

Bear Valley Electric Service

P.O. BOX 1547 42020 GARSTIN DR BIG BEAR LAKE, CA. 92315
A Division of Golden State Water Company

Telephone (909) 866-4678

Engineering: Ext. #142

Trench Inspection, Service Connection & Scheduling: Ext. #161 or (909) 744-4729

GENERAL NOTES FOR UNDERGROUND SERVICE

- A. Rights of Way-** All grants of easement for right of way required on private property will be provided upon request.
- B. Ownership-** The property owner will continue to own, repair, or replace as necessary, all service conduits on their property. BVES will own and maintain the service conductor and meter.
- C. Survey-** Surveying of street improvements, property corners, lot lines, finished grade, etc., necessary for the installation of underground utilities must be completed and markers or stakes placed prior to the start of the electric installation.
- D. Permits-** Where trenching is to be provided by the builder, he or she shall secure all necessary excavating permits.
- E. Grading-** Work areas along buried routes shall be cleared and finish grade provided prior to cable placement.
- F. Trenching and Backfilling-** (All trenching to be provided by builder)
- 1. Trench Requirements:**
- a) Width-** 12" minimum.
 - b) Depth-** Uniform and a minimum of 42" below finished grade.
 - c) Location-** Unless otherwise specified, the center line of trenches that parallel rear property lines will be offset 4' from the property line. Trenches adjacent to front property lines, in parkways, streets, or elsewhere shall be located as shown on the drawings. No deviation from the planned trench routes will be permitted unless approved by an Engineering Representative.
 - d) Maintain Clean Trench-** The builder should provide sufficient help during the period of conduit installation to maintain a clean trench, free of rocks and other debris. All open trenches should be barricaded.
- 2. Backfilling:**
- a) Scheduling-** Backfill in trench bottom must be placed prior to conduit placement and covering. Backfill shall be placed as soon as possible after conduits have been installed in order to prevent damage to the conduit.
 - b) Materials-** Rock free earth and sand must be used to backfill around facilities and to provide a covering at least 12" thick above them. Material capable of passing through a ½" mesh screen shall be considered "rock-free." Above this, no rock larger than 6" in diameter is allowed.
 - c) Compaction-** Backfill material shall be compacted in accordance with the requirements of the local governing agency and in a manner that will not damage the conduit or cause settling after completion of work.
- G. Retaining Walls-** Retaining walls shall be provided by the builder to protect pedestals and other equipment. Walls are required in all slopes or areas subject to erosion. Design and installation must comply with local building ordinances and BVES requirements.
- H. Conduit-** This information is for runs of 100' or less. Runs longer than 100' must be approved by an Engineering Representative.
- For service panels:
- 100 amps- 2" conduit
 - 200 amps- 3" conduit
 - 400 amps- See Engineering Representative
- All residential buildings will require entrance conduit sized above. All conduit is to be provided by the builder.
- I. BVES follows County of San Bernardino's specifications for electrical panel interrupting ratings:**
- 10k Amps AIC 120/240- Residential Service- 1 Phase
 - 42K Amps AIC 120/240- 120/208 Commercial Service
 - 30k Amps AIC 277-480- Commercial Service- 3 Phase
- J. Phone and Cable TV Requirements-** The drawing prepared for this job may also cover the facilities to be installed for phone and cable TV utilities. Any questions concerning details of their installation should be referred to the company concerned.
- K. Coordination and Supervision-** The builder shall provide supervision over, and coordination between, the various contractors in order to prevent damage to electrical and other utilities.

Note: *Unless otherwise specified on the drawings, which forms a part of this specification, the builder shall furnish the preceding items at no cost to BVES. This is in accordance with the procedures and schedules which shall be mutually agreed upon by the field representative of the builder, BVES, and any other utilities who may be involved in the project.*