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<td>LORA Control Box to Steel Pole</td>
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<td>Bandit Strap (19mm) to Pole</td>
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<td>Cable Guard to Steel Pole</td>
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<td>Connection SBM Pole to Pit Single Phase</td>
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<td>Connection SBM Pole to Pit Three Phase</td>
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<td>Guard Metal (100) to Wood Pole</td>
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<td>Termination 16mm² N/S Cable</td>
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<td>Bridging Cable 25mm² LVABC</td>
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<td>Major Road LED Luminaires L50 Aeroscreen</td>
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**LIGHTING**

**ASSEMBLIES INDEX**
ASSEMBLY 800-1  HOOK SERVICE TO WOOD POLE

ASSEMBLY 800-6  EYEBOLT AND EYENUT M16x150 TO STREET LIGHT POLE
ASSEMBLY 800-7  EYEBOLT AND EYENUT M16x200 TO STREET LIGHT POLE
ASSEMBLY 800-8  EYEBOLT AND EYENUT M16x250 TO STREET LIGHT POLE

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Hook, Service M12
14864 / 2403730

Hole 10 dia.

Eybolt M16
15257 / 1728507

Eyenut M16
15257 / 1728507

STEEL OR CONC. POLE

Bolt, Eye M16x150
08529 / 2400040

Bolt, Eye M16x200
Nil / 1712911

Bolt, Eye M16x250
Nil / 2400882

LIGHTING ASSEMBLIES
SERVICE HOOK TO POLE
EYEBOLT TO STREETLIGHT POLE
Setscrew
Supplied with Fuse holder

Fuse holder LV Service
100A (6-35mm²)
19910 / 0426142

CARTRIDGE FUSE LINK
80A HRC

CARTRIDGE FUSE LINK
20A HRC

CARTRIDGE FUSE LINK
32A HRC
### ASSEMBLY 803-1 SADDLE (20mm) TO WOOD POLE

- **Saddle, zinc plated 25mm**: 04928 / 0431542
- **Saddle Double Sided / Single Sided 20mm**: 04928 / 0431542
- **Nail, 30mm (3.15mm) / Screw, Hex. Hd. 50mm long**: 11430 / 0104435

### ASSEMBLY 803-3 SADDLE ZINC PLATED 25mm

- **Bracket, cable support**: 12466 / 0104210
- **Screw, Hex. Hd. 25mm long**: 20652 / 2406888

### ASSEMBLY 803-6 BRACKET CABLE SUPPORT TO X-ARM

- **Bracket, cable support**: 12466 / 0104210
- **Screw, Hex. Hd. 25mm long**: 20652 / 2406888

### MATERIAL

**ENERGEX** | **QTY** | **SC** | **ERGON** | **SC**
--- | --- | --- | --- | ---
04928 | 1 / 1 | N / SC | 0431542 | 2173024
04929 | N / SC | 1 / 1 | 2173024 | 0104435
11430 | 2 / 2 | 2 / SC | 0104435 | 2406888

---

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**ASSEMBLY 804-1** CONNECTOR I.P.C. 25/95mm² MAIN TO 6/35mm² TAP

Connector, IPC 25mm² to 95mm² ABC mains, 6mm² to 35mm² LVABC tap.
10603 / 0411207

**ASSEMBLY 804-2** CONNECTOR 6-35mm² Al / 4-35mm² Cu

Connector
6-35mm² Al / 4-35mm² Cu
16569 / Nil

**ASSEMBLY 804-6** CONNECTOR TAP-OFF BARE Al MAIN 10-35mm² TO 6/35mm² ABC TAP

**ASSEMBLY 804-7** CONNECTOR TAP-OFF BARE Cu MAIN 25-95mm² TO 6/35mm² ABC TAP

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</table>

Connector, IPC 25mm² to 95mm² ABC mains, 6mm² to 35mm² LVABC tap.
10603 / 0411207

Connector
6-35mm² Al / 4-35mm² Cu
16569 / Nil

**Tap-off Connector**
16567 / 0414121
16568 / 0414131

Tap ABC (do not strip)
NOTES:

1. End cap to be applied in accordance with manufacturers' installation instructions.

ASSEMBLY 805-1  END CAP - PUSH ON 25mm² ABC

End Cap - Push On 25mm² ABC
06616 / 0104207

ASSEMBLY 805-6   CONDUIT PVC FLEXIBLE - 16mm

ASSEMBLY 805-8   CONDUIT PVC FLEXIBLE - 20mm

ASSEMBLY 805-10  TERMINATOR CONDUIT PVC FLEXIBLE 16mm

ASSEMBLY 805-12  TERMINATOR CONDUIT PVC FLEXIBLE 20mm
### Material

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### Notes

1. Luminaires are supplied complete with lamp and PE cell fitted.
2. PE Cell assembly 901-2 and lamp assembly 902-2 to 902-5 & 902-10 to 902-12 & 902-19 are provided for maintenance spares.

### Assemblies

- **ASSEMBLY 806-1**: MAJOR ROAD LUMINAIRE S100 NORMAL
- **ASSEMBLY 806-2**: MAJOR ROAD LUMINAIRE S150 NORMAL
- **ASSEMBLY 806-3**: MAJOR ROAD LUMINAIRE S250 NORMAL
- **ASSEMBLY 806-4**: MAJOR ROAD LUMINAIRE S400 NORMAL
- **ASSEMBLY 806-9**: MAJOR ROAD LUMINAIRE H100 NORMAL
- **ASSEMBLY 806-10**: MAJOR ROAD LUMINAIRE H150 NORMAL
- **ASSEMBLY 806-11**: MAJOR ROAD LUMINAIRE H250 NORMAL
- **ASSEMBLY 806-12**: MAJOR ROAD LUMINAIRE H400 NORMAL

### Diagram

- Luminaire 806-4, 806-3, 806-2, 806-1
- Luminaire 806-10, 806-11, 806-12

---

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**ASSEMBLY 807-1 MAJOR ROAD SUPPLY TO TERMINAL PANEL CONC. POLE**

- **Drip loop**
- **Seal around cable and conduit**
- **Cable, 6mm² 2C Cu Insulated 17119 / 1420068**
- **16mm Conduit, flexible 04838 / 2113005**
- **Alternative position for eyebolt**

**ASSEMBLY 807-6 MAJOR ROAD SUPPLY TO TERMINAL PANEL STEEL POLE**

- **Bushing 15487 / 2406972**
- **Alternative position for eyebolt**
- **Cable, 6mm² 2C Cu Insulated 17119 / 1420068**

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ASSEMBLY 808-1
MAJOR ROAD OUTREACH ARM 1.5m SINGLE

ASSEMBLY 808-2
MAJOR ROAD OUTREACH ARM 3.0m SINGLE

ASSEMBLY 808-3
MAJOR ROAD OUTREACH ARM 4.5m SINGLE

ASSEMBLY 808-4
MAJOR ROAD OUTREACH ARM 1.5m DOUBLE

ASSEMBLY 808-5
MAJOR ROAD OUTREACH ARM 3.0m DOUBLE

ASSEMBLY 808-6
MAJOR ROAD OUTREACH ARM 4.5m DOUBLE

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LIGHTING ASSEMBLIES
MAJOR ROAD OUTREACH ARMS

1.5m Single outreach arm
05734 / 2403718

3.0m Single outreach arm
05750 / 1104685

4.5m Single outreach arm
05750 & 16824 / 1104685 & 1104682

1.5m Double outreach arm
05728 / 2403723

3.0m Double outreach arm
05747 / 2405754

4.5m Double outreach arm
05747 & 16824 / 2405754 & 1104682

Approved Ergon
C. Noel 01/05/18

Approved Energex
F. Zaini 01/05/18

Checked
P. Reif / A. Bletchly 01/05/18

Drawn
L. Burton / T. Borg 30/09/10

EE DRWG NO: 1-2-808
EGX DRWG NO: 10500-A4-1-2-808

C. Noel
30/09/10
### MATERIAL

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<tr>
<td>05645</td>
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- **7.0m BPM pole**
  - ENERGEX: 05637 / 2401888
  - ERGON: 2401888

- **8.5m BPM pole**
  - ENERGEX: 05639 / 2401889
  - ERGON: 2401889

- **10.0m BPM pole**
  - ENERGEX: 05641 / 2401890
  - ERGON: 2401890

- **13.0m BPM pole**
  - ENERGEX: 05645 / 2433696
  - ERGON: 2433696

---

**ASSEMBLY 809-6**
MAJOR ROAD POLE 7.0m BASE PLATE MOUNTED STEEL

**ASSEMBLY 809-7**
MAJOR ROAD POLE 8.5m BASE PLATE MOUNTED STEEL

**ASSEMBLY 809-8**
MAJOR ROAD POLE 10.0m BASE PLATE MOUNTED STEEL

**ASSEMBLY 809-9**
MAJOR ROAD POLE 13.0m BASE PLATE MOUNTED STEEL

---

**LIGHTING ASSEMBLIES**
MAJOR ROAD - BURIED IN GROUND CONCRETE
BASE PLATE MOUNTED STEEL POLE

---

**REFERENCE DRAWING ENERGEX**

**REFERENCE DRAWING ERGON**

---

**Approved Ergon**
J. Brooks 01/04/16

**Approved Energex**
R. English 01/04/16

**Checked**
D. Taylor / B. Oyegoke 01/04/16

**Drawn**
L. Burton / T. Borg 30/09/10

---

**EE DRWG NO:** 1-2-809
**EGX DRWG NO:** 10500-A4-1-2-809

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**HARD COPY UNCONTROLLED**

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**ABN 50 087 646 062**
**ABN 40 078 849 055**

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**ENERGEX or Ergon Energy**

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NOTES:

1. Concrete not included in material. Min. concrete volume:
   - 600 dia foundation = 0.64m³
2. Prepare and place concrete in accordance with Section 17 of AS3600:2009.
3. Concrete shall be grade 25MPa.
   - Place concrete into Auger hole without form.
4. Minimum cover to reinforcement, 65mm. Use nearest oversized Auger.
5. Orientate hold down bolts in footing with the 2 bolts nearest road, parallel to road.
6. Locate conduit/s and bend/s to exit top of footing on pole c and exit side/s of footing to suit direction of incoming conduit/s.
7. Suitable for most soils other than:-
   - (i) Loose sand (commonly occurring in sand dunes).
   - (ii) Swampy silt deposits (commonly occurring in swamps, coastal salt pans and mud flats).
   - (iii) Loose, uncompacted fill material.
   - (iv) Clay with shear strength less than 50kPA
   - Seek structural engineers advice on foundation design for unsuitable soils.
8. If installed in an overhead supply area then securely plug conduit to avoid ingress of soil.

DIMENSIONS

DIM 'A':
- 750mm min. footpath (Ergon)
- 600mm min. footpath (Energex)

ASSEMBLY 810-2 MAJOR ROAD FOUNDATION 350 PCD BPM STEEL POLE
NOTES:
1. To provide a permanent earth attachment to pole, assemble lug, 1 flat washer, 1 spring washer, 1 nut and 1 flat washer under terminal panel.

ASSEMBLY 811-1 MAJOR ROAD TERMINAL PANEL AND CABLE TO SINGLE OUTREACH ARM

- Cable, 2.5mm² Cu. 2 core PVC 07112 / 2403244
- Overhead supply
- Heatshrink tubing Nil / 0184880
- Termination 16mm² & 4mm² N/S cable Nil / 2427359
- Underground supply
- Drip loop
- Neutral / Earth link
- Terminal panel 10412 / 1103815

ASSEMBLY 811-2 MAJOR ROAD TERMINAL PANEL AND CABLE TO DOUBLE OUTREACH ARM

- Cable, 4mm² Cu. single core PVC red 07133 / 1542773
- Overhead supply
- Heatshrink tubing Nil / 0184880
- Termination 16mm² & 4mm² N/S cable Nil / 2427359
- Underground supply
- Drip loop
- Neutral / Earth link
- Terminal panel 10412 / 1103815

NOTES:
1. To provide a permanent earth attachment to pole, assemble lug, 1 flat washer, 1 spring washer, 1 nut and 1 flat washer under terminal panel.
**ASSEMBLY 812-1**
BEND U/G SERVICE CONDUIT 40 DIA. x 90° 300R

- **MATERIAL**
  - ENERGEX SC: 812-1
  - QTY: 1
  - ERGON SC: 2406976

  - 40 Dia 300R PVC 90° bend
    06514 / 2406976

**ASSEMBLY 812-10**
BEND U/G SERVICE CONDUIT 40 DIA. x 90° 500R

- **MATERIAL**
  - ENERGEX SC: 812-10
  - QTY: 1
  - ERGON SC: Nil

  - 40 Dia 600R PVC 90° bend
    17030 / Nil

**ASSEMBLY 812-5**
CONDUIT H.D. 40 DIA.

- **MATERIAL**
  - ENERGEX SC: 812-5
  - QTY: 1
  - ERGON SC: 2406677

  - Conduit H.D. 40 Dia. 4m Length
    06640 / 2406677

**ASSEMBLY 812-15**
CONDUIT FLEXIBLE 40 DIA. & ADAPTOR

- **MATERIAL**
  - ENERGEX SC: 812-15
  - QTY: 1
  - ERGON SC: Nil

  - Conduit flexible 40 Dia.
    17121 / Nil

  - Adaptor 40 Dia. rigid to 40 Dia. Flexible
    17122 / Nil
NOTES:
1. For use when shallow rock is encountered and BPM steel pole foundation (refer Assemblies pages 810 / 839) is not able to be excavated.
2. Concrete and reinforcement fabric not included in material. Min. concrete volume = 3.07m³
4. SL92 fabric shall be in accordance with AS1304.
5. Concrete shall be grade 25MPa.
6. Minimum cover to reinforcement, 100mm.
7. Orientate hold down bolts in footing with the 2 bolts nearest road, parallel to road.
8. Locate conduit/s and bend/s to exit top of footing on pole and exit side/s of footing to suit direction of incoming conduit/s.
9. If installed in an area of overhead supply then securely plug conduit to avoid ingress of soil.

ASSEMBLY 813-2 MAJOR ROAD FOUNDATION 350 PCD SHALLOW (SPECIAL PURPOSE ONLY)

ASSEMBLY 813-4 MAJOR ROAD FOUNDATION 500 PCD SHALLOW (SPECIAL PURPOSE ONLY)

LIGHTING ASSEMBLIES
MAJOR ROAD
BPM STEEL POLE SHALLOW FOUNDATION
MATERIAL

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ASSEMBLY 814-1
MINOR ROAD POLE 4.5m NOSTALGIA (GREEN)

ASSEMBLY 814-2
MINOR ROAD POLE 4.5m NOSTALGIA (BLUE/GREY)

ASSEMBLY 814-3
MINOR ROAD POLE 4.5m NOSTALGIA (BLACK)
## Notes

1. Luminaires are supplied complete with lamp and PE cell fitted.
2. PE Cell assembly 901-1 and lamp assembly 902-1, 14 complete with lamp and PE cell fitted.
3. LED luminaire, assembly 816-21 - 25, use NEMA, High Rating PE cells (Assy 901-2).

### MATERIAL

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<td>MINOR ROAD LUMINAIRE S70 NOSTALGIA TYPE 1 BLACK</td>
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</table>
### Notes

1. Luminaires are supplied complete with lamp and PE cell fitted.
2. PE Cell assembly 901-1 and lamp assembly 902-1, 8, 9, 14 are provided for maintenance spares.

### Notes

1. Luminaires are supplied with PE cell.
2. Assemblies 22, 23, 33, 34 & 36 are supplied with an adaptor to reduce upcast angle to 0°.

### MATERIAL

#### Assorted Material

<table>
<thead>
<tr>
<th>Assy</th>
<th>Description</th>
<th>QTY</th>
<th>ENERGEX SC</th>
<th>ERGON SC</th>
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### LIGHTING ASSEMBLIES

#### MINOR ROAD LUMINAIRE NORMAL / AEROSCREEN

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<td>1</td>
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NOTES:

1. To provide a permanent earth attachment to pole assemble lug, 1 flat washer, 1 spring washer, 1 nut and 1 flat washer under terminal panel.
2. Provide approximately 100mm of excess service cable. Loop in pole.
3. Terminal blocks provided as part of terminal panel suitable for max. 6mm² cable.

TERMINAL PANEL 05487 / 1103813

Neutral / Earth Link

Heatshrink tubing NIL / 0184880

Termination 16mm² & 4mm² N/S cable
NIL / 2427359

To luminaire

Additional cable for double outreach arm.

Drip loop

Terminal panel mounting strap

Earth connection. Refer note 1.

Underground service. Refer note 2.

MINOR ROAD TERMINAL PANEL AND CABLE TO NOSTALGIA TYPES 1 & 2

MINOR ROAD TERMINAL PANEL AND CABLE TO SINGLE OUTREACH ARM

MINOR ROAD TERMINAL PANEL AND CABLE TO DOUBLE OUTREACH ARM

ASSEMBLY 818-1

ASSEMBLY 818-2

ASSEMBLY 818-3
### ASSEMBLY 821-1
MINOR ROAD BRACKET MI1 & CABLE MOUNTING TO WOOD POLE

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<tr>
<td></td>
<td>17119</td>
<td>AR</td>
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To O/H mains or service

Bracket, 1.2m Outreach
Minor Road
22405 / 1140638

Hole 10 Dia.

Coachscrew, M12x100
00684 / 1757894

Cable 2 core
6mm² Cu XLPE
17119 / 1420068

Active Core to Fuse Holder Insulation Piercing Connector
Do not strip

### ASSEMBLY 821-2
MINOR ROAD BRACKET MI2 & CABLE MOUNTING TO WOOD POLE

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Bracket, 3.0m Outreach,
1.0m Uplift - Minor Road
22406 / 0104692

Coachscrew, M12x100
00684 / 1757894

To O/H mains or service

Hole 10 Dia.

Active Core to Fuse Holder Insulation Piercing Connector
Do not strip

Cable 2 core
6mm² Cu XLPE
17119 / 1420068

Active Core to Fuse Holder Insulation Piercing Connector
Do not strip

Lighting Assemblies
MINOR ROAD STREETLIGHT BRACKETS MI1 & MI2 MOUNTING TO WOOD POLE
MATERIAL

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ASSEMBLY 822-1 MAJOR ROAD BRACKET MA1 & CABLE MOUNTING TO WOOD POLE

To O/H mains or service

Bracket, 1.5m Outreach
Major Road
22390 / 0104186

Coatscrew, M12x90/100
00684 / 1757894

Active Core to Fuse Holder Insulation Piercing Connector - Do not strip

To Luminaire

To O/H mains or service

Hole 10 Dia.

Cable 2 core
6mm² Cu XLPE
17119 / 1420068

MATERIAL

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ASSEMBLY 822-2 MAJOR ROAD BRACKET MA2 & CABLE MOUNTING TO WOOD POLE

To O/H mains or service

Bracket, 3.0m Outreach,
1.0m Uplift - Major Road
22402 / 0104187

Coatscrew, M12x90/100
00684 / 1757894

Active Core to Fuse Holder Insulation Piercing Connector
Do not strip

To Luminaire

Cable 2 core
6mm² Cu XLPE
17119 / 1420068

REFERENCE DRAWING

EE DRWG NO: 1-2-822

LIGHTING ASSEMBLIES
MAJOR ROAD STREETLIGHT BRACKETS MA1 & MA2 MOUNTING TO POLE

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J. Brooks 14/10/10 R. English 14/10/10 D. Taylor / B. Oyegoke 14/10/10

L. Burton / T. Borg 30/09/10

VOLUME FOLDER PAGE ISSUE

1 2 822 0A
To O/H mains or service

Hole 10 Dia.

Coachscrew, M12x90/100
00684 / 1757894

Cable, 2 core
6mm² Cu XLPE
17119 / 1420068

Active Core to Fuse Holder Insulation Piercing Connector - Do not strip

Bracket, MA3
4.5m Outreach, 2.5m Uplift
22403 / 0104188

or

Bracket, MA4
3.0m Outreach, 4.0m Uplift
22404 / 0104190

Coachscrew, M12x100
00684 / 1757894

To Luminaire

ASSEMBLY 823-1
MAJOR ROAD BRACKET MA3 & CABLE, MOUNTING TO WOOD POLE

ASSEMBLY 823-2
MAJOR ROAD BRACKET MA4 & CABLE, MOUNTING TO WOOD POLE

LIGHTING ASSEMBLIES
MAJOR ROAD STREETLIGHT BRACKETS
MA3 & MA4 MOUNTING TO POLE
ASSEMBLY 824-1 MAJOR ROAD SPIGOT ADAPTOR BRACKET & CABLE MOUNTING TO WOOD POLE

MATERIAL

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<td>B&amp;N M20</td>
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To O/H mains or service

Bracket, Spigot Adaptor Major Road 22401 / 2406323

Outreach stop

Bolt and Nut, M20 x As Reqd

Washer, Rd. M20 01046 / 1777577

Washer, Volute M20 10447 / 1778107

Washer, Sq. M20 08521 / 1780594

Hole 22 Dia.

Cable 2 core 6mm² Cu XLPE 17119 / 1420068

Active Core to Fuse Holder Insulation Piercing Connector - Do not strip

Active Core to Fuse Holder Insulation Piercing Connector - Do not strip

MAJOR ROAD SPIGOT ADAPTOR BRACKET & CABLE MOUNTING TO WOOD POLE

LIGHTING ASSEMBLIES

EE DRWG NO: 1-2-824

VOLUME FOLDER PAGE ISSUE
1 2 824 0A
3 Way Outreach Head Frame
suit 1.5m outreach
Nil / 0104681
suit 3.0m outreach
Nil / 0104680

4 Way Outreach Head Frame
suit 1.5m outreach
Nil / 0104679
suit 3.0m outreach
Nil / 0104678

1.5m outreach = 1410mm stem
3.0m outreach = 600mm stem

1.5m outreach = 1410mm stem
3.0m outreach = 600mm stem
ASSEMBLY 826-1  MAJOR ROAD SPIDER OUTREACH ARM 1.5m
ASSEMBLY 826-2  MAJOR ROAD SPIDER OUTREACH ARM 3.0m

MATERIAL

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OUTREACH HEAD FRAME

1.5m outreach arm
Nil / 0104677

3.0m outreach arm
Nil / 0104676

LIGHTING ASSEMBLIES - ERGON ENERGY ONLY
MAJOR ROAD OUTREACH ARMS FOR 3 & 4 WAY FRAME

5 82 8057 1
NOTES:
1. To provide a permanent earth attachment to pole, assemble lug, 1 flat washer, 1 spring washer, 1 nut and 1 flat washer under terminal panel.

ASSEMBLY 827-1
TERMINAL PANEL AND CABLE
TO MAJOR ROAD SPIDER 3 WAY OUTREACH ARM

To luminaire

Cable, 2.5mm² Cu. 2 core PVC
07112 / 2403244

Circuit Breaker
15885 / 2402333

Drip loop

Neutral / Earth link

Termination
16mm² & 4mm² N/S cable
Nil / 2427359

Heatshrink tubing
Nil / 0184880

Terminal panel
10412 / 1103815

Underground supply

Cable, 4mm² Cu. single core PVC red
07133 / 1542773

ASSEMBLY 827-2
TERMINAL PANEL AND CABLE
TO MAJOR ROAD SPIDER 4 WAY OUTREACH ARM

To luminaire

Cable, 2.5mm² Cu. 2 core PVC
07112 / 2403244

Circuit Breaker
15885 / 2402333

Drip loop

Neutral / Earth link

Termination
16mm² & 4mm² N/S cable
Nil / 2427359

Heatshrink tubing
Nil / 0184880

Terminal panel
10412 / 1103815

Underground supply

Cable, 4mm² Cu. single core PVC red
07133 / 1542773

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ABN 50 087 646 062

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LIGHTING
ASSEMBLIES
MAJOR ROAD
TERMINAL PANELS - 3 WAY & 4 WAY
# ASSEMBLY 828-1
**MAJOR ROAD POLE 7.0m SLIP BASE MOUNTED STEEL**

# ASSEMBLY 828-2
**MAJOR ROAD POLE 8.5m SLIP BASE MOUNTED STEEL**

# ASSEMBLY 828-3
**MAJOR ROAD POLE 10.0m SLIP BASE MOUNTED STEEL**

# ASSEMBLY 828-4
**MAJOR ROAD POLE 13.0m SLIP BASE MOUNTED STEEL**

---

### MATERIAL

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Care should be exercised when painting or powder coating poles to ensure that the underside of the base plate is free of paint or powder coating (ie. remains as plain galvanised steel) for at least 20mm either side of each bolt attachment slot. This requirement is essential to ensure that the pole earth continuity is maintained through the rag bolt foundation assembly.

---

**SBM pole**

**Slip Base Assembly**

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<td>Use following Assy for</td>
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<td>13.0m SBM Pole</td>
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<td>16826 / 2402972</td>
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**Bolt, nut and washers**

high tensile

M36 x 125

---

**Shear washer**
Hold down bolt cage
350 PCD
14108 / 0924066
Use following assy
for 13.0m SBM pole
500 PCD
16822 / 2403768

ASSEMBLY 829-1 MAJOR ROAD SBM 350 PCD HOLD DOWN BOLT CAGE
ASSEMBLY 829-4 MAJOR ROAD SBM 500 PCD HOLD DOWN BOLT CAGE

LIGHTING ASSEMBLIES
MAJOR ROAD
SBM POLE HOLD DOWN BOLT CAGE

IEEE DRWG NO: 1-2-829
EGX DRWG NO: 10500-A4-1-2-829

VOLUME  PAGE  ISSUE
1      2        829       0C

Approved Ergon  Date
C. Noel  21/03/14
Approved Energex  Date
F. Zaini  21/03/14
Checked  Date
P. Relf / A. Bletchly  21/03/14

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REFERENCE DRAWING ENERGEX
REFERENCE DRAWING ERGON

582 8073 1

C. Noel  21/03/14
F. Zaini  21/03/14
P. Relf / A. Bletchly  21/03/14

C. Noel  21/03/14
F. Zaini  21/03/14
P. Relf / A. Bletchly  21/03/14

Reviewed
L. Burton / T. Borg  01/10/10

0924066
2403768
ASSEMBLY 830-1 SIGN, 5 DIGIT ASSET IDENTIFICATION NUMBER
GLUED TO ESTATE POLE (MINOR ROAD)

<table>
<thead>
<tr>
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<tr>
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Sign, Pole asset identification number
NIL / 2407012

Adhesive
NIL / 2406020

ASSEMBLY 830-5 SIGN, 7 DIGIT ASSET IDENTIFICATION NUMBER
GLUED TO STEEL OR CONC. POLE (MAJOR/MINOR ROAD)

<table>
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Sign, Pole asset identification number
NIL / 0104333

Adhesive
NIL / 2406020

LIGHTING ASSEMBLIES - ERGON ENERGY ONLY
SIGN (ASSET IDENTIFICATION NUMBER) TO POLE

EE DRWG NO: 1-2-830
EGX DRWG NO: 10600-A4-1-2-830
ASSEMBLY 831-1
CONNECTION SBM POLE TO PIT SINGLE PHASE - CONTAINS PIT, LID & JUNCTION BOX KIT

ASSEMBLY 831-2
CONNECTION SBM POLE TO PIT SINGLE PHASE - CONTAINS JUNCTION BOX KIT ONLY

Note:
Position connector components with larger outside diameter above connector components with smaller outside diameter.

LIGHTING ASSEMBLIES
MAJOR ROAD
CONNECTION SBM POLE TO PIT SINGLE PHASE

Approved Ergon
Date
A. Bletchly 09/08/19

Approved Energex
Date
A. Bletchly 09/08/19

Drawn
Date
K. Slater 09/08/19

L. Burton / T. Borg 01/10/10

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<td>832-3</td>
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<td></td>
</tr>
<tr>
<td>832-4</td>
<td>1/1</td>
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Terminal panel 17258 / 2418861

To luminaire

Drip loop

Additional cables for 2, 3 & 4 outreach arms.

Underground service.

Cable, 2.5mm² Cu. 2 core PVC 07112 / 2403244

### ASSEMBLY 832-1
**MAJOR ROAD TERMINAL PANEL & CABLE TO 1 OUTREACH SBM POLE**

### ASSEMBLY 832-2
**MAJOR ROAD TERMINAL PANEL & CABLE TO 2 OUTREACH SBM POLE**

### ASSEMBLY 832-3
**MAJOR ROAD TERMINAL PANEL & CABLE TO 3 OUTREACH SBM POLE**

### ASSEMBLY 832-4
**MAJOR ROAD TERMINAL PANEL & CABLE TO 4 OUTREACH SBM POLE**

**LIGHTING ASSEMBLIES**
**MAJOR ROAD SBM POLE TERMINAL PANEL**

**REFERENCE DRAWING ENERGEX**

**REFERENCE DRAWING ERGON**

**EE DRWG NO:** 1-2-832

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**ABN 50 087 646 062**

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**ABN 40 078 849 055**

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**Approved Ergon**

A. Bletchly 01/03/19

**Approved Ergon**

A. Bletchly 01/03/19

**Checked**

K. Slater 01/03/19

**Drawn**

L. Burton / T. Borg 01/10/10

**VOLUME** | **FOLDER** | **PAGE** | **ISSUE**
---|---|---|---
1 | 2 | 832 | 0C
1. Install in accordance with supplier's installation instructions.
2. Ensure completed junction box is watertight.
3. Support straps included in Energex S.C. 2422160

**NOTES**
- Looping cable in S/L column
- To Terminal panel

**ASSEMBLY 833-1**
**PIT AND LID TYPE 4**

<table>
<thead>
<tr>
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<tr>
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<td>1 / 1</td>
<td>15528</td>
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<tr>
<td>833-2</td>
<td>1 / 1</td>
<td>06839</td>
<td>0168055</td>
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- Lid, Type 4
- Type 2
- 15552 / NIL

**ASSEMBLY 833-2**
**PIT AND LID TYPE 2**

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<td>833-2</td>
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<td>NIL</td>
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- Pit, Type 4
- 06839 / 0168055
- Type 2
- 15552 / NIL

**ASSEMBLY 833-5**
**JUNCTION BOX / ENCLOSURE & CABLE INSECT PROTECTED**

<table>
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<th>ENERGEX SC</th>
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<th>ERGON SC</th>
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- Terminal BLACK
- 4 tunnel 25mm²
- 15539 / NIL

- Terminal RED
- 4 tunnel 25mm²
- 17021 / NIL

- Heatshrink tubing
- NIL / 0184880

- Type 2
- 06839 / 0168055

- Type 4
- 15552 / 0168052

- Type 2
- 15551 / NIL

- Type 4
- 15552 / NIL

**LIGHTING ASSEMBLIES**
**BPM & BIG POLES MAJOR / MINOR ROAD UNDERGROUND PIT LOOPING CONNECTION**

**REFERENCE DRAWING ENERGEX**
**REFERENCE DRAWING ERGON**

<table>
<thead>
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<th>FOLDER</th>
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<th>ISSUE</th>
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<td>1</td>
<td>2</td>
<td>833</td>
<td>0D</td>
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</tbody>
</table>
### ASSEMBLY 834-1

**Non-Energex/Ergon "Metered" Identification Sign Screwed to Wood Pole**

- **MATERIAL**
  - ENERGEX SC 834-1: 1/1
  - QTY: 1/1
  - SC: 834-2: 1/1
  - QTY: 1/1
  - SC: 834-4: 1/1
  - QTY: 1/1
  - ERGON SC: 0453090
  - QTY: 1/1
  - 0453084
  - QTY: 1/1
  - 0104435
  - QTY: 1/1
  - 2406020

**Details:**
- Adhesive: NIL / 2406020
- "Metered" Backing Plate: 11685 / 0453090
- Self Adhesive Label: 15978 / 0453084
- Screw, Hex. Hd.: 50mm long
- 11430 / 0104435

### ASSEMBLY 834-2

**Non-Energex/Ergon "Metered" Identification Sign Glued to Concrete Pole**

- **MATERIAL**
  - ENERGEX SC 834-1: 1/1
  - QTY: 1/1
  - SC: 834-2: 1/1
  - QTY: 1/1
  - SC: 834-4: 1/1
  - QTY: 1/1
  - ERGON SC: 15978
  - QTY: 1/1
  - 0453084

**Details:**
- Self Adhesive Label: 15978 / 0453084
- Adhesive: NIL / 2406020
- "Metered" Backing Plate: 11685 / 0453090
- Self Adhesive Label: 15978 / 0453084
- Strap: 02477 / NIL
- Buckle: 02481 / NIL

### ASSEMBLY 834-3

**Non-Energex/Ergon "Metered" Identification Sign Self Adhesived to Metal Pole**

- **MATERIAL**
  - ENERGEX SC 834-1: 1/1
  - QTY: 1/1
  - SC: 834-2: 1/1
  - QTY: 1/1
  - SC: 834-4: 1/1
  - QTY: 1/1
  - ERGON SC: 15978
  - QTY: 1/1
  - 0453084

**Details:**
- Self Adhesive Label: 15978 / 0453084
- Adhesive: NIL / 2406020
- "Metered" Backing Plate: 11685 / 0453090
- Self Adhesive Label: 15978 / 0453084
- Strap: 02477 / NIL
- Buckle: 02481 / NIL

---

**Diagram:**
- Diagram showing the assembly of the "Metered" identification sign on different types of poles.
- Details include the use of adhesives, screws, and self-adhesive labels.
**Rate "3" Backing Plate**
NIL / 0453094
Self Adhesive Label
NIL / 0453078

**Screw, Hex. Hd.**
50mm long
NIL / 0104435

**ASSEMBLY 835-1**
*NON-ENERGEX/ERGON RATE "3" IDENTIFICATION SIGN SCREWED TO WOOD POLE*

**ASSEMBLY 835-2**
*NON-ENERGEX/ERGON RATE "3" IDENTIFICATION SIGN GLUED TO CONCRETE POLE*

**Self Adhesive Label**
15831 / NIL

**ASSEMBLY 835-3**
*NON-ENERGEX/ERGON RATE "3" IDENTIFICATION SIGN SELF ADHESIVED TO METAL POLE*

**ASSEMBLY 835-4**
*NON-ENERGEX/ERGON "W" IDENTIFICATION SIGN SELF ADHESIVED TO METAL POLE*

---

<table>
<thead>
<tr>
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<td>- / 1</td>
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---

**LIGHTING ASSEMBLIES**
RATE 3 IDENTIFICATION SIGN ATTACHMENT TO POLE

---

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**REFERENCE DRAWING ENERGEX**
ENGRX DRWG NO: 10500-A4-1-2-835

---

**REFERENCE DRAWING ERGON**
ENGRX DRWG NO: 10500-A4-2.40

---

**VOLUME FOLDER PAGE ISSUE**
1 2 835 0B

---

**Approved Energex Date**
P. Reif / A. Bletchly 01/10/10

---

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**Drawing References**

---

**Checklist**

---

**Drawn Date**
P. Reif / A. Bletchly 01/10/10

---

**Checked Date**
L. Burton / T. Borg 01/10/10

---

**Approved Energex Date**
F. Zaini 19/04/17

---

**Approved Energex Date**
C. Noel 19/04/17
NOTE:
All bands to be double wrapped

ASSEMBLY 836-1 BRACKET FOR INSULATING STREET LIGHT MI1, MI2, MA1 & MA2 TO CONCRETE POLE
ASSEMBLY 837-1  BRACKET FOR INSULATING STREET LIGHT MA3 TO CONCRETE POLE
ASSEMBLY 837-5  BRACKET FOR INSULATING STREET LIGHT MA4 TO CONCRETE POLE

NOTE:
All bands to be double wrapped

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<td>-1</td>
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</tr>
<tr>
<td>NIL</td>
<td>-1</td>
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Wood Insulator
MA3 - 1500 x 150 x 100
NIL / 2403000
MA4 - 2400 x 150 x 100
NIL / 2405717

Washer, Sq. M16
NIL / 1780586
Washer, Rd. M12
NIL / 1777542

Hook, Service M12
NIL / 2403730
ASSEMBLY 838-1 TERMINATION 16mm² & 4mm² N/S CABLE

Termination, 16mm² & 4mm² N/S cable
NIL / 2427359

Length as required

Heatshrink tubing
NIL / 0184880

ASSEMBLY 838-5 WATER BLOCK CONNECTOR 1.5 - 25mm²

Water block connector 1.5mm² - 25mm²
NIL / 2430379

LIGHTING ASSEMBLIES - ERGON ENERGY ONLY
TERMINATION 16mm² & 4mm² N/S CABLE
WATER BLOCK CONNECTOR 1.5mm² - 25mm²
**NOTES:**

1. This assembly is for use with the 13.0m BPM pole.
2. Concrete not included in material.
   - Min. concrete volume: 750 dia foundation = 1.02m³
4. Concrete shall be grade 25MPa. Place concrete into Auger hole without form.
5. Minimum cover to reinforcement, 65mm. Use nearest oversize Auger.
6. Orientate hold down bolts in footing with the 2 bolts nearest road, parallel to road.
7. Locate conduit/s and bend/s to exit top of footing on pole c and exit side/s of footing to suit direction of incoming conduit/s.
8. Hole to be filled within 48 hours of excavation.
9. Suitable for most soils other than:-
   - (i) Loose sand (commonly occurring in sand dunes).
   - (ii) Swamy silt deposits (commonly occurring in swamps, coastal salt pans and mud flats).
   - (iii) Loose, uncompacted fill material.
   - (iv) Clay with shear strength less than 50kPa. Seek structural engineers advice on foundation design for unsuitable soils.
10. If installed in an overhead supply area then securely plug conduit to avoid ingress of soil.

**ASSEMBLY 839-2** MAJOR ROAD FOUNDATION 500 PCD BPM STEEL POLE

**MATERIAL**

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<tr>
<th>ENERGEX SC</th>
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<tr>
<td>17121</td>
<td>AR</td>
<td>2406677</td>
</tr>
<tr>
<td>17030</td>
<td>1 / 1</td>
<td>2406976</td>
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**DIMENSIONS**

- **DIM ‘A’:**
  - 750mm min. footpath (Ergon)
  - 600mm min. footpath (Energex)

**CONSTRUCTION:**

- Conduit projection 75mm above top of footing.
- Form top of footing above ground to size and shape.
- Finished ground line
- U/G Service only
  - 40 dia. UPVC conduit
  - 17121 / 2406677 and
  - 40 dia. 300R UPVC 90° bend
  - 17030 / 2406976
- Cast in footing. Plug both ends and fix securely in place before placing concrete.
- 500 PCD hold down bolt assembly 16822 / 2403768
- 40 Nom grout
- Bolt Proj. 100 ± 5
- 75 min
- 750 dia
- Refer note 5

**LIGHITNG ASSEMBLIES**

MAJOR ROAD foundaTION 500 PCD BPM STEEL POLE FOUNdaTION 500 PCD

**VOLUME FOLDER PAGE ISSUE**

| 1 | 2 | 839 | 0D |

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NOTES:
1. Concrete not included in material. Min. concrete volume:
   - 600 dia foundation 1200 deep = 0.40m³
   - 600 dia foundation 1500 deep = 0.43m³
2. Prepare and place concrete in accordance with Section 17 of AS3600:2009.
3. Concrete shall be grade 25MPa. Place concrete into Auger hole without form.
4. Minimum cover to reinforcement, 65mm. Use nearest oversize Auger.
5. Orientate hold down bolts in footing with the 2 bolts nearest road, parallel to road.
6. Assy 840-2 for use with 5.5m pole & 2m double outreach (Total 7.5m hgt).
7. Holes to be filled within 48 hours of excavation.
8. Suitable for most soils other than:
   (i) loose sand (commonly occurring in sand dunes).
   (ii) swampy silt deposits (commonly occurring in swamps, coastal salt pans & mud flats).
   (iii) loose, uncompacted fill material.
   (iv) clays with shear strength less than 50kPa
   Seek structural engineers advice on foundation design for unsuitable soils.
9. Locate conduit and bend to exit top of footing on pole C and exit side of footing to suit direction of incoming conduit.

ASSEMBLY 840-1 MINOR ROAD FOUNDATION CAST IN SITU DEPTH 1.2m

ASSEMBLY 840-2 MINOR ROAD FOUNDATION CAST IN SITU DEPTH 1.5m

LIGHTING ASSEMBLIES MINOR ROAD CAST IN SITU FOUNDATION
### MATERIAL

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<td>841-2</td>
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<td>841-3</td>
<td>MAJOR ROAD LUMINAIRE S250A AEROSCREEN</td>
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<td>841-4</td>
<td>MAJOR ROAD LUMINAIRE S400A AEROSCREEN</td>
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</table>

**Luminaire**

- S100A Aeroscreen: H100A Aeroscreen
  - 21580 / 2403271
- S150A Aeroscreen: H150A Aeroscreen
  - 21581 / 1150252
- S250A Aeroscreen: H250A Aeroscreen
  - 21582 / 1150255
- S400A Aeroscreen: H400A Aeroscreen
  - 21583 / 1150288

**Notes**

1. Luminaires are supplied complete with lamp and PE cell fitted.
2. PE Cell assembly 901-2 and lamp assembly 902-2 to 5, 902-10 to 12 & 902-19 are provided for maintenance spares.
NOTES:

1. Use nearest oversize auger.
2. Orientate hold down bolts in footing with
   the 2 bolts nearest road, parallel to road.
3. Holes to be filled within 48 hours of excavation.
4. Suitable for most soils other than:-
   (i) Loose sand (commonly occurring
       in sand dunes).
   (ii) Swampy silt deposits (commonly
       occurring in swamps, coastal salt
       pans and mud flats).
   (iii) Loose, uncompacted fill material.
   (iv) Clay with shear strength less
       than 50kPA
Seek structural engineers advice on
foundation design for unsuitable soils.
5. Locate conduit on side of foundation to
   suit direction of incoming conduit.

Install first length of conduit prior
to completing backfill.
Fit internal conduit reducer
for Energex 50mm - 40mm PVC
to enable connection of
external 40mm conduit.
20286 / NIL

Stabilised backfill foundation refer
Construction Practices dwg. 1-3-7-1.
Total required = Approx 0.25m³
## Notes

1. Luminaires are supplied complete with lamp and PE cell fitted.
2. PE Cell assembly 901 and lamp assembly 902-1 & 902-14 are provided for maintenance spares.
3. LED luminaires, assembly 843-18 - 20, use NEMA, High Rating PE cell (Assy 901-2).
<table>
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Bracket, double outreach arm
Green - 17231 / NIL
Black - 17870 / NIL
Blue/Grey - 17871 / NIL
ASSEMBLY 845-1
MINOR ROAD BRACKET MI3 & CABLE
MOUNTING TO WOOD POLE

Bracket, 0.5m Outreach, Minor Road bracket
22425 / 2434223

Coachscrew, M12x90 / 100
00684 / 1757894

To Luminaire

Active Core
to Fuse Holder

Hole 10 Dia.

To O/H mains
or service

Cable 2 core
6mm² Cu XLPE
17119 / 1420068

ASSEMBLY 845-2
MINOR ROAD BRACKET MI3 & CABLE
MOUNTING TO CONCRETE POLE

Bracket, 0.5m Outreach, Minor Road bracket
22425 / 2434223

To Luminaire

Active Core
to Fuse Holder

Cable 2 core
6mm² Cu XLPE
17119 / 1420068

S/S buckle
02483 / 0406311

S/S bandit
strap 19mm
02476 / 0406297

NOTE:
All bands to be
double wrapped

MATERIAL

ENERGEX SC  QTY  ERGON SC
22425  1 / 1  2434223
00684  6 / 6  1757894
17119  AR   1420068

ENERGEX SC  QTY  ERGON SC
22425  1 / 1  2434223
17119  AR   1420068
02476  5m   0406297
02483  2 / 2  0406311

MINOR ROAD STREETLIGHT BRACKETS
MI3 0.5m OUTREACH MOUNTING TO POLE

LIGHTING ASSEMBLIES

EE DRWG NO: 1-2-845
EGX DRWG NO: 10500-A4-1-2-845
Floodlight outreach extension
2427300 / 2427300

M10 Bolt supplied with bracket

ASSEMBLY 846-1 MAJOR ROAD PEDESTRIAN FLOODLIGHT OUTREACH EXTENSION

LIGHTING
ASSEMBLIES
MAJOR ROAD POLE BRACKETS PEDESTRIAN CROSSING
FLOODLIGHT OUTREACH EXTENSION

EE DRWG NO: 1-2-846
EGX DRWG NO: 10500-A41-2-846

VOLUME FOLDER PAGE ISSUE
1 2 846 0B
### MATERIAL

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#### Assembley 847-1
BRACKET PT & CABLE MOUNTING TO WOOD CROSSARM MINOR ROAD

#### Assembley 847-3
BRACKET PT & CABLE MOUNTING TO WOOD CROSSARM MAJOR ROAD

### LIGHTING ASSEMBLIES
MAJOR & MINOR ROAD
0.3m POWER TRANSFORMER OUTREACH

#### Conduit
- Flexible Conduit
- 16mm grey / black
- 04838 / 2113005

#### Conduit saddle
- 25mm (corrugated)
- 11430 / NIL

#### Sleeve PT bracket
- 13166 / 1104726

#### Minor road PT bracket
- 22424 / 2433712

#### Fuse link
- Cartridge 32A
- 04434 / 0124002

#### Screw
- Plated Brass, M5 x 25mm
- 08536 / 2400076
- Nut, plated brass, M5
- 00983 / 2400093
- Washer, S/S, 1/4
- 01147 / 2406978

### Diagram

- Conduit, flexible 25mm (corrugated)
- 16023 / 2434488

- Coachscrew, galv
- M16 x 90/100mm
- 00688 / 1758076

- Conduit saddle 25mm
- Plastic double sided
- 0929 / 2173040

- Nail, galv, 30mm x 3.15mm
- 11430 / NIL

- Screw, Hex Head 50mm long
- 0104435

- Cable 2 core
6mm² Cu XLPE
17119 / 1420068

- Fuse holder
- 19910 / 0141106

- Washer, S/S, 1/4
- 01147 / 2406978
CONNECTION DIAGRAM

Cable 2.5mm²
2c flat PVC/PVC
07112 / NIL

Cable 4.0mm²
4C PVC/PVC
12175 / NIL

Circuit breakers

Headframe terminal block

To luminaire

Removable cap

Catenary fixed to support

To luminaire

Catenary wire 1.6mm

Strap, tie down

06490 / NIL

Pole

Cable from terminal panel
tied to catenary wire

High mast outreach frame
1 way
16823 / 2403719
2 way
13940 / 2403720

MAJOR ROAD HIGH MAST OUTREACH FRAME - 1 WAY

MAJOR ROAD HIGH MAST OUTREACH FRAME - 2 WAY

HEADFRAME SECTIONAL DETAIL
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<td>05270</td>
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<td>853-4</td>
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<td>2467132</td>
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<td>853-6</td>
<td>1 / 1</td>
<td>2467140</td>
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High Mast Luminaire
S150
21590 / NIL
S250
21591 / 2403268
S400
21592 / 2403254

Clear Lamp
S150
05268 / NIL
S250
05270 / 1141599
S400
05273 / 1141639

ASSEMBLY 853-1 MAJOR ROAD HIGH MAST LUMINAIRE S150
ASSEMBLY 853-2 MAJOR ROAD HIGH MAST LUMINAIRE S250
ASSEMBLY 853-3 MAJOR ROAD HIGH MAST LUMINAIRE S400

LED Luminaire
100W
2467140
2467124
175W
2467132
300W
2467140
### MATERIAL

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<td>854-3</td>
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<td>16890</td>
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**ASSEMBLY 854-1**  
MAJOR ROAD MID HINGED BPM STEEL POLE 10.0m

**ASSEMBLY 854-3**  
MAJOR ROAD MID HINGED BPM STEEL POLE 13.0m

---

### LIGHTING

**ASSEMBLY 854-10**  
9.0m MOUNTING HEIGHT  
BPM HINGED POLE C/W 1.5M OUTREACH

**ASSEMBLY 854-11**  
9.0m MOUNTING HEIGHT  
BPM HINGED POLE FOR MOUNTING ON 1.2M BARRIER C/W 1.5M OUTREACH

**ASSEMBLY 854-20**  
10.5m MOUNTING HEIGHT  
BPM HINGED POLE C/W 1.5M OUTREACH

**ASSEMBLY 854-21**  
10.5m MOUNTING HEIGHT  
BPM HINGED POLE FOR MOUNTING ON 1.2M BARRIER C/W 1.5M OUTREACH

---

Mid hinged pole  
10.0m - 16889 / NIL  
13.0m - 16890 / NIL
NOTES:
1. Use nearest oversize auger.
2. Orientate hold down bolts in footing with the 2 bolts nearest road, parallel to road.
3. Assy 855-2 for use with 5.5m pole & 2m double outreach (Total 7.5m hgt).
4. Holes to be filled within 48 hours of excavation.
5. Suitable for most soils other than:
   (i) Loose sand (commonly occurring in sand dunes)
   (ii) Swampy silt deposits (commonly occurring in swamps, coastal salt pans & mud flats)
   (iii) Loose, uncompacted fill material
   (iv) Clays with shear strength less than 50kPa
Seek structural engineers advice on foundation design for unsuitable soils.
6. Locate conduit on side of foundation to suit direction of incoming conduit

ASSEMBLY 855-1 MINOR ROAD FOUNDATION PRECAST CONCRETE DEPTH 1.2m

ASSEMBLY 855-2 MINOR ROAD FOUNDATION PRECAST CONCRETE DEPTH 1.5m
WIRING DIAGRAM

From U/G supply

From traffic light controller supply

Traffic light controller terminal block

N/E link

Earth 6.0mm² 1C PVC gr/yel to traffic light control terminal block earth

Terminal panel

Refer AS 3000 Clause 2.23.4.5

ASSEMBLY 856-1 JOINT USE STREETLIGHT SUPPLY BOX

S/S bandit strap 19mm

02476 / 0406297
S/S buckle
02483 / 0406311

Supply Box 16432 / 2433795

MATERIAL

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<tr>
<td>02483</td>
<td>1/1</td>
<td>0406311</td>
</tr>
</tbody>
</table>
NOTES:

1. To provide a permanent earth attachment to pole assemble lug, 1 flat washer, 1 spring washer, 1 nut and 1 flat washer under terminal panel.
2. Provide approximately 100mm of excess service cable. Loop in pole.
3. Terminal blocks provided as part of terminal panel suitable for max. 6mm² cable.

MATERIAL

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ASSEMBLY 857-1 MINOR ROAD RCBO TERMINAL PANEL & CABLE TO NOSTALGIA TYPES 1 & 2

ASSEMBLY 857-2 MINOR ROAD RCBO TERMINAL PANEL & CABLE TO SINGLE OUTREACH ARM

ASSEMBLY 857-3 MINOR ROAD RCBO TERMINAL PANEL & CABLE TO DOUBLE OUTREACH ARM

Additional cable for double outreach arm.

Cable, 2.5mm² Cu. 2 core PVC 07112 / 2403244

Drip loop

Neutral / Earth Link

Heatshrink tubing NIL / 0184880

Termination 16mm² & 4mm² N/S cable NIL / 2427359
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<th>ASSEMBLY</th>
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<tbody>
<tr>
<td>858-1</td>
<td>MINOR ROAD MID HINGED RH GALV POLE</td>
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<tr>
<td>858-2</td>
<td>MINOR ROAD MID HINGED RH GREEN POLE</td>
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<td>858-3</td>
<td>MINOR ROAD MID HINGED RH BLACK POLE</td>
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<td>858-4</td>
<td>MINOR ROAD MID HINGED RH BLUE GREY POLE</td>
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**MATERIAL**

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<tr>
<td>22396</td>
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**ASSEMBLY 859-1**

**MINOR ROAD BRACKET MI1 & CABLE MOUNTING TO CONCRETE POLE**

- **MATERIAL**
  - **ENERGEX ERGON**
  - **SC**
  - **859-1**
  - **QTY**
  - energex: 22405 / 17119 / 02476 / 02483
  - ergon: 1140638 / 1420068 / 0406297 / 0406311

- **NOTE:**
  - All bands to be double wrapped

- **Bracket, 1.2m Outreach**, Minor Road bracket 22405 / 1140638
- **S/S bandit strap 19mm** 02476 / 0406297
- **S/S buckle** 02483 / 0406311
- **Active Core to Fuse Holder**
- **Cable 2 core** 6mm² Cu XLPE 17119 / 1420068

- **ASSEMBLY 859-2**

- **MINOR ROAD BRACKET MI2 & CABLE MOUNTING TO CONCRETE POLE**

- **MATERIAL**
  - **ENERGEX ERGON**
  - **SC**
  - **859-2**
  - **QTY**
  - energex: 22406 / 17119 / 02476 / 02483
  - ergon: 0104692 / 1420068 / 0406297 / 0406311

- **NOTE:**
  - All bands to be double wrapped

- **Bracket, 3.0m Outreach**, 1.0m Uplift - Minor Road Bracket, 22406 / 0104692
- **S/S buckle** 02483 / 0406311
- **S/S bandit strap 19mm** 02476 / 0406297
- **Active Core to Fuse Holder**
- **Cable 2 core** 6mm² Cu XLPE 17119 / 1420068

**LIGHTING ASSEMBLIES**

**MINOR ROAD STREETLIGHT BRACKETS MI1 & MI2 MOUNTING TO CONCRETE POLE**

**EE DRWG NO:** 1-2-859

**EGX DRWG NO:** 10500-A4-1-2-859
### ASSEMBLY 860-1:
**MAJOR ROAD BRACKET MA1 & CABLE MOUNTING TO CONCRETE POLE**

**MATERIAL**

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<th>ENERGEX SC</th>
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<tr>
<td>02476</td>
<td>5m</td>
<td>0406297</td>
</tr>
<tr>
<td>02483</td>
<td>2 / 2</td>
<td>0406311</td>
</tr>
</tbody>
</table>

**NOTE:**
- All bands to be double wrapped
- To O/H mains or service
- Bracket, 1.5m Outreach, Major Road 22390 / 0104186

**Cable 2 core**
- 6mm² Cu XLPE
- 02476 / 0406297

**S/S bandit strap 19mm**
- 02483 / 0406311

**S/S buckle**
- 02483 / 0406311

\[ egin{align*}
\text{To Luminaire} \\
\text{Active Core to Fuse Holder} \\
\text{Bracket, 1.5m Outreach, Major Road 22390 / 0104186} \\
\text{Cable 2 core 6mm² Cu XLPE 17119 / 1420068} \\
\text{S/S bandit strap 19mm 02476 / 0406297} \\
\text{S/S buckle 02483 / 0406311} \\
\end{align*} \]

### ASSEMBLY 860-2:
**MAJOR ROAD BRACKET MA2 & CABLE MOUNTING TO CONCRETE POLE**

**MATERIAL**

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<th>ENERGEX SC</th>
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</tr>
<tr>
<td>02483</td>
<td>2 / 2</td>
<td>0406311</td>
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</table>

**NOTE:**
- All bands to be double wrapped
- To O/H mains or service
- Bracket, 3.0m Outreach, 1.0m Uplift - Major Road 22402 / 0104187

**Cable 2 core**
- 6mm² Cu XLPE
- 02476 / 0406297

**S/S bandit strap 19mm**
- 02483 / 0406311

**S/S buckle**
- 02483 / 0406311

\[ egin{align*}
\text{To Luminaire} \\
\text{Active Core to Fuse Holder} \\
\text{Bracket, 3.0m Outreach, 1.0m Uplift - Major Road 22402 / 0104187} \\
\text{Cable 2 core 6mm² Cu XLPE 17119 / 1420068} \\
\text{S/S bandit strap 19mm 02476 / 0406297} \\
\text{S/S buckle 02483 / 0406311} \\
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# Lighting Assemblies

**Assembly 862-1**

**Major Road Bracket MA3 & Cable, Mounting to Concrete Pole**

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<td>15m</td>
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<td>02476</td>
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<tr>
<td>01069 2 / 2</td>
<td>02476</td>
<td>01069</td>
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</table>

**Connector** - Do not strip

**Holder Insulation Piercing Active Core to Fuse**

**Cable, 2 core 6mm² Cu XLPE**

17119 / 1420068

**Bracket, MA3**

4.5m Outreach, 2.5m Uplift

22403 / 0104190

**Bracket, MA4**

3.0m Outreach, 4.0m Uplift

22404 / 0104190

**Washer, Rd. M12**

01069 / 1779542

**S/S buckle**

02483 / 0406311

**S/S bandit strap 19mm**

02476 / 0406297

**Adaptor Plate**

12917 / 12917

**Washer, Sp. M12**

01069 / 1779516

**Bolt & Nut**

Galv M12 x 50

00186 / 1703263

**Bracket, MA4**

3.0m Outreach, 4.0m Uplift

22404 / 0104190

**Non-Cyclonic Areas**

**Only to be used in**

**Volume Folder Issue Page**

**Lighting Assemblies**

**Major Road Streetlight Brackets**

**MA3 & MA4 Mounting to Concrete Pole**

---

**NOTE:**

All bands to be double wrapped.
Watchman floodlight anti-vandal guard
16276 / 2433316
**ASSEMBLY 866-1**

**FUSEHOLDER TO STEEL / CONCRETE POLE**

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<td>0406311</td>
</tr>
<tr>
<td>NIL</td>
<td>- / 3m</td>
<td>0406297</td>
</tr>
</tbody>
</table>

**NOTE:**
All bands to be double wrapped

- **Fuseholder 0104728**
- **S/S buckle 0406311**
- **S/S bandit strap 19mm 0406297**
- **Fuse 10A HRC type 10G 1011106**
- **Heatshrink 9.5/4.8 0184880**
- **Neutral wires to be connected using 2 screw BP connector (Clipsal 563/2) 1015016**
- **2 screw BP connector (Clipsal 563/2)**
- **9.5/4.8 Heatshrink 0184880**
- **19mm S/S bandit strap 0406297**
- **S/S buckle 0406311**
- **S/S bandit strap 19mm 0406297**
- **Fuse 10A HRC type 10G 1011106**
- **Neutral wires to be connected using 2 screw BP connector (Clipsal 563/2) 1015016**
- **Heatshrink 9.5/4.8 0184880**

**LIGHTING ASSEMBLIES - ERGON ENERGY ONLY**

**FUSEHOLDER TO STEEL / CONCRETE POLE**
### ASSEMBLY 867-1
CONNECTION SBM POLE TO PIT THREE PHASE - CONTAINS PIT, LID & JUNCTION BOX KIT

### ASSEMBLY 867-2
CONNECTION SBM POLE TO PIT THREE PHASE - CONTAINS JUNCTION BOX KIT ONLY

---

**Material**

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<td>Terminal Block 4 tunnel 25mm² red 17021 / Nil</td>
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<td>and Heat shrink glove Nil / 2400915</td>
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**Note:**
Position connector components with larger outside diameter above connector components with smaller outside diameter.
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ASSEMBLY 868-1 PEDESTRIAN FLOODLIGHT L100
ASSEMBLY 868-2 PEDESTRIAN FLOODLIGHT L300
ASSEMBLY 868-3 PEDESTRIAN FLOODLIGHT S250
ASSEMBLY 868-4 PEDESTRIAN FLOODLIGHT S400
ASSEMBLY 868-5 PEDESTRIAN FLOODLIGHT H250
ASSEMBLY 868-6 PEDESTRIAN FLOODLIGHT H400
ASSEMBLY 868-7 PEDESTRIAN FLOODLIGHT L200

Nema PE Cell
05502 / 1184026

Gerard Syflood Asymmetrical
2461366 (S250)
2461358 (S400)
2461374 (H250)
2461382 (H400)

Philips Tango G3 Small / Medium Asymmetrical Medium Beam
2467330 (L100)
2467348 (L200)

Gerard Pierlite Quantum LED Asymmetrical 320W
2467355 (L300)
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**ASSEMBLY 869-1**
MAJOR ROAD FLOODLIGHT ADAPTOR - HID FLOODLIGHT

**ASSEMBLY 869-2**
MAJOR ROAD FLOODLIGHT ADAPTOR - PIERLITE LED FLOODLIGHT

**ASSEMBLY 869-3**
MAJOR ROAD FLOODLIGHT ADAPTOR - PHILIPS TANGO FLOODLIGHT (SMALL)

**ASSEMBLY 869-4**
MAJOR ROAD FLOODLIGHT ADAPTOR - PHILIPS TANGO FLOODLIGHT (MEDIUM)

Bolt, galv, M10 x 25mm
Supplied with adaptor

Bolt, galv, M10 x 25mm
Floodlight to outreach extension adaptor
11610 / 1104741
2469179 / 2469179
2469187 / 2469187
2471654 / 2471654

Washer, Sp M10
01072 / 1779154
Washer, Rd M16
01074 / 1779158

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**ASSEMBLY 870-1**

SPECIAL BULKHEAD LUMINAIRE S70

**ASSEMBLY 870-2**

SPECIAL BULKHEAD LUMINAIRE CF32

---

**LIGHTING**

ASSEMBLIES - ENERGEX ONLY
BULKHEAD LUMINAIRES
70W HPS & 32W CFL

**ASSEMBLY 870-1**

SPECIAL BULKHEAD LUMINAIRE S70

- 21595 / NIL
- Bulkhead Luminaire CF32
- 23363 / NIL

**ASSEMBLY 870-2**

SPECIAL BULKHEAD LUMINAIRE CF32

- 1-2-870
- 15.01.13
- ASSEMBLY

**REFERENCE DRAWING ENERGEX**

10500-A4-1-2-870

**REFERENCE DRAWING ERGON**

4927-A4-2.45

---

**Drawn**
L. Burton / T. Borg 01/10/10

**Reviewed by**
C. Noel 21/03/14
P. Relf / A. Bletchly 21/03/14

---

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ASSEMBLY 872-4 MINOR ROAD POLE 6.5m BASE PLATE MOUNTED STEEL

Pole Height 5.5m

ASSEMBLY 872-9 MINOR ROAD POLE 6.5m BASE PLATE MOUNTED SINGLE PIECE

Pole Height 6.5m

LIGHTING ASSEMBLIES
MINOR ROAD
BASE PLATE MOUNTED STEEL & SINGLE PIECE POLE

1-2-872

EE DRWG NO: 1-2-872
EGX DRWG NO: 10500-A4-1-2-872

VOLUME FOLDER PAGE ISSUE
1 2 872 0A
### MATERIAL

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Refer Assy 874 for Asset Identification Label Tray
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Refer Assy 873 for Asset Identification numbers and letters.

### ASSEMBLY 874-2 ASSET IDENTIFICATION BACKING PLATE TO WOOD POLE

- Asset I.D. plate NIL / 2432235
- Screw, hex hd. 50mm long, NIL / 0104435

### ASSEMBLY 874-4 ASSET IDENTIFICATION BACKING PLATE TO POWDER COATED POLE

- Asset I.D. tray NIL / 2432235
- Adhesive: Loctite 454 (Powder coated steel poles)
- NIL / Purchase as req’d or Sikaflex 11FC (Conc & Uncoated steel poles)
- NIL / 2406020

### ASSEMBLY 874-6 ASSET IDENTIFICATION BACKING PLATE TO CONCRETE / STEEL POLE

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SL 32A label pair
14185 / 2433803

SL 32A

SL 32A

ASSEMBLY 875-1  SL32A LABEL FOR SERVICE FUSE
Unmetered supply connected to new upgrade kit
Circuit Breaker
15885 / 2402333

Label 'Unmetered supply'

From U/G supply
To unmetered supply to non-standard luminaire

ASSEMBLY 876-1  UNMETERED SUPPLY FROM PUBLIC LIGHT POLE

LIGHTING ASSEMBLIES
ALTERNATE UNMETERED SUPPLY
FROM PUBLIC LIGHT POLE - TERMINAL PANEL
**ASSEMBLY 880-1 WOOD POLE NUMBERING**

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<tr>
<td>03910</td>
<td>AR / -</td>
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- **Black Paint 03910 / NIL**
- **Nails 11430 / NIL**

**ASSEMBLY 880-2 CONCRETE POLE NUMBERING**

- **Number 1**: 15820 / NIL
- **Number 2**: 15821 / NIL
- **Number 3**: 15822 / NIL
- **Number 4**: 15823 / NIL
- **Number 5**: 15824 / NIL
- **Number 6**: 02477 / 2 / -
- **Number 7**: 11685 / 1 / -
- **Number 8**: 02481 / 2 / -

**ASSEMBLY 880-3 STEEL POLE NUMBERING**

- **Number 1**: 15820 / NIL
- **Number 2**: 15821 / NIL
- **Number 3**: 15822 / NIL
- **Number 4**: 15823 / NIL
- **Number 5**: 15824 / NIL
- **Number 6**: 15825 / NIL
- **Number 7**: 15826 / NIL
- **Number 8**: 15827 / NIL
- **Number 9**: 15819 / NIL

**LIGHTING ASSEMBLIES - ENERGEX ONLY**

- **EGX POLE ID NUMBERS**
- **WOOD CONCRETE AND STEEL**

---

**Drawing Information**

- Approved Ergon: C. Noel 21/03/14
- Approved Energex: F. Zaini 21/03/14
- Checked: P. Relf / A. Bletchly 21/03/14
- Drawn: L. Burton / T. Borg 01/10/10

**HARD COPY UNCONTROLLED**

**REFERENCE DRAWING ENERGEX: 4927-A4-6.9**

---

**REFERENCE DRAWING ERGON: 10500-A4-1-2-880**
### Assembly 883-1 Watchman Floodlight Circuit Breaker

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<td>Flat PVC/PVC 2.5mm² 2C</td>
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- To luminaire
- To watchman control box

---

**Lighting Assemblies**

Reference: 4927-A4-15.3

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---

**Date:** 14/10/10

**Approved by:** J. Brooks, R. English

**Checked by:** D. Taylor / B. Oyegoke

**Issued by:** L. Burton / T. Borg
**MATERIAL**

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Consumer's Property Pole Label
17131 / NIL

---

**CONSUMER'S PROPERTY POLE**

---

**CONSUMER'S PROPERTY POLE LABEL**

---

**LIGHTING ASSEMBLIES**

---

**EE DRWG NO:** 1-2-884

---

**EE DRWG NO:** 10500-A4-1-2-884

---

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**Notes**

1. Luminaires are supplied complete with lamp and PE cell fitted.
2. PE Cell assembly 901-1 and lamp assembly 902-1 are provided for maintenance spares.
ASSEMBITY 891-1

MAJOR ROAD PEDESTRIAN OUTREACH ARM PF1

NOTES:
1. Each outreach will be required to support a luminaire of up to 20kg mass with a projected area in the vertical plane of up to 0.27m²
2. Outreaches manufactured generally in accordance with Drawing No 8152A1
3. All dimensions are in millimetres
4. Following assignment of the displacement angle Z (leading or lagging), the maximum vector sum of both outreaches (X+W) must not exceed 5000mm
5. Dimensions W, X & Y should be taken from, and in increments of 500mm

10500-A4-1-2-891

LIGHTING ASSEMBLIES - ENERGEX ONLY
COMBINED OUTREACH PF1 FOR PEDESTRIAN CROSSING & STREET LIGHT COMBINATIONS
NOTES:

1. Each outreach will be required to support a luminaire of up to 20kg mass with a projected area in the vertical plane of up to 0.27m².

2. Outreach manufactured generally in accordance with Drawing No. 8152A1.

3. All dimensions are in millimetres.

4. Following assignment of the displacement angle Z (leading or lagging), the maximum vector sum of both outreaches (X+W) must not exceed 5000mm.

5. Dimensions W, X & Y should be taken from, and in increments of 500mm.

STREET LIGHT OUTREACH

PED. XING F/L OUTREACH

PED. XING F/L O/R UPLIFT

DISPLACEMENT ANGLE Z°

ASSEMBLY 892-1 MAJOR ROAD PEDESTRIAN OUTREACH ARM PF2
NOTES:

1. Each outreach will be required to support a luminaire of up to 20kg mass with a projected area in the vertical plane of up to 0.27m².
2. All dimensions are in millimetres.
3. Following assignment of the displacement angle Z (leading or lagging), the maximum vector sum of both outreaches (X+W) must not exceed 5000mm.
4. Dimensions W, X, and Y should be taken from, and in increments of 500mm.

Tube section sizes to be determined by manufacturer with reference to QESI specification - TS 05-01-01.
NOTES:
1. All dimensions are in millimetres
2. Minor luminaire spigot = Ø34 x 100 long
   Major luminaire spigot = Ø42 x 130 long
3. Maximum allowable outreach "X" is 5000mm
   Maximum allowable uplift "Y" is 2000mm
4. Spigot upcast $\alpha = 0^\circ$ (typical) for PX floodlight
   and 5$^\circ$ (typical) for streetlight

SIDE ELEVATION

To suit column spigot Ø76 x 300

Spigot Ø34 x 100 or Ø42 x 130
As required (see note 3)

Weather Cap

$\alpha$

OUTREACH $X$ mm

UPLIFT $Y$ mm

SPIGOT UPCAST $\alpha^\circ$

STREET NAME:

LOCATION:

PROJECT No. & DRAWING No: STATION No:

ASSEMBLY 894-1 MAJOR ROAD OUTREACH SPECIAL SINGLE
1. Each outreach will be required to support a luminaire of up to 20kg mass with a projected area in the vertical plane of up to 0.27m².

2. Outreaches manufactured generally in accordance with Drawing No. 8152A1.

3. All dimensions are in millimetres.

4. Maximum allowable outreach "X" is 5000mm

5. Following assignment of the displacement angle Z (leading or lagging), the maximum vector sum of both outreaches (Y1+Y2) must not exceed 5000mm.

6. Dimensions Y1, X1 & X2, Y2 should be taken from, and in increments of 500mm.

See Note 4

UPLIFT

X1

X2

OUTREACH

Y1

Y2

DISPLACEMENT ANGLE

Z°

Streetlight Outreach

Weather Cap

Spigot Ø42 x 130 (typical)

To suit column spigot Ø76 x 300

Y1

Y2

SIDE ELEVATION

LOCATION:

REFERENCE No:

STATION Nos:

DRAWING No:

STREET NAME:

5° Upcast

340 Min

5° Upcast

Streetlight Outreach

Major Road Outreach

Special Dual

15673 / NIL

Tube section sizes to be determined by manufacturer with reference to QESi specification - TS 05-01-01

Lighting Assemblies - Energex Only

Major Road Outreach Arms

Special Dual

ASSEMBLY 895-1

MAJOR ROAD OUTREACH SPECIAL DUAL
NOTES:

1. Outreaches manufactured generally in accordance with Drawing No 4861A2.
2. All dimensions are in millimetres

OUTREACH X

STREET NAME:

LOCATION:

REFERENCE No:

STATION No:

DRAWING No:

SIDE ELEVATION

ASSEMBLY 896-1 MINOR ROAD OUTREACH SPECIAL SINGLE

LIGHTING

ASSEMBLIES - ENERGEX ONLY

MINOR ROAD OUTREACH ARMS

SPECIAL SINGLE

1. Outreaches manufactured generally in accordance with Drawing No 4861A2.
2. All dimensions are in millimetres

Minor Road Outreach Special Single
16283 / NIL

Weather Cap

Outreach Ø34

To suit column spigot Ø50 x 300

Tube section sizes to be determined by manufacturer with reference to QESI specification - TS 05-01-01.

1. Outreaches manufactured generally in accordance with Drawing No 4861A2.
2. All dimensions are in millimetres

OUTREACH X

STREET NAME:

LOCATION:

REFERENCE No:

STATION No:

DRAWING No:

SIDE ELEVATION

ASSEMBLY 896-1 MINOR ROAD OUTREACH SPECIAL SINGLE

LIGHTING

ASSEMBLIES - ENERGEX ONLY

MINOR ROAD OUTREACH ARMS

SPECIAL SINGLE

1. Outreaches manufactured generally in accordance with Drawing No 4861A2.
2. All dimensions are in millimetres

Minor Road Outreach Special Single
16283 / NIL

Weather Cap

Outreach Ø34

To suit column spigot Ø50 x 300

Tube section sizes to be determined by manufacturer with reference to QESI specification - TS 05-01-01.
"L" brackets (12466) may be used as an alternative arrangement on timber x-arms only.

Composite or Timber X-Arm

Nylon UV Stabilised strap 06909 / NIL

Fit cable to sides or beneath x-arm as req'd
Cut off excess strap

ASSEMBLY 897-1 CABLE TO CROSSARM

LIGHTING
ASSEMBLIES - ENERGEX ONLY
CABLE TO CROSSARM
**ASSEMBLY 898-1** MINOR ROAD UNDERBRIDGE BRACKET

**ASSEMBLY 898-2** MAJOR ROAD UNDERBRIDGE BRACKET

**LIGHTING**

ASSEMBLIES - ENERGEX ONLY

MINOR / MAJOR ROAD

UNDERBRIDGE BRACKET

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**Underbridge bracket**

17638 / NIL

**Major road luminaire adaptor**

13166 / NIL

**Ø12 masonry anchors supplied with bracket**

---

**ASSEMBLY 898-1** MINOR ROAD UNDERBRIDGE BRACKET

**ASSEMBLY 898-2** MAJOR ROAD UNDERBRIDGE BRACKET
ASSEMBLY 899-1  SPECIAL BULKHEAD S150

LIGHTING
ASSEMBLIES - ENERGEX ONLY
SPECIAL BULKHEAD LUMINAIRE S150

MATERIAL

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Special Bulkhead Luminaire S150
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Notes

1. Luminaires are supplied complete with lamp and PE cell fitted.
2. PE Cell assembly 901 and lamp assembly 902 are provided for maintenance spares.
Notes
1. Luminaires are supplied complete with lamp and PE cell fitted.
2. These assemblies are provided for maintenance spares.

ASSEMBLY 901-1  PE CELL - D-2, LOW RATING
ASSEMBLY 901-2  PE CELL - NEMA, HIGH RATING
## LIGHTING ASSEMBLIES

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### Notes

1. Luminaires are supplied complete with lamp and PE cell fitted.
2. These assemblies are provided for maintenance spares.

### Lamp, High Density Discharge

- **High Pressure Sodium**
  - S70 13469 / 2405832 (Diffuse Bulb)
  - S100 13471 / 2403341
  - S150 05268 / 1141598 (Clear Tube)
  - S250 05270 / 1141599 (Clear Tube)
  - S400 05273 / 1141639 (Clear Tube)

- **Mercury Vapour**
  - M50 05239 / 1140819 (Diffuse Bulb)
  - M80 05241 / 1140823 (Diffuse Bulb)
  - M125 05243 / 1140827 (Diffuse Bulb)
  - M250 05244 / 1140843 (Diffuse Bulb)
  - M400 05247 / 1140851 (Diffuse Bulb)

- **Metal Halide**
  - H35 22798 / 2438109 (Clear Tube)
  - H70 22677 / 2438117 (Clear Tube)
  - H100 22676 / 2438125 (Clear Tube)
  - H150 22676 / 2433357 (Clear Tube)
  - H250 22434 / 2433365 (Clear Tube)
  - H400 22435 / 2405798 (Clear Tube)

- **Lamp, Linear Fluorescent**
  - LF214 20843 / -
  - LF224 21228 / 2438133
  - LF236 05234 / 1140339

- **Lamp, Compact Fluorescent**
  - CF32 21223 / 2438141
**ASSEMBLY 903-1**  
**CUTTING COMPOUND FOR STEEL POLE**

**Cutting compound**  
Nil / 2422996

**ASSEMBLY 903-10**  
**STEP DRILL 5 - 35mm**

**Step Drill**  
5 - 35mm  
Nil / 2444347

**ASSEMBLY 903-5**  
**COLD GALVANISING PAINT**

**Cold galvanising paint**  
16431 / 2404375

---

**LIGHTING ASSEMBLIES**

**CUTTING COMPOUND / COLD GALVANISING / STEP DRILL & PLASTIC PLUGS FOR STEEL POLE**

**VOLUME**: 1  
**FOLDER**: 2  
**PAGE**: 903  
**ISSUE**: 0B
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Fuse 10A HRC type 10G
1011106

Screw, Hex. Type 17, 12gx50
0104435

Heatshrink
9.5/4.8
0184880

Neutral wires to be connected using 2 screw BP connector (Clipsal 563/2)

ASSEMBLY 904-1
FUSEHOLDER TO WOOD POLE

ASSEMBLY 904-5
BRACKET, HOLDER FOR PE CELL

LIGHTING
ASSEMBLIES - ERGON ENERGY ONLY
FUSEHOLDER & PE CELL HOLDER BRACKET TO POLE

Approved Enrgex
C. Noel
01/05/18

Approved Enrgex
F. Zaini
01/05/18

Checked
P. Reil / A. Bletchly
01/05/18

Drawn
L. Burton / T. Borg
14/11/14
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<td>LORA control box</td>
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<tr>
<td>Mounting bracket for LORA</td>
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**DIRECT PURCHASE**

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<td>Antenna mounting bracket</td>
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**ASSEMBLY 905-2 LORA CONTROL BOX TO STEEL POLE**

- Bandit strap 0406297
- Washer Sp, M8 S/S 0104406
- Washer Rd, M8 S/S 1779110
- Setscrew M8 x 20 S/S
- Buckle 0406311
- Mounting bracket
- LORA Control Box

**ASSEMBLY 905-5 ANTENNA TO STEEL POLE**

- All bolts, nuts & washers supplied with antenna bracket
- SMD8-90 Antenna bracket
- Antenna mounting bracket

**LIGHTING ASSEMBLIES - ERGON ENERGY ONLY**

**LORA CONTROL BOX TO STEEL POLE**

- Antenna to steel pole

**ANTENNA TO STEEL POLE**

- All bolts, nuts & washers supplied with antenna bracket
**ASSEMBLY 906-2**

**BANDIT STRAP (19mm) TO POLE**

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<td>ENERGEX SC</td>
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**S/S Bandit strap**
19mm
02476 / 0406297

**S/S Buckle**
02483 / 0406311

---

**ASSEMBLY 906-5**

**CABLE GUARD TO STEEL POLE**

**DIRECT PURCHASE**

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**Metal Cable Guard**
2400 long
40 x 40 x 3.0 SHS

---

**LIGHTING ASSEMBLIES**

**BANDIT STRAP TO POLE**
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Note:
Position connector components with larger outside diameter above connector components with smaller outside diameter.

---

### ASSEMBLY 907-1

**CONNECTION SBM POLE TO PIT SINGLE PHASE - CONTAINS PIT TYPE B, LID & JUNCTION BOX KIT**

- **Junction Box Kit**: Nil / 1010901
- **Heat shrink tubing**: Nil / 0184880
- **Pit, type B**: Nil / Direct Purchase
- **Lid, type B**: Nil / Direct Purchase
- **Supporting Strap**: Nil / Direct Purchase
- **LUG Cu 6mm²/M8**: Refer note
- **Earth wire Connected To FMS**: Refer note
- **Termination**: NIL / 2427359
- **Earth Cable**: Nil / 1542919
- **Cable clamp**
- **Connector set electrical**
- **Heat shrink sleeve**
- **Heat shrink tubing**
- **Shear washer**
- **SBM Adaptor**
- **SBM pole**
- **Lid, type B**
- **Supporting Strap**

**LIGHTING ASSEMBLIES - ERGON ENERGY ONLY**

- **MAJOR ROAD - TYPE B PIT CONNECTION SBM POLE TO PIT SINGLE PHASE**

**EE DRWG NO**: 1-2-907
**EGX DRWG NO**: 10500-A4-1-2-907

**Volume**: 1  **Folder**: 2  **Page**: 907  **Issue**: 0A
**ASSEMBLY 908-1  CONNECTION SBM POLE TO PIT THREE PHASE - CONTAINS PIT TYPE B, LID & JUNCTION BOX KIT**

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**Note:**
Position connector components with larger outside diameter above connector components with smaller outside diameter.

Unused phases are to be connected back to back. All exposed live parts are to have heat shrink (0121008) applied.

**DETAIL 'A'**

- Bolt, M8 x 25
- Washer, Rd. M8
- Washer, Sp. M8
- Nut, M8

**Lighting**

**ASSEMBLIES - ERGON ENERGY ONLY**

**MAJOR ROAD - TYPE B PIT**

**CONNECTION SBM POLE TO PIT THREE PHASE**

**REFERENCE DRAWING ENERGEX**

EE DRWG NO: 1-2-908

**REFERENCE DRAWING ERGON**

EGX DRWG NO: 10500-A4-1-2-908
**ASSEMBLY 909-1** GUARD POLYMERIC (SMALL) TO WOOD POLE

**ASSEMBLY 909-7** GUARD METAL (100) TO WOOD POLE

---

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Guard, Polymeric Small
suit up to 40mm dia. cable
NIL / 2422657

Guard, Galv Steel
100mm wide
NIL / 2406985

Screw, Hex. Hd
50mm long
NIL / 0104435

Coachscrew, M10x50
NIL / 1757622

---

LIGHTING
ASSEMBLIES - ERGON ENERGY ONLY
CABLE GUARD TO POLE

---

HARD COPY UNCONTROLLED
**ASSEMBLY 910-1 TERMINATION 16mm² N/S CABLE**

- **Connector** - Do not strip
- **Holder Insulation Piercing**
- **Active Core to Fuse**
- **Notes:**
  1. Mark active over heatshrink with red electrical tape.
  2. A/F = Across flat dimension of hexagonal crimping dies.
  3. Crimping tool requirement:
     - Utilux - 22 tonne minimum
     - Cabac - 23 tonne minimum

**ASSEMBLY 910-5 BRIDGING CABLE 25MM² LVABC**

- **Cable, LVABC**
  - 2 x 25mm²

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**Notes:**

1. Mark active over heatshrink with red electrical tape.
2. A/F = Across flat dimension of hexagonal crimping dies.
3. Crimping tool requirement:
   - Utilux - 22 tonne minimum
   - Cabac - 23 tonne minimum

---

**LIGHTING ASSEMBLIES - ERGON ENERGY ONLY**

**TERMINATION 16mm² N/S CABLE TO SERVICE POLE**

**ASSEMBLY 910-1**

**ASSEMBLY 910-5**
### L50 Aeroscreen (LSS)
- 2467041

### VOLUME FOLDER ISSUE PAGE
- 05502 / 1184026

#### MATERIAL

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#### LIGHTING ASSEMBLIES

**MAJOR ROAD LED LUMINAIRE**
- **L50 AEROSCREEN (LSS)**
- **L90 AEROSCREEN (PHILIPS)**
- **L80 AEROSCREEN (PHILIPS)**
- **L90 AEROSCREEN (PHILIPS)**
- **L170 AEROSCREEN (PHILIPS)**
- **L270 AEROSCREEN (PHILIPS)**
- **L240 AEROSCREEN (PHILIPS)**

---

**REFERENCE DRAWING**

**ERGON**

K. Slater 01/03/19

**ENERGEX**

A. Bletchly 01/03/19

**DRAWN**

L. Burton / T. Borg 17/04/18

**APPROVED**

A. Bletchly 01/03/19

---

**HIGH RATING**

PE Cell - Nema

**05502 / 1184026**
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- **ASSEMBLY 914-1**: WATCHMAN FLOODLIGHT L70
- **ASSEMBLY 914-2**: WATCHMAN FLOODLIGHT L100
- **ASSEMBLY 914-3**: WATCHMAN FLOODLIGHT L200
- **ASSEMBLY 914-4**: WATCHMAN FLOODLIGHT S150
- **ASSEMBLY 914-5**: WATCHMAN FLOODLIGHT S250
- **ASSEMBLY 914-6**: WATCHMAN FLOODLIGHT S400
- **ASSEMBLY 914-7**: WATCHMAN FLOODLIGHT H150
- **ASSEMBLY 914-8**: WATCHMAN FLOODLIGHT H250
- **ASSEMBLY 914-9**: WATCHMAN FLOODLIGHT H400

- **GERARD SYLFLOOD SYMMETRIC**
  - 2467447 (L200)
  - 2467454 (S250)
  - 2467462 (S400)
  - 2467470 (H150)
  - 2467488 (H250)
  - 2467496 (H400)

- **NEMA PE CELL**
  - 05502 / 1184026

- **PHILIPS TANGO G3 MEDIUM**
  - 2467439 (L200)

- **PHILIPS TANGO G3 SMALL**
  - 2467413 (L70)
  - 2467421 (L100)
ASSEMBLY 915-1  LED WATCHMAN TO WOOD POLE

- Bolt, M16 x 40mm
  - QTY: 1 / 1
  - SC: 00209 / 1703816
- Washer, Rd M16
  - QTY: 1 / 1
  - SC: 01045 / 1777569
- Washer, Sp M16
  - QTY: 1 / 1
  - SC: 01044 / 1777542
- Coachscrew M12 x 100
  - QTY: 1 / 1
  - SC: 00684 / 1757894
- Support Bracket
  - QTY: 1 / 1
  - SC: 2469252 / 2469252
- Washer, Sp M16
  - QTY: 1 / 1
  - SC: 01074 / 1779158

NOTE: All bands to be double wrapped

ASSEMBLY 915-2  LED WATCHMAN TO STEEL / CONCRETE POLE

- Bolt, M16 x 40mm
  - QTY: 1 / 1
  - SC: 00209 / 1703816
- Washer, Rd M16
  - QTY: 1 / 1
  - SC: 01045 / 1777569
- Washer, Sp M16
  - QTY: 1 / 1
  - SC: 01044 / 1777542
- Coachscrew M12 x 100
  - QTY: 1 / 1
  - SC: 00684 / 1757894
- Support Bracket
  - QTY: 1 / 1
  - SC: 2469252 / 2469252
- Washer, Sp M16
  - QTY: 1 / 1
  - SC: 01074 / 1779158
- S/S buckle
  - QTY: 1 / 1
  - SC: 02483 / 0406311
- S/S bandit strap 19mm
  - QTY: 1 / 1
  - SC: 0406297 / 0406297