<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLJU</td>
<td>Major Road Joint Use Traffic Light Underground Service - Material</td>
<td>1-10-8-1</td>
</tr>
<tr>
<td>SLJU</td>
<td>Major Road Joint Use Traffic Light Underground Service - Material</td>
<td>1-10-8-2</td>
</tr>
<tr>
<td></td>
<td>Major Road Joint Use Traffic Light Underground Service - Construction</td>
<td>1-10-8-3</td>
</tr>
<tr>
<td></td>
<td>Traffic Signal &amp; Road Lighting</td>
<td>1-10-8-4</td>
</tr>
<tr>
<td></td>
<td>Typical Footing Details</td>
<td>1-10-8-5</td>
</tr>
<tr>
<td>SCLRU</td>
<td>LORA Trial Fitting To 5.5m Minor Road Pole</td>
<td>1-10-9-1</td>
</tr>
<tr>
<td>SUMS</td>
<td>UMS on streetlight</td>
<td>1-10-10-1</td>
</tr>
<tr>
<td></td>
<td>UMS remote to streetlight</td>
<td>1-10-10-2</td>
</tr>
<tr>
<td></td>
<td>UMS from streetlight circuit diagram</td>
<td>1-10-10-3</td>
</tr>
</tbody>
</table>

**LIGHTING**

**JOINT USE INDEX**

**REFERENCE DRAWING ENERGEX**

**REFERENCE DRAWING ERGON**

Approved Ergon: A. Bletchly 01/03/19

Approved Energex: A. Bletchly 01/03/19

Checked: K. Slater 01/03/19

Drawn: L. Burton / T. Borg 01/11/10

EE DRWG NO: 1-10-1-1

EGX DRWG NO: 1050C-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
**LIGHTING**

**JOINT USE TRAFFIC LIGHT - CONSTRUCTION CODE**

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

![Diagram of SLJU 1 15](image)

- **STREETLIGHT**
  - SLJU = Streetlight Joint Use

- **OUTREACH DIMENSION**
  - 15 = 1.5m
  - 30 = 3.0m
  - 45 = 4.5m

- **NO. OF OUTREACH**
  - 1 = Single
  - 2 = Double

**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.

![Diagram of S UMS MAJ P](image)

- **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

---
STREETLIGHT LUMINAIRE CONSTRUCTION TYPE

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

\[
\text{SL} \quad \text{S250C A}
\]

STREETLIGHT
SL = Streetlight

LAMP TYPE AND WATTAGE
S100C = HPS 100W Clear
S150C = HPS 150W Clear
S250C = HPS 250W Clear
S400C = HPS 400W Clear

H100 = H100W clear
H150 = H150W clear
H250 = H250W 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.

\[
\text{SLED} \quad \text{PH 0509 A}
\]

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.
MATERIAL - POLE & OUTREACH

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>808-1</td>
<td>Outreach arm - single</td>
<td>1.5m</td>
</tr>
<tr>
<td>808-2</td>
<td></td>
<td>3.0m</td>
</tr>
<tr>
<td>808-3</td>
<td></td>
<td>4.5m</td>
</tr>
<tr>
<td>808-4</td>
<td>Outreach arm - double</td>
<td>1.5m</td>
</tr>
<tr>
<td>808-5</td>
<td></td>
<td>3.0m</td>
</tr>
<tr>
<td>808-6</td>
<td></td>
<td>4.5m</td>
</tr>
<tr>
<td>811-1</td>
<td>Terminal panel and cable to single outreach arm</td>
<td>1</td>
</tr>
<tr>
<td>811-2</td>
<td>Terminal panel and cable to double outreach arm</td>
<td>1</td>
</tr>
</tbody>
</table>

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
## MATERIAL - LUMINAIRE - NORMAL & AEROSCREEN & LED

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>LUMINAIRE MARKING</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>806-1</td>
<td></td>
<td>S100C</td>
<td>1</td>
</tr>
<tr>
<td>806-2</td>
<td></td>
<td>S150C</td>
<td>1</td>
</tr>
<tr>
<td>806-3</td>
<td></td>
<td>S250C</td>
<td>1</td>
</tr>
<tr>
<td>806-4</td>
<td>Luminaire normal lamp &amp; PE cell</td>
<td>S400C</td>
<td>1</td>
</tr>
<tr>
<td>806-9</td>
<td></td>
<td>H100C</td>
<td>1</td>
</tr>
<tr>
<td>806-10</td>
<td></td>
<td>H150C</td>
<td>1</td>
</tr>
<tr>
<td>806-11</td>
<td></td>
<td>H250C</td>
<td>1</td>
</tr>
<tr>
<td>806-12</td>
<td></td>
<td>H400C</td>
<td>1</td>
</tr>
<tr>
<td>841-1</td>
<td></td>
<td>S100AC</td>
<td>1</td>
</tr>
<tr>
<td>841-2</td>
<td></td>
<td>S150AC</td>
<td>1</td>
</tr>
<tr>
<td>841-3</td>
<td></td>
<td>S250AC</td>
<td>1</td>
</tr>
<tr>
<td>841-4</td>
<td>Luminaire aeroscreen lamp &amp; PE cell</td>
<td>S400AC</td>
<td>1</td>
</tr>
<tr>
<td>841-6</td>
<td></td>
<td>H100AC</td>
<td>1</td>
</tr>
<tr>
<td>841-7</td>
<td></td>
<td>H150AC</td>
<td>1</td>
</tr>
<tr>
<td>841-8</td>
<td></td>
<td>H250AC</td>
<td>1</td>
</tr>
<tr>
<td>841-9</td>
<td></td>
<td>H400AC</td>
<td>1</td>
</tr>
<tr>
<td>913-8</td>
<td></td>
<td>L50</td>
<td>1</td>
</tr>
<tr>
<td>913-9</td>
<td></td>
<td>L90</td>
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</tr>
<tr>
<td>913-10</td>
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<td>L80</td>
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</tbody>
</table>

