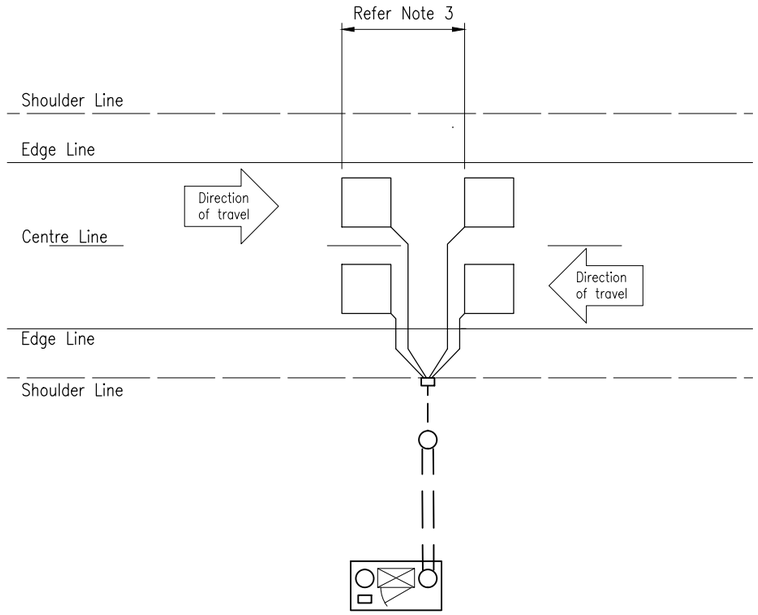
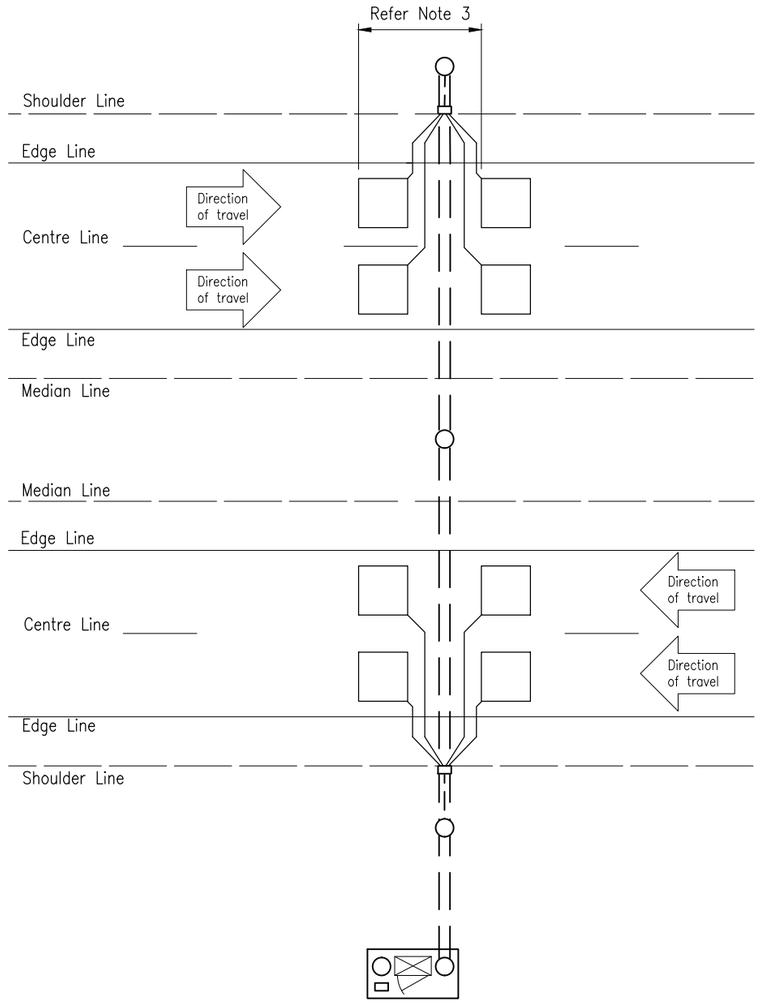
LEGEND

