
Earth

Sensor sealant -

QUARTZ TYPE PIEZO DETAIL

| LEGEND |  |
| :---: | :--- |
| SYMBOL | TYPE |
| $O \square \triangleleft$ | ANPR Camera with pole |
| $\square$ | PTZ Dome Camera with pole |
| $((1))$ | Wireless Antenna |
| $Z$ | Troffic Survey Cabinet |

## NOTES:

1. The piezo sensor is to be ossembled and tested prior to delivery at site. 2. Slots for loops and piezo sensors to be cut using conventional loop cutting or milling type equipment. Under no circumstances percussion type equipment is to be used to form the slots.
2. Slots shall be cut in the pavement surface using a dry cut method and vacuumed clean prior to installation of vehicle sensors.
3. The loops and brass linguini piezo sensor shall be sealed in the slots using PU200 resin.
4. The quartz sensors sholl be sealed in the slots using grouting compound

TYPE 1000
6. Prior to curing, it is preferred that the resin and grouting compound should be stored in on environment around $20^{\circ}$ Celsius. During storet the resin must not be allowed to reach freezing point or exceed $30^{\circ}$ Celsius.
7. Refer manufacturer's instructions for the piezo sensor installation parameters.
8. Loop detector and feeder cables are to be jointed in pits. Each joint to be separately insulated and sealed to prevent ingress of water.
9. The piezo sensor cable is to be joined at the length supplied by the
manufacturer. Multiple joints are not permitted.
10. Where possible, there shall be a minimum 500 mm gap between slots cut
for sensors and tails.
11. Lane numbering for wiM system configuration to follow gazettal, the against-gozettal direction
2. ANPR cameras shall be installed from the trailing piezo sensor ot a distance, height and offset specified by the ANPR camera manufacture
13. The sofety guidelines for roadside objects.
centractor shall consult with the Principal's representative for
orientation, alignment ond focusing of the ANPR camera
Loops sholl exhibit the following characteristics:
Inductance - 100uH to 250 uH
Resistance $-\leq 2.5 \Omega$
Q-factor - ~ 20 @ 40 kHz .
15. All dimensions in metres unless otherwise stated,

ASSOCIATED DEPARTMENTAL DOCUMENTS:
Standard Drawing
Specifications
REFERENCED DOCUMENTS:
Departmental Standard Drawings:
1149 Troffic Signals/Road Lighting/TTS - Installation of Underground Electrical and Communications Conduit
1314 Troffic Signals/Road Lighting - Cable Joining Pit Drainage Details
1424 Traffic Signals - Detector Loops Installation Details
1440 Troffic Signals/Road Lighting - Cable Jointing Pit Rectangular Concrete Surround
1901 ITS - Traffic Survey Cobinet Base Installation Details 1902 ITS - Traffic Survey Surveillance Post Typical Details 1903 ITS - Traffic Survey Surveillance Post Wiring Details
Departmental Specifications:
MRTS203 Provision of Weigh-in-Motion System
MRTS207 Troffic Survey Foundation Equipmen
MRTS250 Provision of Autanatic Number Plate Recognition System


