**NOTES:**

1. The piezo sensor is to be assembled and tested prior to delivery at site.
2. Slits for loops and piezo sensors to be cut using conventional loop cutting or milling type equipment. Wherever no circumstances preclude the use of conventional equipment are to be used to form the slits.
3. Slits shall be cut in the pavement surface using a dry cut method and vacuumed clean prior to installation of vehicle sensors.
4. The loops and brass linguii piezo sensor shall be sealed in the slits using PVA05 resin.
5. The piezo sensors shall be sealed in the slits using grouting compound TYP1022 A.
6. Prior to curing, it is preferred that the resin and grouting compound should be stored in an environment around 20°C Celsius. During storage, the resin must not be allowed to reach freezing point or exceed 30°C Celsius.
7. Refer manufacturer's instructions for the piezo sensor installation procedures.
8. Loop detector and feeder cables to be joined in pits. Each joint to be separately insulated and sealed to prevent ingress of water.
9. Where possible, there shall be a minimum 500mm gap between slits cut for sensors and roads.
10. Lane numbering for WIM system configuration to follow general patterns against geometric direction.
11. ARPP camera shall be installed from the trailing piezo sensor at a distance, height and offset specified by the ARPP camera manufacturer and safety guidelines for roadside objects.
12. The contractor shall consult with the Principal's representative for orientation, alignment and focusing of the ARPP camera.
13. All dimensions in metres unless otherwise stated.

**ASSOCIATED DEPARTMENTAL DOCUMENTS:**

- Standard Drawings
- Specifications

**REFERENCED DOCUMENTS:**

- Departmental Standard Drawings: 1149 Installation of Underground Electrical and Communications Conduit
- 1314 Traffic Signals/Road Lighting – Cable Jointing Pit/Drainage Details
- 1424 Traffic Signals – Detector Loops Installation Details Asphalt Pavement
- 1404 Traffic Signals/Road Lighting – Cable Jointing Pit Rectangular
- 1901 TSDM – Foundation Equipment Cabinet Base Installation Details
- 1902 TSDM – Surveillance Post Details
- 1903 TSDM – Surveillance Post Wiring Details
- WHTS020 Provision of Weight-on-Motion System
- WHTS027 Traffic Survey Data Management (TSDM) Foundation Equipment
- WHTS030 Provision of Automatic Number Plate Recognition System

**WEIGH IN MOTION TYPICAL SITE DETAILS**

**LEGEND:**

- **SYMBOL**: ANPR Camera with poles
- **TYPE**: PTZ Camera with pole
- **Field Cabinet**: 100m HD PVC White Conduit
- **Wireless Antenna**: 2m/1.0m HD PVC White Conduit
- **Cable Jointing Pit**: 2x100m HD PVC White Conduit under road base
- **Traffic Sensors**: 2mm thick HD PVC White Conduit

**INSTALLATION OF CONDUITS AND PITS IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR.**