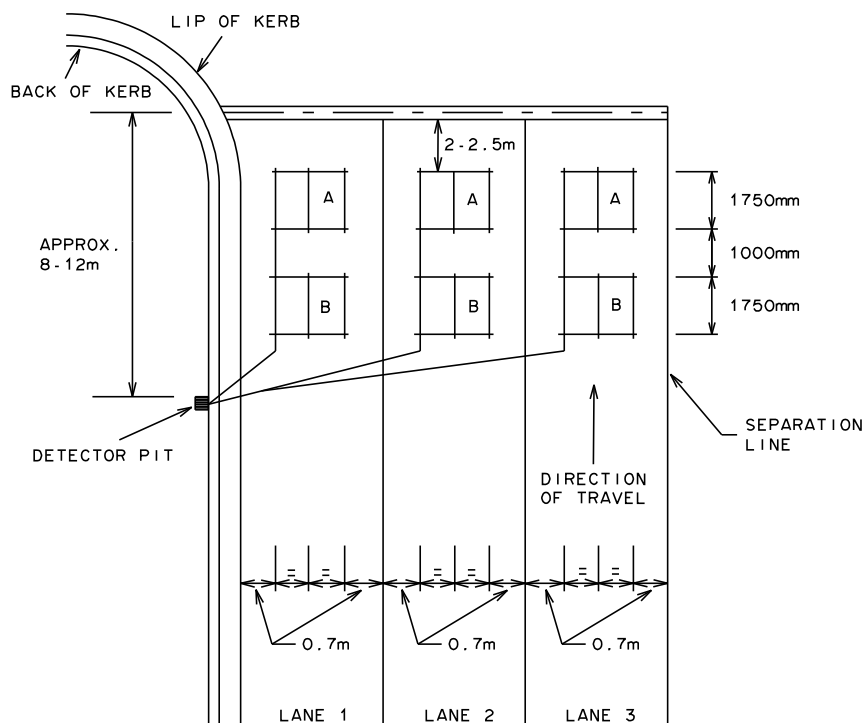


VicRoads (DTP) Standard Drawings

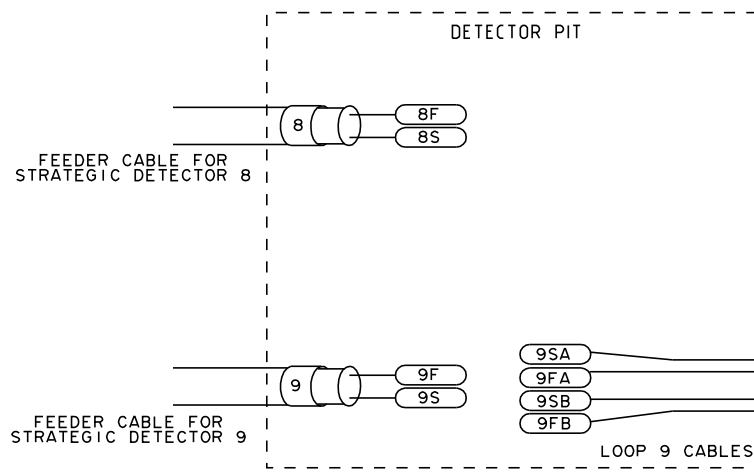
Traffic signals – Detection (1300-1399)

Drawing No.		Title
TC-1300	A	Loop pattern and installation details – Symmetripole loops
TC-1301	A	Vehicle and tram detector loops along shared and exclusive lanes
TC-1302	A	Wheelchair detector loops
TC-1303		Infinity Inductive loop for tram track installations
TC-1304		Bus detector loop
TC-1310	A	Detector pit and lid
TC-1320	A	Detector pit – Installation details
TC-1332		Advance tram detection – Feeder cable details
TC-1380		Concrete slab for tram detectors



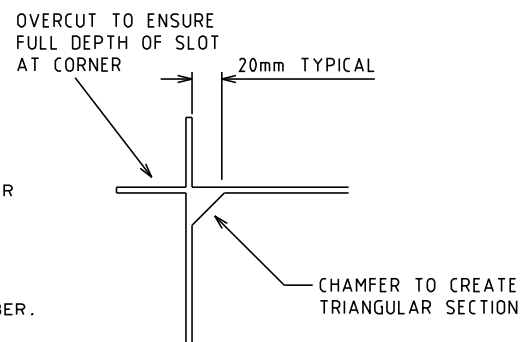
NOTES

1. LOOP DETECTOR CABLE AND FEEDER CABLE SHALL BE JOINTED IN DETECTOR PIT. EACH JOINT MUST BE SEPARATELY INSULATED WITH AN APPROVED PERMANENT METHOD
2. ALL LOOP CABLE TERMINALS SHALL BE LABELLED WITH AN APPROVED PERMANENT MARKER IN THE FORMAT 9SA, 9FA, ETC. THE FIRST DIGITS OF THE LABEL MARK THE LOOP NUMBER AS SPECIFIED.
THE LETTERS S AND F STAND FOR START AND FINISH RESPECTIVELY.
THE LETTER A IDENTIFIES THE DOWNSTREAM LOOP AND THE LETTER B IDENTIFIES THE UPSTREAM LOOP.
3. ALL FEEDER CABLES SHALL BE LABELLED WITH APPROVED CABLE MARKERS WITH LOOP NUMBER.
4. THE LOOP CABLE SHALL BE CONTINUOUS BETWEEN TERMINALS.
5. LOOP CABLES SHALL BE INSTALLED IN NUMERIC ORDER AS SHOWN IN DETAIL A. ONE DOUBLE TURN OF CABLE SHALL BE INSTALLED FOR BOTH LOOP A AND LOOP B.
6. WHERE PAVEMENT SURFACE IS UNSUITABLE, LOOPS MAY BE SET BACK UP TO 4M FROM STOP LINE



