MMCD STANDARD DETAIL DRAWING	3.2 ELECTRICAL DETAILS				
SD CE1.1a Victoria Concrete Base Index & Conduination  CE1.2 Type A and B Sonotube Concrete Bases  CE1.3 Type C, C1, C2 & C3 Trapezoidal Shape Concrete Bases  CE1.4 Type C, C1, C2 & C3 Trapezoidal Shape Concrete Bases  CE1.5 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.6 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.8 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.9 Type E2 Trapezoidal Shape Concrete Bases  CE1.9 Type E2 Trapezoidal Shape Concrete Bases  CE1.10 Type F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.12 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 Z5mm ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for City of Victoria Adopt MMCD Drawing  Concrete Base for Post Mounted Flasher Luminaire (Precast)	MMCD STANDARD DETAIL DRAWING		CITY OF VICTORIA SUPPLEMENTARY STANDARD DETAIL DRAWINGS		
Detail   Adopt MMCD Drawing	CE1.1	Concrete Base Index		Adopt MMCD Drawing	
SD CE1.2a V1 Concrete Base for City of Victoria Cluster Lights  CE1.3 Type C, C1, C2 & C3 Trapezoidal Shape Concrete Bases  CE1.4 Type C, C1, C2 & C3 Trapezoidal Shape Concrete Bases  CE1.5 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.6 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.8 Type E2 Trapezoidal Shape Concrete Bases  CE1.9 Type E2 Trapezoidal Shape Concrete Bases  CE1.10 Type F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.12 Type F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.13 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 Z5mm Ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)			SD CE1.1a		
CE1.3 Type C, C1, C2 & C3 Trapezoidal Shape Concrete Bases  CE1.4 Type C, C1, C2 & C3 Trapezoidal Shape Concrete Bases  CE1.5 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.6 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.8 Type E2 Trapezoidal Shape Concrete Base  CE1.9 Type E2 Trapezoidal Shape Concrete Base  CE1.10 Type F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.12 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.13 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 Zymm ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Post Mounted Flasher Luminaire (Precast)	CE1.2	Type A and B Sonotube Concrete Bases		Adopt MMCD Drawing	
CE1.3 Type C, C1, C2 & C3 Trapezoidal Shape Concrete Bases CE1.4 Type C, C1, C2 & C3 Trapezoidal Shape Concrete Bases CE1.5 Type C4 & C5 Spread Footing Shape Concrete Bases CE1.6 Type C4 & C5 Spread Footing Shape Concrete Bases CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases CE1.8 Type C4 & C5 Spread Footing Shape Concrete Bases CE1.8 Type E2 Trapezoidal Shape Concrete Base CE1.9 Type E2 Trapezoidal Shape Concrete Base CE1.10 Type F1, L1 & S1 Spread Footing Shape Concrete Bases CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases CE1.12 Types F1, L1 & S1 Spread Footing Shape Concrete Bases CE1.13 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases CE1.15 Zhapes F2, L2 & S2 Trapezoidal Shape Concrete Bases CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles CE1.17 Anchor Bolt Cage for Type L Poles Concrete Base for Post Mounted Flasher Luminaire (Precast)  Adopt MMCD Drawing Do Not Use			SD CE1.2a	·	
CE1.5 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.6 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.8 Type E2 Trapezoidal Shape Concrete Bases  CE1.9 Type E2 Trapezoidal Shape Concrete Base  CE1.10 Type F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.12 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.13 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 Z5mm Ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)	CE1.3			<u> </u>	
CE1.5 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.6 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.8 Type C2 & C5 Spread Footing Shape Concrete Bases  CE1.8 Type E2 Trapezoidal Shape Concrete Base  CE1.9 Type E2 Trapezoidal Shape Concrete Base  CE1.10 Type F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.12 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.13 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 Z5mm ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)	CE1.4			Adopt MMCD Drawing	
Concrete Bases  CE1.7 Type C4 & C5 Spread Footing Shape Concrete Bases  CE1.8 Type E2 Trapezoidal Shape Concrete Base  CE1.9 Type E2 Trapezoidal Shape Concrete Base  CE1.10 Type F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.12 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.13 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)	CE1.5	• • • • • • • • • • • • • • • • • • • •		Adopt MMCD Drawing	
Concrete Bases  CE1.8 Type E2 Trapezoidal Shape Concrete Base  CE1.9 Type E2 Trapezoidal Shape Concrete Base  CE1.10 Type F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.12 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.13 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 25mm ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)  Adopt MMCD Drawing	CE1.6	, ,		Adopt MMCD Drawing	
Base CE1.9 Type E2 Trapezoidal Shape Concrete Base CE1.10 Type F1, L1 & S1 Spread Footing Shape Concrete Bases CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases CE1.12 Types F1, L1 & S1 Spread Footing Shape Concrete Bases CE1.13 Types F1, L1 & S1 Spread Footing Shape Concrete Bases CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases CE1.15 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles CE1.17 Anchor Bolt Cage for Type L Poles CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)  Adopt MMCD Drawing Adopt MMCD Drawing Adopt MMCD Drawing Adopt MMCD Drawing Concrete Bases CE1.17 Anchor Bolt Cage for Type L Poles Do Not Use	CE1.7	1		Adopt MMCD Drawing	
Base  CE1.10 Type F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.12 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.13 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 Z5mm Ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)  Adopt MMCD Drawing Do Not Use	CE1.8			Adopt MMCD Drawing	
Concrete Bases  CE1.11 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.12 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.13 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 Z5mm ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)  Adopt MMCD Drawing Adopt MMCD Drawing  Adopt MMCD Drawing  Adopt MMCD Drawing  Do Not Use	CE1.9	1 * '		Adopt MMCD Drawing	
Concrete Bases  CE1.12 Types F1, L1 & S1 Spread Footing Shape Concrete Bases  CE1.13 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 25mm ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)  Adopt MMCD Drawing  Adopt MMCD Drawing  Adopt MMCD Drawing  Adopt MMCD Drawing  Do Not Use	CE1.10			Adopt MMCD Drawing	
Concrete Bases  CE1.13 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 25mm ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)  Adopt MMCD Drawing  Adopt MMCD Drawing  Adopt MMCD Drawing  Adopt MMCD Drawing  Do Not Use	CE1.11			Adopt MMCD Drawing	
CE1.13 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.14 Types F2, L2 & S2 Trapezoidal Shape Concrete Bases  CE1.15 25mm ø Anchor Bolts  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)  Adopt MMCD Drawing  Do Not Use	CE1.12			Adopt MMCD Drawing	
Ceri. 15 25mm ø Anchor Bolts Adopt MMCD Drawing  CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles Adopt MMCD Drawing  CE1.17 Anchor Bolt Cage for Type L Poles Adopt MMCD Drawing  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)	CE1.13	Types F2, L2 & S2 Trapezoidal Shape		Adopt MMCD Drawing	
CE1.16 Anchor Bolts Cage for Type 6, 7, & S Poles  CE1.17 Anchor Bolt Cage for Type L Poles  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)  Adopt MMCD Drawing  Do Not Use	CE1.14	1 * '		Adopt MMCD Drawing	
Poles  CE1.17 Anchor Bolt Cage for Type L Poles  Adopt MMCD Drawing  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast)  Do Not Use	CE1.15			Adopt MMCD Drawing	
CE1.17 Anchor Bolt Cage for Type L Poles Adopt MMCD Drawing  CE1.18 Concrete Base for Post Mounted Flasher Luminaire (Precast) Do Not Use	CE1.16	, , , , , , , , , , , , , , , , , , ,		Adopt MMCD Drawing	
Luminaire (Precast)	CE1.17			Adopt MMCD Drawing	
, ,	CE1.18			Do Not Use	
	CE1.19	,		Adopt MMCD Drawing	
CE1.20 Pole Base Installation Details Adopt MMCD Drawing	CE1.20	Pole Base Installation Details		Adopt MMCD Drawing	

