BC 1 CALL

Electronic Mapping

CONVERSION REQUIREMENTS

To facilitate the implementation of electronic mapping into the One Call software please ensure your submission includes the following information:

PROJECTION

Is the equation used by a coordinate mapping system. The most commonly used projection is UTM – Universal Transverse Mercator. If your mapping system is utilizing a custom projection please ensure that all specifications have been submitted.

(Universal Transverse Mercator = UTM EG: NAD 83 for Canada - UTM – Zone 10)

ZONE

The province of BC is within zones 10 and 11.

DATUM

The starting coordinate. The datum formats used in Canada are NAD27 (North American Datum) and NAD83 (most commonly used).

The following information, although not a requirement, may be beneficial:

SCALE & UNIT

The applicable mapping scale and unit of measurement (meters, feet, inches, etc.)

Click or call before you dig.

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The following information defines the One Call mapping system requirements:

The data in BC 1 Call's database is used to determine when a member company will be notified of ground disturbance. The format accepted by the BC 1 Call system is GIS shape file format. The shape files represent the locations of the member company's underground infrastructure. Whenever the mapped dig site on a locate request overlaps with the locations in the GIS shape file, the member company is notified.

For BC 1 Call's system to accurately import the shape files, the following requirements must be met:

1. The shape file submission is always a complete replacement of the current data.

2. All data is included in one shape file set. If the member company's registration is split between multiple Station Codes, the data will consist of one shape file set per Station Code. There cannot be multiple shape files per Station Code.

3. The shape file set must be made up of one of the following file types:
   - **a.** .PRJ, .SHP, .DBF, .SHX; or
   - **b.** .DAT, .ID, .MAP, .TAB

4. The geographic coordinates use Projections of the World, EPSG 3857

5. The shape file set must contain polygon data, not line data. The polygon data includes a buffer zone applied around the lines. The buffer zone represents the notification area.

Example: If the member company would like to receive locate notifications whenever there is ground disturbance within 40 meters from the center of the line, a 40 meter buffer is added around the line data creating an 80 meter wide polygon.

For further information about shape file data, email support@bc1c.ca.