LIGHTING CONSTRUCTION MANUAL

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<td>Guard Metal (100) to Wood Pole</td>
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<td>LED Watchman to steel / concrete pole</td>
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ASSEMBLY 800-1  HOOK SERVICE TO WOOD POLE

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Hole 10 dia.

Hook, Service M12
14864 / 2403730

ASSEMBLY 800-6  EYEBOLT AND EYENUT M16x150 TO STREET LIGHT POLE

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Eyenut M16
15257 / 1728507

Bolt, Eye M16x150
08529 / 2400040

ASSEMBLY 800-7  EYEBOLT AND EYENUT M16x200 TO STREET LIGHT POLE

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Bolt, Eye M16x200
Nil / 1712911

ASSEMBLY 800-8  EYEBOLT AND EYENUT M16x250 TO STREET LIGHT POLE

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Bolt, Eye M16x250
Nil / 2400040
Setscrew
Supplied with Fuse holder

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

ASSEMBLY 801-6  FUSE HOLDER 100A (SERVICE) TO BRACKET

ASSEMBLY 801-1  CARTRIDGE FUSE LINK 32A HRC
ASSEMBLY 801-2  CARTRIDGE FUSE LINK 20A HRC
ASSEMBLY 801-5  CARTRIDGE FUSE LINK 80A HRC

MATERIAL

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22.2 dia
57

Lighting assemblies
Low voltage fuse link
Service fuse holder to bracket

Approved Ergon 19/04/17
C. Noel

Approved Ergon 19/04/17
F. Zaini

Checked 01/04/17
P. Reif / A. Bletchly

Drawn L. Burton / T. Borg 30/09/10
ASSEMBLY 802-1  CLAMP STRAIN TO SERVICE HOOK

MATERIAL

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ASSEMBLY 802-6  BRACKET (SERVICE FUSE) TO WOOD POLE

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Clamp, Strain 16566 / 0414082

Service bracket 16576 / 0406226

Washer, Rd M12 00684 / 1757894

Coachscrew M12x100 01044 / 1777542

Hole 10 dia.
MATERIAL

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SADDLE DOUBLE SIDED / SINGLE SIDED 20mm
04928 / 0431542

NAIL, 30mm (3.15mm) / SCREW, HEX. HD.
50mm long
11430 / 0104435

SADDLE, ZINC PLATED 25mm
04928 / 2173024

ASSEMBLY 803-1 SADDLE (20mm) TO WOOD POLE

ASSEMBLY 803-3 SADDLE ZINC PLATED 25mm

MATERIAL

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BRACKET, CABLE SUPPORT
12466 / 0104210

SCREW, HEX. HD.
25mm long
20652 / 2406888

ASSEMBLY 803-6 BRACKET CABLE SUPPORT TO X-ARM

LIGHTING ASSEMBLIES
SADDLE TO POLE
CABLE SUPPORT BRACKET TO CROSSARM
**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.

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

Connector 6-35mm² Al / 4-35mm² Cu

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

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

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

Connector 6-35mm² Al / 4-35mm² Cu
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
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.

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

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

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

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

---

**MATERIAL**

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7.0m BPM pole
05637 / 2401888

8.5m BPM pole
05639 / 2401889

10.0m BPM pole
05641 / 2401890

13.0m BPM pole
05645 / 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
## Material

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<tr>
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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 oversize 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) 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

- **Lighting Assemblies**
  - **MAJOR ROAD BPM STEEL POLE FOUNDATION 350 PCD**

- **Approved Ergon**
  - C. Noel
  - Date: 01/04/16

- **Approved Energex**
  - F. Zaini
  - Date: 01/04/16

- **Checked**
  - P. Reif / A. Bletchly
  - Date: 01/04/16

- **Drawn**
  - L. Burton / T. Borg
  - Date: 30/09/10

- **Refer note 4**

- **40 Nom grout 100±5**
- **Bolt Proj. 100±5**
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

ASSEMBLY 811-2 MAJOR ROAD TERMINAL PANEL AND CABLE TO DOUBLE OUTREACH ARM
ASSEMBLY 812-1 BEND U/G SERVICE CONDUIT 40 DIA. x 90° 300R

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40 Dia 300R PVC 90° bend
06514 / 2406976

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

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40 Dia 600R PVC 90° bend
17030 / Nil

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

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

LITING

ASSEMBLIES

CONDUIT BEND & CONDUIT

MATERIAL

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Conduit flexible 40 Dia.
17121 / Nil

Adaptor 40 Dia. rigid to 40 Dia. Flexible
17122 / Nil

ASSEMBLY 812-15 CONDUIT FLEXIBLE 40 DIA. & ADAPTOR

MATERIAL

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40 Dia 600R PVC 90° bend
17030 / 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

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.

