



Thank you for purchasing a leak detection reference map. This map will help you locate leaks quickly and efficiently. We're excited to work with you to help you finalize your customized reference map.

Before you attempt to map your facility make sure your leak detection monitoring area is completely assembled - all of your leak detection equipment should be in place, tested, and functional.

#### What information does RLE need to create a reference map?

A map can only be as accurate as the information provided, so be thorough. The more points you map, the easier it will be to find a leak. Mapping a facility correctly can be time consuming. It can take 30-60 seconds to map one point – so it can take up to 2 hours to map 5,000 feet of cable.

Start with a map of your facility. You can draw an electronic map yourself or RLE can create maps from pencil sketches or mechanical drawings you provide. Typically, users start with an AutoCAD or Visio diagram of their facility and hand sketch their leak detection system on top of the printout of their electronic map. If you have an electronic version of your facility diagram, sending us the original electronic file may expedite our map creation process. Make sure your diagram includes the following elements:

- Room layout** - Include room dimensions and locations and measurements of doors, walls, equipment, and other objects in your facility.
- Tile layout** - If your facility has a raised floor, indicate the locations of the tiles. If a leak occurs, this will make it easier to locate since you can count tiles from a reference point.
- Leak detection controller** - Designate the location of your leak detection controller.
- Non-sensing cable routing** - Indicate the layout of any non-sensing cable. If the sensing cable does not start directly at the controller, the non-sensing cable running between the controller and the start of the sensing cable must be identified.
- Leak detection sensing cable routing** - Note the exact, actual route of the leak detection cable. If floor tiles are shown, be sure to draw the cable routing under the correct floor tiles. This helps make the map more accurate and makes it easier to find the leak.
- Mapped points along the sensing cable** - Follow the mapping directions in your leak detection controller's user guide. Identify each mapped point on the cable layout with an "X" or an arrow along with a number representing the distance to that point. Designate if your measurements are in feet or meters. How many points should be mapped and how far apart should the reference points be? It depends! Keep in mind that the points are used to assist the user in locating the leak. In general, map the following points:
  - The beginning of the cable run.**
  - The location of each cable connection** - Identifying the connectors is helpful if you should need to isolate and troubleshoot sections of cable. If you ever need to replace a section of cable, knowing where the connectors are will make the job much easier.
  - Every time the cable makes a 90 degree turn, and every time the cable changes direction.**
  - At locations of possible water sources** - CRAC units, drains, rest rooms, etc. If you have several turns in the cable to route the cable around a CRAC unit, it's okay to map just one point instead of noting every turn.
  - If you have a long straight run of cable, map a point at least every 25 feet along the length of the cable** - It is often helpful to map points near a column, water source, door or other object that is easy to reference on the framed map.
  - Weighted cable connectors** - Note the location of each WCCS-50.
  - X-Connectors** - Note the location of each X-CON.
  - End of line terminator** - Identifying the end of the cable run helps show the complete leak detection system.

Once you've completed the preliminary map, email it to [services@rletech.com](mailto:services@rletech.com). We'll convert your information to a polished, electronic format and send it back for your approval within 10 business days. Communicate any changes you'd like to see. We'll edit the map and return it for your approval. If the mapping instructions are not received and the map is not approved within 12 months of the PO date, the order will be closed.

Once it's finalized, we will print out two high-resolution maps and mail them to you. We will also email you a .jpg version of the map so you can upload it to your leak detection controller (integrated mapping is available on the LD2100 and LD5200 leak detection controllers - refer to the user guides at [www.rletech.com](http://www.rletech.com) to learn how to upload and plot points on your interactive map). Any changes requested after the final approval of the map will be subject to an additional charge.