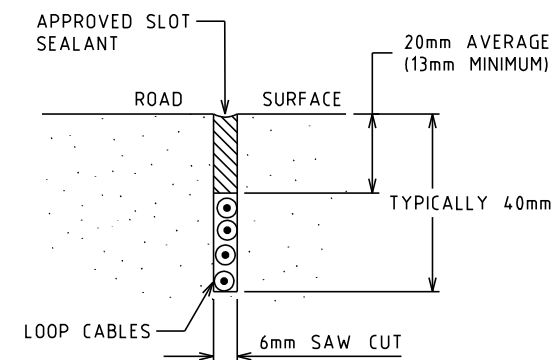
DETAIL A

LOOP WINDING AND TERMINAL DESIGNATION



DETAIL B

TYPICAL SAW-CUT AT CORNER



DETAIL C

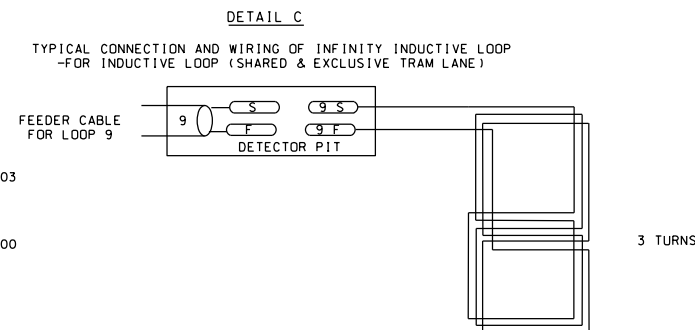
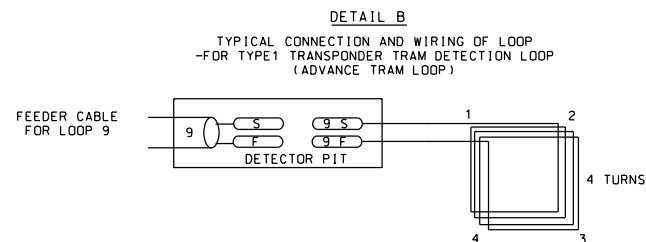
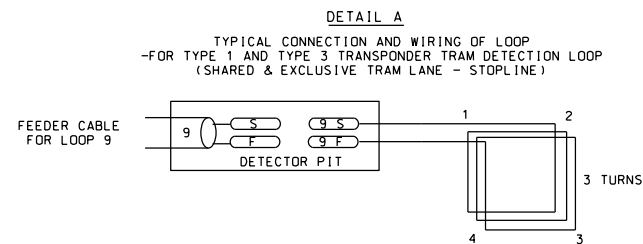
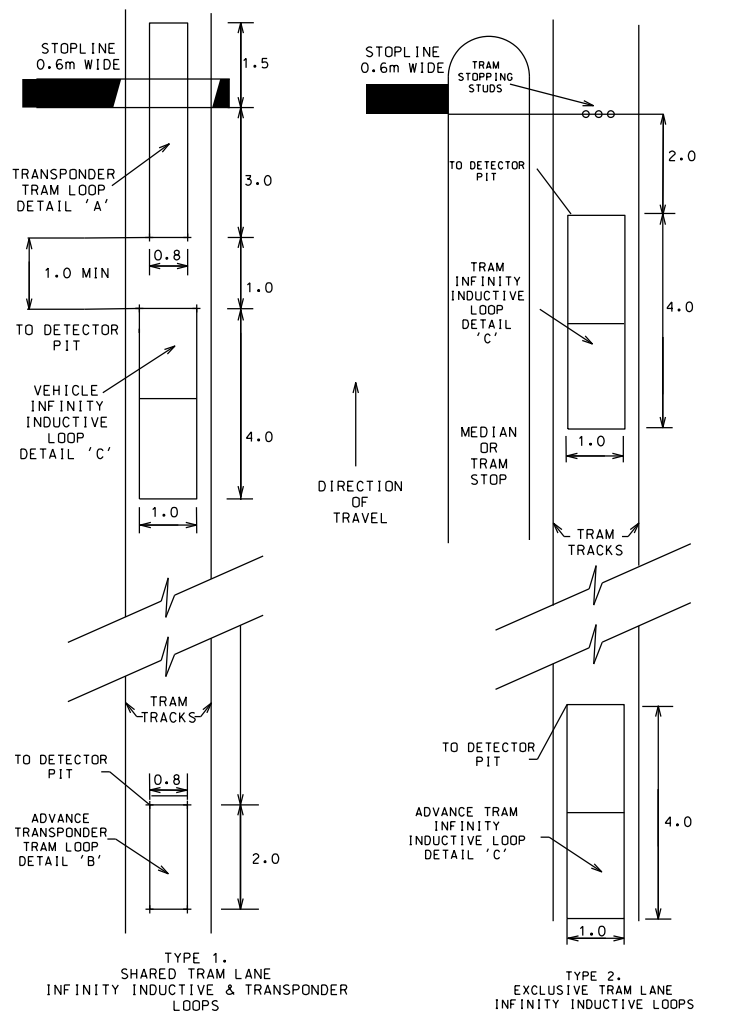
THIS DRAWING SUPERSEDES NO 85 5606B

STANDARD DRAWING
LOOP PATTERN AND INSTALLATION DETAILS
SYMMETRIPOLE

INTELLIGENT TRANSPORT
SYSTEMS GROUP

CHECKED	DATE	APPROVED	DATE	SPEC. REF.	SHEET No.	DRAWING No.	AMENDMENT
J. RANDALL	21/12/95	B. HEARN	21/12/95			TC-1300	A
		MANAGER ITS					