SL92 Fabric
Top & bottom - 1400 x 1400
Sides - 850 x 1400

Conduit projection 75mm above top of footing

SL92

45° Chamfer

350 PCD hold down bolt assembly
14107 / 2406974
500 PCD hold down bolt assembly
NIL / 2406975

100 ± 5 Bolt proj.

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

SL92 Fabric shall be in accordance with AS1304.
Minimum cover to reinforcement, 100mm.

Concrete shall be grade 25MPa.
MATERIAL

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Assemblies

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)
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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, 14 are provided for maintenance spares.
3. LED luminaire, assembly 816-21 - 25, use NEMA, High Rating PE cells (Assy 901-2).
### 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.
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.
ASSEMBLY 821-1 MINOR ROAD BRACKET M1 & CABLE MOUNTING TO WOOD POLE

- To O/H mains or service
- Bracket, 1.2m Outreach Minor Road 22405 / 1140638
- Hole 10 Dia.
- Coachescrew, M12x100 00684 / 1757894
- Cable 2 core 6mm² Cu XLPE
- Active Core to Fuse Holder Insulation Piercing Connector
- Do not strip

ASSEMBLY 821-2 MINOR ROAD BRACKET M12 & CABLE MOUNTING TO WOOD POLE

- To O/H mains or service
- Hole 10 Dia.
- Coachscrew, M12x100 00684 / 1757894
- To Luminaire
- Bracket, 3.0m Outreach, 1.0m Uplift - Minor Road 22406 / 0104692
- Cable 2 core 6mm² Cu XLPE
- Active Core to Fuse Holder Insulation Piercing Connector
- Do not strip
ASSEMBLY 822-1  MAJOR ROAD BRACKET MA1 & CABLE MOUNTING TO WOOD POLE

- Active Core to Fuse Holder Insulation Piercing Connector - Do not strip
- Cable 2 core 6mm² Cu XLPE
  17119 / 1420068
- Hole 10 Dia.
- Bracket, 1.5m Outreach Major Road
  22390 / 0104186
- Coachscrew, M12x90/100
  00684 / 1757894
- To O/H mains or service

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

- Bracket, 3.0m Outreach, 1.0m Uplift - Major Road
  22402 / 0104187
- Coachscrew, M12x90/100
  00684 / 1757894
- Hole 10 Dia.
- To Luminaire
- Active Core to Fuse Holder Insulation Piercing Connector
- Do not strip
- Cable 2 core 6mm² Cu XLPE
  17119 / 1420068
- 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

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

Cable, 2 core 6mm² Cu XLPE 17119 / 1420068

Coachscrew, M12x90/100 00684 / 1757894

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 O/H mains or service

Hole 10 Dia.

To Luminaire

LIGHTING ASSEMBLIES
MAJOR ROAD STREETLIGHT BRACKETS
MA3 & MA4 MOUNTING TO POLE

Approved By: J. Brooks 14/10/10
Approved By: R. English 14/10/10
Checked By: D. Taylor / B. Oyegoke 14/10/10

HARD COPY UNCONTROLLED
## ASSEMBLY 824-1 MAJOR ROAD SPIGOT ADAPTOR BRACKET & CABLE MOUNTING TO WOOD POLE

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### ASSEMBLY

- **To O/H mains or service**
- **Cable 2 core 6mm² Cu XLPE 17119 / 1420068**
- **Washer, Sq. M20 08521 / 1780594**
- **Washer, Rd. M20 01046 / 1777577**
- **Bracket, Spigot Adaptor Major Road 22401 / 2406323**
- **Active Core to Fuse Holder Insulation Piercing Connector - Do not strip**
- **Outreach stop**
- **Bolt and Nut, M20 x As Reqd**

### LIGHTING ASSEMBLIES

- **MAJOR ROAD SPIGOT ADAPTOR BRACKET MOUNTING TO POLE**

---

**Reference:** Energex or Ergon Energy

**Copyright:** 2002 Energex Corporation Limited

**ABN:** 50 087 646 062

---

**Approved Reps:**
- J. Brooks 14/10/10
- R. English 14/10/10

**Checked by:** D. Taylor / B. Oyegoke 14/10/10

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

**EE DRWG NO:** 1-2-824

**EGX DRWG NO:** 10500-A4-1-2-824

**VOLUME:** 1

**FOLDER:** 2

**PAGE:** 824

**ISSUE:** 0A
**ASSEMBLY 825-1** MAJOR ROAD SPIDER 3 WAY HEAD FRAME SUIT 1.5m OUTREACH

**ASSEMBLY 825-2** MAJOR ROAD SPIDER 3 WAY HEAD FRAME SUIT 3.0m OUTREACH

**ASSEMBLY 825-3** MAJOR ROAD SPIDER 4 WAY HEAD FRAME SUIT 1.5m OUTREACH

**ASSEMBLY 825-4** MAJOR ROAD SPIDER 4 WAY HEAD FRAME SUIT 3.0m OUTREACH

---

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

---

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ASSEMBLY 826-1
MAJOR ROAD SPIDER OUTREACH ARM 1.5m

