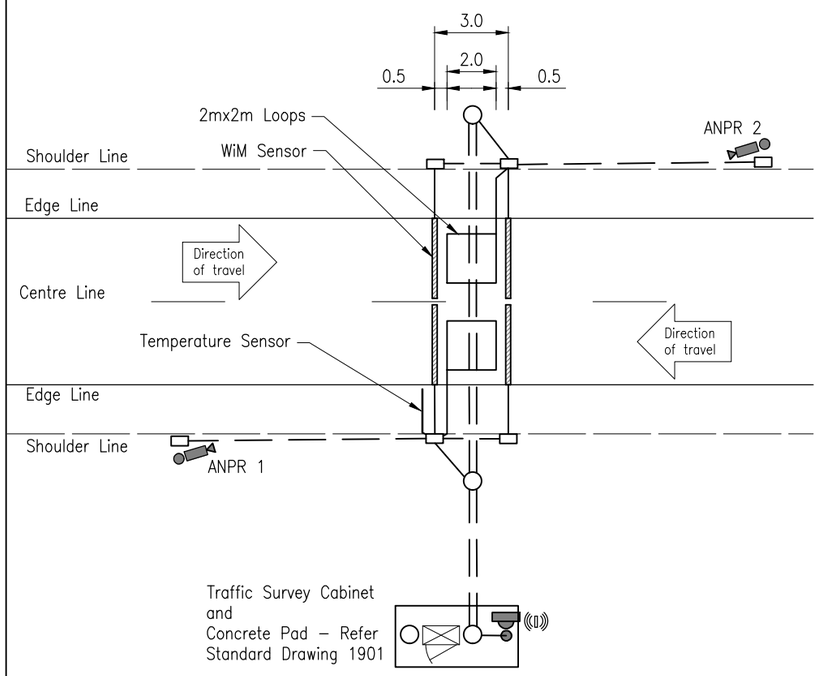
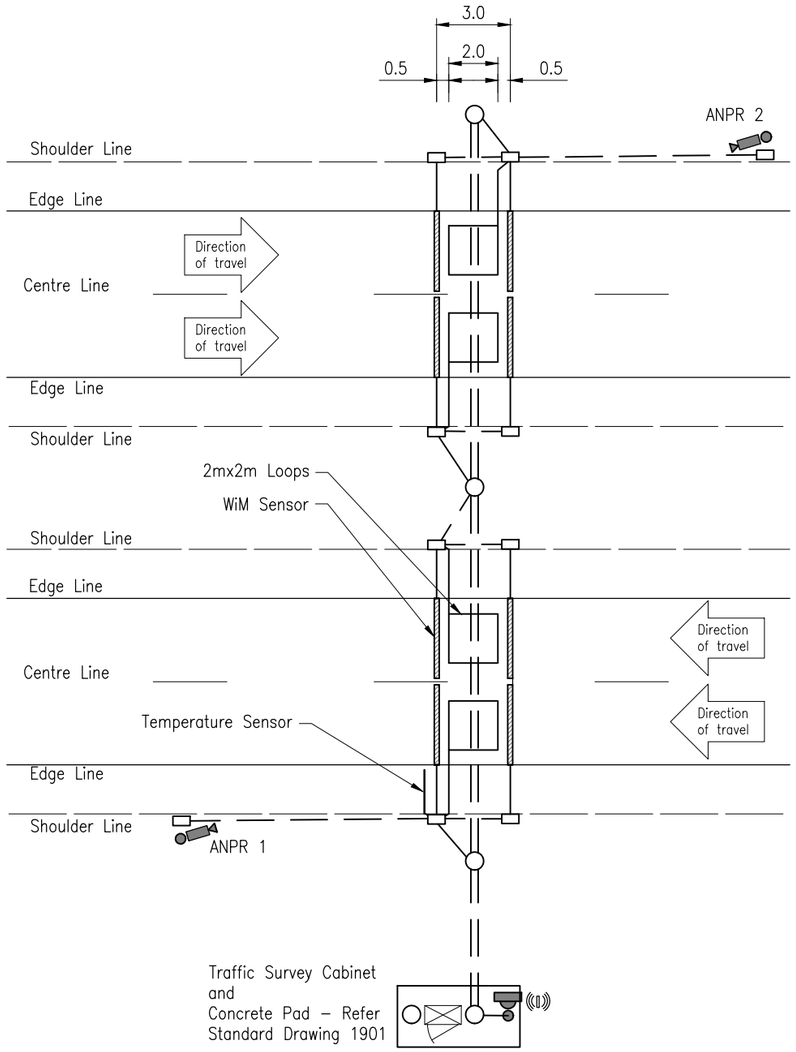
LEGEND