### MATERIAL - LUMINAIRE - NORMAL & AEROSCREEN & LED

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>LUMINAIRE MARKING</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>841-1</td>
<td>Luminaire normal lamp &amp; PE cell</td>
<td>S100C</td>
<td>1</td>
</tr>
<tr>
<td>841-2</td>
<td></td>
<td>S150C</td>
<td>1</td>
</tr>
<tr>
<td>841-3</td>
<td></td>
<td>S250C</td>
<td>1</td>
</tr>
<tr>
<td>841-4</td>
<td>Luminaire aeroscreen lamp &amp; PE cell</td>
<td>S400C</td>
<td>1</td>
</tr>
<tr>
<td>841-6</td>
<td></td>
<td>H100C</td>
<td>1</td>
</tr>
<tr>
<td>841-7</td>
<td></td>
<td>H150C</td>
<td>1</td>
</tr>
<tr>
<td>841-8</td>
<td></td>
<td>H250C</td>
<td>1</td>
</tr>
<tr>
<td>841-9</td>
<td></td>
<td>H400C</td>
<td>1</td>
</tr>
<tr>
<td>913-8</td>
<td></td>
<td>L50</td>
<td>1</td>
</tr>
<tr>
<td>913-9</td>
<td></td>
<td>L90</td>
<td>1</td>
</tr>
<tr>
<td>913-10</td>
<td></td>
<td>L80</td>
<td>1</td>
</tr>
</tbody>
</table>
Construction Type
(Pole, Outreach & Foundation) SLJU
(Luminaire) SL

Assy Selection
808-1 to 4 or
806-9 to 12 or
841-1 to 4 or
841-6 to 9
913-8 to 13

Target board refer Road Authority
Traffic signal lantern refer Road Authority
Labels refer Road Authority
Audio tactile driver refer Road Authority
'Caution 2 sources of 240V supply’ adhesive label
Pedestrian lantern refer Road Authority
Traffic signal terminal panel refer Road Authority
Labelling as per Road Authority requirements
Pushbuttons refer Road Authority
Road lighting terminal assembly refer Road Authority
Anchor cage refer road authority
Footing refer Road Authority
Drawing 1-10-8-3 provides typical details. See note 5

Pole supplied by Road Authority
Conduit refer note 6
Pit refer note 7

Approved Energex:
A. Bletchly
09/08/19

-approved Energex:
A. Bletchly
09/08/19

Checked:
K. Slater
09/08/19

Drawn:
L. Burton / T. Borg
03/04/18

LIGHTING
JOINT USE
MAJOR ROAD JOINT USE TRAFFIC LIGHT
UNDERGROUND SERVICE - CONSTRUCTION

SLJU
SL
SLED

HARD COPY UNCONTROLLED

VOLUME 1
FOLDER 10
PAGE 8-3
ISSUE 0C
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

Parallel to road centreline

Compressible fibre washers

Mortar

High tensile clamping bolt

100mm dia. HD rigid orange conduit

100mm dia. HD rigid orange conduit

N25/20 concrete poured into excavated auger hole without form

Anchor Cage Assy 810-2

BASE PLATE ORIENTATION

# For Dual Outreach Only

Traffic flow (dual carriageway)

Direction of Outreach

Kerb Line

Reference point

Location of hatchway

Traffic flow

Traffic flow (dual carriageway)

Kerb Line #

Direction of Outreach #

Traffic flow

Traffic flow (dual carriageway)
ROAD LIGHTING 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.

NEXT ROAD LIGHTING POLE ON SAME CIRCUIT

LIGHTING JOINT USE
MAJOR ROAD JOINT USE TRAFFIC LIGHT
UNDERGROUND SERVICE - CONSTRUCTION

EE DRWG NO: 1-10-8-5
EGX DRWG NO: 10500-A4-1-10-8-5

VOLUME FOLDER PAGE ISSUE
1 10 8-5 0A
MATERIAL - POLE & OUTREACH

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

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).