1. Loop detectors wire to lead-in cable splices within the encapsulated splice enclosure shall be soldered.

2. If a pullbox is not specified in the plans, the waterproof splice enclosure shall be located in the first enter pole or pedestal, except if the controller cabinet is mounted on that pole or pedestal, in which case the loop wires shall be routed directly into the cabinet.

3. The enclosure shall not contain visible air bubbles (voids) greater than \( \frac{1}{4''} \). The Contractor shall replace all splices that do not meet this criterion.

4. Loop detector wire to lead-in cable shall be routed into the cabinet. If the controller cabinet is mounted on that pole or pedestal, the loop wires shall be routed directly into the cabinet.

5. Slot sealant shall be located in the first entered pole or pedestal, except if the controller cabinet is mounted on that pole or pedestal, in which case the loop wires shall be routed directly into the cabinet.

6. Loop detectors wire in tubing shall be as specified in CMS Table 732.19-1.

7. Loop detector sealant shall be a prequalified product in accordance with Supplement 1048.
1. The drilled hole shall be located as shown above and within the full depth pavement. It shall not be drilled or cut through the paved berm, curb or curb and gutter section.

2. In areas of poor pavement condition, the saw slot depth shall be increased to insure adequate wire embedment. All field adjustments shall be subject to the approval of the Engineer.

TYPICAL DRILLED HOLE LOCATIONS

1. Where multiple loops use a single lead-in cable, series connections shall be used.

2. A maximum of 2 loops (3 series connections) shall be used.

3. Only one set of loop wires shall be run in a saw slot over to the conduit hole location.

4. All adjacent saw slots shall have a minimum distance of 1' between them. No saw slit shall be located within 1' of a longitudinal or transverse joint in P.C.C. pavements if the slot is parallel to the joint.

5. Stop line detector loops shall each be on a separate conduit, 725.04, for one loop or 1' conduit, 725.04, for two or more loops.

6. Splice locations shall be used.

MULTIPLE LOOP LAYOUT

1. All adjacent saw slots shall have a minimum distance of 1' between them. No saw slit shall be located within 1' of a longitudinal or transverse joint in P.C.C. pavements if the slot is parallel to the joint.

2. Stop line detector loops shall each be on a separate detector unit channel to enhance motorcycle detection.

3. Loops shall be centered in lane.
PREFABRICATED LOOP DETAILS

DETAIL "C"  
(Prefabricated Saw-Cut Loops Only)

NOTES:
1. Prefabricated loops are required in all asphalt and non-reinforced concrete pavements. Do not install prefabricated loops in bridge decks.
2. Install prefabricated loops manufactured by Reno A&E, Neverfail, or approved equal.
3. Follow loop manufacturer's installation procedures to locate cylinder hole.

1 1/4" Dia. Hole Drilled to 12" Deep

12" (typ.)

[Diagram of prefabricated loop details]

To Conduit

Prefabricated Loop Cylinder

Drilled Loop Corner Hole

(See Detail "B")

Loop Saw Cut

(See Note 3)

Prefabricated Loop Cable

S C D N U M B E R  
TC-82.10  
TRANSPORTATION ADMINISTRATOR  
STATE OF OHIO DEPARTMENT OF  
07-19-2019  
David L. Holstein