





LIGHTING  
CONSTRUCTION MANUAL

JOINT USE

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A	ORIGINAL ISSUE	REFERENCE DRAWING ENERGEX			Approved Ergon A. Bletchly 01/03/19	LIGHTING  JOINT USE INDEX				
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D	20.02.17				Checked K. Slater 01/03/19					
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F	05.09.18					EGX DRWG NO: 10500-A4-1-10-1-1	1	10	1-1	0F

## SPECIAL CONSTRUCTION DATA UNIT - CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

SCLRU ABC/M

### PREFIX



SCLRU = Special Construction LORA

### LV MAINS CONNECTION

ABC = LVABC  
Cu = Copper  
Al = Aluminium Conductor

### AERIAL

M = SMD8-90

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## JOINT USE TRAFFIC LIGHT - CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

SLJU 1 15

### STREETLIGHT

SLJU = Streetlight Joint Use

### NO. OF OUTREACH

1 = Single  
2 = Double

### OUTREACH DIMENSION

15 = 1.5m  
30 = 3.0m  
45 = 4.5m

**EXAMPLE:-** SLJU 1 15 = Streetlight Joint Use, Single 1.5m Outreach

## UNMETERED SUPPLY FROM STREETLIGHT COLUMN - CONSTRUCTION CODE

Code shown within dashed box appears on relevant construction detail drawings in this manual.

S UMS MAJ P

### STREETLIGHT

S = Streetlight

### DESTINATION



UMS = Unmetered Supply

### STREETLIGHT COLUMN

MAJ = Major Road  
MIN = Minor Road

### LOCATION

P = UMS Load Located on Streetlight Column  
R = UMS Load Located Remote From Streetlight Column

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					EGX DRWG NO: 10500-A4-1-10-2-2				

## STREETLIGHT LUMINAIRE CONSTRUCTION TYPE

Type shown within dashed box appears on relevant construction detail drawings in this manual.

→ **SL S250C A**

### STREETLIGHT

SL = Streetlight

### LAMP TYPE AND WATTAGE

S100C = HPS 100W Clear	H100 = H100W clear
S150C = HPS 150W Clear	H150 = H150W clear
S250C = HPS 250W Clear	H250 = H250W clear
S400C = HPS 400W Clear	H400 = H400W clear

### LUMINAIRE TYPE

A = Aeroscreen  
No designation required for normal luminaire.

**EXAMPLE:-** SLS150C = Streetlight, high pressure sodium vapour, 150 watt, clear lamp, normal luminaire.

**EXAMPLE:-** SLS250CA = Streetlight, high pressure sodium vapour, 250 watt, clear lamp, aeroscreen luminaire.

## STREETLIGHT LED LUMINAIRE CONSTRUCTION TYPE

Type shown within dashed box appears on relevant construction detail drawings in this manual.

→ **SLED PH 0509 A**

### STREETLIGHT

SLED = Streetlight LED

### SUPPLIER IDENTIFIER

GL = Gerard Lighting  
PH = Philips Lighting



### BILLABLE LOAD

0509 = 50.9W  
0808 = 80.8W  
0912 = 91.2W  
1716 = 171.6W  
2664 = 266.4W  
2356 = 235.6W

### LUMINAIRE TYPE

A = Aeroscreen  
N = Normal

**EXAMPLE:-** SLEDPH0509A = Streetlight LED, Philips Lighting, 50.9W, aeroscreen luminaire.

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# MATERIAL - POLE & OUTREACH

ASSY	DESCRIPTION		QTY
808-1	Outreach arm - single	1.5m	1
808-2		3.0m	
808-3		4.5m	
811-1	Terminal panel and cable to single outreach arm		1
808-4	Outreach arm - double	1.5m	1
808-5		3.0m	
808-6		4.5m	
811-2	Terminal panel and cable to double outreach arm		1