E				GENERAL NOTES / CROSS REFERENCES UNSPECIFIED DIMENSIONS ARE IN mm.
D				
C				
B				
A	S.B.	29/3/05	CHANGE CORNER OF SAWCUT & MODIFY SOME DIMENSIONS	
AMEND.	Appd.	DATE	AMENDMENTS	



NOTES

1. FOR DETAIL 'C' INFINITY INDUCTIVE LOOP DETAILS REFER TO TC-1303
2. WHERE SYMMETRIPOLE LOOPS ARE INSTALLED ADJACENT TO TRAM DETECTION LOOPS, THE SYMMETRIPOLE LOOPS SHALL BE INSTALLED IN ACCORDANCE WITH TC-1300.
3. ALL LOOP LEAD-INS SHALL BE INSTALLED IN ACCORDANCE WITH TC-1300
4. FOR DETAILS OF DETECTOR PIT INSTALLATION REFER TO TC-1320
5. THE MAXIMUM LENGTH OF ANY INDIVIDUAL DETECTOR FEEDER CABLE SHALL NOT EXCEED 200 METRES

E			
D			
C			
B	ZS	04 08 22	Include infinity loop
A	SB	29 03 05	Remove diagonal cut from corner of loop slot
ISSUE	APP'D	DATE	AMENDMENT

GENERAL NOTES /CROSS REFERENCE
UNSPECIFIED DIMENSIONS ARE IN mm

DESIGNED
ZS JUL 22

APPROVED
CC AUG 22

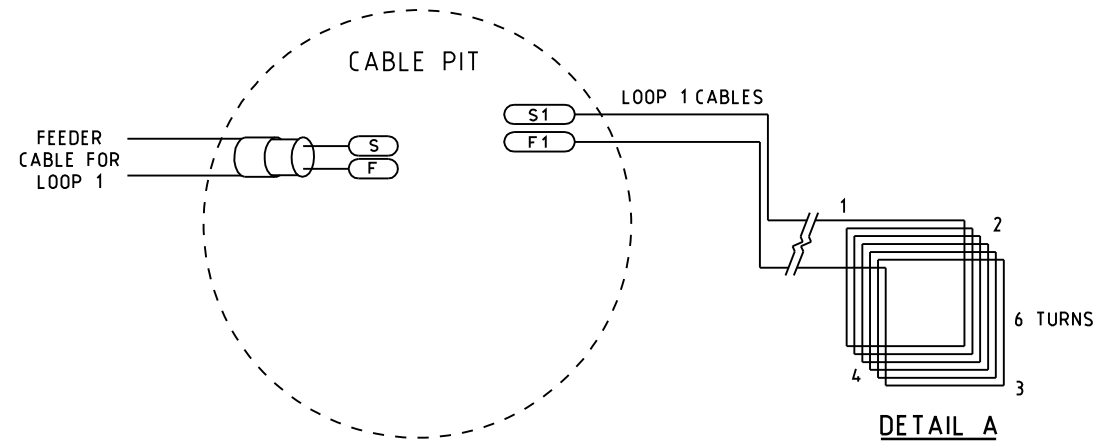
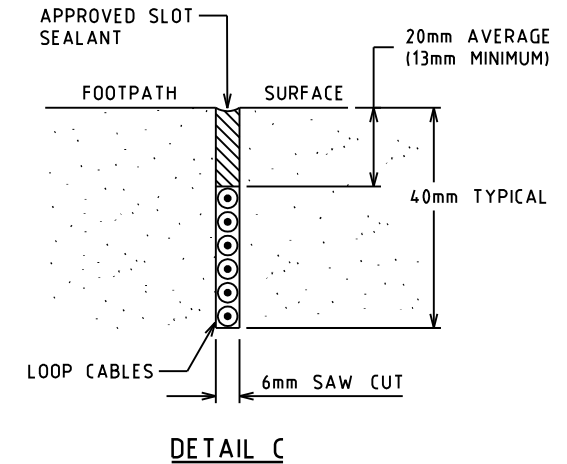
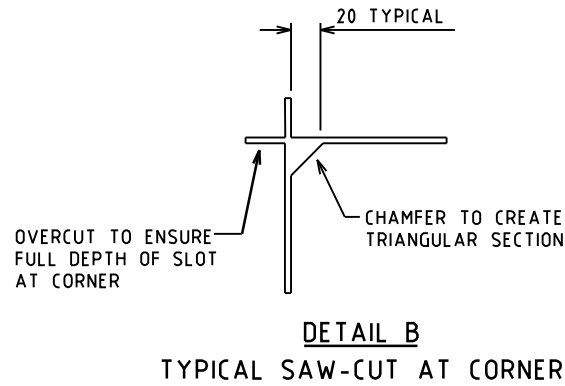
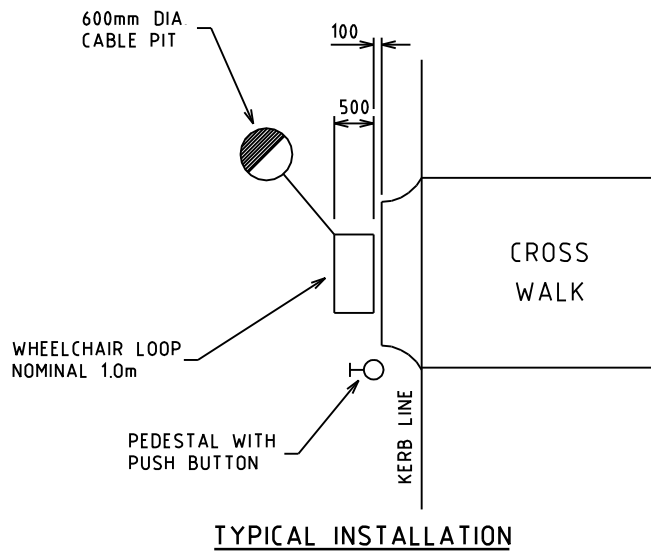
CAT.
PROJ.
FILE:



SCALE OF METRES
HOR
VER

FILE NO CONTRACT NO SHEET NO DRAWING NO TC-1301 ISSUE B

VEHICLE AND TRAM DETECTOR LOOPS
ALONG SHARED AND EXCLUSIVE TRAM LANES




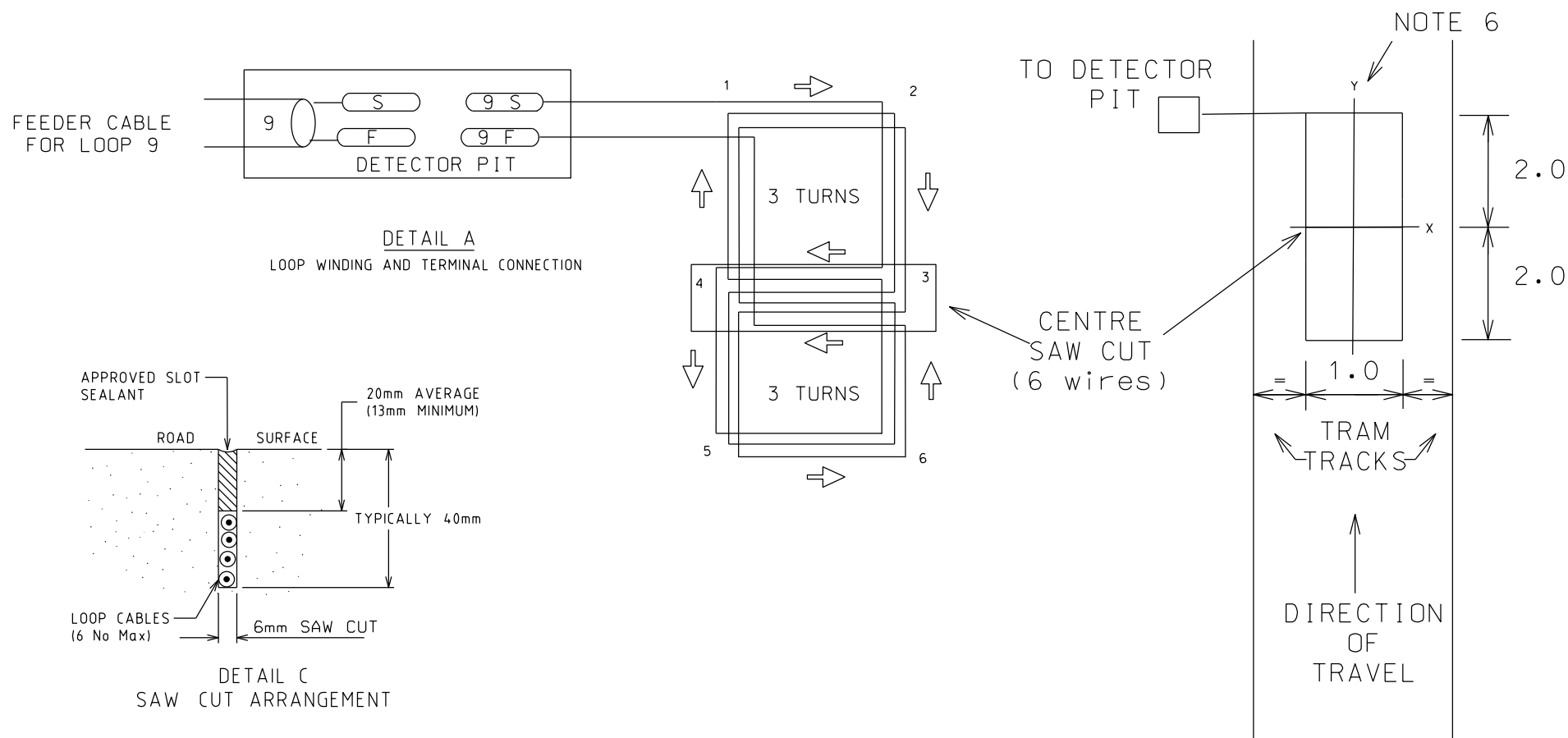
TYPICAL WIRING AND CONNECTION OF LOOPS

LOOP CABLES SHALL BE INSTALLED AND FOLLOW THROUGH THE SAW CUTS IN NUMERIC ORDER AS SHOWN IN DETAIL A TO CONNECT UP THE COMPLETE LOOP, THE FEEDER CABLE AND LOOP CABLE TERMINALS SHALL BE CONNECTED AS FOLLOWS.
6 TURN LOOP S1 TO S, F1 TO F.