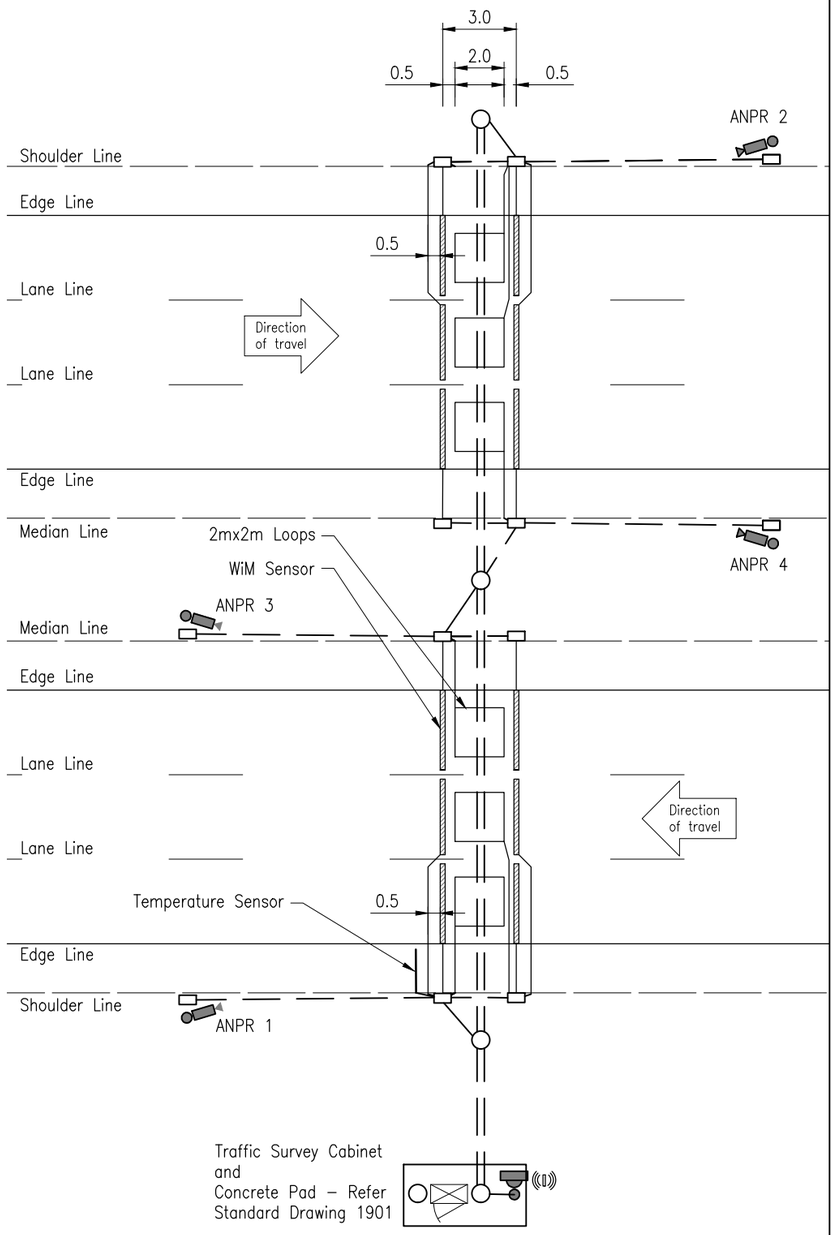
SYMBOL	DESCRIPTION
	ANPR Camera with pole
	PTZ Dome Camera with pole
	Wireless Antenna
	Traffic Survey Cabinet
	Type 4 Pit
	Circular Pit
	1x100 dia conduit (White)
	2x100 dia conduit (White)