## NOTES:

1. Neutral and earth terminal panel are to be bridged.  
Make bridge only after polarity has been established.
2. Local authority / QLD transport to supply & install a joint use sticker either above or below traffic light terminal chamber cover.
3. Terminal chamber cover normally faces building line when pole is erected.
4. Foundation and pole to be supplied and erected by MRD or council.
5. Road authority is responsible for engineering certification and supply of the pole and footing.  
The pole shall have a spigot for attachment of Energy Queensland standard outreach.
6. Road authority shall supply one of the traffic signal's conduit, ie. 1 x 100mm conduit for exclusive use for road lighting.  
Road lighting cable and traffic signal cable to share conduit between pit and joint use pole.
7. Joint traffic signal and road lighting pit. Pit shall be Energy Queensland P4 type pit or TMR 600mm dia. round pit.

**CAUTION**  
TWO (2) SOURCES  
OF SUPPLY



## JOINT USE STICKER

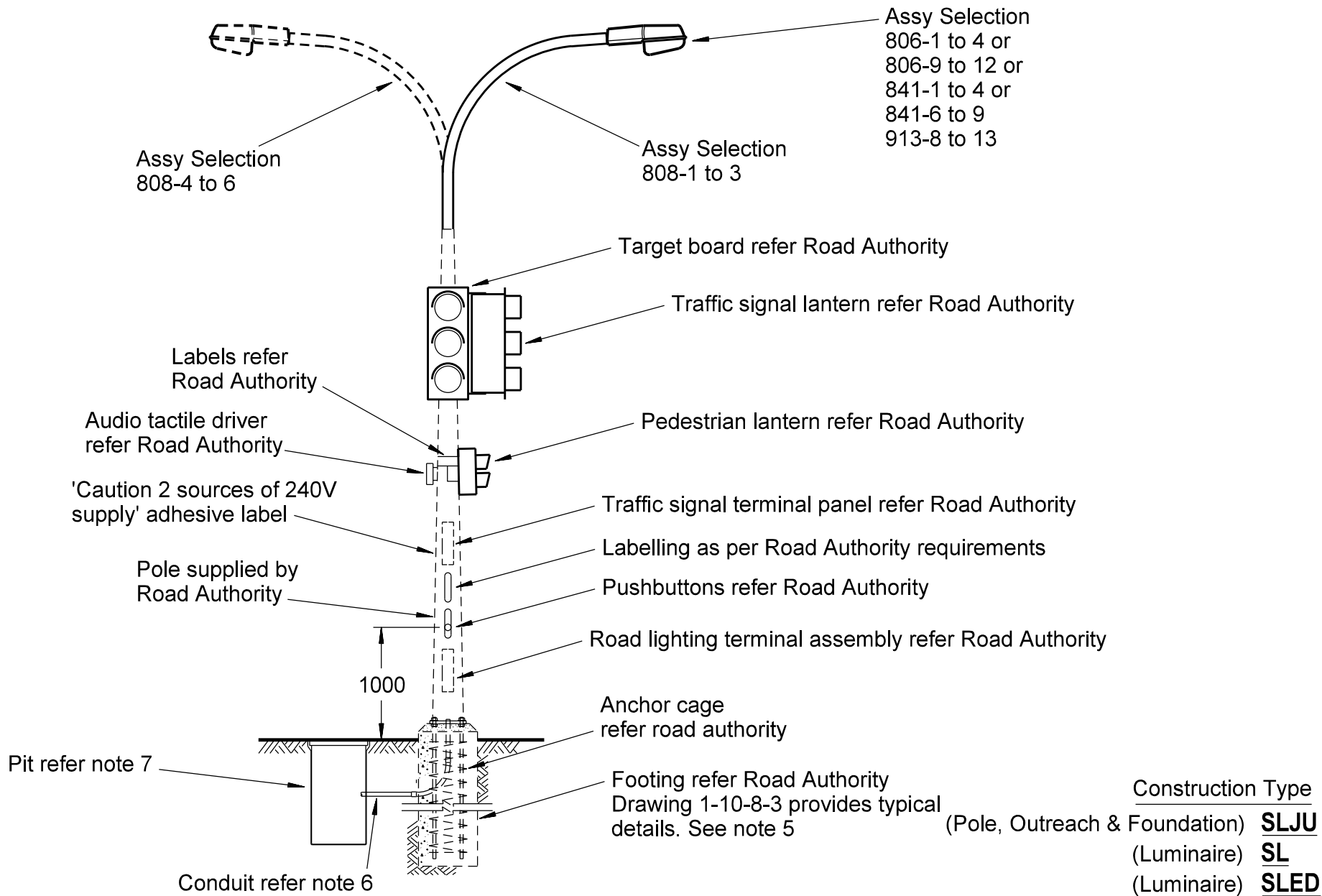
Refer note 2



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C	06.01.14	4927-A4-7.2, 7.3, 7.5			Approved Energex	Date					
D	20.02.17	REFERENCE DRAWING ERGON NIL			A. Bletchly	01/03/19					
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F	17.10.18				K. Slater	01/03/19					
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					L. Burton / T. Borg	14/10/10					

# MATERIAL - LUMINAIRE - NORMAL & AEROSCREEN & LED

ASSY	DESCRIPTION	LUMINAIRE MARKING	QTY																
			SLS100C	SLS150C	SLS250C	SLS400C	SLH100	SLH150	SLH250	SLH400	SLS100CA	SLS150CA	SLS250CA	SLS400CA	SLH100A	SLH150A	SLH250A	SLH400A	SLEDPH0509A
806-1	Luminaire normal lamp & PE cell	S100	1																
806-2		S150		1															
806-3		S250			1														
806-4		S400				1													
806-9		H100					1												
806-10		H150						1											
806-11		H250							1										
806-12		H400								1									
841-1	Luminaire aeroscreen lamp & PE cell	S100A									1								
841-2		S150A										1							
841-3		S250A											1						
841-4		S400A												1					
841-6		H100A													1				
841-7		H150A														1			
841-8		H250A															1		
841-9		H400A																1	
913-8	Luminaire LED	L50																	1
913-9		L90																	1
913-10		L80																	1

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					L. Burton / T. Borg				14/10/10	1	10	8-2

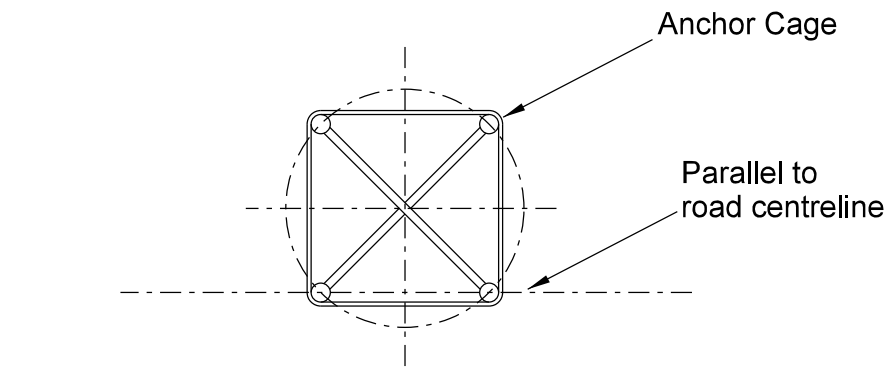


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B	17.10.18	7.5, 7.2, 7.3			EE DRWG NO: 1-10-8-3 EGX DRWG NO: 10500-A4-1-10-8-3					
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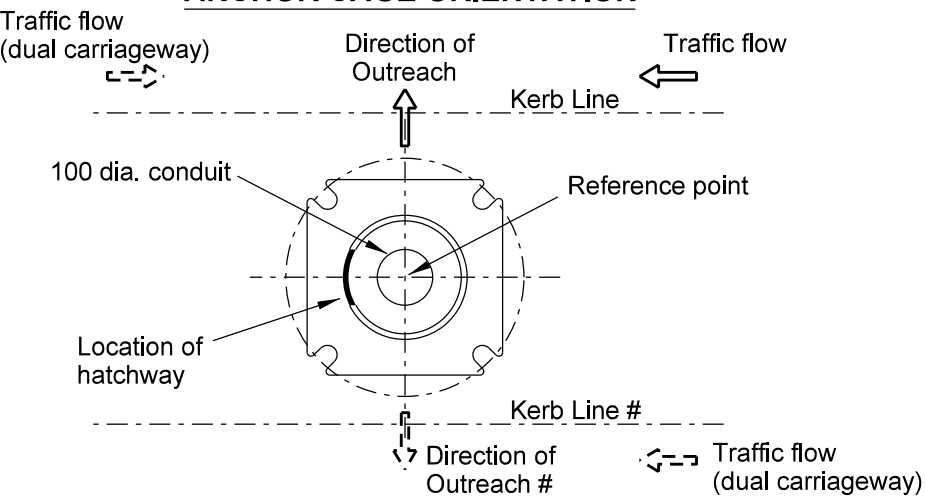


NOTES:

1. The purpose of this drawing is to provide typical standard details.  
The fitness for purpose of this drawing for a project shall be determined  
and certified by an RPEQ Engineer. Additional project specific details  
may be required to be included in the construction drawings.

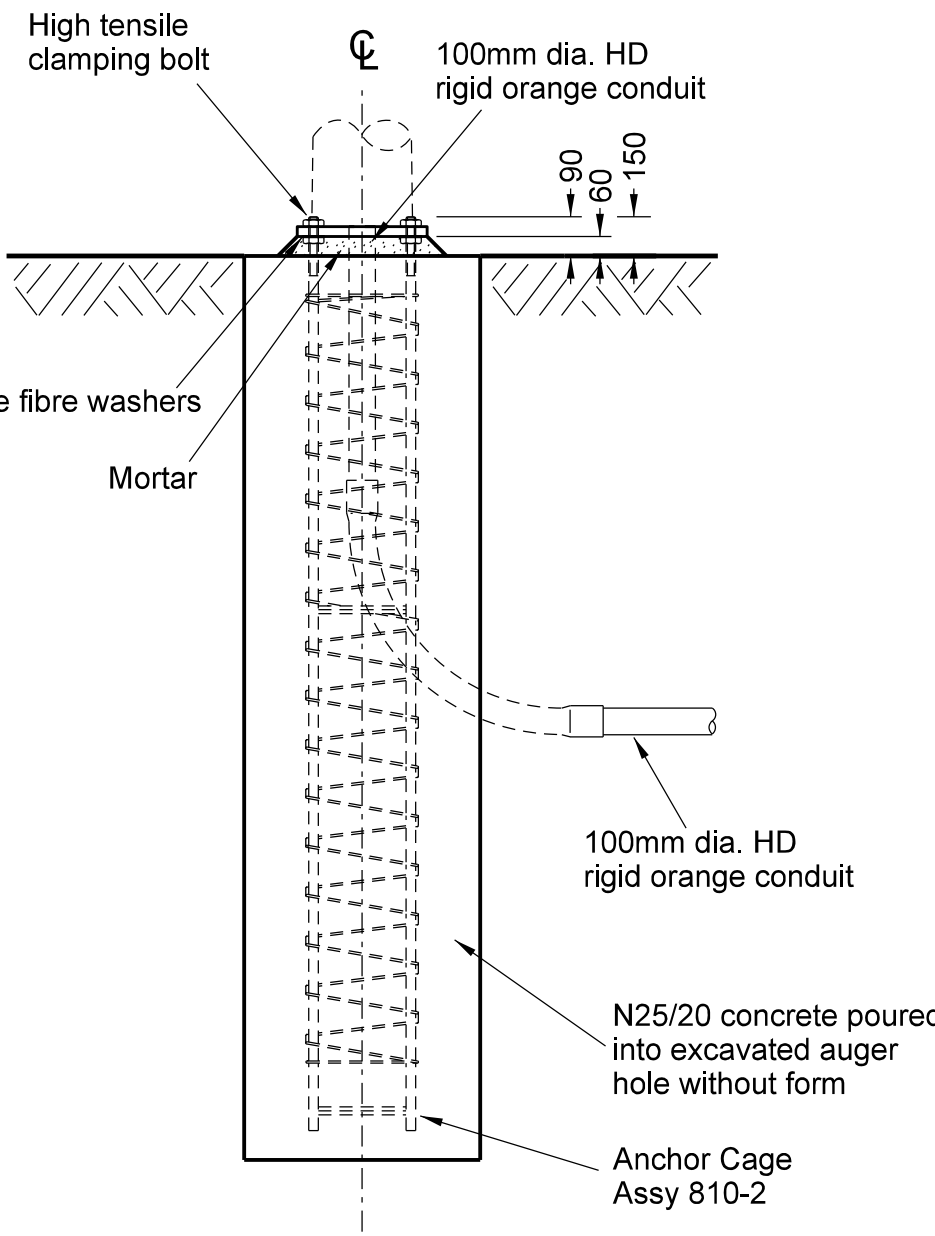




ANCHOR CAGE ORIENTATION



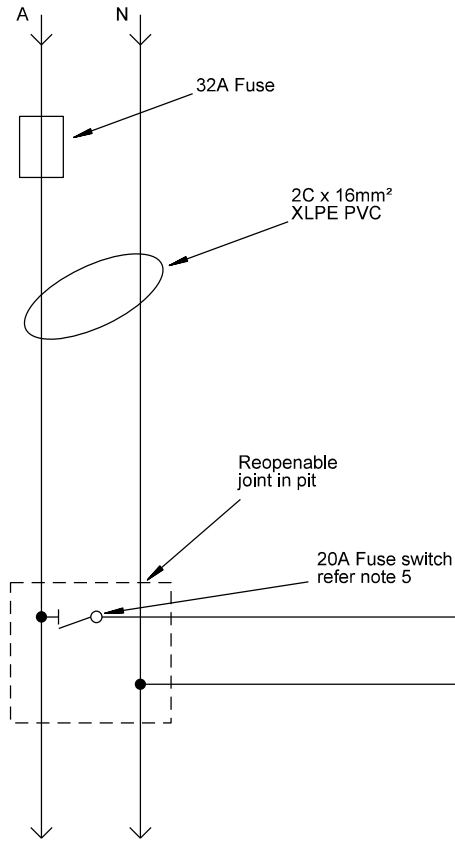
BASE PLATE ORIENTATION

# For Dual Outreach Only



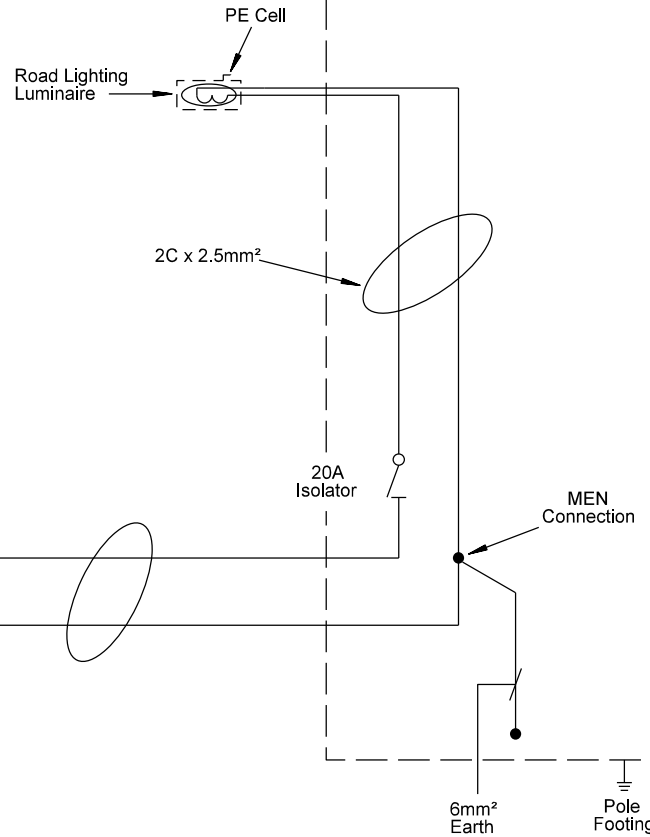
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## ROAD LIGHTING SUPPLY

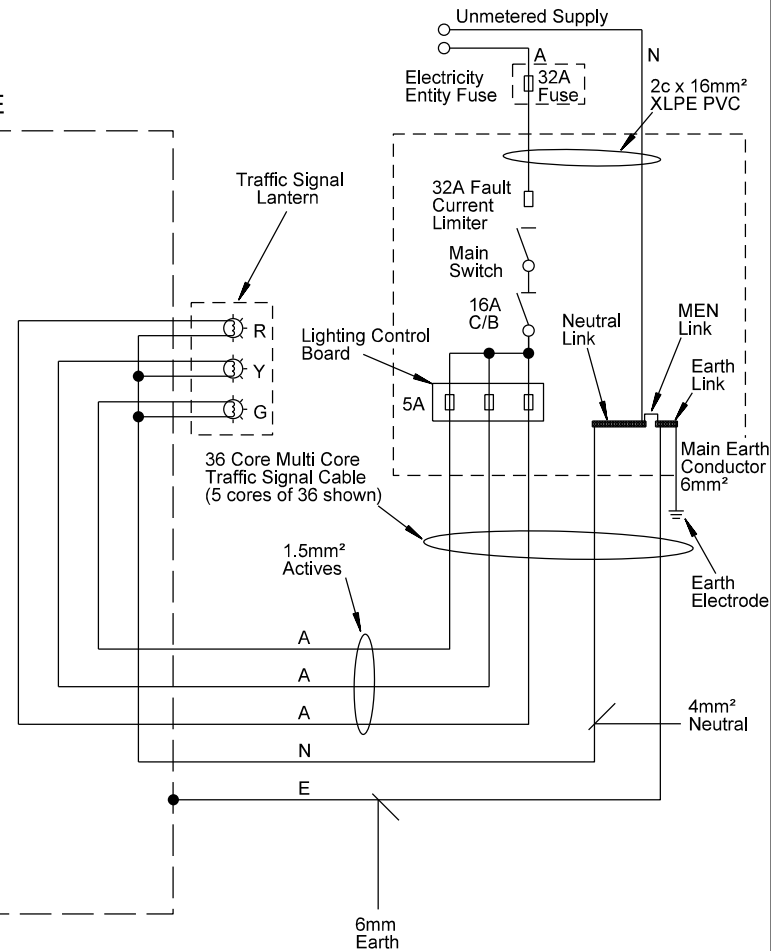


NEXT ROAD LIGHTING POLE  
ON SAME CIRCUIT

## JOINT USE POLE





## TRAFFIC SIGNAL SUPPLY



## NOTES:

1. The purpose of this drawing is to provide typical standard details for traffic signals. The fitness for purpose shall be determined and certified by a RPEQ Engineer. Project specific details may be required to be included in the construction drawing.
2. Designers must ensure the specific project design complies with the earth fault loop impedance and voltage drop requirements.
3. Single phase only shown.
4. Unmetered supply as per Underground Construction Manual. services.
5. Fused connection in junction kit shall be used for TMR joint use poles.

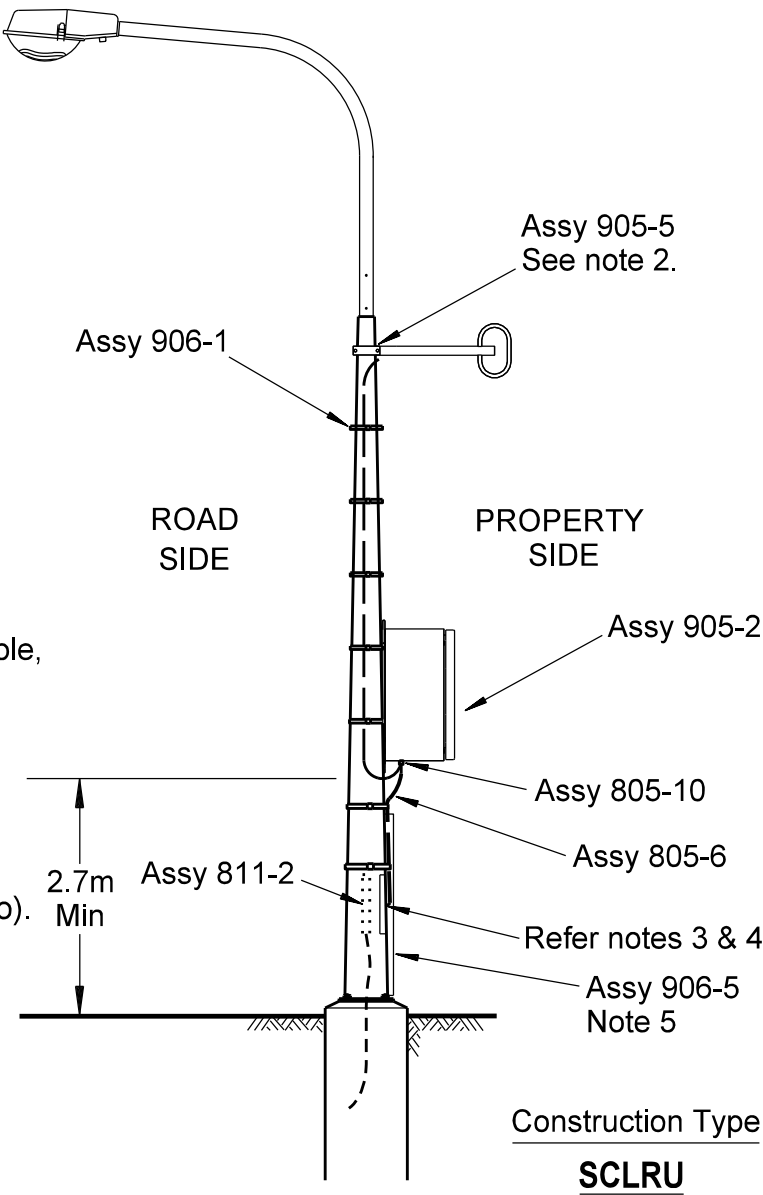
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# MATERIAL - POLE & OUTREACH

ASSY	DESCRIPTION	QTY
805-6	Conduit PVC flexible 16mm	1
805-10	Terminator conduit PVC flexible 16mm	1
811-2	Major Road terminal panel	1
905-2	LORA control box to steel pole	1
905-5	Antenna to steel pole attachment	1
906-1	Bandit strap to steel pole	1
906-5	Cable guard to steel pole	1

## NOTES:

1. LORA unit can ONLY be installed on single outreach arm poles.
2. Bracket supplied - (Telco antennas part number TF-MA-RACB).
3. Upgrade terminal panel to Assy 811-2.
4. With panel removed from pole, drill a 20mm hole in terminal panel cover.  
Remove all sharp edges and burrs. Insert conduit containing the LV cable through the hole, seal hole around conduit with Silastic or equivalent.  
Terminate the cable as per Assy 811-2 ensuring there are drip loops as illustrated.
5. Use cable guard as per design drawing 1061078.
6. Control box shall face the property boundary.
7. Orient the antenna to the direction specified by the design.
8. Antenna UHF Dipole Model SMD8-90 supplied by project partner (NNNCo).
9. Base station including power supply and modem supplied by project partner (NNNCo).
10. Extension to antenna tail supplied by project partner (NNNCo).



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<b>LIGHTING</b> JOINT USE - ERGON ENERGY ONLY LORA TRIAL FITTING TO 5.5m MINOR ROAD POLE				
EE DRWG NO: 1-10-9-1	VOLUME 1	FOLDER 10	PAGE 9-1	ISSUE 0A
EGX DRWG NO: 10500-A4-1-10-9-1				