ASSEMBLY 826-2
MAJOR ROAD SPIDER OUTREACH ARM 3.0m

1.5m outreach arm
Nil / 0104877
3.0m outreach arm
Nil / 0104876

Outreach Head Frame

5°

2.0m

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

Cable, 2.5mm² Cu.
2 core PVC 07112 / 2403244
Cable, 4mm² Cu.
single core PVC red 07133 / 1542773
Neutral / Earth link
Termination 10412 / 1103815
Heatshrink tubing Nil / 0184880
Underground supply
Drip loop
Circuit Breaker 15885 / 2402333

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

Cable, 2.5mm² Cu.
2 core PVC 07112 / 2403244
Cable, 4mm² Cu.
single core PVC red 07133 / 1542773
Neutral / Earth link
Termination 10412 / 1103815
Heatshrink tubing Nil / 0184880
Underground supply
Drip loop
Circuit Breaker 15885 / 2402333

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.
### 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 (i.e. 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.

### 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**

---

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 (i.e. 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.
Hold down bolt cage
350 PCD
14108 / 0924066
Use following assy
for 13.0m SBM pole
500 PCD
16822 / 2403768

MAJOR ROAD SBM 350 PCD HOLD DOWN BOLT CAGE

MAJOR ROAD SBM 500 PCD HOLD DOWN BOLT CAGE

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

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

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SIGN, Pole asset identification number
NIL / 2407012
Adhesive
NIL / 2408020

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

VOLUME FOLDER PAGE ISSUE
1 2 830 0A
### 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.

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

---

**Terminal Block**
- 4 tunnel 25mm² black: 15539 / Nil
- 4 tunnel 25mm² red: 17021 / Nil

**Earthwire Connected To FMS**
- LUG Cu 6mm²/M8

**Cable clamp**
- 15638 / 0104198

**Connector set electrical**
- 15637 / 1015092

**Shear washer**
- Nil / 2427359

**SBM Adaptor**
- 08345 / 1542919

**Junction Box Kit**
- 1010901 / 1010901

**Heat shrink tubing**
- Nil / 0184880

**Fuse switch combo 415V 20A**
- 15541 / Nil

**Fuse Link 20A**
- 04429 / Nil

**Lid, type P4**
- 06839 / 0168055

**Pit, type P4**
- 15528 / 0168052

**Heat Cable**
- 08345 / 1542919

---

**Lighting Assemblies**
**Major Road**
**Connection SBM Pole to Pit Single Phase**

**EE DRG NO:** 1-2-831
**EGX DRG NO:** 10500-A4-1-2-831

**Page:** 831 / 0E
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Terminal panel 17258 / 2418861

To luminaire

Additional cables for 2, 3 & 4 outreach arms.

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

Underground service.

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

EE DRWG NO: 1-2-832
EGX DRWG NO: 10500-A4-1-2-832

A. Bletchly
01/03/19

K. Slater
01/03/19

J. Burton / T. Borg
01/10/10

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ENERGEX Corporation Limited
ABN 50 087 646 062

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Ergon Energy Corporation Limited
ABN 40 078 849 055

ABN 50 087 646 062

ABN 40 078 849 055
1. Install in accordance with supplier's installation instructions.
2. Ensure completed junction box is watertight.
3. Support straps included in Energex S.C. 17377

NOTES

1. Install in accordance with supplier's installation instructions.
2. Ensure completed junction box is watertight.
3. Support straps included in Energex S.C. 17377
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- **ENERGEX SC 0453090**
- **ERGON SC 0453084**
- **ERGON SC 0104435**
- **ERGON SC 2406020**

### ASSEMBLY 834-1

**NON-ENERGEX/ERGON "METERED" IDENTIFICATION SIGN SCREWED TO WOOD POLE**

- Screw, Hex. Hd.
- 50mm long
- 11430 / 0104435

- Strap 02477 / NIL

- "Metered" Backing Plate
  - 11685 / 0453090
  - Self Adhesive Label 15978 / 0453084

