

LINE ALERT™

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LINE ALERT™ in Action A Guide to Safe Line Crossing Excavation

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Notice

The following job site photographs are intended to demonstrate how the LINE ALERT Panel can be used to assist in the safe excavation of an underground utility. **As always, KeiBerg must stress that the LINE ALERT Panel only be used by trained and certified operators, and that all local and job-site specific safe work practices be adhered to.** The LINE ALERT Panel, when used properly, is a tool that will significantly reduce line strikes when underground utilities are being excavated, but **it is not a replacement for safe work practices.**

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Following the potholing/daylighting of the line and the proper inspection of the LINE ALERT Panel, the Panel is placed into the Insertion Tool and the yellow marker tape is attached. The LINE ALERT Panel is now ready for installation.



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Using the Insertion Tool with the Panel properly installed, the Tool is inserted into the potholed/daylighted hole. Note that the saddle tabs at the bottom of the Panel are folded out to ensure that the Panel will be held in place when the hole is backfilled, and that the tape is run up the Insertion Tool handle to reach the surface and be visible after backfilling.



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Once the Panel is seated on the line with the saddle tabs extended outward, the hole is slowly backfilled by hand until the dirt reaches the top of the Panel/top of the Insertion Tool head. A firm tug will disengage the Insertion Tool from the Panel, leaving the Panel securely in the ground on the line. Backfill the rest of the hole by hand, leaving the Line Alert Installed tape above ground. A wooden stake should be hammered into the ground to provide additional evidence of the installation of a LINE ALERT Panel at that location.



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Using required excavation practices, typically involving a track-hoe or other excavator, digging begins centered at the LINE ALERT installed tape. Excavation should proceed with caution (for example, in four inch increments). The LINE ALERT Panel will initially be struck in the GREEN (36" – 25" Markers) section. The portion of the Panel that is above the strike line will shear off, leaving the balance of the Panel in the ground as a guide for further measured excavation down to the buried utility. This image shows the exposed GREEN section of the Panel.



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This close up image shows the clear indication of the sheared off GREEN section of the LINE ALERT Panel.



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As excavation continues with four inch increments being removed, the YELLOW section of the LINE ALERT Panel (24" – 13" Markers) will be contacted and exposed.



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This close up image shows the clear indication of the sheared off YELLOW section of the Line Alert Panel, with YELLOW 17" Markers exposed. This means that, at this point, you are 16" from the underground utility. **How deep you continue excavating should be based upon the safety guidelines that are specific to your job. However, KeiBerg recommends that you always stop excavating before the RED section of the Panel is contacted.**



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This close up image shows the exposure of the RED section (12" – 1" Markers) of the LINE ALERT Panel just below the YELLOW Marker section. This pass of the bucket sheared the portion of the Panel between 11" (RED) and 14" (YELLOW). **This represents excavation closer to the buried utility than is recommended by KeiBerg, and is illustrated here strictly for demonstration purposes.**



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The last step, as with any traditional line crossing excavation, is the exposing of the underground utility using hand digging.



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Final Notice

THESE IMAGES REPRESENT THE GENERAL PROCESS REGARDING USE OF THE LINE ALERT PANEL AND ARE PROVIDED FOR DEMONSTRATION AND REFERENCE PURPOSES ONLY. KEIBERG STRONGLY RECOMMENDS THAT YOU ALWAYS FOLLOW AND COMPLY WITH ALL APPLICABLE SAFE WORK PRACTICES AND PROCEDURES APPLICABLE TO EXCAVATIONS (ESPECIALLY THOSE THAT RELATE TO BACKSLOPING OR SHORING RECOMMENDATIONS THAT VARY DUE TO SOIL TYPES) AND MARKING STANDARDS FOR UNDERGROUND FACILITIES.



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