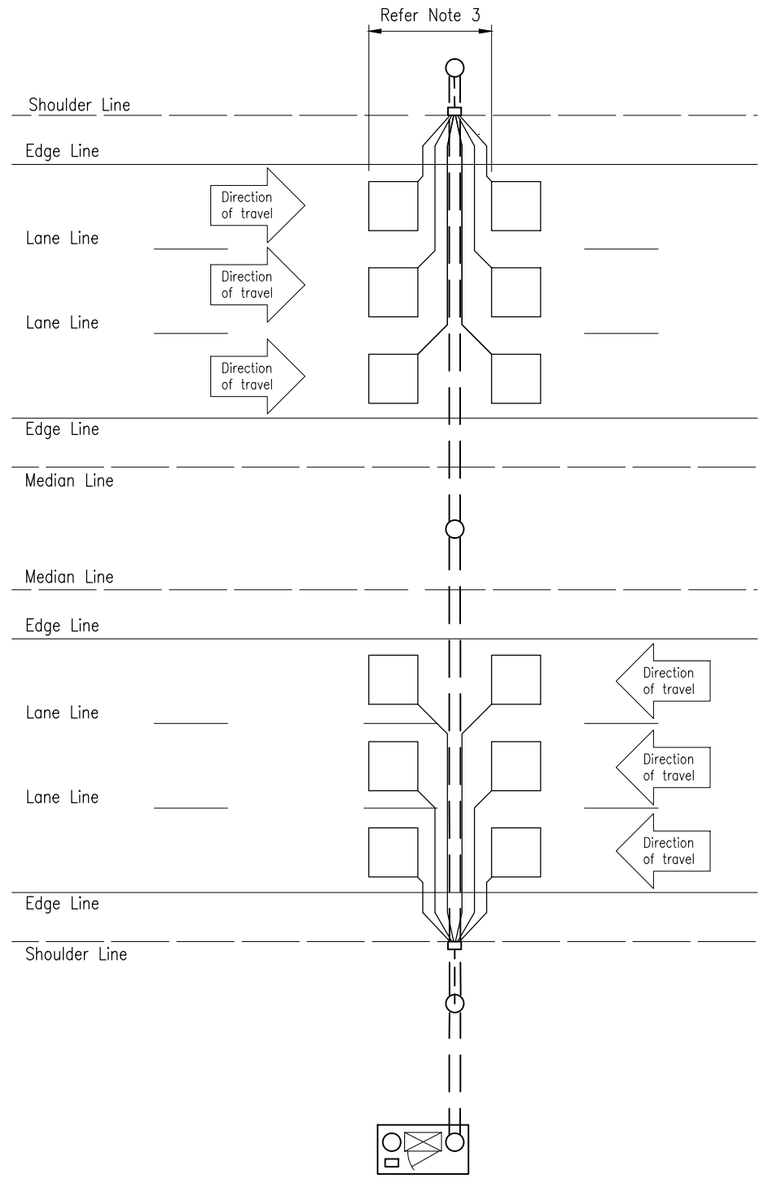
SYMBOL	DESCRIPTION
	Field Cabinet
	Type 3 Pit
	Circular Pit
	2x100 dia Conduit (White)
	Cabinet concrete pad Refer standard drawings 1924 and 1925
	2m x 2m Loop



