

KERB ENTRY DETAIL (INDUCTIVE LOOP DETECTOR)

SECTION A-A

50mm $\varnothing$ uPVC DUCT
25mm SLOT IN CARRIAGEWAY
LOOP WIRES

SECTION B-B

BLOCK PAVING
SHARP SAND
LOOP WIRES
50mm $\varnothing$ uPVC DUCT TO TYPE 3 CHAMBER
HOT OXIDISED BITUMEN
CARRIAGEWAY LEVEL
STOT CUT IN CARRIAGEWAY
FINE COLD ASPHALT
FINE AGG. CONC.
NEAT SAW CUT
KERB REMOVED TO ALLOW PLACEMENT
FILLED WITH CLASS 1 MORTAR
LOOP WIRE
50mm $\varnothing$ uPVC DUCT
1.5X NO. OF TURNS

STOT DETAIL

CARRIAGEWAY LEVEL
HOT OXIDISED BITUMEN EPOXY RESIN
50
25
1.5mm ANNEALED COPPER WIRE (LOOP WIRE)

Technical drawing showing a typical loop installation carriageway to a Type 3 chamber.

The top part of the drawing is a plan view showing a square chamber connected to a rectangular loop. A section line 'C-C' is indicated.

The bottom part of the drawing is a cross-section 'SECTION C-C' showing the chamber and loop structure. Labels include:

- KERBSTONE
- LOOP FEEDER TWISTED CABLE
- PRECAST TYPE 3 CHAMBER
- 50mm uPVC

Dimensions shown are 475, 100, and 200.

- DIMENSIONS SHOULD BE AMENDED AS NECESSARY FOR THE SPECIFIC DESIGNATION OF THE LOOP.

TYPICAL INDUCTIVE LOOP CONFIGURATION

Diagram illustrating a typical inductive loop configuration. The setup consists of three concentric square loops. A lead-in wire, shown with a coiled section, is connected to the loops. The diagram is labeled with the following text:

- LOOP WIRE
N TURNS FOR
EACH LOOP
- TO
LEAD-IN
CONNECTION

TYPE
CL

TYPE
CL

LOOP

50
T

LOOP AREA m^2 (X,Y)	NO. OF TURNS
0.558 - 1.116	6
1.116 - 1.86	5
1.86 - 5.58	4
5.58 - 22.36	3
22.36 - UP	2

TYPICAL SCATS STOP LINE LOOP INSTALLATION

The diagram illustrates the installation of a stop line loop for a SCATS system. It shows a cross-section of the road and the layout of the loop. The loop is a rectangular area defined by a stop line and a prohibitory line. The loop is connected to a 50 mm UPVC Type 3 duct, which is shown running through a Type 3 chamber (300x300 clear opening) and a Type 3 duct to additional loops. The loop is also connected to a Type 2 chamber (600x600 clear opening). The diagram includes dimensions for the loop (L, Z, X, Y), the duct (50 mm UPVC Type 3), and the chambers (Type 2 and Type 3). A kerbstone is shown at the edge of the road. The stop line is labeled 'STOP LINE TO DIAGRAM 500' and the prohibitory line is labeled 'PROHIBITORY LINE'.

TYPE 2 CHAMBER
600X600
CLEAR OPENING

TYPE 3 CHAMBER
300X300
CLEAR OPENING

LOOP CONNECTION
IN CHAMBER

50 mm UPVC
TYPE 3 DUCT

TYPE 3
DUCT TO
ADDITIONAL
LOOPS

KERBSTONE

STOP LINE
TO DIAGRAM 500

PROHIBITORY LINE

Dimensions: L, L/2, Z, X, Y, 200, 300

TYPICAL LOOP INSTALLATION

The diagram illustrates the typical installation of a loop in a road surface. It consists of two main parts: a cross-section on the left and a plan view on the right.

Cross-section details:

- A **50mm uPVC TYPE 3 DUCT** is shown passing through a **TYPE 3 CHAMBER 30CMX30CM** with a **CLEAR OPENING**.
- The duct is connected to a **LOOP CONNECTION IN CHAMBER**.
- The chamber is situated next to a **KERBSTONE**.

Plan view details:

- The total length of the loop is **L**.
- The distance from the chamber to the start of the loop is **L/2**.
- The loop has a width of **200** units.
- The loop is positioned at a distance **Y** from the kerbstone.
- The loop has a depth of **X** units.
- The loop is located within a **LANE MARKING** area.

Rev.	Date	Revision Details	Appd.

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PROJECTS AFFAIRS

QCS Section: 6 (ROAD WORKS)
PART 16 (TRAFFIC SIGNALS)

Drawing Title:

STANDARD DETAIL INDUCTIVE LOOP DETECTION

Approved: C.BANFIELD	Sheet No: 1 OF 1
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