

PREFORMED DETECTOR LOOPS

| Product | Manufacturer |
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| Model HDR (#16 wire) | DE-TECH Mfg. P.O. Box 890 Silverton, Oregon 97381 |
| Model F-38 (#20 wire) | Never Fail Loop Systems 7911 NE 33 rd Drive, Unit 160 Portland, Oregon 97211 |

Method of Documentation of Acceptance: By brand and manufacturer.

Requirements of Preformed Detector Loops: The manufacturer will supply a sample along with recommended installation procedures to the Materials Division. The preformed detector loop shall be constructed of #20 AWG (minimum) stranded copper wire, encapsulated in a flexible sealant inside a reinforced 250 psi (1724 kPa) rubber hose or approved tubing. No wire splices will be allowed in the loop assembly. Hose for the loop and lead-in shall be one continuous piece except for the required tee connectors. Encapsulated wire shall have two (2) turns for loops with a perimeter greater than 40' (12 m); or three (3) turns for perimeter less than or equal to 40' (12 m). Quadrupole loops shall be two turn (2-4-2) configuration.

The manufacturer will recommend a detector loop trench filler material and/or sealant for use with the detector loop. The recommended material shall be able to repair asphalt and concrete pavements and not require removal and/or replacement if the pavement is to be overlaid. Where surface is not to be overlaid, the recommended sealer shall be capable of backfilling the preformed loop trenches as needed to a minimum depth of 3/8" (10 mm). The recommended material shall have a minimum settlement period of 14 days prior to each backfill application.

The manufacturer's recommended installation procedures shall be provided with each shipment of preformed detector loop to a Department project.