3.2 ELECTRICA			ILS
MMCD STANDARD DETAIL DRAWING		CITY OF VICTORIA SUPPLEMENTARY STANDARD DETAIL DRAWINGS	
E1.1	Type M (Nema Cabinet) Concrete Controller Base		Do Not Use
		SD E1.1a	332 Cabinet Base
E1.2	Type M (Nema Cabinet) Concrete Controller Base		Do Not Use
E1.3	Model 170 Controller Base		Do Not Use
E1.4	Controller Installation (Type P & M Cabinets)		Do Not Use
E1.5	Controller Installation (Model 170 Cabinets)		Do Not Use
E1.6	Type F Controller Pedestal		Do Not Use
E1.7	Type F Controller Pedestal		Do Not Use
E2.1	Round Plastic Junction Boxes		Do Not Use
		SD E2.1a	City Light Junction Box (retrofit ONLY)
			City Light Junction Box- Casting Detail (retrofit ONLY)
		SD E2.1c	Traffic Signal Junction Box (retrofit ONLY)
			Traffic Signal Junction Box - Casting Details (retrofit ONLY)
		SD E2.1e	Round Steel Casting for Roadway Applications (Retrofit ONLY)
E2.2	Type 37 and 66 Concrete Junction Boxes		Adopt MMCD Drawing or City Approved Composite Box
E2.3	Large Concrete Junction Boxes		Adopt MMCD Drawing
E2.4	Large Concrete Junction Boxes		Adopt MMCD Drawing
E2.5	Concrete Vault		Adopt MMCD Drawing
E2.6	Concrete Vault		Adopt MMCD Drawing
E3.1	Underground Conduit in Paved Area		Adopt MMCD Drawing
E3.2	Underground Conduit in Non-Paved Area		Adopt MMCD Drawing
E4.1	Luminaire Pole (Type 2 Shaft)		Adopt MMCD Drawing
-		•	

3.2 ELECTRICAL DETAILS				
MMCD STANDARD DETAIL DRAWING		CITY OF W	CITY OF VICTORIA SUPPLEMENTARY STANDARD DETAIL DRAWINGS	
		SD E4.1a	Street Light Pole	
E4.2	Luminaire Pole (Type 2 Shaft)		Adopt MMCD Drawing	
E4.3	Signal Pole (Type 1 Shaft)		Adopt MMCD Drawing	
E4.4	Signal Pole (Type 1 Shaft)		Adopt MMCD Drawing	
E4.5	Signal Pole (Type 3 Shaft)		Adopt MMCD Drawing	
E4.6	Signal Pole (Type 3 Shaft)		Adopt MMCD Drawing	
E4.7	Signal Pole (Type 6 Shaft)		Adopt MMCD Drawing	
E4.8	Signal Pole (Type 6 Shaft)		Adopt MMCD Drawing	
E4.9	Signal Pole (Type 7 Shaft)		Adopt MMCD Drawing	
E4.10	Signal Pole (Type 7 Shaft)		Adopt MMCD Drawing	
E4.11	Signal Pole (Type S Shaft)		Adopt MMCD Drawing	
E4.12	Signal Pole (Type S Shaft)		Adopt MMCD Drawing	
E4.13	Signal Pole (Type S Shaft)		Adopt MMCD Drawing	
E4.14	Signal Pole (Type L Shaft)		Adopt MMCD Drawing	
E4.15	Signal Pole (Type L Shaft)		Adopt MMCD Drawing	
E4.16	Signal Pole (Type L Shaft)		Adopt MMCD Drawing	
E4.17	Signal Pole (Type 4, 4A, & 5 Shaft)		Adopt MMCD Drawing	
E4.18	Signal Pole (Type 4, 4A & 5 Shaft)		Adopt MMCD Drawing	
E4.19	Post Top Luminaire Poles		Adopt MMCD Drawing	
		SD E4.19a	City of Victoria Cluster Lights Type 'A' & 'B'	
E4.20	Post Top Luminaire Poles		Adopt MMCD Drawing	
E4.21	Service Base		Do Not Use	

3.2 ELECTRICAL DETAILS				
MMCD STANDARD DETAIL DRAWING		CITY OF VICTORIA SUPPLEMENTARY STANDARD DETAIL DRAWINGS		
E4.22	Pole Accessories		Adopt MMCD Drawing	
E5.1	Post Top Signal Head Mounting		Do Not Use	
E5.2	Side of Pole Signal Head Mounting (Method 1)		Do Not Use	
E5.3	Side of Pole Signal Head Mounting (Method 2)		Do Not Use	
E5.4	Side of Pole Signal Head Mounting (Method 3)		Adopt MMCD Drawing	
E5.5	Overhead Signal Head Mounting (Spring Cushion End Hanger Method)		Do Not Use	
E5.6	Overhead Signal Head Mounting (Spring Cushion Mid Hanger Method)		Do Not Use	
E5.7	Overhead Signal Head Mounting (Plumbizer Method)		Do Not Use	
E5.8	Overhead Signal Head Mounting (Spring Cushion End Hanger Method)		Do Not Use	
E5.9	Overhead Signal Head Mounting (Adjustable Bracket Method)		Adopt MMCD Drawing	
E5.10	Overhead Signal Head Mounting on Pole Arm (Ball Hanger Method)		Do Not Use	
E5.11	Overhead Signal Head Mounting on Span Wire (Ball Hanger Method)		Do Not Use	
E5.12	Audible Signals		Do Not Use	
E5.13	Video Detection Installation Detail on Special 2A Arm		Do Not Use	
E5.14			Do Not Use	
E5.15	Internally Illuminated Pedestrian Crosswalk Sign		Adopt MMCD Drawing	
E6.1	Pedestrian Pushbutton with Separate Sign		Adopt MMCD Drawing	
E6.2	Pedestrian Pushbutton with Integral Sign		Adopt MMCD Drawing	
E6.3	Pedestrian Pushbutton Post		Adopt MMCD Drawing	
E7.1	Underground Dip Service		Adopt MMCD Drawing	
		SD E7.1a	Overhead Dip Service for Signals and Street Lights	
E7.2	Service Panel in Service Base (Mounting Details)		Do Not Use	

3.2 ELECTRICAL DETAILS				
MMCD STANDARD DETAIL DRAWING		CITY OF VICTORIA SUPPLEMENTARY STANDARD DETAIL DRAWINGS		
E7.3	Service Panel in Service Base (Mounting Details)		Do Not Use	
E7.4	60A Streetlight and 100A Streetlight/Traffic Signal Service Panel in Service Base		Do Not Use	
E7.5	60A (120/240V) Street Lighting Service Panel in Service Base (Wiring Diagram)		Adopt MMCD Drawing	
E7.6	60A (120/240V) Traffic Signal / Street Lighting Service Panel in Service Base		Adopt MMCD Drawing	
E7.7	100A Traffic Signal / Street Lighting Service Panel on Pole (Mounting Details)		Adopt MMCD Drawing	
E7.8	100A Traffic Signal / Street Lighting Service Panel on Pole (Mounting Details)		Adopt MMCD Drawing	
E7.9	100A (120/240V) Traffic Signal / Street Lighting Service Panel (Wiring Diagram)		Adopt MMCD Drawing	
E7.10	Service Ground Plate Installation Detail		Adopt MMCD Drawing	
E7.11	Luminaire Wiring in Pole Handhole		Adopt MMCD Drawing	
E7.12	Signal Cable Wiring in Pole Handhole		Adopt MMCD Drawing	
E7.13	Signal Cable Colour Code Sample (Ontario Spec Method)		Do Not Use	
E7.14	Minimum Clearances to Overhead Powerlines		Adopt MMCD Drawing	
E7.15	Pole Mounted Receptacle		Adopt MMCD Drawing	
E7.16	Telephone Demarcation Enclosure Mounting Details on Controller or Pole		Do Not Use	
E7.17	-		Do Not Use	
E7.18	Conduit Tie-in to Telephone Vault, Manhole or Junction Box		Do Not Use	
E8.1	Typical Detector Loop types		Do Not Use	
		SD E8.1a	Traffic Signal Loops & Wiring	
E8.2	Detector Loops		Adopt MMCD Drawing	
E8.3	Detector Loops		Adopt MMCD Drawing	
E8.4	Detector Loops to Shielded Cable Splices		Adopt MMCD Drawing	
E8.5	Detector Loop Procedures and Rules		Adopt MMCD Drawing	

3.2 ELECTRICAL DETAILS				
MMCD STANDARD DETAIL DRAWING		CITY OF VICTORIA SUPPLEMENTARY STANDARD DETAIL DRAWINGS		
E8.6	Detector Loop procedures and Rules	Adopt MMCD Drawing		
E8.7	Typical Layout for Diamond and Round Traffic signal Detector Loops	Adopt MMCD Drawing		
E8.8	Pre-formed Diamond Detector Loop Installation Details	Do Not Use		
E8.9	Pre-formed Diamond Detector Loop Installation Details	Do Not Use		
E8.10	Pre-formed Diamond Detector Loop Installation Details	Do Not Use		
E9.1	Flasher Luminaire and Signs on Perforated Steel Tubing	Do Not Use		
E9.2	Flasher Luminaire and Signs on Perforated Steel Tubing	Do Not Use		
E9.3	Flasher Luminaire and Signs on Perforated Steel Pole	Do Not Use		
E9.4	Flasher Luminaire and Signs on Steel Pole	Do Not Use		
E10.1	Overhead Extruded Aluminum Advance Warning Sign Assembly Details	Do Not Use		
E10.2	Overhead Extruded Aluminum Advance Warning Sign Installation Details	Do Not Use		
E10.3	Overhead Extruded Aluminum Advance Warning Sign Installation Details	Do Not Use		
E10.4	Overhead Extruded Aluminum Sign Installation Details	Do Not Use		
E10.5	Overhead Extruded Aluminum Sign Installation Details	Do Not Use		
E10.6	Overhead Extruded Aluminum Sign Assembly Details	Do Not Use		
E10.7	Overhead Extruded Aluminum Sign Assembly Details	Do Not Use		
E10.8	Overhead Extruded Aluminum Sign Installation Details	Do Not Use		
E10.9	Overhead Extruded Aluminum Sign Luminaire Installation Details	Do Not Use		
E10.10	Junction Box Installation Details on Sign Arms	Do Not Use		

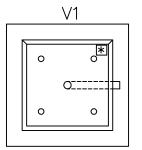


# Victoria - Concrete Base Index

TYPE	DRAWING	BASE TYPE	POLE TYPE
V1	CE 1.2a	SQUARE	TYPE A AND B CLUSTERS
V2		SQUARE	TYPE A AND B CLUSTERS
V3		SONOTUBE	DECORATIVE LIGHT (PEDESTRIAN)
V4		SQUARE	NEW CHINATOWN POLE

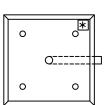
NOTE: ALL PRE-CAST BASES MUST HAVE A "V" GROOVE DRAIN ALIGNED WITH CONDUIT DIRECTION.

# Victoria — Base Conduit Detail



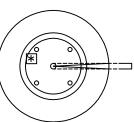
1 - 25 mmR.PVC Conduit

V2



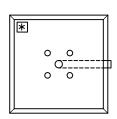
1 - 25 mmR.PVC Conduit

V3



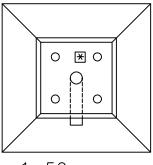
1-25mm R.PVC Conduit

V4



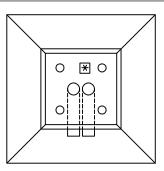
1-25mm R.PVC Conduit

С



1-50mm R.PVC Conduit

E, F, L



2-50mm R.PVC Conduits

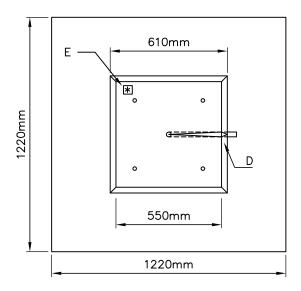
NTS

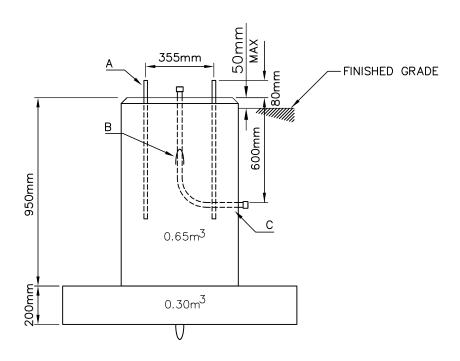
**VICTORIA CONCRETE BASE INDEX & CONDUIT DETAIL** 

REVISIONS DRAWING NUMBER:

SD CE1.1a







#### NOTES:

- A 19ø X 760 C.I. GALV ANCHOR BOLTS
- B SINGLE 60 X 1200 c.l. PLACING CABLES
- C 250 R.PVC FACTORY BEN, CONDUIT STUBBED OUT 50mm AND CAPPED AT BOTH ENDS
- D V-GROOVE DRAIN TOUGH TO START AT ZERO DEPTH IN CENTRE OF BASE TO 10mm AT THE OUTSIDE EDGE. ALIGN WITH CONDUIT.
- E BASE SHALL BE IMPRINTED "V1" IN CONCRETE WITH 25mm HIGH LETTERS. LOCATE SO IT IS VISIBLE AFTER POLE INSTALLATION.

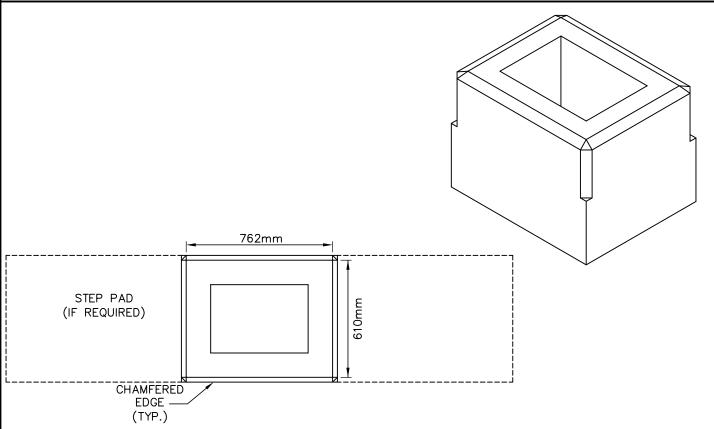
NTS

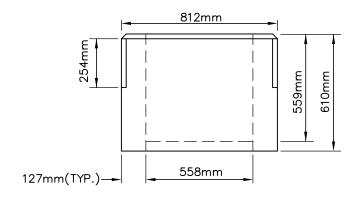
V1 CONCRETE BASE for **CITY OF VICTORIA CLUSTER LIGHTS** 

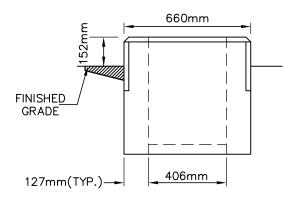
**REVISIONS DRAWING NUMBER:** 

SD CE1.2a









#### NOTES:

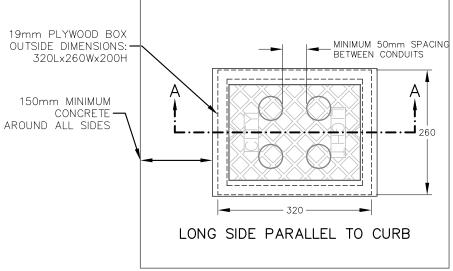
- 1. ALL CHAMFER IS 25mm.
- 2. FINISHED BASE TO SUIT 762mm X 610mm CABINET FOOTPRINT.
- 3. FLOOR TO BE POURED AFTER THE SIDES ARE CURED
- 4. FLOOR TO INCLUDE:
  - 2-76mm CONDUITS [1-76mm FOR 120V AND 1-76mm FOR LOW VOLTAGE].
  - 1-25mm CONDUIT (SERVICE CONDUCTORS)
  - 13mm DRAIN IN SLOPED FLOOR
- 5. STEP PADS 660mm X 914mm REQUIRED IF BASE IS NOT SURROUNDED BY SIDEWALK

NTS

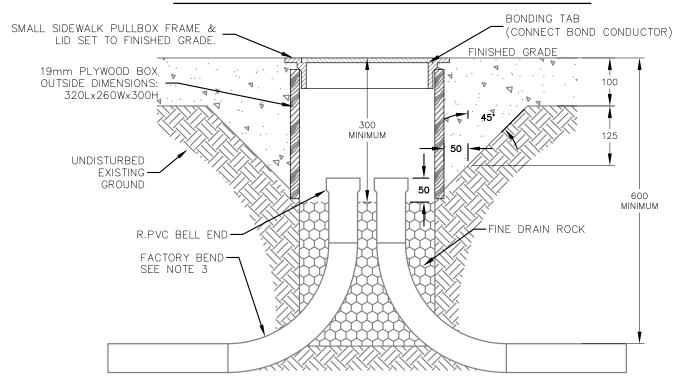
**REVISIONS DRAWING NUMBER:** 

**SD E1.1a** 





# FRAME & COVER



# SECTION A-A

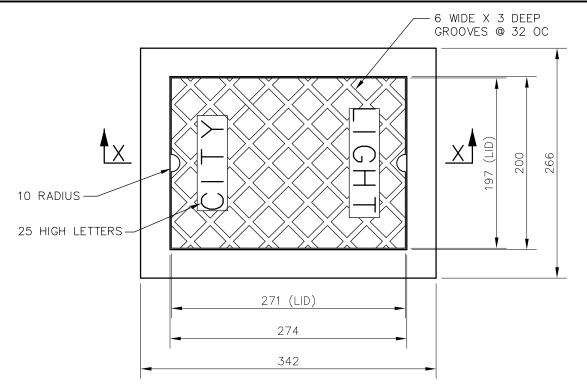
#### NOTES:

- 1. NUMBER & SIZE OF CONDUIT VARIES.
- 2. PULLBOX SIZE VARIES WITH NUMBER OF CONDUIT:
  - •UP TO 4 CONDUIT, USE SMALL PULLBOX (STD300A)
  - •5-8 CONDUIT, USE SIGNAL PULLBOX (STD301A)
- •9+ CONDUIT, USE STREET PULLBOX (STD302A) 3. USE RIGID PVC CONDUIT INSIDE PULLBOX.
- 4. DO NOT INSTALL IN AREAS SUBJECT TO VEHICLE TRAFFIC.
- 5. ALL DIMENSIONS MILLIMETRES UNLESS OTHERWISE NOTED.

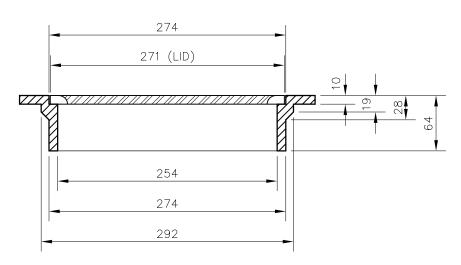
**REVISIONS DRAWING NUMBER:** 

**SD E2.1a** 





### PLAN - FRAME & COVER



# SECTION X-X

### NOTES

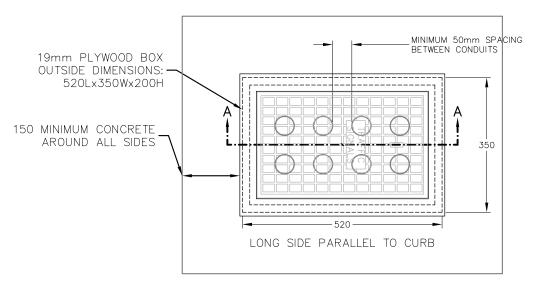
- 1. ALL METAL BEARING SURFACES BETWEEN FRAME AND COVER MACHINED TO ENSURE GOOD SEATING.
- 2. DIMENSIONS ARE BASED ON GRAY IRON CASTINGS
- 3. CASTING TO HAVE GROUNDING STUD AND BE BONDED TO GROUND.

# **CITY LIGHT JUNCTION BOX CASTING DETAIL (RETROFIT ONLY)**

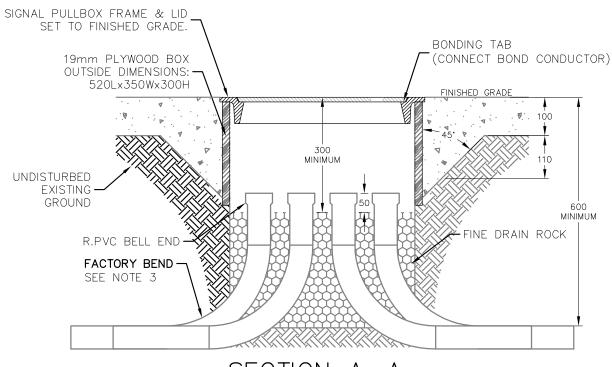
**REVISIONS DRAWING NUMBER:** 

**SD E2.1b** 





# PLAN - FRAME & COVER



### NOTES:

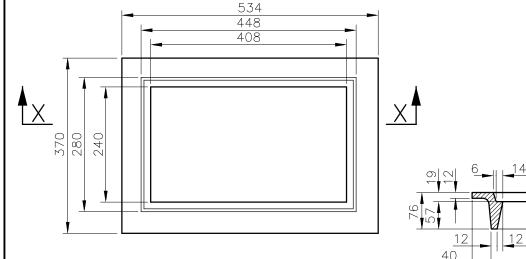
# SECTION A-A

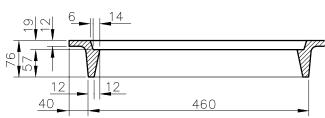
- NUMBER & SIZE OF CONDUIT VARIES.
- PULLBOX SIZE VARIES WITH NUMBER OF CONDUIT:
  - UP TO 4 CONDUIT, USE SMALL PULLBOX (STD300A)
  - 5-8 CONDUIT, USE SIGNAL PULLBOX (STD301A) • 9+ CONDUIT, USE STREET PULLBOX (STD302A)
- USE RIGID PVC CONDUIT INSIDE PULLBOX.
- DO NOT INSTALL IN AREAS SUBJECT TO VEHICLE TRAFFIC.
- ALL DIMENSIONS MILLIMETRES UNLESS OTHERWISE NOTED.

# TRAFFIC SIGNAL JUNCTION BOX (RETROFIT ONLY)

REVISIONS DRAWING NUMBER: **SD E2.1c** 

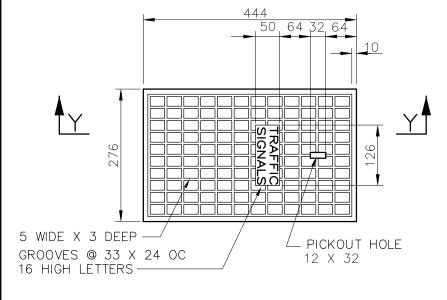


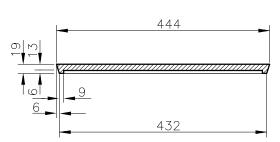




<u>PLAN - FRAME</u>

SECTION X-X





PLAN - COVER

# SECTION Y-Y

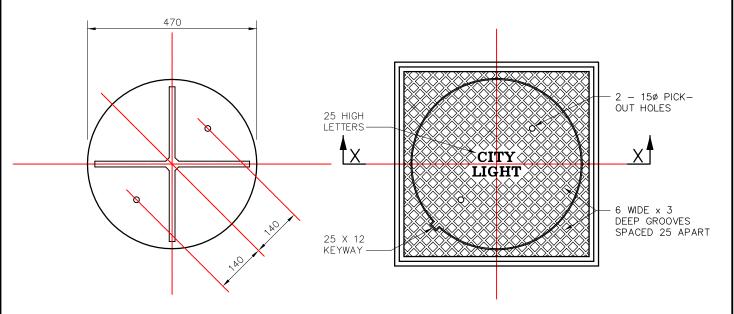
### NOTES

- FRAME AND COVER MACHINED TO ENSURE ALL METAL BEARING SURFACES BETWEEN GOOD SEATING.
- DIMENSIONS ARE BASED ON GRAY IRON CASTINGS 2.
- CASTING TO HAVE GROUNDING STUD AND BE BONDED TO GROUND.

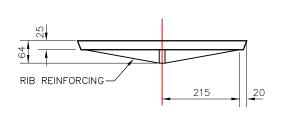
TRAFFIC SIGNAL JUNCTION BOX **CASTING DETAILS (RETROFIT ONLY)** 

REVISIONS DRAWING NUMBER: **SD E2.1d** 

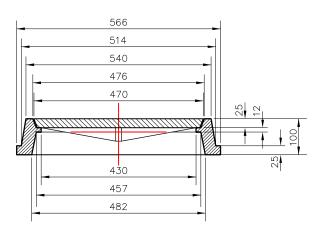




<u>PLAN - COVER U/S REINF.</u> <u>PLAN - FRAME & COVER</u>



SECTION - COVER



SECTION X-X

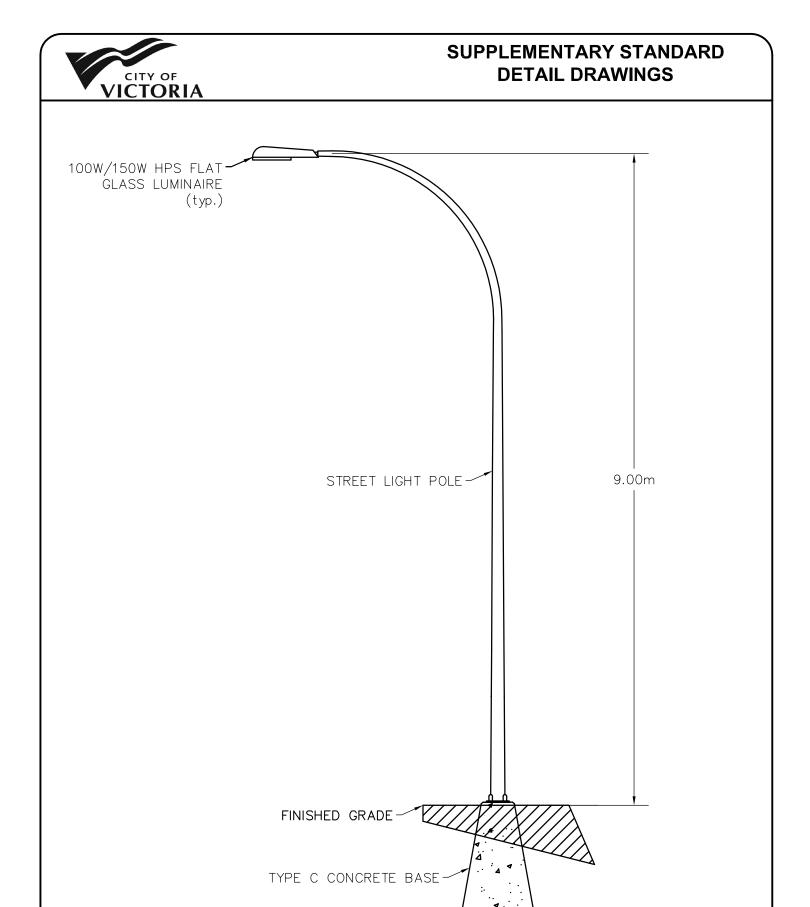
### NOTES

- 1. MATERIAL: CAST IRON.
- 2. CASTING SHALL HAVE A DESIGN LOAD STRENGTH IN ACCORDANCE WITH ASSHO H20 LOADING.
- 3. ALL METAL BEARING SURFACES BETWEEN FRAME AND COVER MACHINED TO INSURE GOOD SEATING.
- 4. CASTING TO HAVE GROUNDING STUD AND BE BONDED TO GROUND.

**ROUND STEEL CASTING FOR ROADWAY APPLICATIONS (RETROFIT ONLY)** 

**REVISIONS DRAWING NUMBER:** 

**SD E2.1e** 



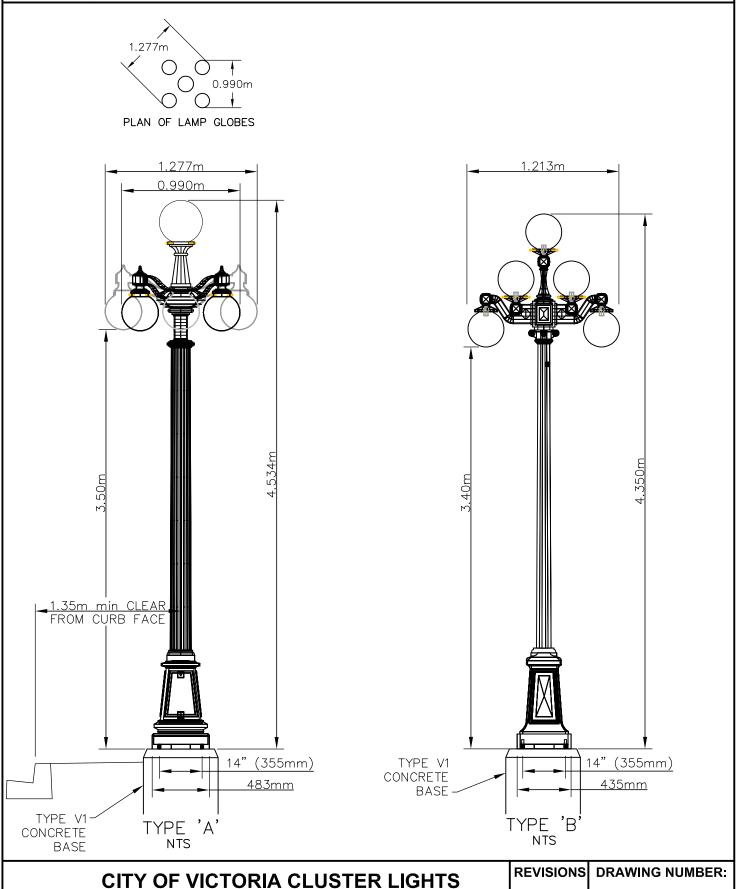
STREET LIGHT POLE (TYPICAL)

REVISIONS DRAWING NUMBER:

**SD E4.1a** 



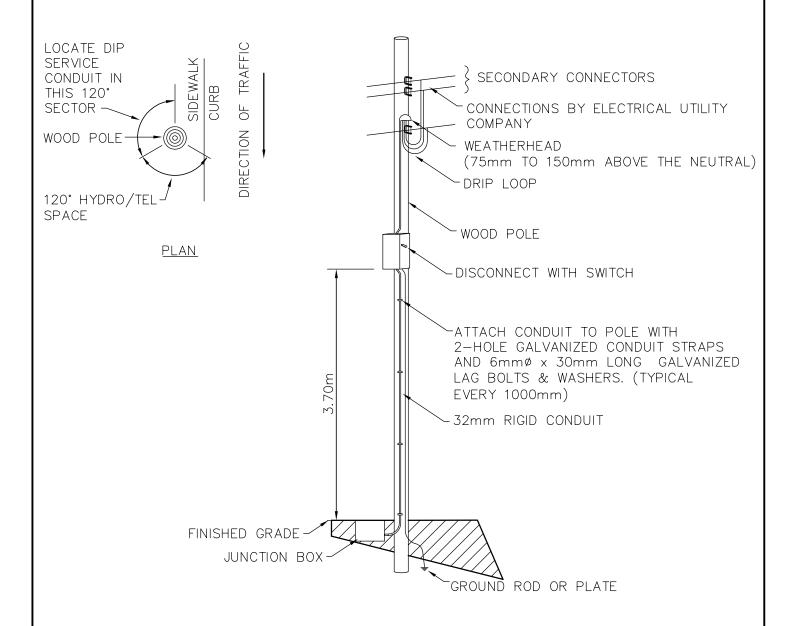
SD E4.19a



**TYPE 'A' & 'B'** 

2011





### NOTES

- 1. REFER TO CONTRACTOR DRAWINGS, AND MMCD SECTION 34 41 13 FOR DETAIL SPECIFICATIONS
- 2. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF SERVICE CONDUCTORS. CONNECTION BY ELECTRICAL UTILITY COMPANY UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR TO OBTAIN PERMISSION FROM UTILITY COMPANY PRIOR TO EQUIPMENT ON THEIR POLE.
- 4. ALL DIMENSIONS IN MILLEMETRES UNLESS OTHERWISE NOTED.
- 5. SERVICE CONDUCTORS AS DETAILED ON CONTRACT DRAWINGS.

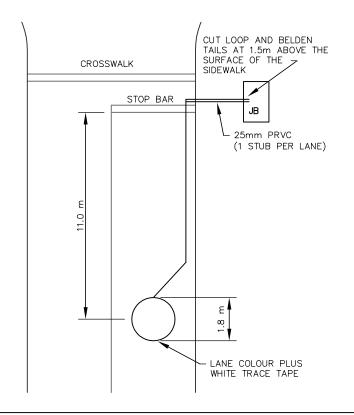
# OVERHEAD DIP SERVICE FOR SIGNALS AND STREET LIGHTS

REVISIONS DRAWING NUMBER:

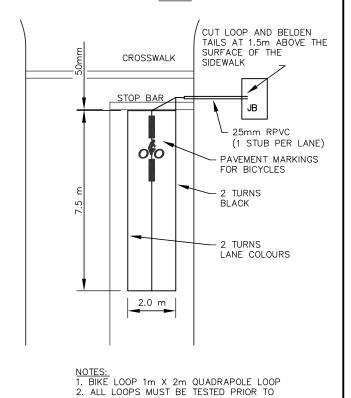
**SD E7.1a** 



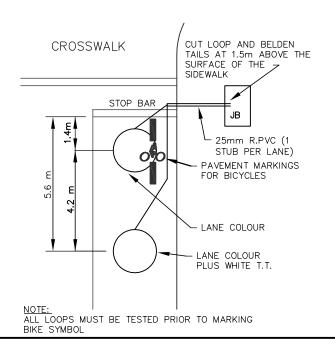
### 1.8m (4 TURN) ROUND LOOP- EXTENSION



### 2.0m X 7.5m QUADRAPOLE LOOP



### 1.8m (4 TURN) CIRCLE LOOPS



#### SIGNAL WIRING

LOOP WIRE	PHASE MOVEMENT
CURB = BLUE	$\emptyset$ 2 = RED
NEXT = YELLOW	$\emptyset$ 4 = GREEN
NEXT = RED	$\emptyset$ 6 = YELLOW
NEXT = BROWN	$\emptyset$ 8 = BLUE
T.T. = TRACE TAPE	

MARKING BIKE SYMBOL

#### SIGNAL CONDUCTORS

 $5C \overline{(#14AWG)} = VEHICLE$ 

4C (#14AWG) = L/T ARROW AND PED

3C (#14AWG) = PRE-EMPTION (120V)

3C (#20AWG) C/W DRAIN = PRE-EMPTION (LOW VOLTAGE)

2C (#16AWG)= PUSH BUTTON

2C (#16AWG) BELDEN c/w SHIELD = VEHICLE LOOP

2C (#16AWG) BELDEN NO SHIELD = PED INHIBIT

\*ALL CONDUCTORS TO THE CONTROLLER NEED TO BE 2X THE CABINET HEIGHT

STREET LIGHTING CONDUCTOR NOTES:

1. #6 STREET LIGHTING CONDUCTORS THAT ARE TERMINATED WITHIN UNDERGROUND JB'S ARE TO BE DONE SO WITH THE APPROPRIATE RATED SPLIT BOLTS. TAPING TO BE BLACK VINYL TAPE, VULCANIZED

RUBBER, THEN BLACK TAPE.

3. ALL TERMINATIONS TO BE MINIMUM 450mm OUT OF THE JB.
4. STREET LIGHTING CONDUCTORS WITHIN HANDHOLES

(MINIMUM 200mm) ARE TO BE CONNECTED BY A C.E.C. APPROVED METHOD AND TAPED WITH BLACK VINYL TAPE.

5. ALL UNUSED CONDUITS TO BE CAPPED, COMPLETE WITH PULLSTRING.

6. MINIMUM WIRE SIZES:

-FEEDERS: -FEEDERS: #6 -JB TO POLE: #10 -INSIDE POLE: #14

# TRAFFIC SIGNAL **LOOPS & WIRING**

**SD E8.1a**