LOOP–LOOP CONFIGURATION
SINGLE CARRIAGEWAY BI–DIRECTIONAL



LOOP–LOOP CONFIGURATION
DUAL CARRIAGEWAY
2–LANE



LOOP–LOOP CONFIGURATION
DUAL CARRIAGEWAY
3–LANE

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

LENGTH–BASED VEHICLE CLASSIFIER
SENSOR CONFIGURATION
LOOP–LOOP
SHEET 1 OF 2

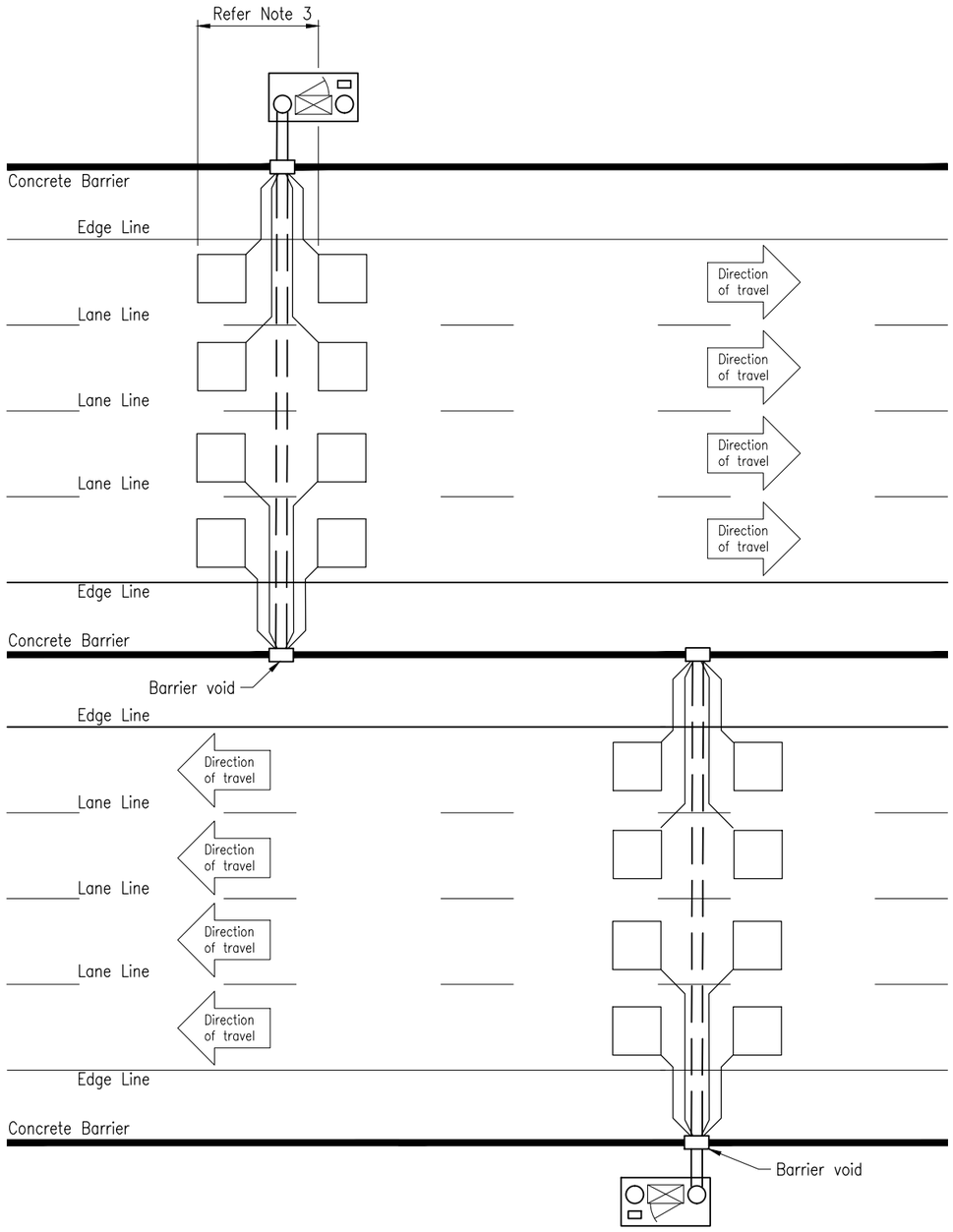
Queensland Government

A3

Not to Scale

Standard Drawing No
1920
Date 3/2023

A | B



LOOP–LOOP CONFIGURATION
DUAL CARRIAGEWAY
4–LANE

LEGEND

SYMBOL	DESCRIPTION
	Field Cabinet
	Type 3 Pit
	Circular Pit
	2x100 dia Conduit (White)
	Cabinet concrete pad Refer standard drawings 1924 and 1925
	2m x 2m Loop

NOTES:

1. The preferred sensor configuration for vehicle classifier is Loop–Piezo–Loop configuration (SD1917) or Piezo–Loop–Piezo configuration (SD1918).
   This Loop–Loop configuration is only to be used where piezo sensor cannot be installed or 12–bin Ausroads Classification is not required.
2. Only 1 cabinet may be used if the longest sensor cable length is ≤ 100m, otherwise 2 cabinets are required.
3. Five (5) metres spacing where posted speed limit ≤ 80 kph;
   Seven (7) metres spacing where posted speed limit > 80 kph.
4. Where possible, there shall be a minimum 500mm gap between slots cut for loops, piezo sensors and tails.
5. Loop detector and feeder cables are to be joined in pits. Joints are to be separately insulated and sealed to prevent ingress of water.
6. Refer to SD1916 for sensor installation details and loop characteristics.
7. All loop feeder cables routed via any shared path (conduit or slot) must be terminated to the same detector card to avoid inter–card crosstalk.
8. Dimensions are in metres (m) unless noted otherwise.

ASSOCIATED DEPARTMENTAL DOCUMENTS:
Standard Drawings
Specifications

REFERENCED DOCUMENTS:
Departmental Standard Drawings:
1916 ITS – Axle–based Vehicle Classifier Sensor Installation Details
1917 ITS – Axle–based Vehicle Classifier Sensor Configuration Loop–Piezo–Loop
1918 ITS – Axle–based Vehicle Classifier Sensor Configuration Piezo–Loop–Piezo
1922 ITS – Vehicle Classifier Cabinet Details – Solar Powered
1923 ITS – Vehicle Classifier Cabinet Details – Mains Powered
1924 ITS – Vehicle Classifier Cabinet Installation – Solar Powered
1925 ITS – Vehicle Classifier Cabinet Installation – Mains Powered

Departmental Specifications:
MRTS200 General Requirements for Intelligent Transport Systems (ITS) Infrastructure
MRTS201 General Equipment Requirements
MRTS207 Traffic Survey Foundation Equipment
MRTS251 Traffic Counter / Classifier

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Department of Transport and Main Roads

ITS

LENGTH–BASED VEHICLE CLASSIFIER
SENSOR CONFIGURATION
LOOP–LOOP
SHEET 2 OF 2

Queensland Government

A3
Not to Scale

Standard Drawing No
1920
Date 3/2023

A | B