PIEZO–LOOP–PIEZO CONFIGURATION
SINGLE CARRIAGEWAY DUAL DIRECTION



PIEZO–LOOP–PIEZO CONFIGURATION
DUAL CARRIAGEWAY SINGLE DIRECTION
2 LANES



PIEZO–LOOP–PIEZO CONFIGURATION
DUAL CARRIAGEWAY SINGLE DIRECTION
3 LANES

REFER TO SHEET 2 FOR CONFIGURATION AND PLACEMENT NOTES

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

Department of Transport and Main Roads

ITS

WIM SENSOR CONFIGURATION
PIEZO–LOOP–PIEZO
SHEET 1 OF 2

Queensland Government

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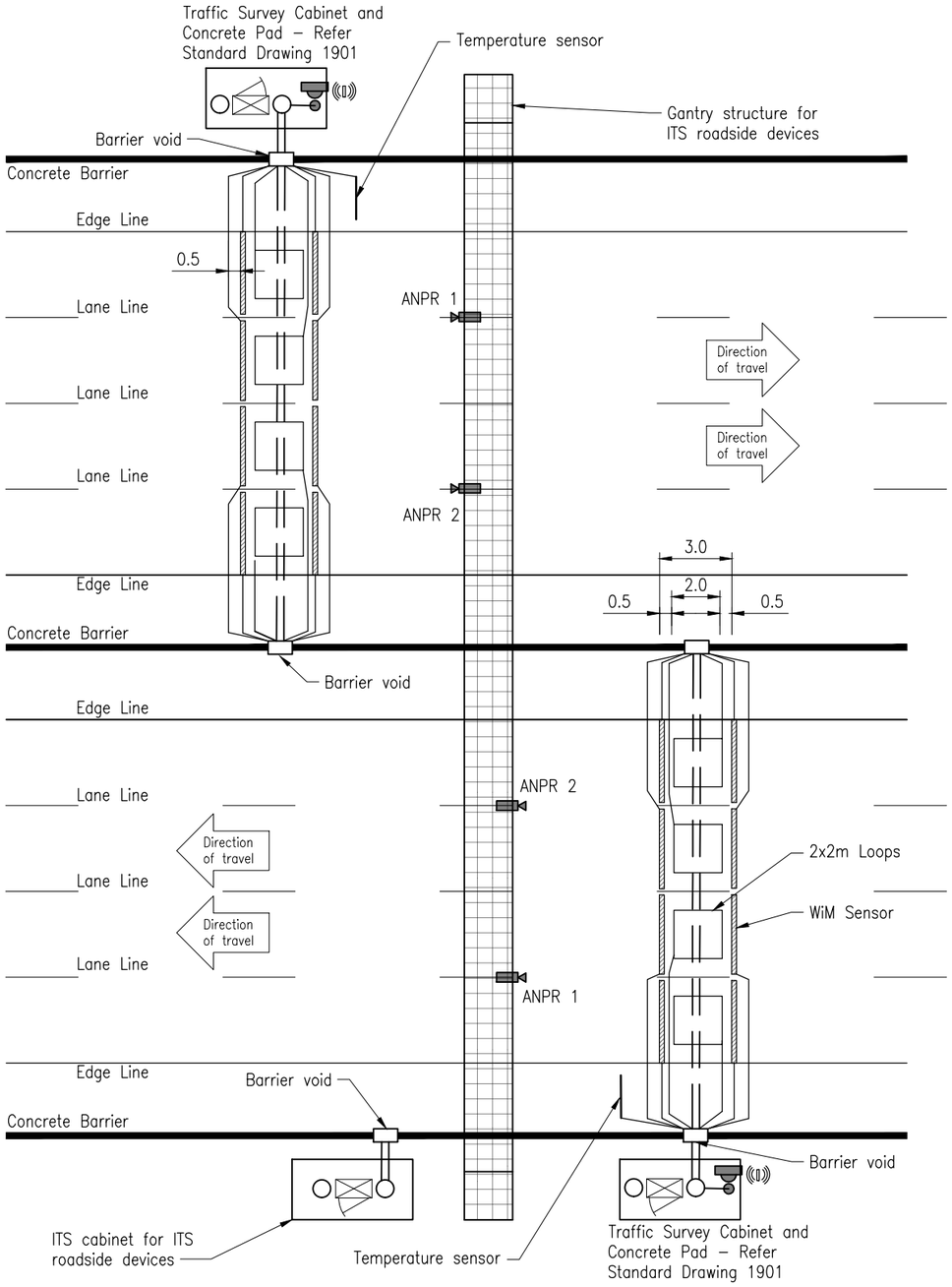
A3

Not to Scale

Standard Drawing No
1908
Date 3/2023

A | B | C



PIEZO–LOOP–PIEZO CONFIGURATION
DUAL CARRIAGEWAY SINGLE DIRECTION
4 LANES WITH GANTRY STRUCTURE

NOTES:

1. The WiM sensor can be either a brass linguini (BL) piezo or quartz piezo sensor
2. The WiM sensor is to be assembled and tested prior to delivery at site.
3. Only 1 Traffic Survey cabinet may be used if the longest sensor cable length is less then 100m, otherwise 2 Traffic Survey cabinets are required.
4. All slots for Loop and WiM sensors shall be cut to nearest pit.
5. Where possible, there shall be a minimum 500mm gap between slots cut for sensors and tails.
6. Loops shall be installed centrally between the lane lines.
7. Loop leading and trailing edges shall be perpendicular to the centre line of the road.
8. Loop shoulder and centre line edges shall be parallel to the centre line of the road.
9. WiM sensors shall be installed perpendicular to the centre line of the road.
10. Separation of leading and trailing WiM sensors shall be 3000mm ± 3mm, measured at the centre of each sensor.
11. Dimensions in metres unless noted otherwise.

ASSOCIATED DEPARTMENTAL DOCUMENTS:
Standard Drawings
Specifications

REFERENCED DOCUMENTS:
Departmental Standard Drawings:
1901 ITS – Traffic Survey Cabinet Base Installation Details
1905 ITS – Traffic Survey Cabinet Typical Details
1906 ITS – WiM Piezo Sensor Installation Details

Departmental Specifications:
MRTS203 Provision of Weigh–in–Motion System
MRTS207 Traffic Survey Foundation Equipment
MRTS250 Provision of Automatic Number Plate Recognition System

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

Department of Transport and Main Roads	
ITS	
WIM SENSOR CONFIGURATION PIEZO–LOOP–PIEZO SHEET 2 OF 2	
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A3	Standard Drawing No
Not to Scale	1908
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