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## INSTALLATION PROCEDURES FOR MODEL HDR PREFORMED LOOPS

### Asphalt overlay:

A minimum compacted lift of 2" is necessary to pave loops in. Place the loop in the road, then secure the loop at the corners with straps and nails or asphalt tape. Tape the loop and lead-in every 3-5 feet. We recommend that some asphalt be shoveled over the loop at least on the leading edge to prevent shoving with the paver, as well as wherever the paver tracks will run over the loop. If the whole loop is covered with shoveled asphalt, no taping or strapping is necessary. If paving depth is minimal, cover the entire loop with asphalt tape to avoid reflective cracking. Ideally, the loop should be placed in the gravel subbase and covered with gravel, then paved over. Loops installed in gravel subbase can be scratched in to the gravel at any depth. The loops are designed to withstand compaction after installation in the gravel. Loops can also be saw cut in to existing asphalt if overlay depth is insufficient. Loops installed in this manner can be placed in a  $\frac{3}{4}$ -1" deep slot, just enough to get the loop below existing surface.

### PCCP Concrete:

Loops can be secured to the rebar wherever it crosses, using plastic tie-wraps, then simply run the lead-in underneath the rebar into the j-box or hand hole. Loops should be secured at least every 12-18". We have found that loops installed to a depth of 14-16" in this manner function normally. The loops can also be secured to an existing roadbed using conduit straps or asphalt tape and then concrete can be poured over the loops.

### Saw cut:

Mark loop size with a jig, then cut three legs of the loop out. Two of the legs cut shall be where the tee will be placed. Then put the loop in to the slots and pull out to determine the placement of the last saw cut leg. The saw cut needs to be  $\frac{3}{4}$ " to accommodate the HDR loop. Chip out the corners to ease the installation of the loop. **DO NOT PRY THE LOOP INTO SLOT.** Prying the loop may damage the wire inside the loop. We recommend using a hot melt sealant to fill the slot. Do not use a sealant that is too soft, as this will not provide adequate support for the saw cut walls.