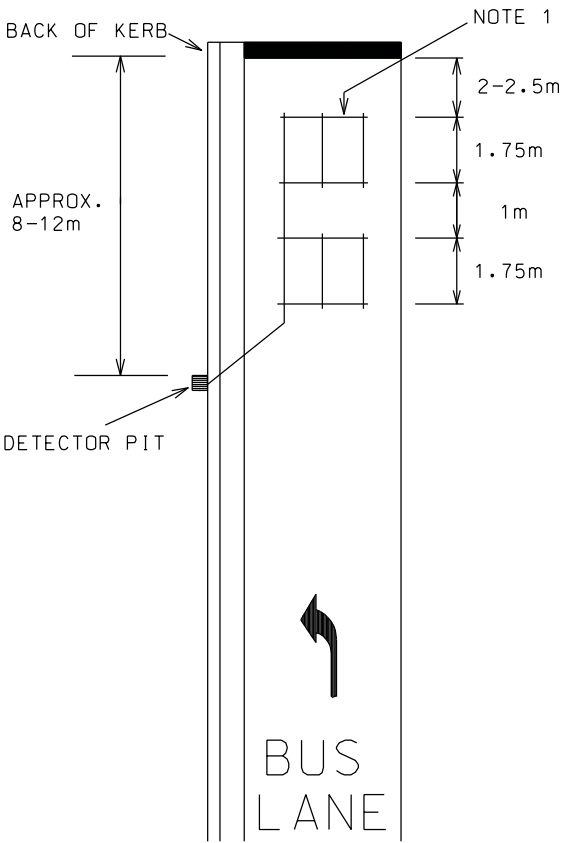
NOTES:

- 1 LOOP DETECTOR CABLE AND FEEDER CABLE SHALL BE JOINED IN THE NEAREST CABLE PIT (LOOP DETECTOR PIT MAY BE USED IF APPROPRIATE).
- 2 ALL LOOP CABLE TERMINALS SHALL BE LABELLED WITH CABLE MARKERS, S1, F1, ETC THE DIGITS OF THE LABEL MARKS THE LOOP NUMBER AS SPECIFIED ON THE AUTHORITY PLAN THE LETTERS S AND F STAND FOR START AND FINISH RESPECTIVELY.
- 3 ALL FEEDER CABLES SHALL BE LABELLED WITH HELAGRIP CABLE MARKERS AS PER LOOP NUMBER SPECIFIED ON THE AUTHORITY PLAN.
- 4 THE LOOP CABLE SHALL BE CONTINUOUS (I.E NO JOINTS PERMITTED) BETWEEN TERMINALS

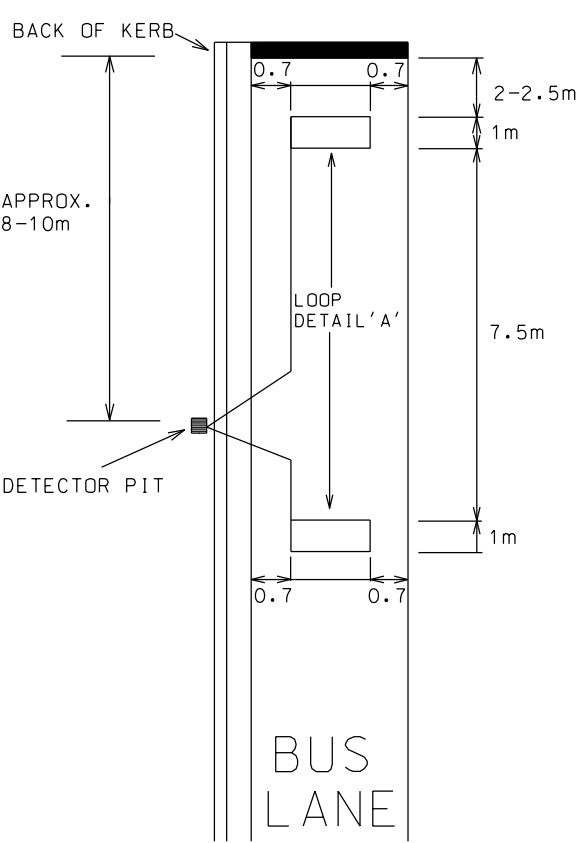
E				GENERAL NOTES / CROSS REFERENCES UNSPECIFIED DIMENSIONS ARE IN mm.		STANDARD DRAWING						
D						WHEELCHAIR DETECTOR LOOPS						
C												
B												
A	S.B.	29/03/05	MODIFY REQUIREMENTS FOR CORNER OF SAW CUT									
AMEND.	Appd.	DATE	AMENDMENTS		INTELLIGENT TRANSPORT SYSTEMS GROUP	CHECKED DATE S. Purilli 18/6/04	APPROVED DATE S. Beon 14/7/04 MANAGER ITS	SPEC. REF.	SHEET No.	DRAWING No.	AMENDMENT	
										TC-1302	A	



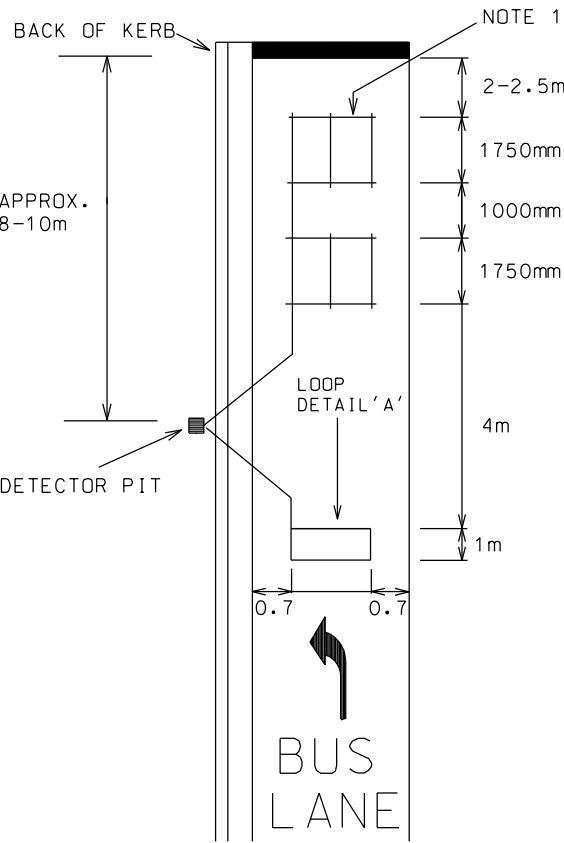
E				GENERAL NOTES /CROSS REFERENCES UNSPECIFIED DIMENSIONS ARE IN mm	DESIGNED Z 5 JUL 2022			LOOP PATTERN AND INSTALLATION DETAILS INFINITY INDUCTIVE LOOP FOR TRAM TRACK INSTALLATIONS				
D					APPROVED C C AUG 2022							
C												
B												
A												
ISSUE	APP'D	DATE	AMENDMENT		CAT PROJ: FILE:	<div><div>HOR</div><div>VPR</div></div>	SCALE OF METRES <div><div></div><div></div></div>	FILE NO	CONTRACT NO	SHEET NO	DRAWING NO TC-1303	ISSU



