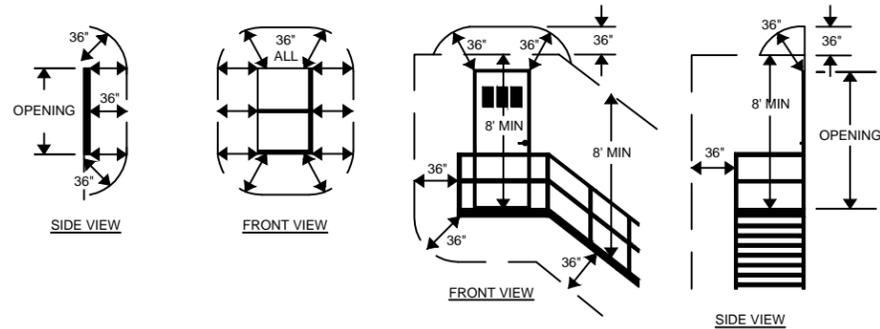
For Disconnection procedures and General overview of steps to proceed in a panel upgrade please visit www.bvesinc.com/construction/procedures

GAS AND ELECTRICAL METER CONFIGURATION

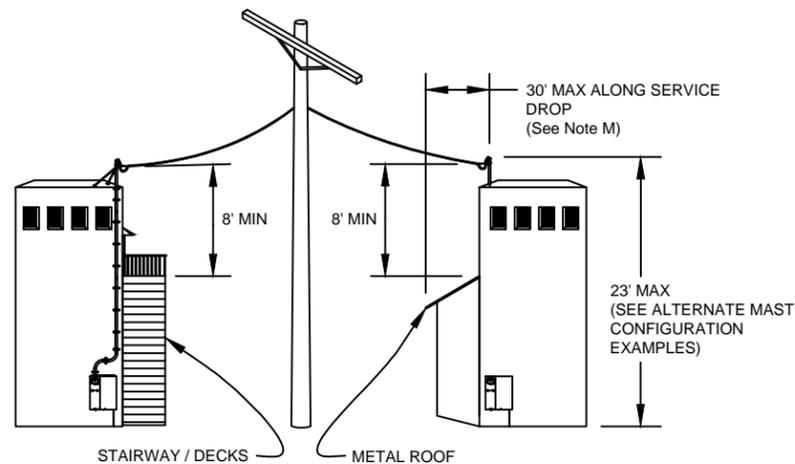


- NOTES:
1. Size and dimensions of panels will vary. Drawing not to scale.
2. This Drawing Pertains to both overhead and underground electric service applications.

SERVICE CLEARANCE DISTANCE MINIMUMS FOR DOORS, EXITS, WINDOWS, AND FIRE ESCAPES



COMMERCIAL MINIMUM SERVICE HEIGHT REQUIREMENTS:



GUY BRACING SPECIFICATIONS:

Stiff leg guying is acceptable.
Example: 3/4" ridged, or EMT braced to Riser and roof.

NOTE: Service Mast Height will be decided within Preliminary Service Request Response letter

SHORT CIRCUIT CURRENT TABLE

SERVICE	PHASE	SERVING VOLTAGE	SERVICE ENTRANCE AMPACITIES	UTILITIES CONTRIBUTION TO FAULT CURRENT WILL NOT EXCEED
Residential	Single	120/240	600 or less	10,000
Commercial	Single	120/240	600 or less	42,000
Commercial	Three	120/208 or 240	800 or less	42,000
Commercial	Three	480	1200 or less	30,000

Exceptional Cases:

When the application of the above fault current limitation appears too restrictive for new installations, the customer may request the utility to provide the available fault currents for a specific case and location.
All new installations with service voltage or service entrance ampacities larger than those stated above will be handled as individual cases, and BVES Engineering will provide the available fault duty for each installation.

NOTE: Short circuit table for reference only any service over 200 Amps will need to follow the underground specifications guidelines and requirements. Overhead construction not to exceed 200A

RESIDENTIAL MINIMUM SERVICE HEIGHT REQUIREMENTS:

