



**DESIGN  
STANDARDS  
For  
URBAN  
INFRASTRUCTURE**

**STREET LIGHTING**

**SECTION 12**

**DRAWINGS**

# 12 STREET LIGHTING DRAWINGS

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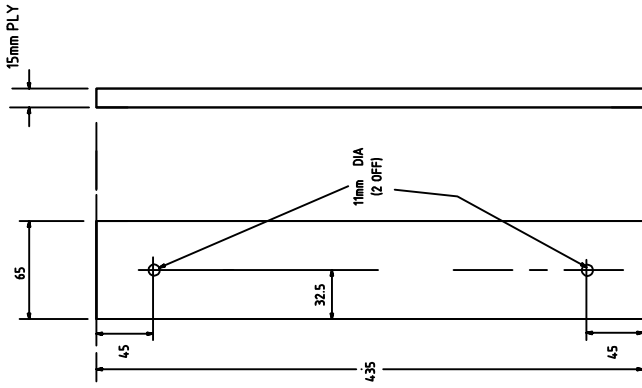
<b>Lighting Standard</b>	<b>No.</b>	<b>Rev.</b>
<b>DS12-01 Wiring, Cables &amp; Information</b>		
Blank Panels for Streetlight Columns	DS12-01-01	0
Minor Streetlight Panel for Integral Luminaires on Concrete Post Top Columns	DS12-01-02	0
Slip Base Panel Layout Wiring Diagram	DS12-01-03	0
Streetlighting Contactor Panel Pole Mounted	DS12-01-04	0
Slip Base Column Base Wiring	DS12-01-05	0
Link Panel for Integral Luminaires on Energy Absorbing Columns	DS12-01-06	0
Link Panel for Integral Luminaires on 3.5m Column	DS12-01-07	0
Link Panel for Integral Luminaires on Slip Base Columns	DS12-01-08	0
Link Panel for Integral Luminaires on 4.1m Post Top Columns (Suitable for Bega Lights & Kim Arche Luminaires)	DS12-01-09	0
Streetlight Control Panel for Non-Integral Metal Halide Luminaires	DS12-01-10	0
Streetlight Control Panel for Twin/Traffic 150/250W HPS Non-Integral Luminaires Layout & Schematic	DS12-01-11	0
Streetlight Control Panel for 400W MV Single Non-Integral Luminaires	DS12-01-12	0
Streetlight Control Panel for 250W MV Single Non-Integral Luminaires	DS12-01-13	0
Streetlight Control Panel for 250W Metal Halide Lamps	DS12-01-14	0
Streetlight Control Panel for Single Line Diagram	DS12-01-15	0
Streetlight Control Cubicle	DS12-01-16	0
Streetlight Control Cubicle ActewAGL Service Connection Arrangement	DS12-01-17	0
Streetlight Control Box	DS12-01-18	0
Sports Oval Lighting Control Box Pole Mounted	DS12-01-19	0
MEN Earthing of Streetlight	DS12-01-20	0
Streetlighting 1Ø Neutral Screen Straight Through Joint	DS12-01-21	0
Streetlighting 3Ø Neutral Screen Straight Through Joint	DS12-01-22	0
Streetlight Column Identification Plate	DS12-01-23	0
PEC Activation Time Graph	DS12-01-24	0
<b>DS12-02 Footings</b>		
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Concrete Footing Details & Streetlight Control Cubicle	DS12-02-02	0
Indicative Footing Details for Octagonal Columns	DS12-02-03	0
<b>DS12-03 Columns</b>		
Complap Concrete Streetlight Column	DS12-03-01	0
4.0m Tapered Streetlight Column	DS12-03-02	0
4.5m Tapered Streetlight Column	DS12-03-03	0
6.5m Tapered Streetlight Column with Ladder Rest	DS12-03-04	0
6.5m Tapered Octagonal Single Streetlight	DS12-03-05	0

9.0m Impact Absorbing Column Base Plate Mounted	DS12-03-06	0
9.0m Impact Absorbing Column in Ground Mounted	DS12-03-07	0
10.5m Impact Absorbing Column Base Plate Mounted	DS12-03-08	0
10.5m Impact Absorbing Column in Ground Mounted	DS12-03-09	0
12.0m Impact Absorbing Column Base Plate Mounted	DS12-03-10	0
12.0m Impact Absorbing Column in Ground Mounted	DS12-03-11	0
9.0m Slip Base	DS12-03-12	0
10.5m Slip Base	DS12-03-13	0
12.0m Slip Base	DS12-03-14	0
6.5m Dual Streetlight Column	DS12-03-15	0
6.5m Decorative Streetlight Column	DS12-03-16	0
4.5m Forde Type 1 in Ground Mounted Decorative Streetlight Column	DS12-03-17	0
4.5m Forde Type 2 in Ground Mounted Decorative Streetlight Column	DS12-03-18	0
6.5m Forde Type 3 in Ground Mounted Decorative Streetlight Column	DS12-03-19	0
6.5m Forde Type 2 in Ground Mounted Decorative Streetlight Column	DS12-03-20	0
9.0m Forde Type 3 in Ground Mounted Decorative Streetlight Column	DS12-03-21	0
9.0m Forde Type 4 in Ground Mounted Decorative Streetlight Pole	DS12-03-22	0
Canberra Multipole Streetlight	DS12-03-23	0
12.0 m Tapered Octagonal Column	DS12-03-24	0

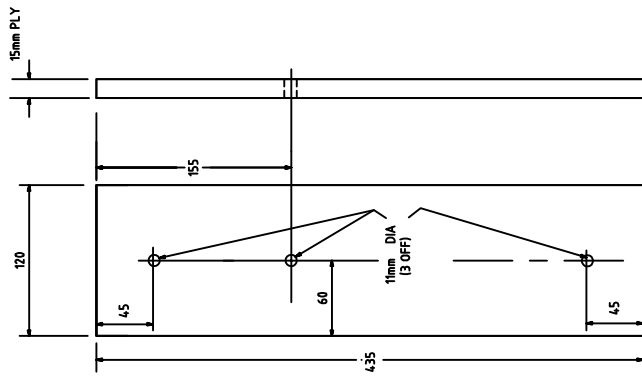
**DS12-04 Outreach Arms & Brackets**

Electrical Pole Bracket	DS12-04-01	0
Streetlight Bracket Arm for Wood Poles	DS12-04-02	0
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Mid Arm Mounting Bracket for Pedestrian Flood Lights	DS12-04-04	0
0.5m Outreach Pole Mounted Bracket	DS12-04-05	0
1.5m 4 way Pipe Outreach Arm	DS12-04-06	0
VPACTOR750 R-2 Streetlight Outreach	DS12-04-07	0
Dual 1.5m Outreach	DS12-04-08	0
VPACTORW1.5S 1.5m Single Outreach	DS12-04-09	0
VPACTORW3.0D Dual 3m Outreach	DS12-04-10	0
VPACTORW3.0S 3m Single Outreach	DS12-04-11	0
VPACTORW3.7D Dual 3.5m Outreach	DS12-04-12	0
VPACTORW3.7D-90 Dual 3.5m Outreach 90 Degree	DS12-04-13	0
VPACTORW3.75S 3.5m Single Outreach	DS12-04-14	0
VPACTORW4.5D Dual 4.5m Outreach	DS12-04-15	0
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VPACTORW4.5D-90 Dual 4.5m Outreach 90 Degrees	DS12-04-17	0

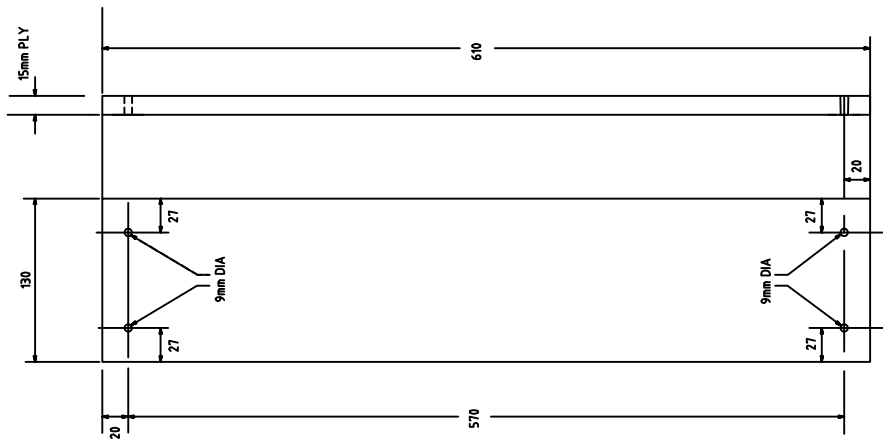
## **12.1 DS12-01 Wiring, Cables & Information**



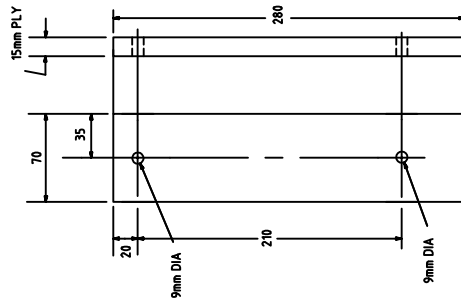
**KIM LIGHTING PANEL**  
FOR 4.8m AND 6.0m COLUMNS  
STOCK CODE No 1163814



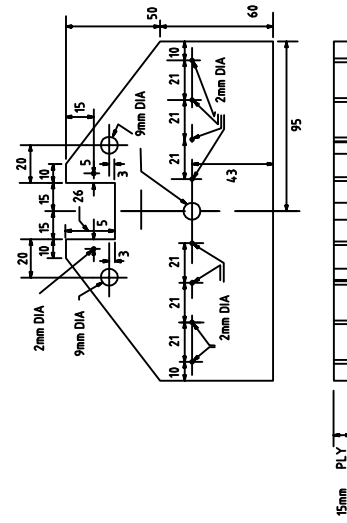
**INTERMEDIATE S/L PANEL**  
FOR 3.5m POST TOP COLUMNS  
STOCK CODE No 1088476



**MAJOR S/L PANEL**  
9.10.5 & 12m COLUMNS  
STOCK CODE No 1088488



**MINOR S/L PANEL**  
FOR 6.5m COLUMNS  
STOCK CODE No 1088506



**PANEL BASE FOR SLIP BASE COLUMNS**  
STOCK CODE No 1088518

- NOTES**
1. PANELS TO BE CONSTRUCTED FROM BB GRADE "A" BOND EXTERIOR HOOP PINE VENEER PLY AS SHOWN ON DRAWING
  2. ALL ROUGH EDGES TO BE SANDED AND PANELS COATED WITH CLEAR MARINE VARNISH OR SIMILAR
  3. ALL MEASUREMENTS IN MILLIMETRES

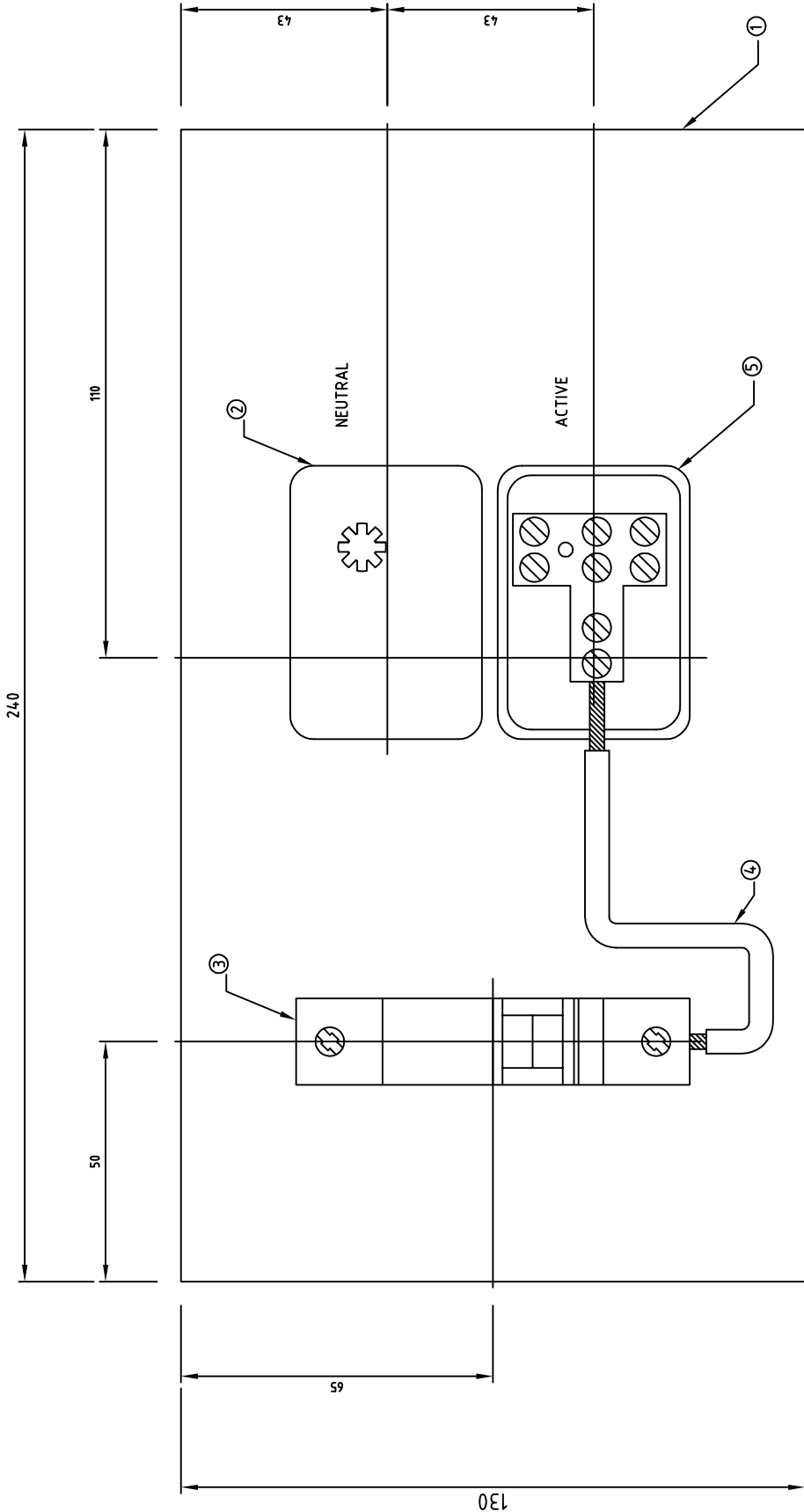
**ACT GOVERNMENT**

**DESIGN STANDARD**  
**URBAN INFRASTRUCTURE**

Authorised Signature	NC	*	Date
Drawn	WC	*	Date
Project Engineer	WC	*	Date
<b>BLANK PANELS FOR STREETLIGHT COLUMNS</b>			
Scale	NOT TO SCALE	Date	14/09/06
AutocAD File			
Drawing No.	<b>DS12-01-01</b>		Sheet No.
			<b>0</b>

THIS DRAWING IS HAS BEEN REPRODUCED WITH PERMISSION FROM INGAAL EPS FROM THEIR DRAWING NUMBER SL 1066 DATED 06/09/05

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Item	Description	Quantity
1	Panel Base, insulation, natural paper laminate 3.2mm	1
2	Insulated connector block (Black)	1
3	MCB 10A 1 Phase	1
4	2.5mm <sup>2</sup> SDI cable (Red Core)	0.2m
5	Insulator Connector Block (Red)	1
6	Rail, Terminal Mounting KLIPPON Type TSK 35	0.02

Complete Assembly

NOTES

1. MOUNTING HOLES TO BE DRILLED ON SITE TO SUIT COLUMN.
2. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES

ACT GOVERNMENT  
  
**DESIGN STANDARD  
 URBAN INFRASTRUCTURE**

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Drawn NC \* Date \_\_\_\_\_  
 Project Engineer WC \* Date \_\_\_\_\_

**MINOR STREETLIGHT PANEL  
 FOR INTEGRAL LUMINAIRE  
 ON CONCRETE POST TOP  
 COLUMNS**

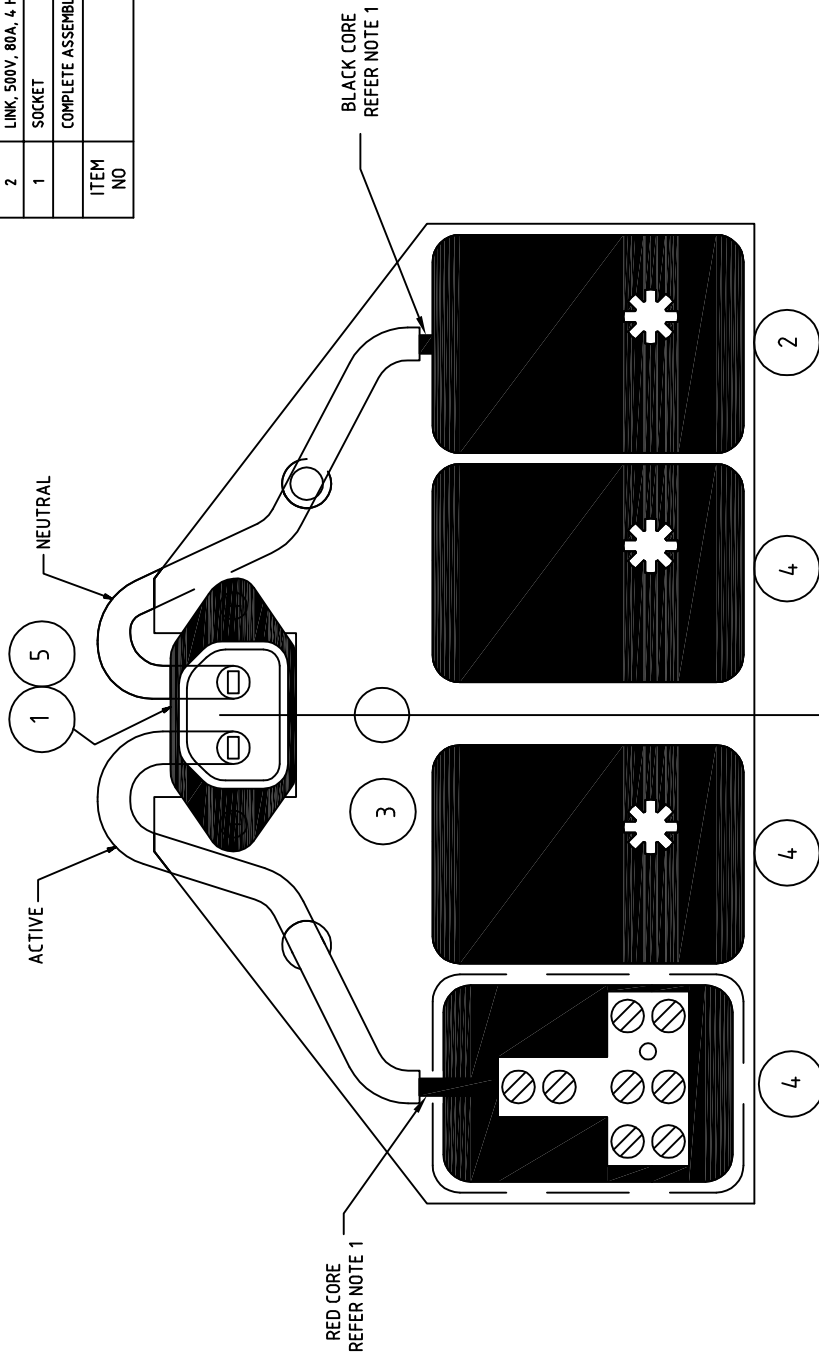
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Drawing No. **DS12-01-02** Revision No. **0**


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5	PLUG, WITH ONE METRE LONG BLACK OR GREAY SHEATH, 3 CORE, 10A RATED CABLE	3
4	LINK, 500V, 80A, 4 HOLE ACTIVE/NEUTRAL METER TYPE RED	1
3	PANEL, STREETLIGHT, SLIP BASE, 190x10x15	1
2	LINK, 500V, 80A, 4 HOLE ACTIVE/NEUTRAL METER TYPE BLACK	1
1	SOCKET	1
	COMPLETE ASSEMBLY	
ITEM NO	DESCRIPTION	QTY



- NOTES
1. CABLE SHEATH TO BE STRIPPED TO EXPOSE CORE COLOURS BY 13mm AT THE CONNECTOR END SO THAT THE COLOUR IS VISIBLE WHEN THE COVER IS IN PLACE.
  2. ALL WIRING IS TO BE 2.5mm<sup>2</sup> Cu SINGLE CORE DOUBLE INSULATED CONDUCTOR

**ACT GOVERNMENT**  
  
**DESIGN STANDARD**  
**URBAN INFRASTRUCTURE**

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Drawn: NC \* Date: \_\_\_\_\_  
 Project Engineer: WC \* Date: \_\_\_\_\_

**SLIP BASE PANEL LAYOUT**  
**WIRING DIAGRAM**

Scale: NOT TO SCALE Date: 14/09/06  
 AutoCAD File: \_\_\_\_\_

Drawing No. **DS12-01-03** Revision No. **0**

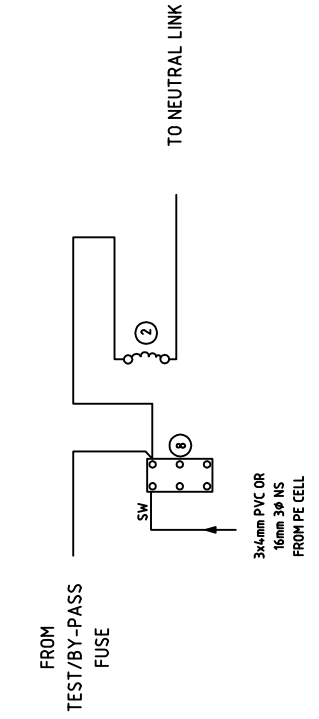
\*THIS DRAWING HAS BEEN REPRODUCED BY THE ACT GOVERNMENT WITH PERMISSION FROM ACTEWA GL.  
 THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWA GL DRAWING NO. 795-9-004 REVISION C - DATED 04/07/06

# FUSE GRADING

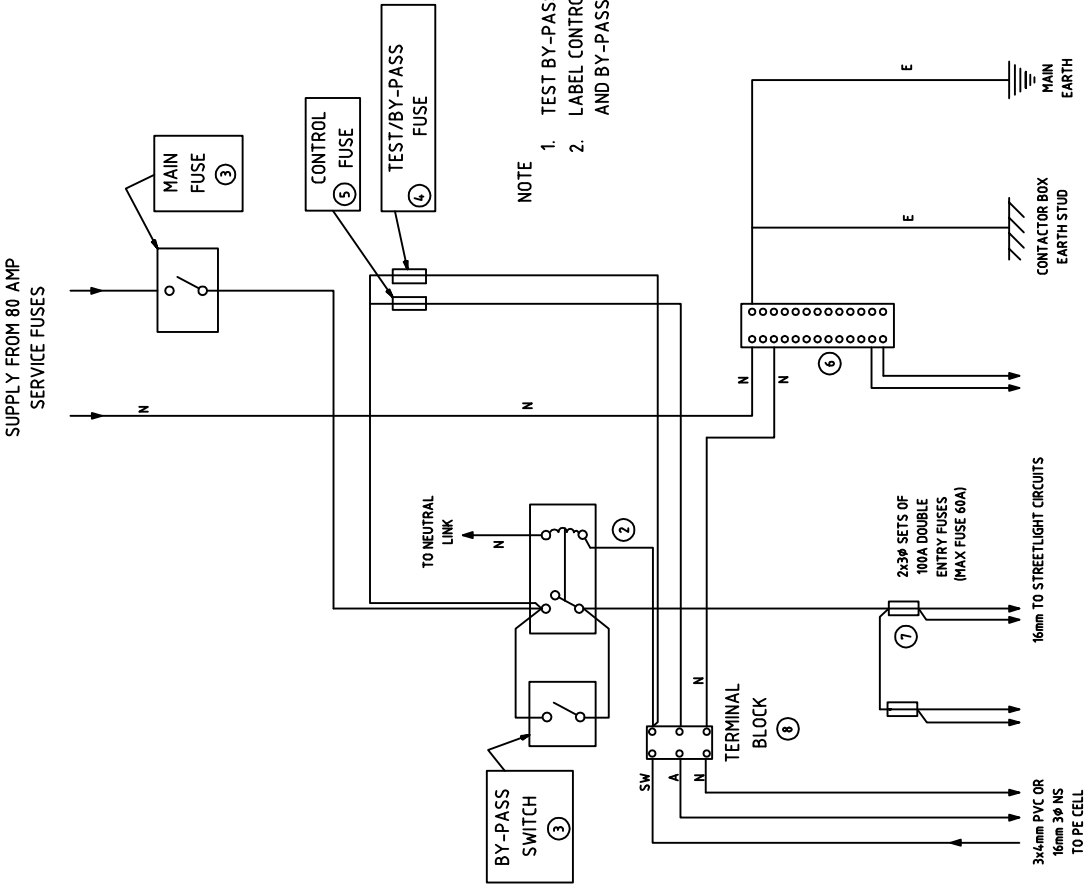
- SERVICE FUSES 80 AMP
- CIRCUIT FUSES 60 AMP
- TEST CONTROL FUSE 10 AMP

# LEGEND

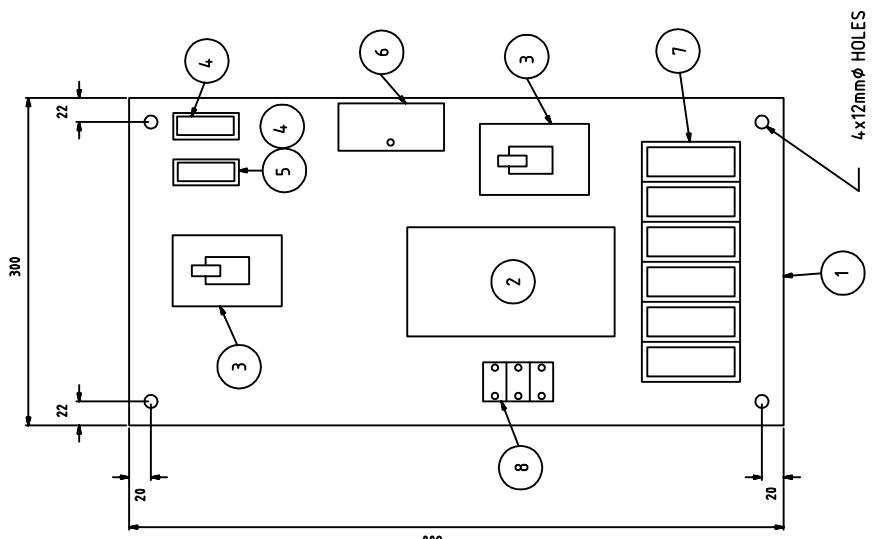
- LABELS ON PANEL (MAIN SWITCH RED, OTHERS WHITE)
- MAIN 3φ WIRING
- MAIN NEUTRAL WIRE 16mm
- EARTH WIRES (6mm)
- 1φ CONTROL WIRING
- CONTROL NEUTRAL WIRING 4mm



ITEM	DESCRIPTION
1	PANEL, 600x300x1
2	MAGNETIC CONTACTOR 240V, 100A, 3φ
3	MAIN SWITCH 440V, 80A, 3 POLE
4	CONTROL FUSE HOLDER 440V, 32A
5	10 AMP FUSE CARTRIDGE
6	NEUTRAL LINK 500V, 300A 13 HQLE
7	CCT FUSES, FUSE HOLDERS, 500V 100A
8	TERMINAL BLOCK



# PANEL LAYOUT



ACT GOVERNMENT

DESIGN STANDARD URBAN INFRASTRUCTURE

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Drawn: NC \* Date: \_\_\_\_\_

Project Engineer: WC \* Date: \_\_\_\_\_

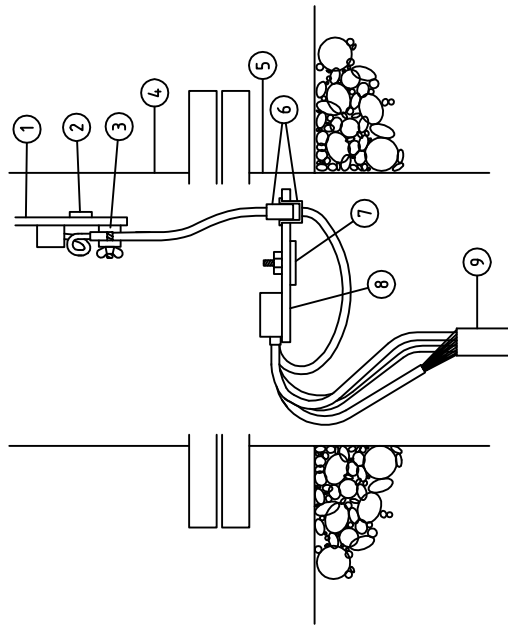
STREETLIGHTING CONTACTOR PANEL POLE MOUNTED

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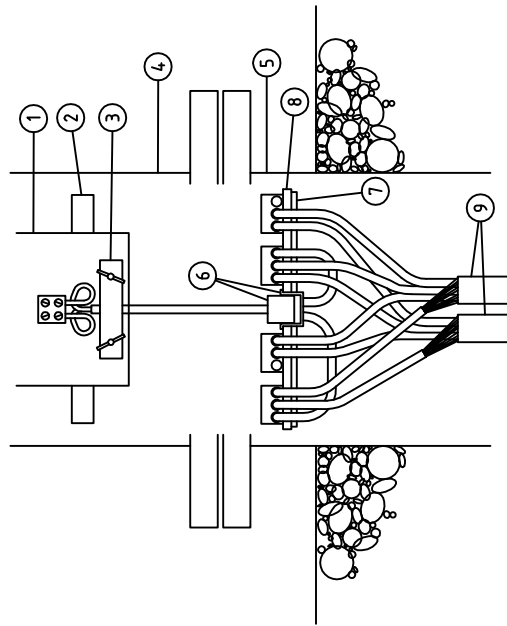
Drawing No.: **DS12-01-04** Revision No.: **0**

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LEGEND:

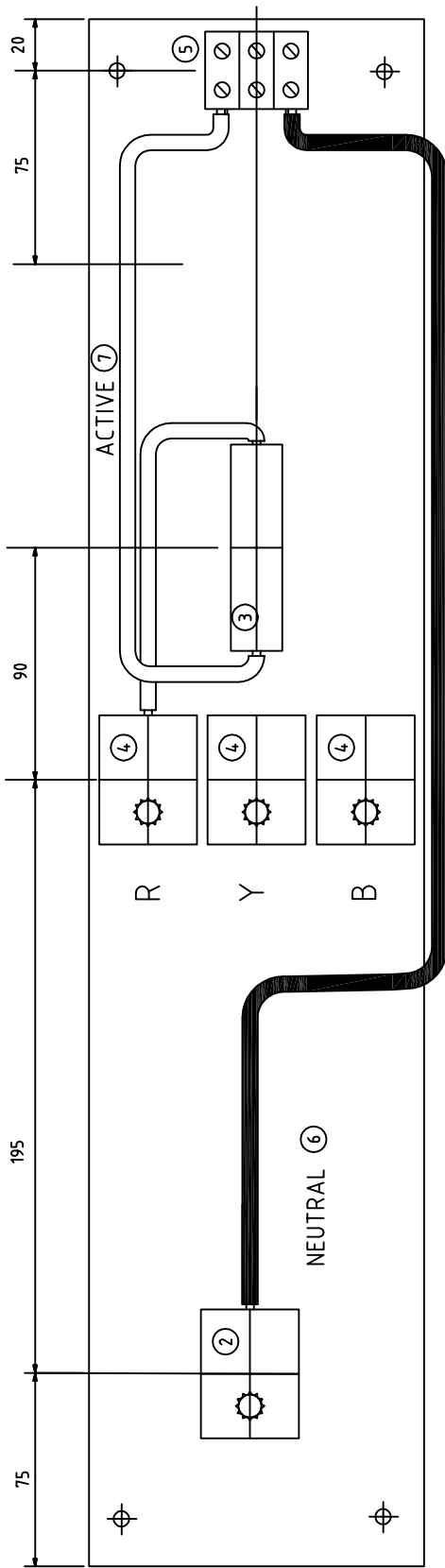
1. CONTROL PANEL (MAY HAVE CONTROL GEAR, FUSE, ECT)
2. COLUMN PANEL MOUNTING STRAP
3. FLEXIBLE CABLE CLAMP
4. COLUMN-TOP SECTION
5. COLUMN-BASE SECTION
6. DISCONNECTING "JUG" PLUG & SOCKET. (EXPOSED VIEW)
7. BASE PANEL MOUNTING STRAP
8. BASE PANEL WITH TERMINAL LINKS
9. SUPPLY CABLES.



ACT GOVERNMENT  
  
 DESIGN STANDARD  
 URBAN INFRASTRUCTURE

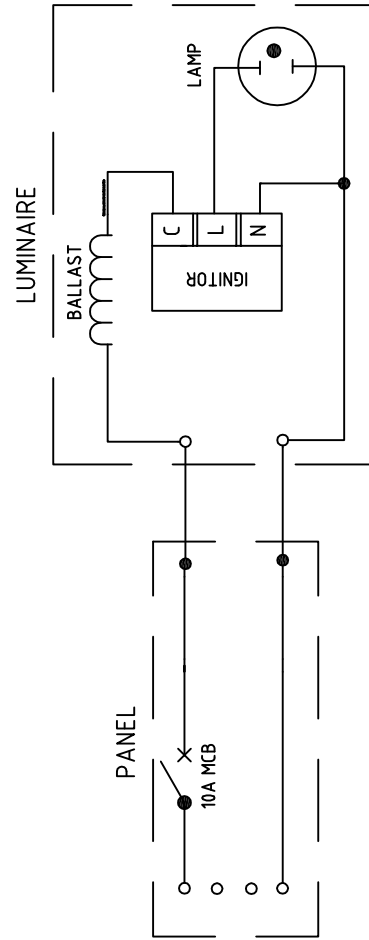
Authorized Signature		Date	
Drawn	NC	Date	
Project Engineer	WC	Date	
SLIP BASE COLUMN BASE WIRING			
Scale	NOT TO SCALE	Date	14/09/06
AutoCAD File			

Drawing No. **DS12-01-05**  
 Revision No. **0**



PLAN  
SCALE 1 : 2

COMPLETE ASSEMBLY		1
ITEM No	DESCRIPTION	QTY
7	RAIL TERMINAL MOUNTING, KLIPPON TYPE	1
6	CABLE, SDI, 2.5mm <sup>2</sup> INSULATED SHEATHED BLACK CORE	0.6m
5	CABLE, SDI, 2.5mm <sup>2</sup> INSULATED SHEATHED RED CORE	1.1m
4	PLASTIC TERMINAL STRIP (BP535)	3
3	INSULATED CONNECTOR LINK (RED)	3
2	1 PHASE 10 AMP MCB	1
1	INSULATED CONNECTOR LINK (BLACK)	1
	MAJOR S/L PANEL BASE (130 X 610)	1



SCHEMATIC DIAGRAM

NOTE:  
FOR DETAILS OF BASE (ITEM 1)  
REFER DRAWING 795-1-010

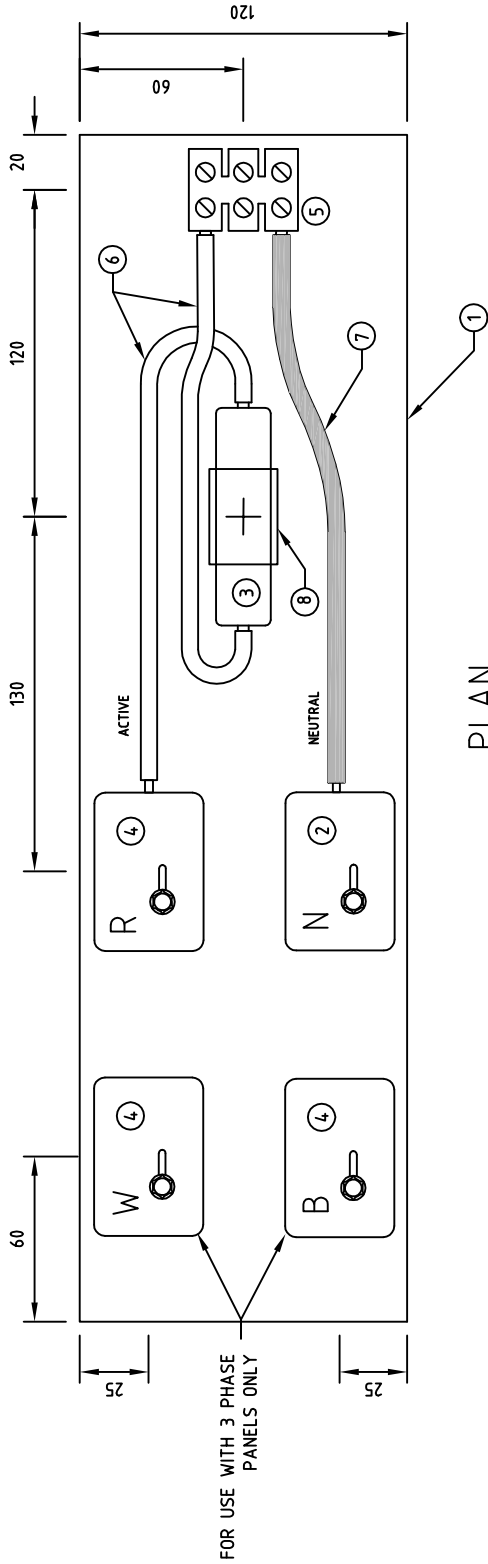
ACT GOVERNMENT  
DESIGN STANDARD  
URBAN INFRASTRUCTURE

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_  
Drawn NC \* Date \_\_\_\_\_  
Project Engineer WC \* Date \_\_\_\_\_

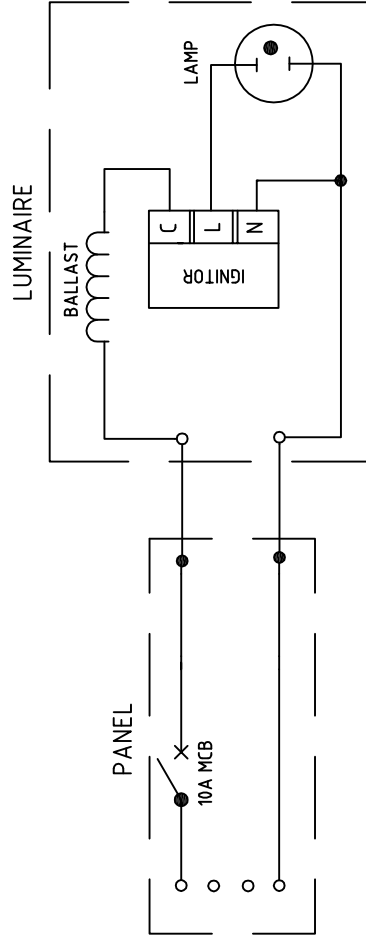
LINK PANEL  
FOR INTEGRAL LUMINAIRES  
ON ENERGY ABSORBING  
COLUMNS

Scale NOT TO SCALE Date 14/09/06  
AutoCAD File \_\_\_\_\_

Drawing No. **DS12-01-06** Revision No. **0**



PLAN  
Scale 1:2



SCHEMATIC DIAGRAM

NOTE

1. USE WITH INTEGRAL LUMINAIRE (70W SON etc.)

COMPLETE ASSEMBLY			
ITEM	DESCRIPTION	QTY	
8	RAIL TERMINAL MOUNTING KLIPPON TYPE TSK 35	0.02m	
7	CABLE 2.5mm <sup>2</sup> 1 CORE DOUBLE INSULATED BLACK	0.4m	
6	CABLE 2.5mm <sup>2</sup> 1 CORE DOUBLE INSULATED WHITE	0.5m	
5	PLASTIC TERMINAL STRIP (BP535)	1	
4	INSULATED CONNECTOR LINK (RED)	3	
3	1 PHASE 10 AMP MCB	1	
2	INSULATOR CONNECTOR LINK (BLACK)	1	
1	INTERMEDIATE S/L PANEL BASE (120x435)	1	

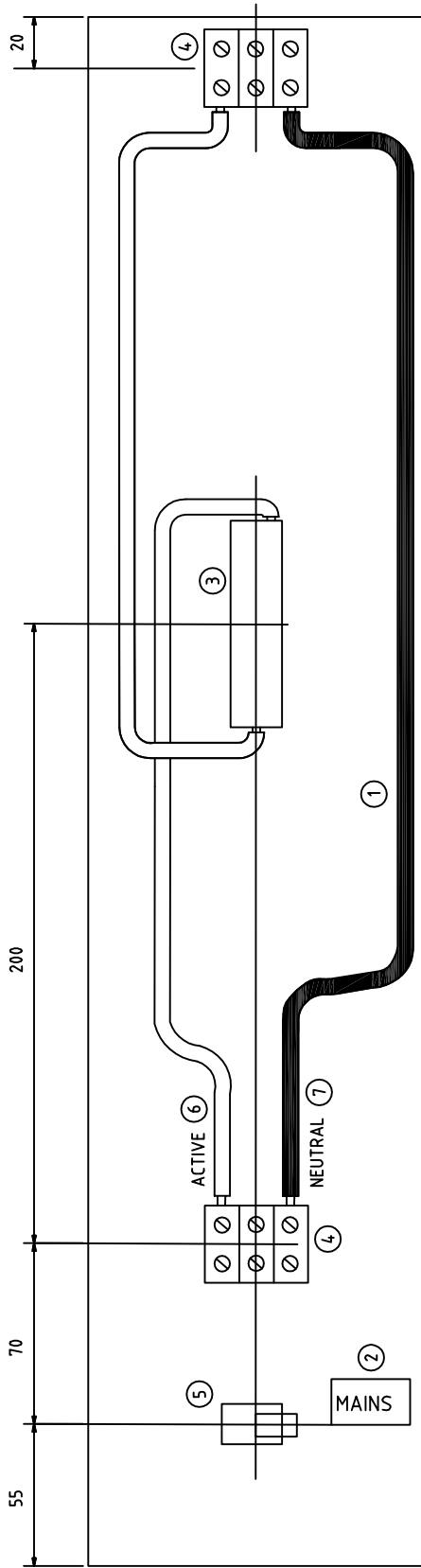
ACT GOVERNMENT  
DESIGN STANDARD  
URBAN INFRASTRUCTURE

Authorised Signature  
Drawn: NC  
Project Engineer: WC  
Date: / /  
Date: / /

LINK PANEL  
FOR INTEGRAL LUMINAIRES  
ON 3.5m COLUMN

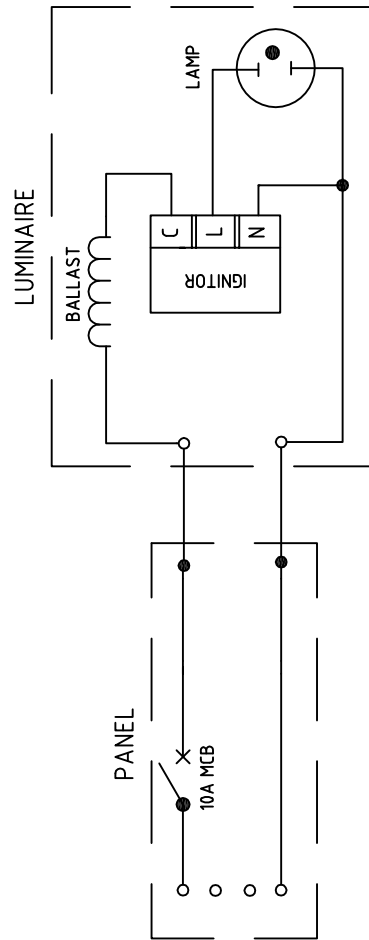
Scale: NOT TO SCALE  
Date: 14/09/06  
AutoCAD File

Drawing No.: **DS12-01-07**  
Revision No.: **0**



PLAN  
SCALE 1 : 2

COMPLETE ASSEMBLY		0.6m	1.1m	1	6	1	1	1	QTY
7	CABLE,SDI,2.5mm <sup>2</sup> INSULATED SHEATHED BLACK CORE								
6	CABLE,SDI,2.5mm <sup>2</sup> INSULATED SHEATHED RED CORE								
5	CABLE CLAMP SUITABLE FOR 7mm DIA CABLE (FARNELL ORDER CODE 434-03 OR EQUIVALENT)								
4	PLASTIC TERMINAL STRIP (BP535)								
3	1 PHASE 10 AMP MCB								
2	LABELS (MAINS) SIZE 50 x 20								
1	MAJOR S/L PANEL BASE (130 X 610)								
ITEM No	DESCRIPTION								



SCHEMATIC DIAGRAM

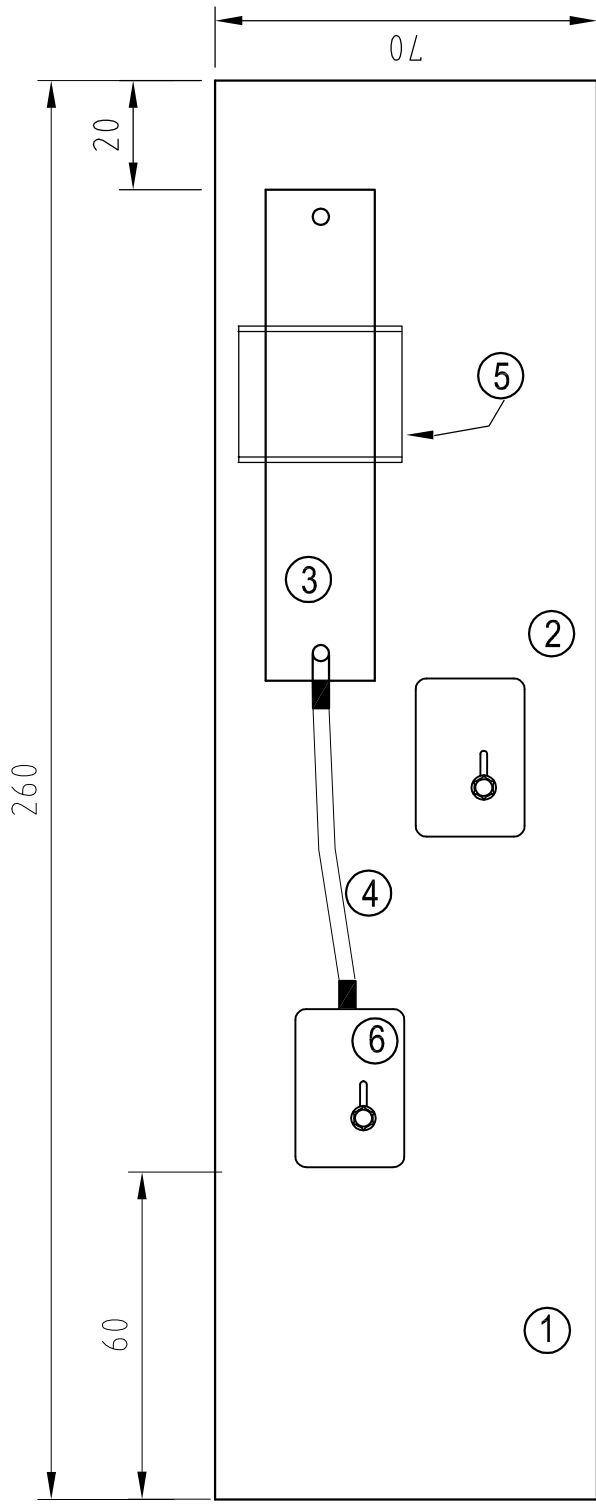
WIRING  
1069378  
1069380

BLACK 2.5mm Cu DOUBLE INSULATED WHITE SHEATH WITH BLACK INNER INSULATION (NEUTRAL)  
RED 2.5mm Cu DOUBLE INSULATED BLACK SHEATH WITH RED INNER INSULATION

\*THIS DRAWING HAS BEEN REPRODUCED BY THE ACT GOVERNMENT WITH PERMISSION FROM ACTEWAAGL.  
THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWAAGL DRAWING NO. 795-9-008 REVISION E - DATED 16/09/03



Authorized Signature	Date
Drawn NC	Date
Project Engineer WC	Date
LINK PANEL FOR INTEGRAL LUMINAIRES ON SLIP BASE COLUMNS	
Scale NOT TO SCALE	Date 14/09/06
AutoCAD File	
Drawing No. DS12-01-08	Revision No. 0




COMPLETE ASSEMBLY

Item	Description	Quantity
1	Panel Base, Insulation, natural paper laminate 3.2mm	1
2	Insulated connector block	1
3	MCB 10A 1 Phase	1
4	2.5mm <sup>2</sup> SDI Cable (Red Core)	0.2m
5	Din Rail to suit	
6	Insulator Connector Block (Red)	1

NOTES

1. ALL DIMENSIONS ARE SHOWN IN MILLIMETRES



**ACT GOVERNMENT**  
DESIGN STANDARD  
URBAN INFRASTRUCTURE

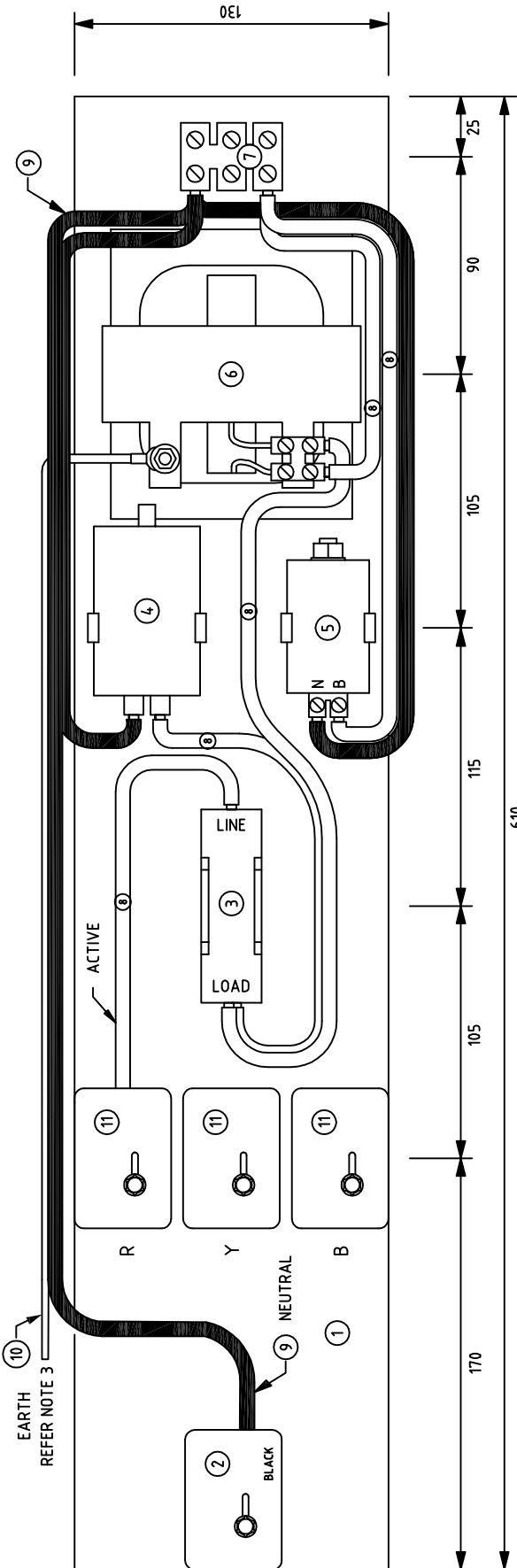
LINK PANEL FOR  
INTEGRAL LUMINAIRES  
ON 4.1m POST TOP COLUMNS  
(SUITABLE FOR BEGA LIGHTS  
AND KIM ARCHE LUMINAIRES)

Authorized Signature		Date	
Drawn	NC	Date	
Project Engineer	WC	Date	

Scale	Date
NOT TO SCALE	14/09/06

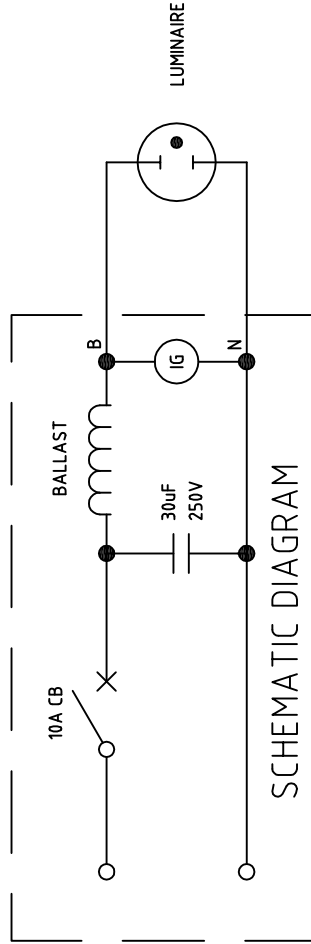
AutocAD File

Drawing No.	Revision No.
<b>DS12-01-09</b>	<b>0</b>



PLAN

COMPLETE ASSEMBLY		QTY
8	SCREW 4x0.5" PAN PHILLIPS	8
2	RAIL TERMINAL MOUNTING KLIPPON TYPE TS1635	2
6	CABLE TIE 142x3.2mm BLACK	6
4	LINK 500V 80A 4 HOLE ACTIVE/NEUTRAL	4
1	CRIMP LUG 2.5mm x M5 COPPER	1
1	SCREW CHEESE 3/16"	1
2	NUT 3/16"	2
1	WASHER 3/16"	1
11	INSULATED CONNECTOR LINK (RED)	3
10	2.5mm <sup>2</sup> 1C EARTH CABLE (Green/Yellow)	0.8m
9	2.5mm <sup>2</sup> 1C DOUBLE INSULATED CABLE (BLACK CORE)	-
8	2.5mm <sup>2</sup> 1C DOUBLE INSULATED CABLE (RED CORE)	-
7	CONNECTOR STRIP	3
6	BALLAST 250V 400W MBF ATCO CATALOGUE 06B400-09 OR EQUIVALENT	1
5	IGNITOR ECA501 VOSSL0H SCHWABE OR EQUIVALENT	1
4	CAPACITOR 30uF 250V 50HZ	1
3	MINIATURE CIRCUIT BREAKER 10A SINGLE POLE	1
2	INSULATED CONNECTOR LINKS BLACK	4
1	S/L PANEL BASE (130x610)	1
ITEM	DESCRIPTION	QTY



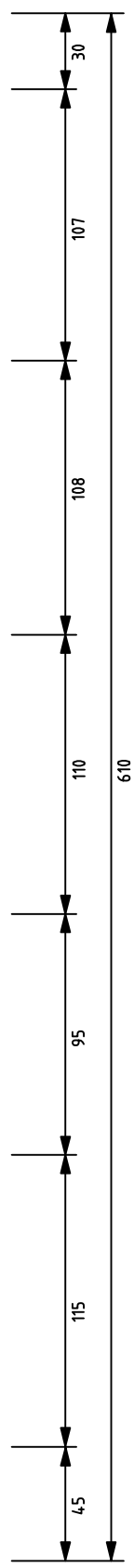
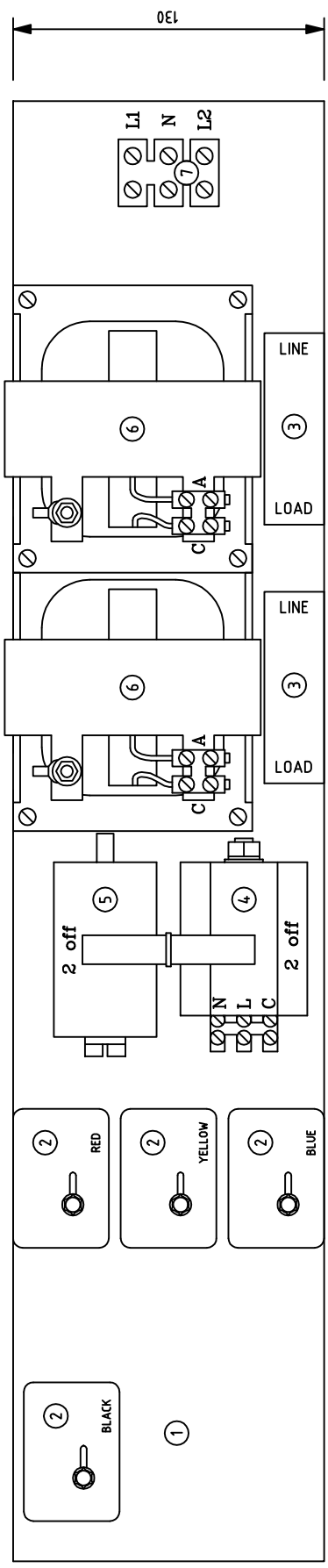
NOTES

1. TERMINALS FOR CAPACITOR & IGNITOR SHOULD POINT DOWNWARD
2. LINE SIDE OF THE MINIATURE CIRCUIT BREAKER SHOULD POINT UP
3. EARTH CABLE (ITEM 10) SHOULD NOT BE CONNECTED TO INSULATOR LINK. LEAVE CABLE COILED AND CLIPPED TO PANEL - LENGTH TO BE 800mm

ACT GOVERNMENT  
DESIGN STANDARD  
URBAN INFRASTRUCTURE

Drawn	NC	Date	
Project Engineer	WC	Date	
Authorized Signature			
STREETLIGHT CONTROL PANEL FOR NON INTEGRAL METAL HALIDE LUMINAIRE			
Scale	NOT TO SCALE	Date	14/09/06
AutoCAD File			
Drawing No.	DS12-01-10	Revision No.	0



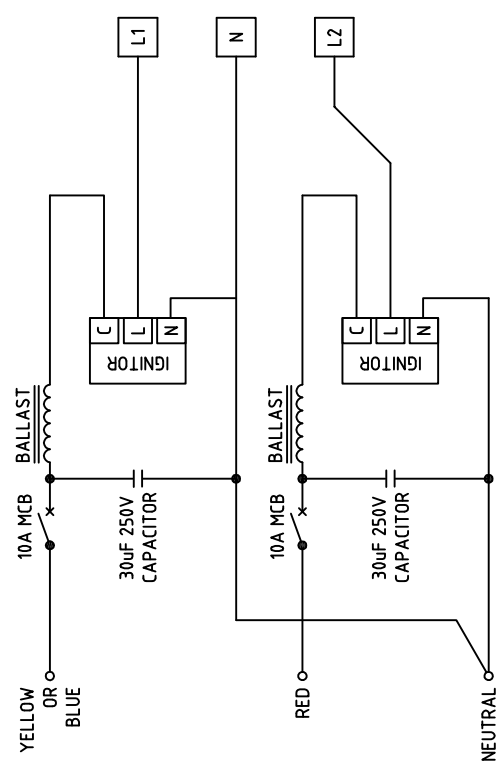


**150W HPS**

No	DESCRIPTION	0.8m
8	EARTH CABLE SDI 2.5mm <sup>2</sup>	3
7	PLASTIC TERMINAL STRIP (BP 535)	2
6	150W H.P.S. NON ENCAPSULATED BALLAST - ATCO OGS150-03	2
5	30uF 250V CAPACITOR	2
4	IGNITOR ATCO AMZN400	2
3	1 PHASE 10A MCB	4
2	INSULATED CONNECTOR LINK (BLACK)	1
1	MAJOR STREETLIGHT PANEL BASE	

**250W HPS**

No	DESCRIPTION	0.8m
8	EARTH CABLE SDI 2.5mm <sup>2</sup>	3
7	PLASTIC TERMINAL STRIP (BP 535)	2
6	250W H.P.S. NON ENCAPSULATED BALLAST - ATCO OGS250-100	2
5	30uF 250V CAPACITOR	2
4	IGNITOR ATCO AMZN400	2
3	1 PHASE 10A MCB	1
2	INSULATED CONNECTOR LINK (BLACK)	1
1	MAJOR STREETLIGHT PANEL BASE	



**SCHEMATIC DIAGRAM**

**NOTES**

1. EARTH CABLE (ITEM 8) SHOULD NOT BE CONNECTED TO INSULATOR LINK. LEAVE CABLE COILED AND CLIPPED TO PANEL - LENGTH TO BE 800mm

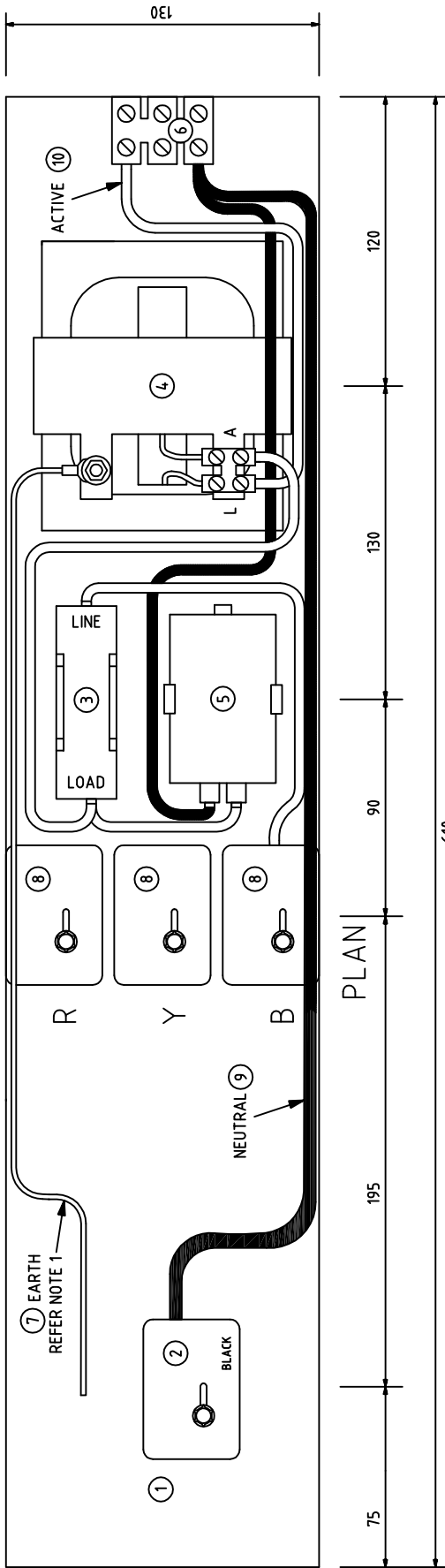
**ACT GOVERNMENT**  
  
**DESIGN STANDARD**  
**URBAN INFRASTRUCTURE**

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Drawn: NC \* Date: \_\_\_\_\_  
 Project Engineer: WC \* Date: \_\_\_\_\_

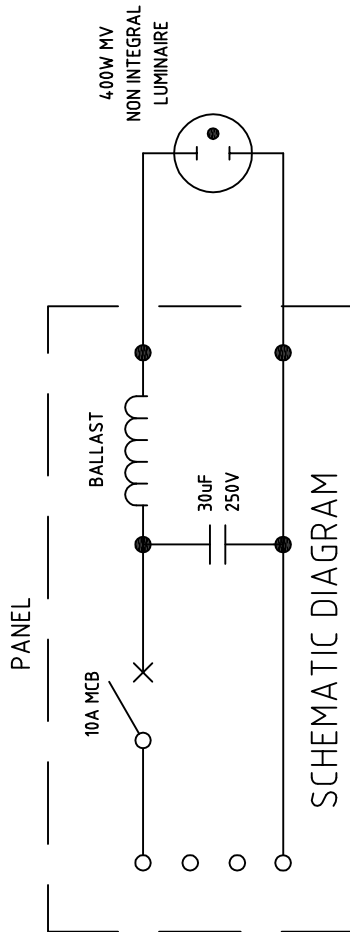
**STREETLIGHT CONTROL PANEL FOR TWIN/TRAFFIC 150W/250W HPS NON INTEGRAL LUMINAIRES LAYOUT AND SCHEMATIC**

Scale: NOT TO SCALE Date: 14/09/06  
 AutoCAD File: \_\_\_\_\_  
 Drawing No.: **DS12-01-11** Revision No.: **0**

\* THIS DRAWING HAS BEEN REPRODUCED BY THE ACT GOVERNMENT WITH PERMISSION FROM ACTEWAGL. THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWAGL DRAWING NO. 795-9-012 REVISION A - DATED 30/08/02




COMPLETE ASSEMBLY		QTY
1	WASHER 3/16" BRASS	2
2	SELF TAP SCREW, 4x.5", PHILLIPS HEAD	8
3	SCREW 3/16" BRASS	1
4	NUT 3/16"	1
5	RAIL TERMINAL MOUNTING, KLIPPON TYPE TSK 35	2
6	QUICKLUG 2.5mm <sup>2</sup> x M5.1 BOLT HOLE COPPER	1
7	CABLE TIE 14x2x3.2mm BLACK NYLON	1
8	CABLE SDI 2.5mm <sup>2</sup> INSULATED BLACK	0.6m
9	CABLE SDI 2.5mm <sup>2</sup> INSULATED RED	1.1m
10	INSULATED CONNECTOR LINKS (RED)	3
11	EARTH CABLE SDI 2.5mm <sup>2</sup> (GREEN/YELLOW)	0.8m
12	PLASTIC TERMINAL STRIP (30A)	3
13	CAPACITOR 30uF, 250V	1
14	BALLAST ENCAPSULATED 250V 400W MBF - ATCO No. OGB4,00-09	1
15	MINIATURE CIRCUIT BREAKER 10A SINGLE POLE	1
16	INSULATED CONNECTOR LINKS (BLACK)	1
17	S/L PANEL BASE (130x610)	1
ITEM	DESCRIPTION	



NOTES

1. EARTH CABLE (ITEM 7) SHOULD NOT BE CONNECTED TO INSULATOR LINK. LEAVE CABLE COILED & CLIPPED TO PANEL - LENGTH TO BE 800mm.

ACT GOVERNMENT  
  
**DESIGN STANDARD**  
**URBAN INFRASTRUCTURE**

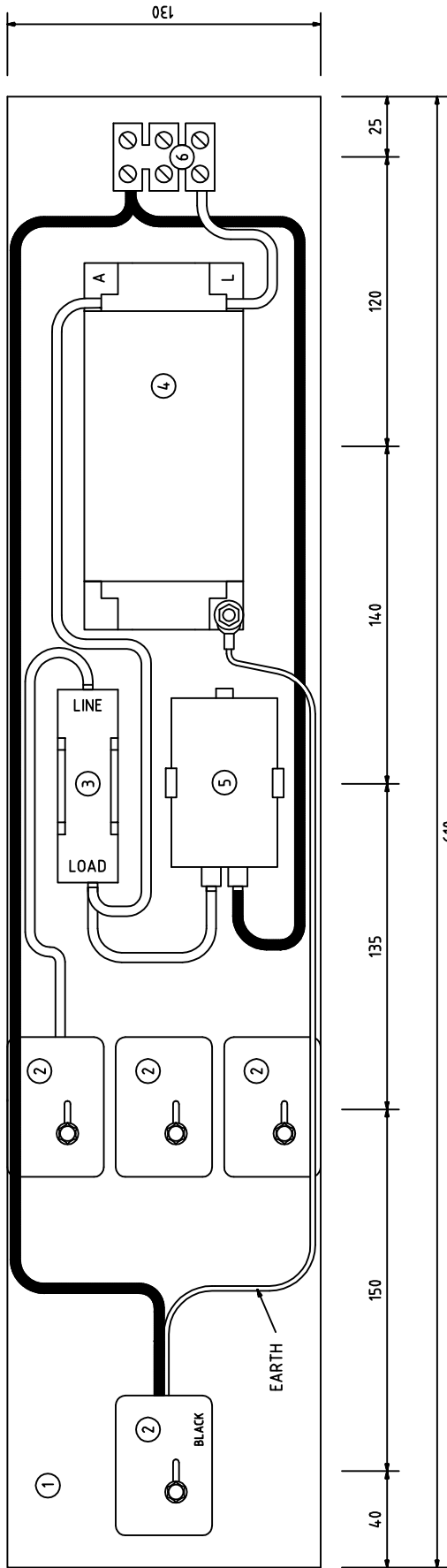
Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_  
 Drawn NC \* Date \_\_\_\_\_  
 Project Engineer WC \* Date \_\_\_\_\_

**STREETLIGHT CONTROL PANEL**  
**FOR 400W MV SINGLE**  
**NON INTEGRAL LUMINAIRE**

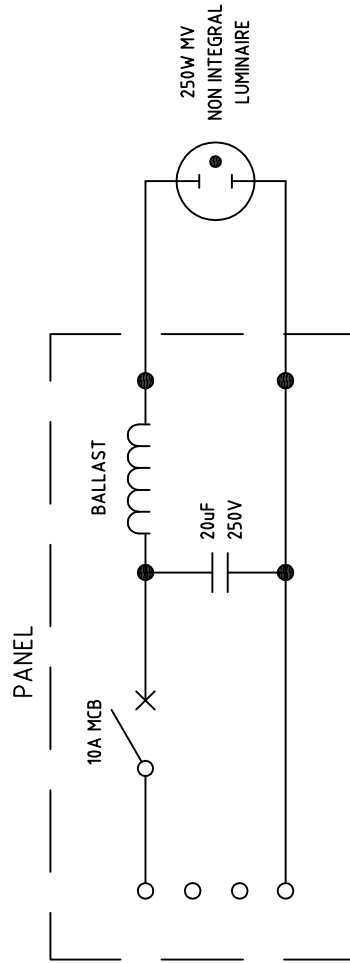
Scale NOT TO SCALE Date 14/09/06  
 AutoCAD File \_\_\_\_\_

Drawing No. **DS12-01-12** Revision No. **0**

\* THIS DRAWING HAS BEEN REPRODUCED BY THE ACT GOVERNMENT WITH PERMISSION FROM ACTEWAAGL. THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWAAGL DRAWING NO. 795-9-013 REVISION C - DATED 17/09/03



PLAN



SCHEMATIC DIAGRAM

COMPLETE ASSEMBLY		
ITEM	DESCRIPTION	QTY
6	PLASTIC TERMINAL STRIP (30A)	3
5	CAPACITOR 20uF, 250V	1
4	BALLAST ENCAPSULATED 250V 250W MBF - ATCO No.OMB250-02	1
3	MINIATURE CIRCUIT BREAKER 10A SINGLE POLE	1
2	INSULATED CONNECTOR LINKS (500V, 80A, 4 HOLE)	4
1	S/L PANEL BASE (130x610)	1

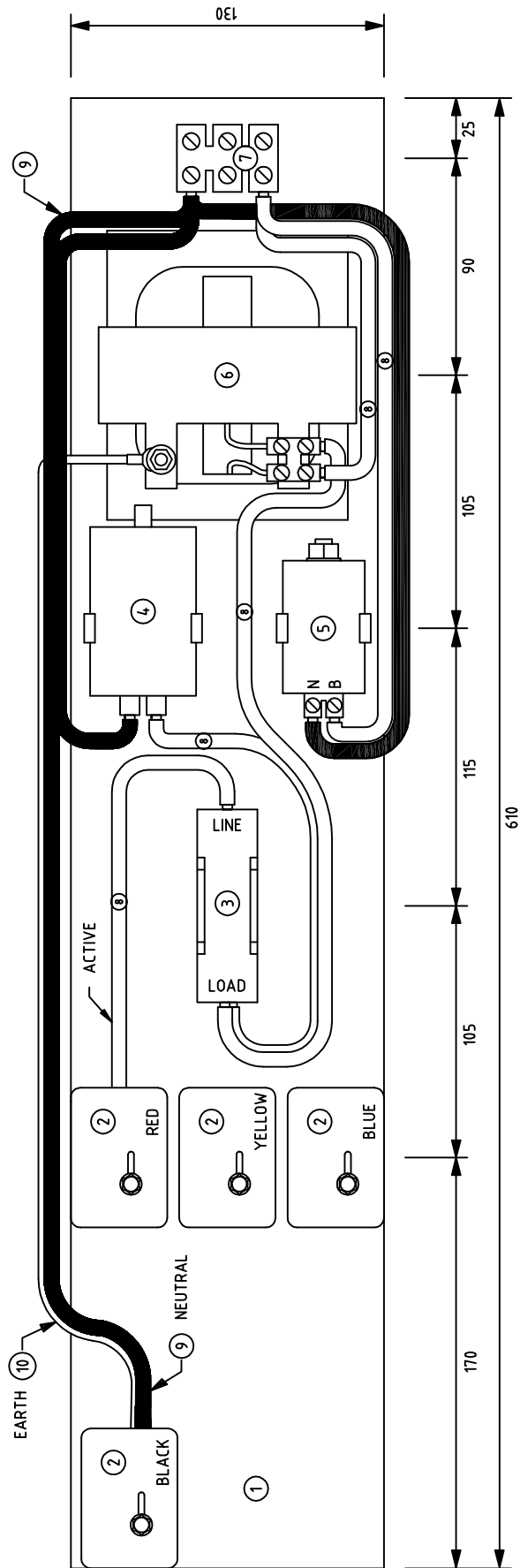
ACT GOVERNMENT  
DESIGN STANDARD  
URBAN INFRASTRUCTURE

Drawn: NC \* Date: \*  
Project Engineer: WC \* Date: \*

STREETLIGHT CONTROL PANEL  
FOR 250W MV  
SINGLE NON INTEGRAL  
LUMINAIRE

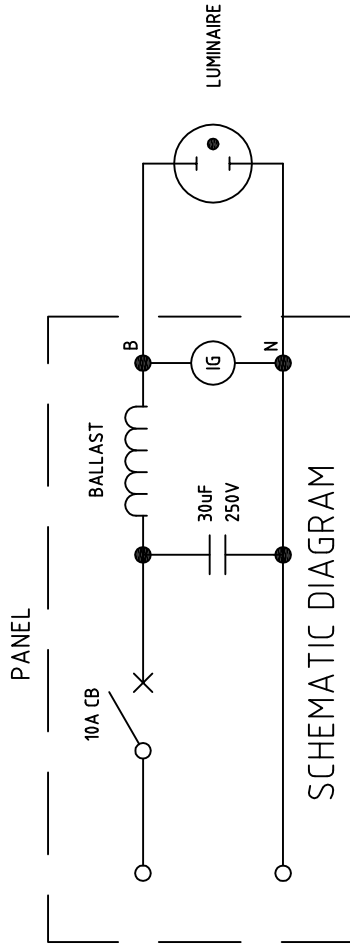
Scale: NOT TO SCALE Date: 14/09/06  
AutoCAD File

Drawing No. **DS12-01-13** Revision No. **0**



PLAN

COMPLETE ASSEMBLY		QTY
10	2.5mm <sup>2</sup> 1C EARTH CABLE (Green/Yellow)	0.8m
9	2.5mm <sup>2</sup> 1C DOUBLE INSULATED CABLE (Black)	-
8	2.5mm <sup>2</sup> 1C DOUBLE INSULATED CABLE (White)	-
7	CONNECTOR STRIP	3
6	BALLAST 250V 250W MBF ATCO CATALOGUE OMB250-03 OR EQUIVALENT	1
5	IGNITOR ECA501 VOSSLOH SCHWABE OR EQUIVALENT	1
4	CAPACITOR 30uF 250V 50HZ	1
3	MINIATURE CIRCUIT BREAKER 10A SINGLE POLE	1
2	INSULATED CONNECTOR LINKS	4
1	S/L PANEL BASE (130x610)	1
ITEM	DESCRIPTION	QTY



SCHEMATIC DIAGRAM

NOTES

1. TERMINALS FOR CAPACITOR & IGNITOR SHOULD POINT DOWNWARD
2. LINE SIDE OF THE MINIATURE CIRCUIT BREAKER SHOULD POINT UP
3. EARTH CABLE (ITEM 10) SHOULD NOT BE CONNECTED TO INSULATOR LINK. LEAVE CABLE COILED AND CLIPPED TO PANEL - LENGTH TO BE 800mm

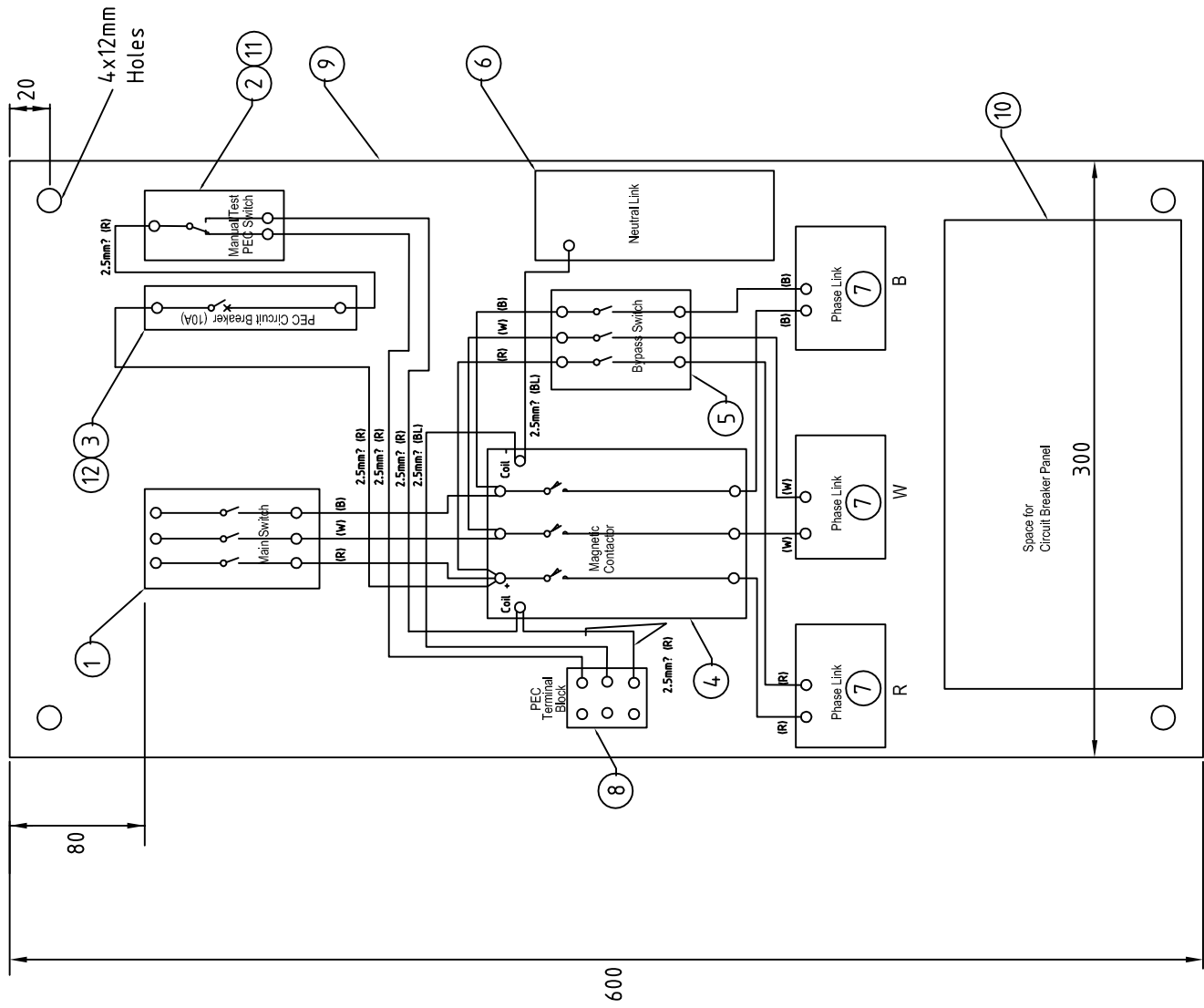
**ACT GOVERNMENT**  
DESIGN STANDARD  
URBAN INFRASTRUCTURE

Drawn: NC      Date:      Date:      Date:  
Project Engineer: WC

**STREETLIGHT CONTROL PANEL FOR 250W METAL HALIDE LAMPS**

Scale: NOT TO SCALE      Date: 14/09/06  
AutoCAD File:      Revision No: **0**

\* THIS DRAWING HAS BEEN REPRODUCED BY THE ACT GOVERNMENT WITH PERMISSION FROM ACTEWA GL. THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWA GL DRAWING NO. 795-9-017 - DATED 28/08/02



Item No	Description	Qty
12	CABLE 2.5mm <sup>2</sup> SINGLE CORE - RED	2m
	CABLE 2.5mm <sup>2</sup> SINGLE CORE - BLACK	1m
	CABLE 16mm <sup>2</sup> SINGLE CORE - BLUE	1m
	CABLE 16mm <sup>2</sup> SINGLE CORE - WHITE	1m
	CABLE 16mm <sup>2</sup> SINGLE CORE - RED	1m
	DIN RAIL CLIPPON TYPE - TSK35	1
11	ARCHITRAVE MOUNTING BLOCK (HPM1413-09)	1
10	CB 1 MODULE ENCLOSURE (HAGVM01C)	1
9	BLACK BAKERLITE PANEL (600x300)	1
8	PEC TERMINAL BLOCK (30A)	1
7	PHASE LINKS (RED)	3
6	NEUTRAL LINK 500v 300A 10 HOLE	1
5	BYPASS SWITCH	1
4	MAGNETIC CONTACTOR	1
3	10 AMP CIRCUIT BREAKER	1
2	10A Single Gang Switch	1
1	MAIN SWITCH 3PH - 440v 80A	1
	PANEL COMPLETE	-

**NOTES**

1. ALL WIRING TO BE 16mm<sup>2</sup> PVC SINGLE CORE CONDUCTOR UNLESS SHOWN OTHERWISE.
2. NUMBER OF CIRCUIT BREAKERS RATING AND TYPE ( I.E. 3φ OR 1φ ) TO BE DETERMINED BY THE PROJECT MANAGER TO SUIT INDIVIDUAL PROJECT REQUIREMENTS.
3. CABLE COLOUR CODES ARE AS FOLLOWS:  
 R - RED  
 W - WHITE  
 B - BLUE  
 BL - BLACK

**ACT GOVERNMENT**  
  
**DESIGN STANDARD**  
**URBAN INFRASTRUCTURE**

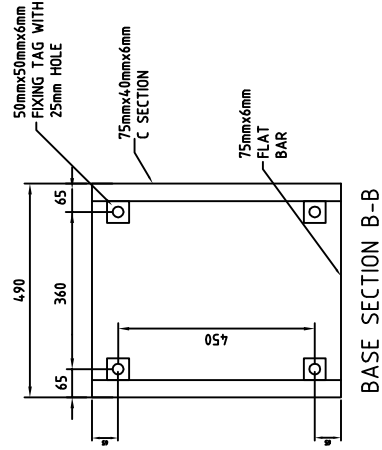
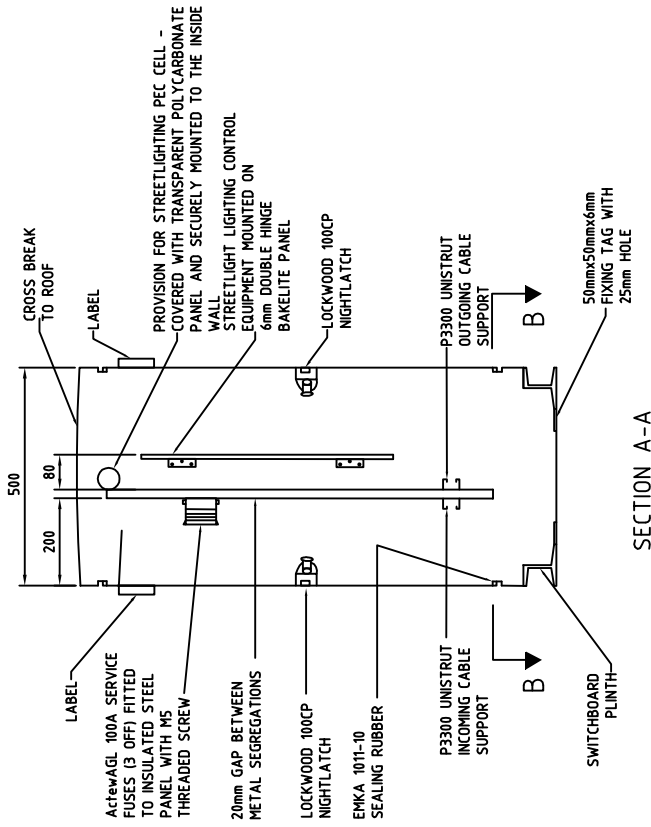
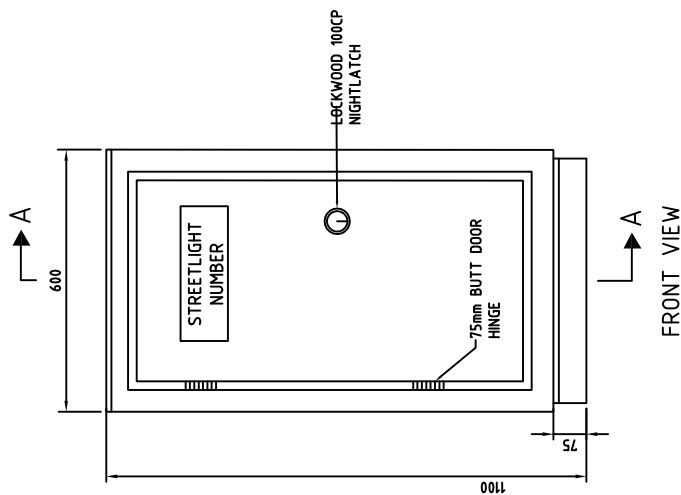
Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Drawn: NC \* Date: \_\_\_\_\_  
 Project Engineer: WC \* Date: \_\_\_\_\_

**STREETLIGHT CONTROL PANEL**  
**SINGLE LINE DIAGRAM**

Scale: NOT TO SCALE Date: 14/09/06  
 AutoCAD File: \_\_\_\_\_

Drawing No. **DS12-01-15** Revision No. **0**

\* THIS DRAWING HAS BEEN REPRODUCED BY THE ACT GOVERNMENT WITH PERMISSION FROM ACTEWAGL. THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWAGL DRAWING NO. 796-2-004 REVISION C - DATED 25-10-04



- Notes:**
1. SWITCHBOARD CONSTRUCTION MUST COMPLY WITH ENCLOSURE RATING IP54 RATING
  2. REFER TO DS12-02-02 FOR CONCRETE FOOTING DETAILS
  3. SWITCHBOARD CUBICLE 1.5mm ZINCSEAL
  4. SWITCHBOARD DOORS 2.0mm ZINCSEAL
  5. Actewagl TO INSTALL NECESSARY LABELS PRIOR TO ENERGISATION
  6. DOOR LOCKS WILL BE REPLACED WITH Actewagl MASTERLOCK PRIOR TO ENERGISATION
  7. STREETLIGHT CUBICLE COLOUR IS TO BE ANOTEC GREY DULUX 512272
  8. REFER TO DS12-01-13 FOR ACTEWAGL CONNECTION ARRANGEMENT

\*THIS DRAWING HAS BEEN REPRODUCED BY THE ACT GOVERNMENT WITH PERMISSION FROM ACTEWAGL.  
THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWAGL DRAWING NO. 796-8-006 REVISION A - DATED 10/09/05

<b>DESIGN STANDARD</b> <b>URBAN INFRASTRUCTURE</b>	
Authorised Signature	
Drawn	NC
Project Engineer	WC
Date	
Date	
<b>STREETLIGHT CONTROL CUBICLE</b>	
Scale	NOT TO SCALE
Drawn/CAD File	14/09/06
Project No.	
Revision No.	<b>0</b>

USE FOR ACTEWAGL DISTRIBUTION

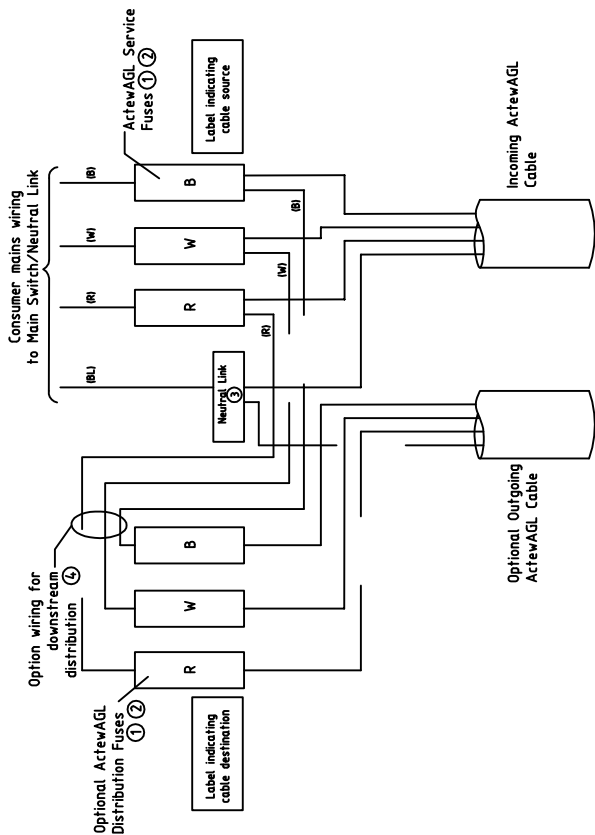
- ActewAGL may choose to utilise the streetlight control cubicle as a distribution cubicle for similar type loads within the immediate vicinity.
- When using the cubicle to service other loads the following shall apply:
  - ActewAGL shall supply and install the optional fuses and associated wiring as required
  - The number of downstream circuits shall be limited to either 1x3 phase or 3x1 phase
  - The maximum demand of the streetlighting installation AND all downstream loads shall not exceed 100A per phase
  - The maximum outgoing ActewAGL cable size shall be 35mm<sup>2</sup>
  - The types of loads able to be serviced from the ActewAGL distribution panel shall be limited to ACT Government, Territory Municipal Services assets such as Traffic Light Controllers, Irrigation Controllers and BBQ's etc.

Network Boundaries

- The network boundary between the ActewAGL electricity network and the streetlight installation shall be the ActewAGL service fuses installed on the ActewAGL distribution panel.
- When being used for distribution the outgoing cables from ActewAGL's distribution panel from part of the electricity network and the network boundary for downstream loads shall be the cable terminals or the ActewAGL service fuse (if installed) at each downstream load.

Notes

- The ActewAGL service fuses for the streetlight installation shall be supplied by ActewAGL and installed by the cubicle manufacturer.
- The ActewAGL neutral link and consumer mains wiring between the ActewAGL distribution panel and the streetlight control panel shall be supplied and installed by the cubicle manufacturer.
- The consumer mains wiring shall be 16mm<sup>2</sup> Cu PVC single core cable.
- The cubicle MEN shall be provided on the streetlight control panel side. Verification of the earthing/MEN connection is required by ActewAGL prior to energisation.
- The maximum incoming ActewAGL cable size shall be 35mm<sup>2</sup>
- All labels shall be laminated traffolyte with black lettering on a white background and shall be in accordance with ActewAGL Drg 091-005 "Labeling Standard-Distribution Plant"
- Related/reference drawings:
  - DS12-02-02 Concrete Footing for Streetlight Control Cubicle
  - DS12-01-13 Single line Diagram - Streetlight Control Panel
  - DS12-01-15 Streetlight Control Cubicle



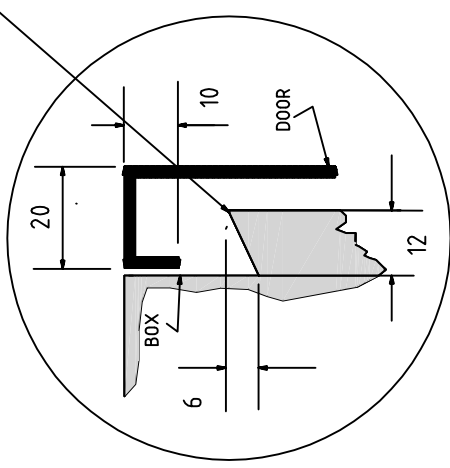
Item	Description	Quantity	Arrangement
4	Cable 16mm <sup>2</sup> Cu Single Core - Red	1m	
	Cable 16mm <sup>2</sup> Cu Single Core - White	1m	
	Cable 16mm <sup>2</sup> Cu Single Core - Blue	1m	
	Cable 16mm <sup>2</sup> Cu Single Core - Black	1m	
3	Neutral link 500v 300A 10 hole	1	
2	HRC fuse cartridge - 100 Amp	3	
1	Fuse Holder	3	
		Quantity	Arrangement
		Arrangement 1	Arrangement 2

Arrangement 1 - Streetlight control cubicle only  
 Arrangement 2 - Streetlight control cubicle also being used for distribution. Quantities are additional items only above that of Arrangement 1 not total quantities

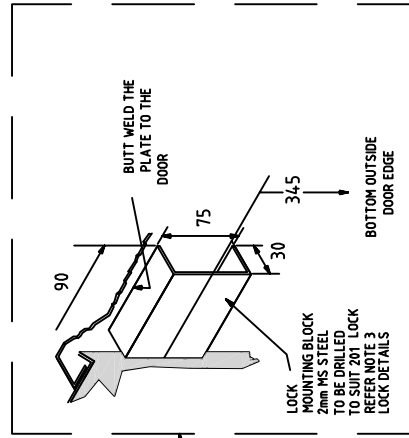
<b>ACT GOVERNMENT</b>	
<b>DESIGN STANDARD URBAN INFRASTRUCTURE</b>	
Authorised Signature	
Drawn	NC
Date	*
Project Engineer	WC
Date	*
<b>STREETLIGHT CONTROL CUBICLE ACTEWAGL SERVICE CONNECTION ARRANGEMENT</b>	
Scale	NOT TO SCALE
Date	14/09/06
AutoCAD File	
Drawing No.	<b>DS12-01-17</b>
Revision No.	<b>0</b>

\* THIS DRAWING HAS BEEN REPRODUCED BY THE ACT GOVERNMENT WITH PERMISSION FROM ACTEWAGL. THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWAGL DRAWING NO. 796-2-005 - DATED 27/08/05

BOX OPENING TO BE FLARED AS SHOWN  
ALL AROUND  
OPENING  
ALL DAGS AND SHARP EDGES TO BE  
REMOVED BEFORE GALVANISING

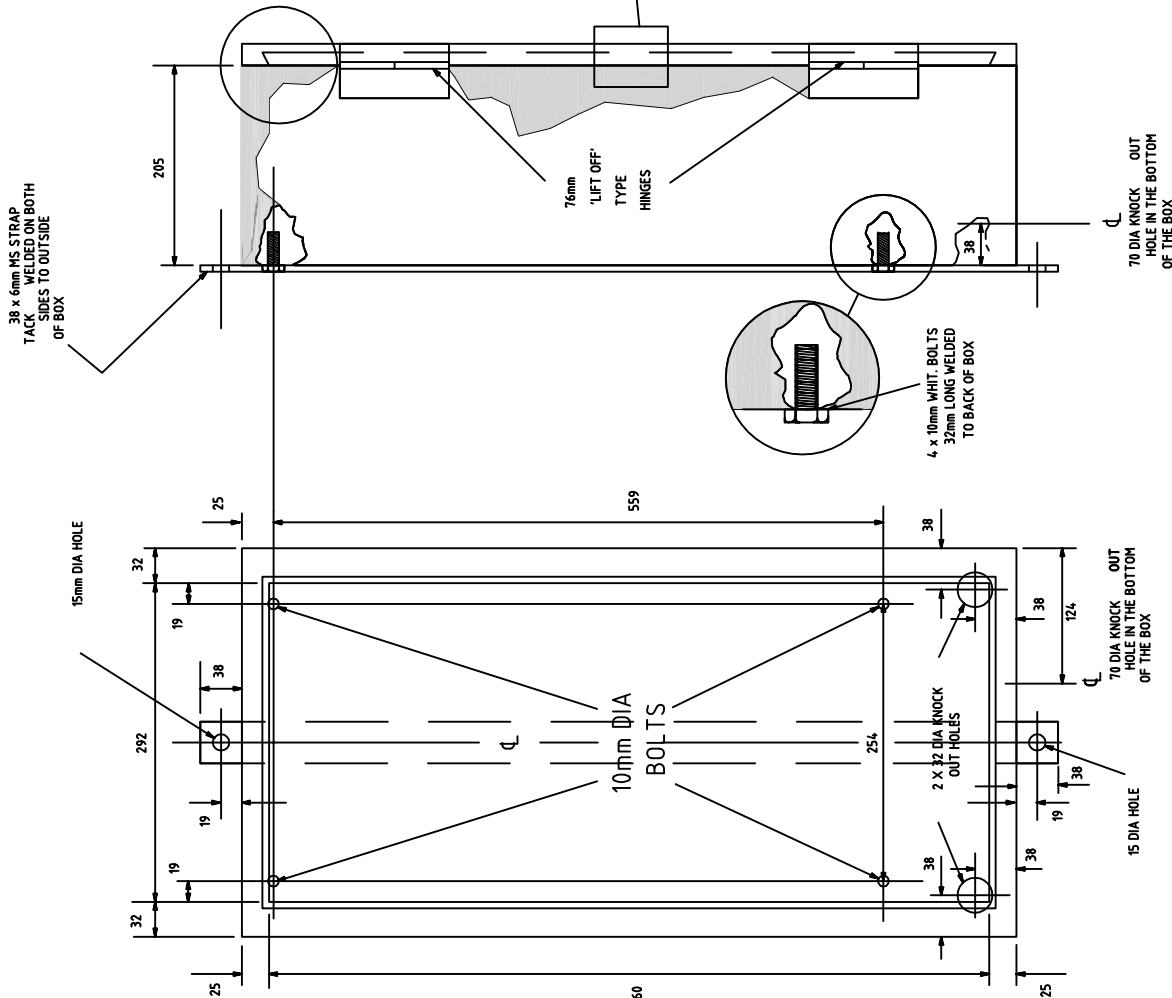


DETAIL 'A'



NOTES

1. BOX TO BE CONSTRUCTED FROM 2mm MS THE COMPLETE UNIT IS TO BE HOT DIPPED ZINC COATED TO CLASS Z430 TO MEET THE REQUIREMENTS OF AS1650
2. ALL JOINTS TO BE OVERLAPPED SPOT WELDED AND HOT COATED TO AS1650 TO MAINTAIN WEATHERPROOF CONSTRUCTION
3. LOCKWOOD 'NIGHTLATCH' SERIES 201 KEY No 34-669



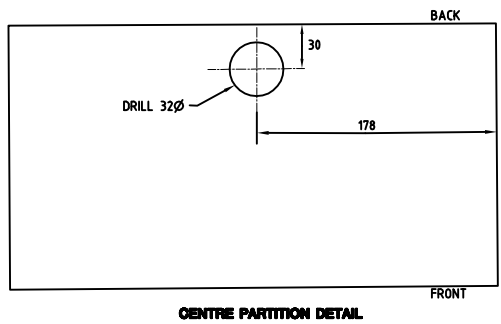
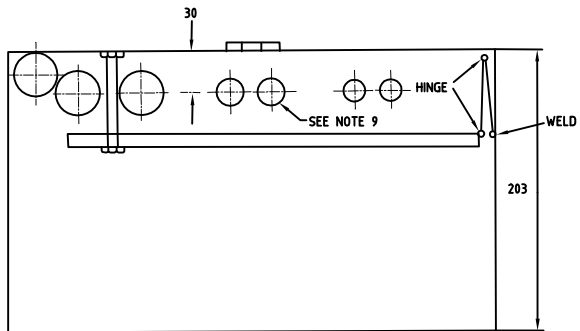
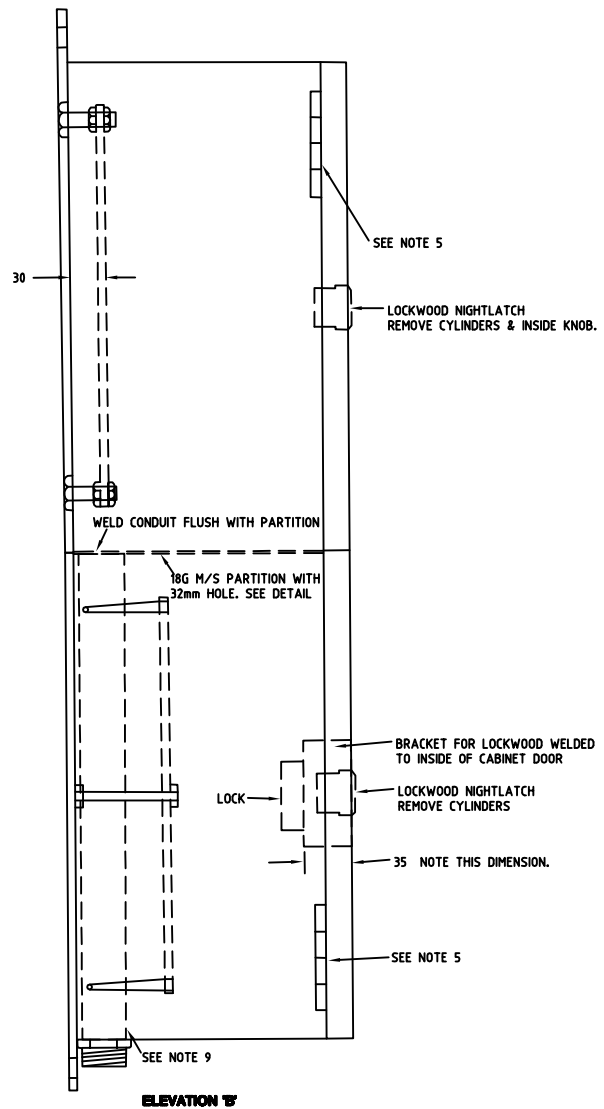
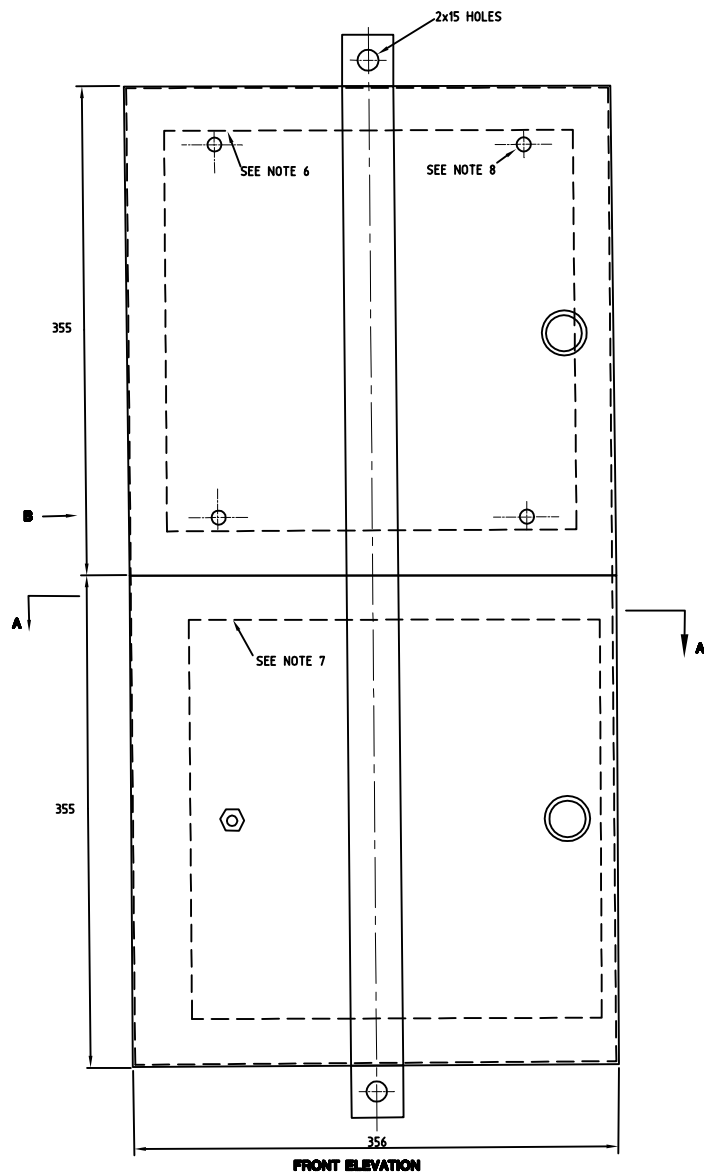
SIDE ELEVATION

FRONT ELEVATION

<b>DESIGN STANDARD</b> <b>URBAN INFRASTRUCTURE</b>	
Authorized Signature	Date
Drawn NC	Date
Project Engineer WC	Date
<b>STREETLIGHT CONTROL BOX</b>	
Scale NOT TO SCALE	Date 14/09/06
AutoCAD File	
Drawing No. <b>DS12-01-18</b>	Revision No. <b>0</b>

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THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWAGL DRAWING NO. 799-0017 NOT DATED





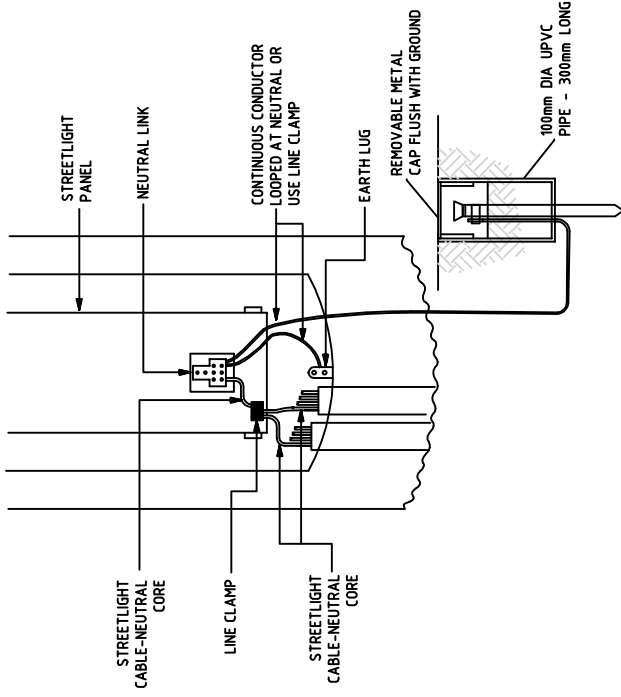
- NOTES**
1. BOX TO BE CONSTRUCTED FROM 18G MS SHEET.
  2. ALL JOINTS TO BE OVERLAPPED & SPOT WELDED TO MAINTAIN WEATHERPROOF CONSTRUCTION.
  3. BOX TO BE HOT DIPPED GALVANISED TO ASK53.
  4. 76mm STANDARD BUTT TYPE HINGES.
  5. 290 x 300 x 6 'PAXOLIN' PANEL.
  6. 290 x 300 x 6 'PAXOLIN' PANEL HINGED, 60 SPACE BEHIND.
  7. 4 x 10 WHIT BOLTS 32 LONG, WELDED TO BACK OF BOX.
  8. 32mm STEEL CONDUIT.
  9. "KNOCK OUTS" - 2 x 32, 2 x 20, 2 x 16. IN BOTTOM BOX

**ACT GOVERNMENT**

**DESIGN STANDARD  
URBAN INFRASTRUCTURE**

Authorised Signature	
Drawn <b>NC</b>	Date
Project Engineer <b>WC</b>	Date
<b>SPORTS OVAL LIGHTING CONTROL BOX POLE MOUNTED</b>	
Scale <b>NOT TO SCALE</b>	Date <b>14/09/06</b>
AutoCAD File	
Drawing No. <b>DS12-01-19</b>	Revision No. <b>0</b>

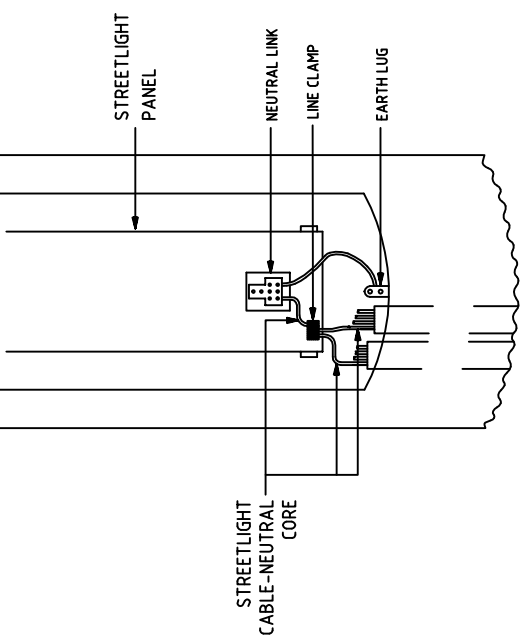
\* THIS DRAWING HAS BEEN REPRODUCED BY THE ACT GOVERNMENT WITH PERMISSION FROM VICPOLE.  
THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM VICPOLE DRAWING Comlap Concrete Lightpole.pwd - DATED 11/05/05



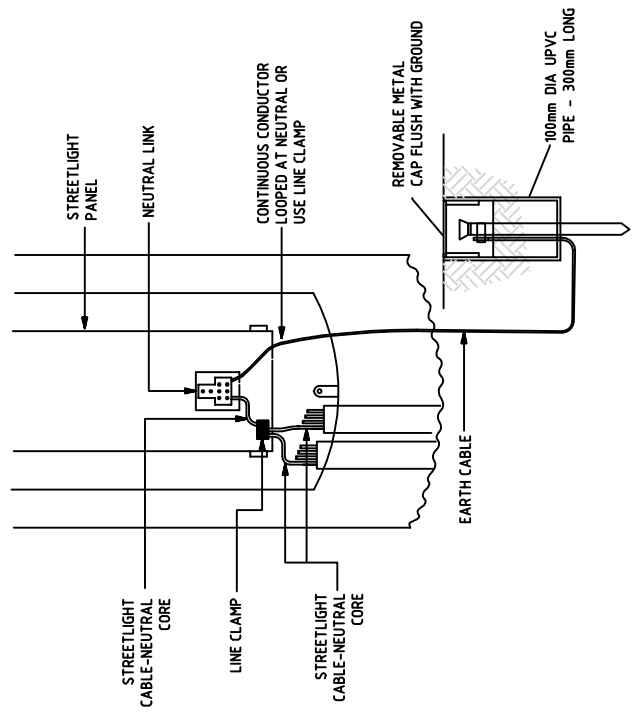
STEEL COLUMN MOUNTED ON RAGBOLT ASSEMBLY

- NOTES:
1. WHERE 3 x 3 PHASE STREETLIGHT CABLES ARE TERMINATED, A 5 WAY NEUTRAL LINK MAY BE REQUIRED.
  2. EARTH CABLE 6mm<sup>2</sup> GREEN/YELLOW INSULATED EARTH CABLE.
  3. EARTH ELECTRODE IS A COPPER CLAD STEEL ROD 12.5mm IN DIAMETER AND 14.40mm LONG

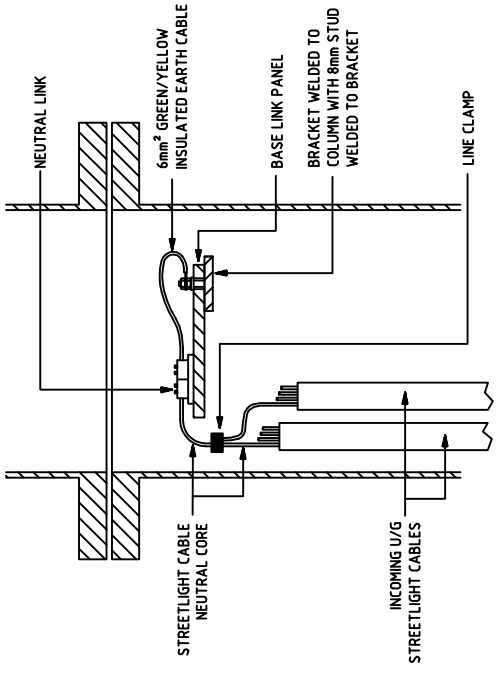
<b>DESIGN STANDARD</b> <b>URBAN INFRASTRUCTURE</b>	
Authorized Signature	Date
Drawn NC	Date
Project Engineer WC	Date
<b>M.E.N. EARTHING</b> <b>OF STREETLIGHT COLUMNS</b>	
Scale	Date
NOT TO SCALE	14/09/06
AutoCAD File	
Drawing No.	Revision No.
<b>DS12-01-20</b>	<b>0</b>



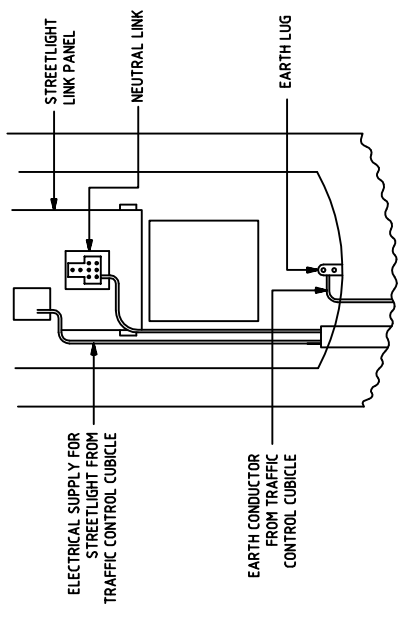
DIRECT BURIED COLUMN



CONCRETE COLUMN



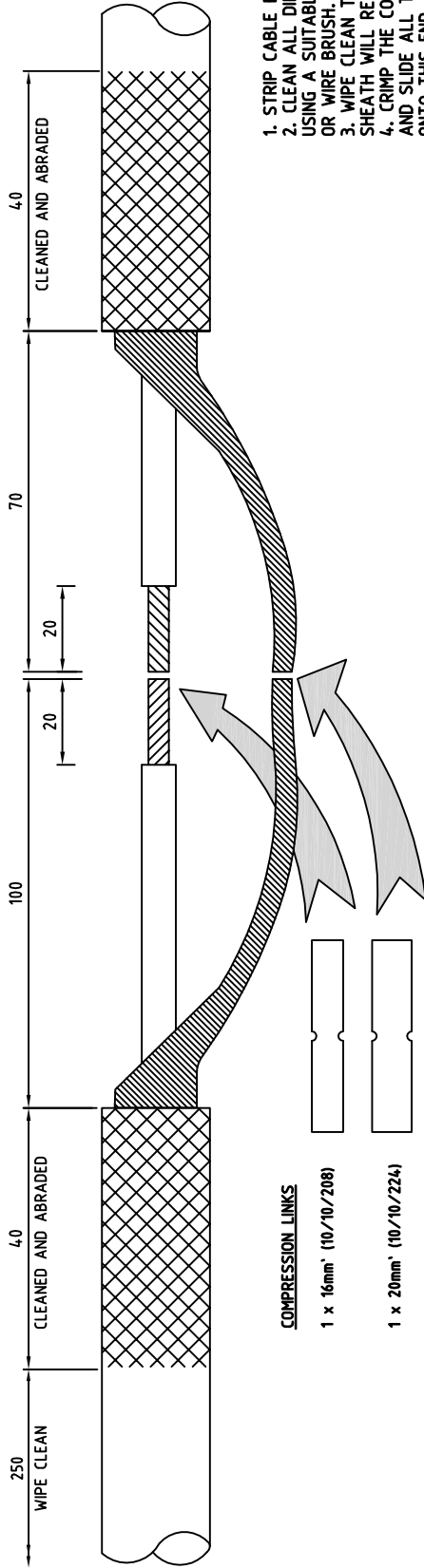
1SECTION THROUGH SLIP BASE COLUMN



- NOTE:
1. THIS COLUMN WILL NOT BE ON OUR STREETLIGHT CIRCUIT.
  2. SUPPLY TO STREETLIGHT COLUMN TO BE TAKEN FROM TRAFFIC LIGHT CONTROL BOX.
  3. THE LUMINAIRE TO HAVE OWN SPECIAL PE CELL BASE (NEMA OR D2 TYPE).

COMBINED TRAFFIC LIGHT & STREETLIGHT COLUMN

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1. STRIP CABLE ENDS AS SHOWN ON DRAWING.
2. CLEAN ALL DIRT FROM THE CABLE SHEATH ENDS USING A SUITABLE SOLVENT AND ABRASE WITH THE RASP OR WIRE BRUSH.
3. WIPE CLEAN THE CABLE SHEATH WHERE THE OUTER SHEATH WILL REST.
4. CRIMP THE COMPRESSION LINKS ONTO THE LONGER TAILS AND SLIDE ALL THE OUTER AND INNER HEAT SHRINK SLEEVES ONTO THIS END.
5. CRIMP THE COMPRESSION LINKS ONTO THE OTHER TAILS

6. PLACE THE INNER SLEEVES CENTRALLY OVER THE LINKS AND HEAT GENTLY FROM THE MIDDLE OUTWARDS UNTIL MASTIC SQUEEZES OUT OF THE ENDS.
7. SHRINK ON OUTER SLEEVE AS FOR STEP 6.
8. ALLOW TO COOL 15 MINUTES BEFORE BACKFILLING TRENCH.

ACT GOVERNMENT

DESIGN STANDARD  
URBAN INFRASTRUCTURE

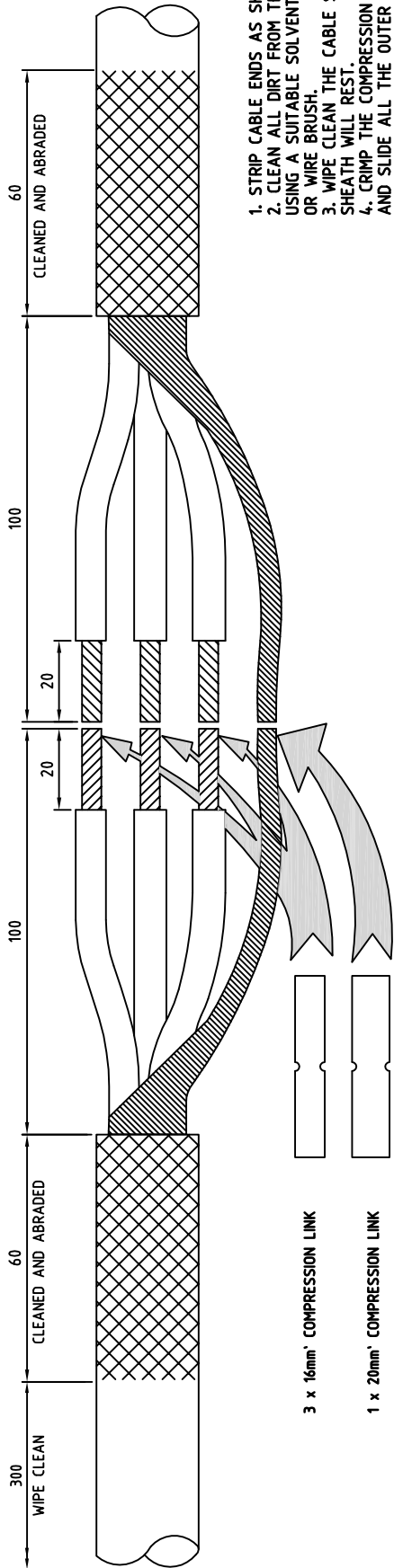
Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Drawn: NC \* Date: \_\_\_\_\_  
 Project Engineer: WC \* Date: \_\_\_\_\_

STREET LIGHTING  
1Ø NEUTRAL SCREEN  
STRAIGHT THROUGH JOINT

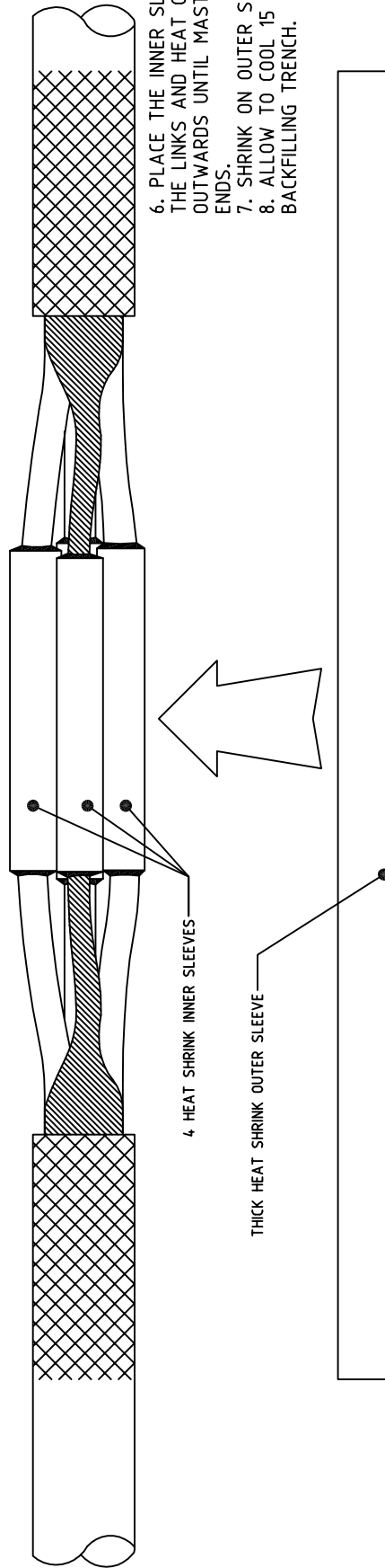
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 AutoCAD File: \_\_\_\_\_

Drawing No. **DS12-01-21** Revision No. **0**

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 THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWAGL DRAWING 797-2-002 REVISION B - DATED 19/04/03



1. STRIP CABLE ENDS AS SHOWN ON DRAWING.
2. CLEAN ALL DIRT FROM THE CABLE SHEATH ENDS USING A SUITABLE SOLVENT AND ABRASE WITH THE RASP OR WIRE BRUSH.
3. WIPE CLEAN THE CABLE SHEATH WHERE THE OUTER SHEATH WILL REST.
4. CRIMP THE COMPRESSION LINKS ONTO THE LONGER TAILS AND SLIDE ALL THE OUTER AND INNER HEAT SHRINK SLEEVES ONTO THIS END.
5. CRIMP THE COMPRESSION LINKS ONTO THE OTHER TAILS



6. PLACE THE INNER SLEEVES CENTRALLY OVER THE LINKS AND HEAT GENTLY FROM THE MIDDLE OUTWARDS UNTIL MASTIC SQUEEZES OUT OF THE ENDS.
7. SHRINK ON OUTER SLEEVE AS FOR STEP 6.
8. ALLOW TO COOL 15 MINUTES BEFORE BACKFILLING TRENCH.

ACT GOVERNMENT



DESIGN STANDARD  
URBAN INFRASTRUCTURE

Authorised Signature

Drawn NC

Date

Project Engineer WC

Date

STREET LIGHTING  
3Ø NEUTRAL SCREEN  
STRAIGHT THROUGH JOINT

Scale

NOT TO SCALE

Date

14/09/06

AutoCAD File

Drawing No.

DS12-01-22

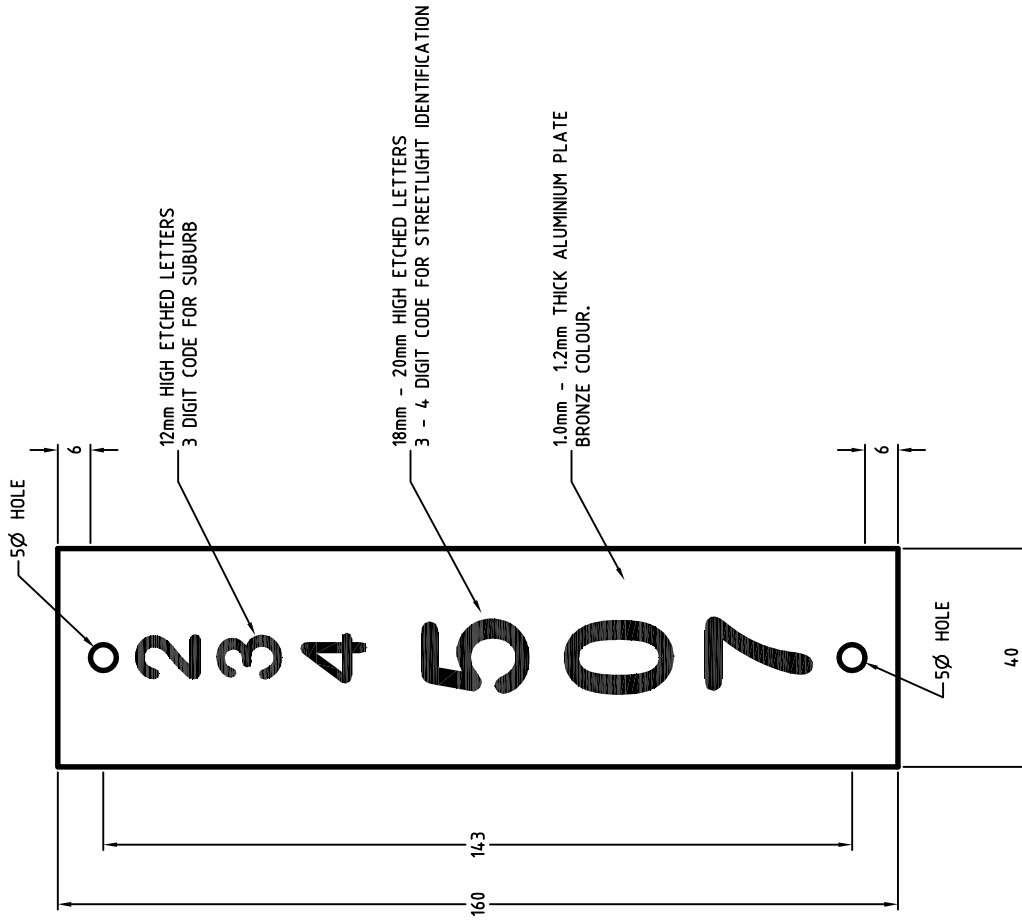
Revision No.

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THIS DRAWING HAS BEEN REPRODUCED USING INFORMATION FROM ACTEWA GL DRAWING 797-2-002 REVISION B - DATED 19/04/03

IDENTIFICATION PLATES MANUFACTURED BY  
D.I. ELECTRICS PTY. LTD.  
IDENTIFICATION PLATES SUPPLIED TO  
ACTEWAGL FOR DISTRIBUTION.

MOUNTING HEIGHT 2.4m ABOVE G/C  
MOUNT ON ROAD OR PATHWAY SIDE OF COLUMN



ACT GOVERNMENT



DESIGN STANDARD  
URBAN INFRASTRUCTURE

Authorised Signature

Drawn: NC \* Date

Project Engineer: WC \* Date

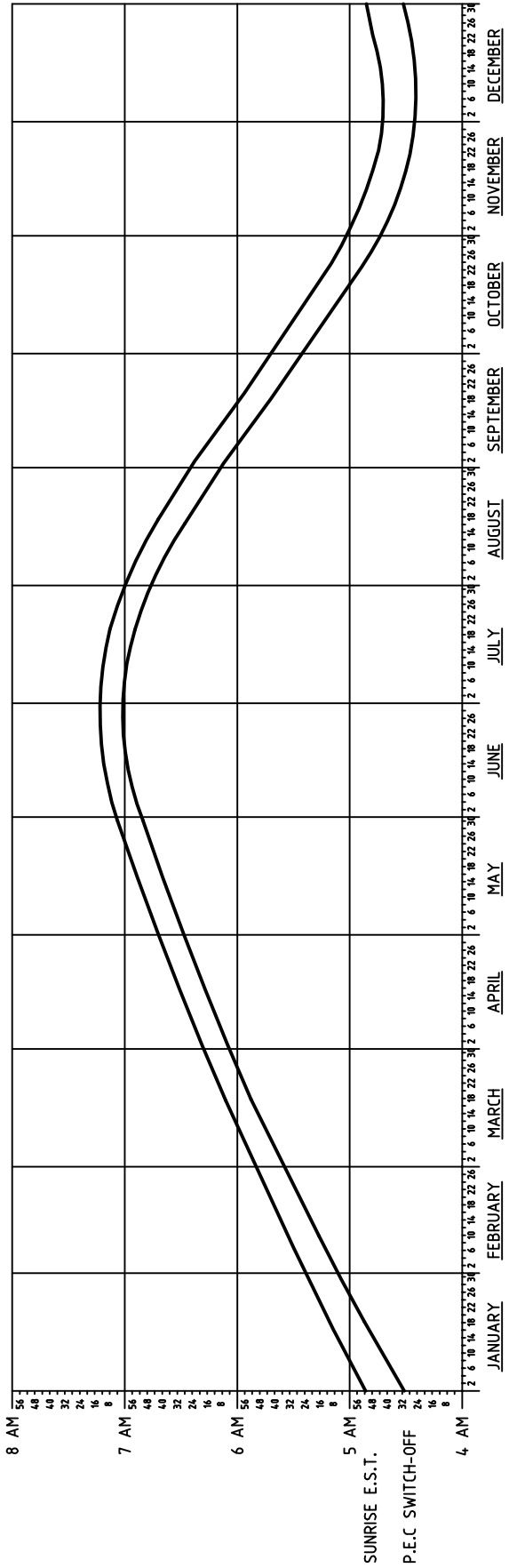
STREETLIGHT COLUMN  
IDENTIFICATION PLATE

Scale: NOT TO SCALE Date: 14/09/06

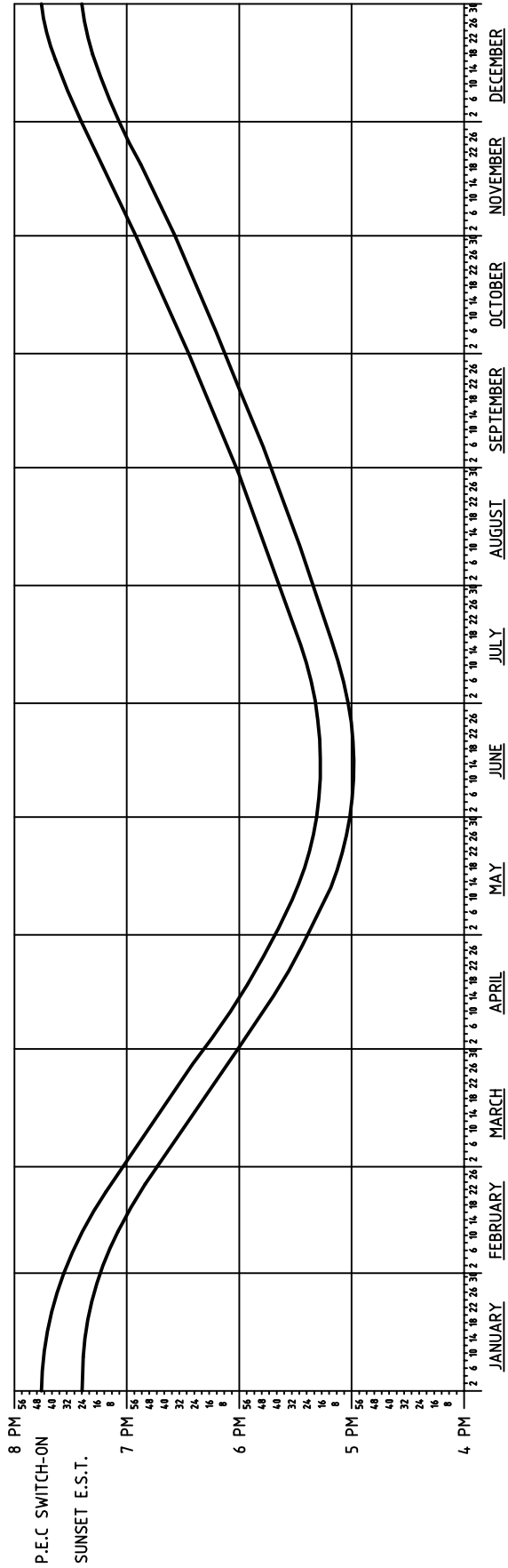
AutoCAD File

Drawing No. DS12-01-23 Revision No. 0


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SUNRISE E.S.T.  
P.E.C SWITCH-OFF



P.E.C SWITCH-ON  
SUNSET E.S.T.



**ACT GOVERNMENT**  
DESIGN STANDARD  
URBAN INFRASTRUCTURE

Drawn	NC	Date	
Project Engineer	WC	Date	

**PEC ACTIVATION  
TIME GRAPH**

Scale	NOT TO SCALE	Date	14/09/06
Author	File		

Drawing No. **DS12-01-24**
Revision No. **0**

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