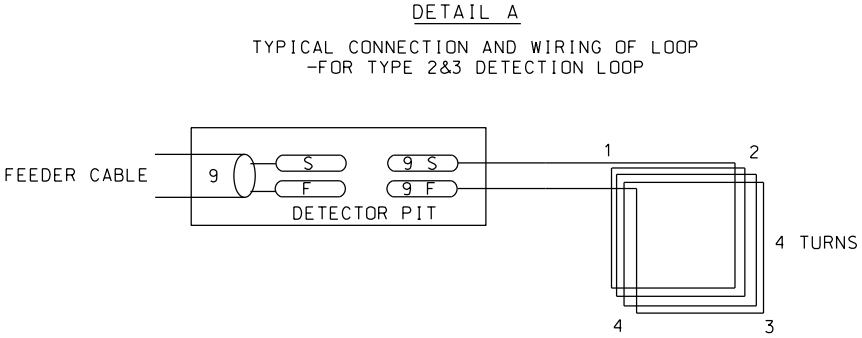
TYPE 1.
SHARED VEHICLE AND BUS
LANE WITHOUT DEDICATED
BUS LANTERNS



TYPE 2.
DEDICATED BUS LANE
WITH BUS LANTERNS AND ADVANCED
BUS DETECTION



TYPE 3.
SHARED VEHICLE AND
BUS LANE WITH DEDICATED
BUS LANTERNS



NOTES

- 1. SYMMETRIPOLE LOOPS TO BE INSTALLED AS PER STANDARD DRAWING TC-1300
- 2. FOR DETAILS OF DETECTOR PIT INSTALLATION REFER TO STANDARD DRAWING TC-1320
- 3. THE MAXIMUM LENGTH OF ANY INDIVIDUAL DETECTOR FEEDER CABLE SHALL NOT EXCEED 200 METRES

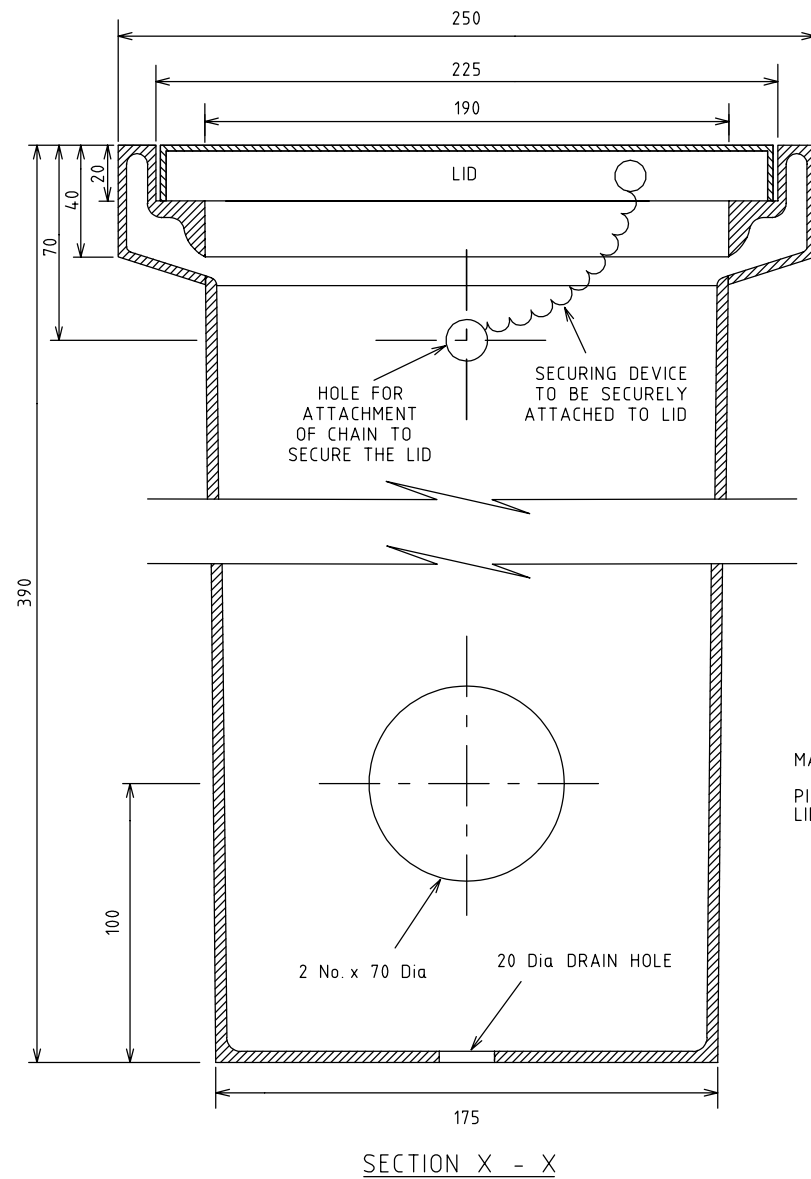
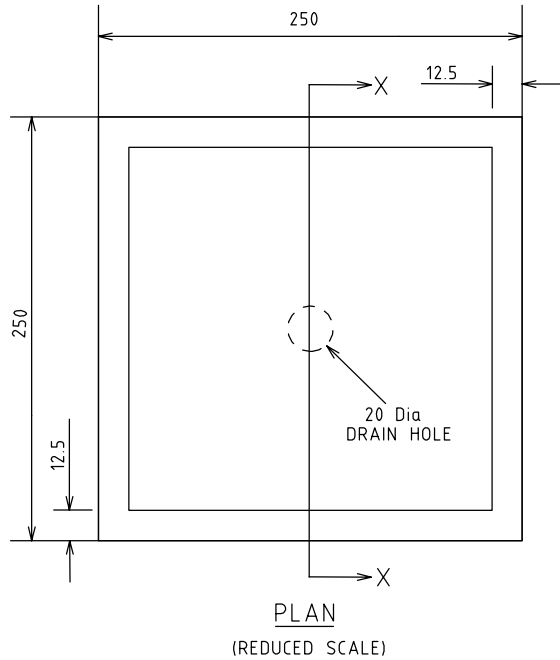
E			
D			
C			
B			
A			
ISSUE	APP'D	DATE	AMENDMENT

GENERAL NOTES /CROSS REFERENCE
UNSPECIFIED DIMENSIONS ARE IN mm

DESIGNED Z S APRIL 23	
APPROVED C C APRIL 23	
CAT PROJ FILE	

SCALE OF METRES
HOR VER

BUS AND VEHICLE DETECTOR LOOPS ALONG SHARED AND EXCLUSIVE BUS LANES				
FILE NO	CONTRACT NO	SHEET NO	DRAWING NO TC-1304	ISSUE



MATERIALS:
PIT: - BLACK POLYETHYLENE
LID: - ALUMINIUM

E			
D			
C			
B			
A	J.R.	27/8/96	MIN No. OF LUGS DELETED
AMEND.	Appd.	DATE	AMENDMENTS

GENERAL NOTES / CROSS REFERENCES
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

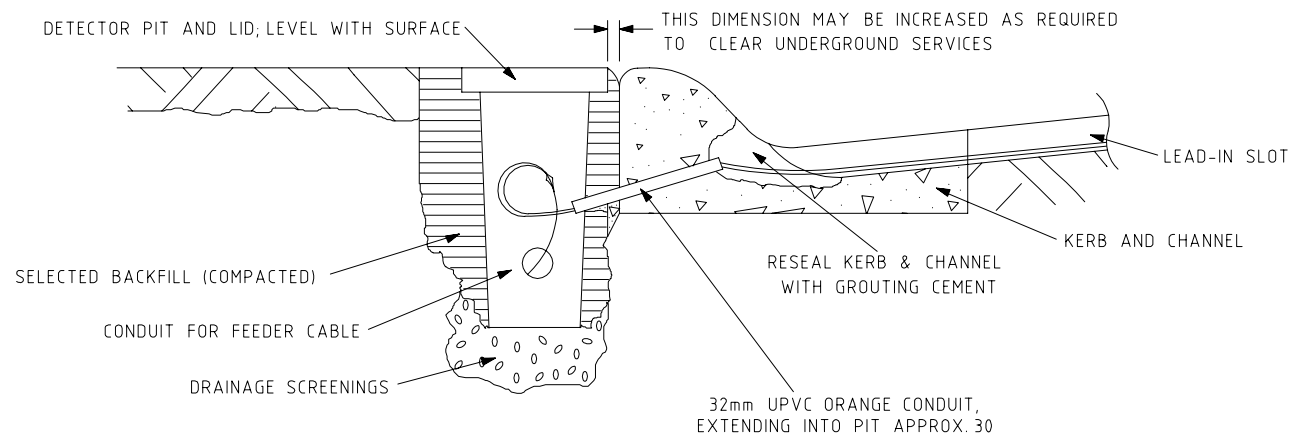
vicroads

TRAFFIC AND ROAD USE
MANAGEMENT DEPARTMENT

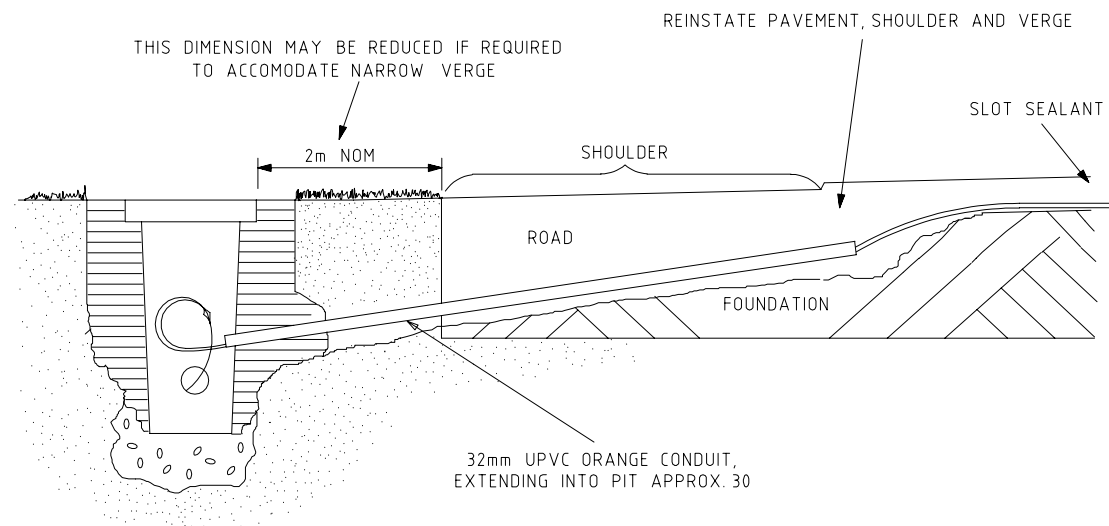
STANDARD DRAWING
DETECTOR PIT AND LID

TRAFFIC SYSTEM OPERATION


CHECKED	DATE	APPROVED	DATE	SPEC. REF.	SHEET No.	DRAWING No.	AMENDMENT
J. RANDALL	14/8/96	B. HEARN	14/8/96			TC-1310	A
		T.S.O. MANAGER					

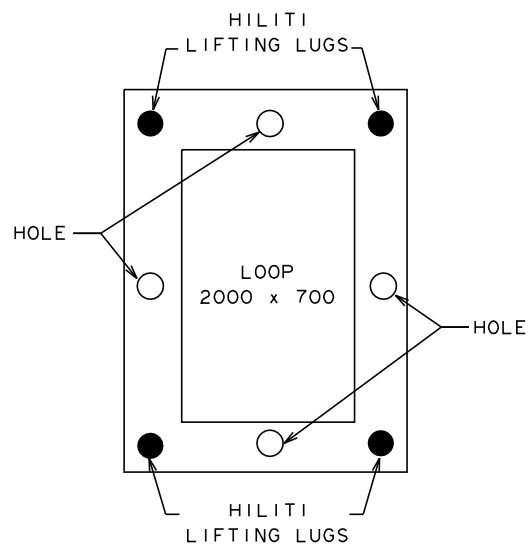
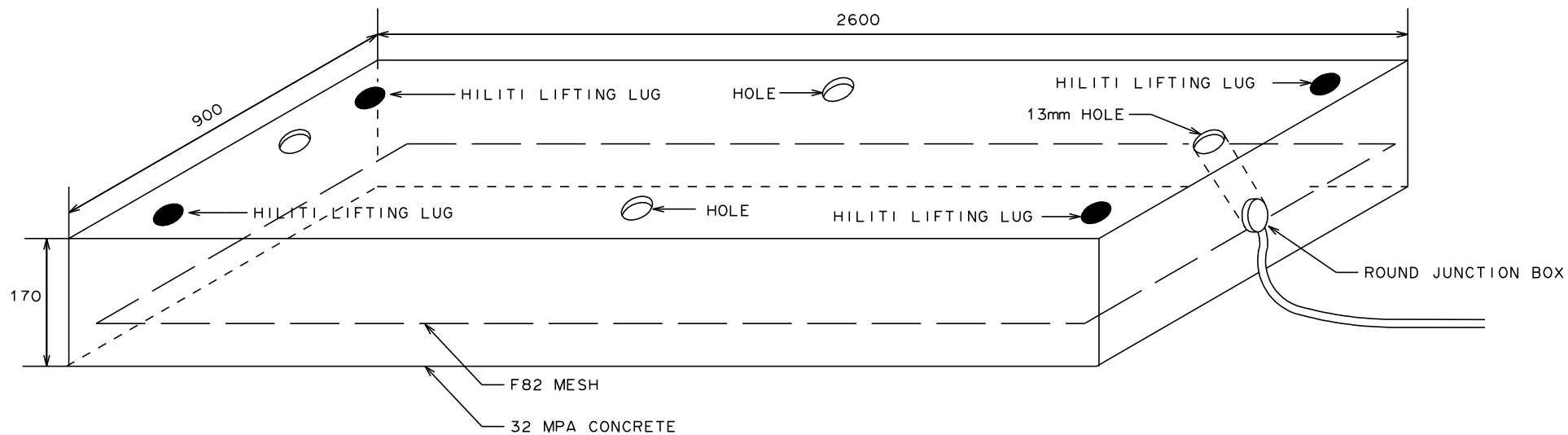


INSTALLATION BEHIND KERB



INSTALLATION IN VERGE

E				GENERAL NOTES / CROSS REFERENCES UNSPECIFIED DIMENSIONS ARE IN mm. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE INSTALLATION SPECIFICATION. TC-1310 DETECTOR PIT	 TRAFFIC AND ROAD USE MANAGEMENT DEPARTMENT	STANDARD DRAWING FOR TRAFFIC SIGNALS DETECTOR PIT INSTALLATION DETAILS						
D												
C						TRAFFIC SYSTEM OPERATION	CHECKED DATE	APPROVED DATE	SPEC. REF.	SHEET No.	DRAWING No.	AMENDMENT
B							J. RANDALL 21/12/95	B. HEARN 21/12/95 T.S.O. MANAGER			TC-1320	A
A	JR	22/8/96	REDUCED SETBACK FOR NARROW VERGE									
AMEND.	Appd.	Date	AMENDMENTS									



NOTE: LOOP CABLE IS PROTECTED
BY 20mm FLEX CONDUIT

E			
D			
C			
B			
A			
AMEND.	Appd.	DATE	AMENDMENTS

GENERAL NOTES / CROSS REFERENCES
UNSPECIFIED DIMENSIONS ARE IN mm.

vikeroads

INTELLIGENT TRANSPORT
SYSTEMS GROUP

STANDARD DRAWING
CONCRETE SLAB FOR TRAM DETECTORS

CHECKED	DATE	APPROVED	DATE	SPEC. REF.	SHEET No.	DRAWING No.	AMENDMENT
S.P.	7/1/2002	K.W.	7/1/2002			TC-1380	
		MANAGER ITS					