### ASSEMBLY 834-2

**NON-ENERGEX/ERGON "METERED" IDENTIFICATION SIGN GLUED TO CONCRETE POLE**

- **ERGON SC 0453084**
- **ERGON SC 2406020**

- Adhesive NIL / 2406020

### ASSEMBLY 834-3

**NON-ENERGEX/ERGON "METERED" IDENTIFICATION SIGN SELF ADHESIVED TO METAL POLE**

- **ERGON SC 0453084**

- Self Adhesive Label 15978 / 0453084

### ASSEMBLY 834-4

**NON-ENERGEX/ERGON "METERED" IDENTIFICATION SIGN STRAPPED TO CONCRETE POLE**

- Strap 02477 / NIL

- Screw, Hex. Hd.
- 50mm long
- 11430 / 0104435

### LIGHTING

**ASSEMBLIES**

**METERED IDENTIFICATION SIGN ATTACHMENT TO POLE**

- **ERGON SC 0453084**
- **ERGON SC 2406020**

- Strap 02477 / NIL

- Screw, Hex. Hd.
- 50mm long
- 11430 / 0104435
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**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

**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

Rate "3" Backing Plate
NIL / 0453094
Self Adhesive Label
NIL / 0453078
Screw, Hex. Hd.
50mm long
NIL / 0104435
NOTE:
All bands to be double wrapped

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

S/S bandit strap 19mm
NIL / 0406297

S/S buckle
NIL / 0406311

Wood Insulator
1000 x 150 x 100
NIL / 2400453

Washer, Sq. M16
NIL / 1780588

Hook, Service M12
NIL / 2403730

LIGHTING
ASSEMBLIES - ERGON ENERGY ONLY
BRACKET FOR INSULATING STREET LIGHT MI1, MI2, MA1 & MA2 TO CONCRETE POLE

EE DRWG NO: 1-2-836
EGX DRWG NO: 10500-A4-1-2-836

VOLUME FOLDER PAGE ISSUE
1 2 836 0A
NOTE:
All bands to be double wrapped

ASSEMBLY 837-1  BRACKET FOR INSULATING STREET LIGHT MA3 TO CONCRETE POLE

ASSEMBLY 837-5  BRACKET FOR INSULATING STREET LIGHT MA4 TO CONCRETE POLE
ASSEMBLY 838-1
TERMINATION 16mm² & 4mm² N/S CABLE

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

Heatshrink tubing
NIL / 0184880

Length as required

ASSEMBLY 838-5
WATER BLOCK CONNECTOR 1.5 - 25mm²

Water block connector
1.5mm² - 25mm²
NIL / 2430379

MATERIAL
ENERGEX QTY ERGON SC
NIL AR 0184880
NIL 2427359

MATERIAL
ENERGEX QTY ERGON SC
NIL - / 1 2430379

Ergon Energy Corporation Limited
ABN 50 087 646 062

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LIGHTING
ASSEMBLIES - ERGON ENERGY ONLY
TERMINATION 16mm² & 4mm² N/S CABLE
WATER BLOCK CONNECTOR 1.5mm² - 25mm²
EE DRWG NO: 1-2-838
EGX DRWG NO: 10600-A4-1-2-838

VOLUME FOLDER PAGE ISSUE
1 2 838 0A
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
3. Prepare and place concrete in accordance
   with Section 17 of AS3600:2009.
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 unsuitbale 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

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

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

Min. concrete volume:
750 dia foundation = 1.02m³

LIGHTING
ASSEMBLIES
MAJOR ROAD
BPM STEEL POLE FOUNDATION 500 PCD

Approved Energex
C. Noel 01/04/16
F. Zaini 01/04/16
P. Relf / A. Bletchly 01/10/10

Approved Ergon
C. Noel 01/04/16
F. Zaini 01/04/16
P. Relf / A. Bletchly 01/10/10
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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 ☺ 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

**DIMENSIONS**

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

**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 ☺ and exit side of footing to suit direction of incoming conduit.
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<td>841-8</td>
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<td>1 / 1</td>
<td>21589</td>
<td>2433449</td>
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</tbody>
</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

ASSEMBLY 842-2 PRECAST FOUNDATION 350 PCD BPM STEEL POLE
## MATERIAL

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<th>Assy</th>
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<th>QTY</th>
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<th>ERGON SC</th>
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### Notes

1. Luminaires are supplied complete with lamp and PE cell fitted.
2. PE Cell assembly 901 and lamp assembly 902-1 & 902-14 are provided for maintenance spares.
3. LED luminaires, assembly 843-18 - 20, use NEMA, High Rating PE cell (Assy 901-2).
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<td>MINOR ROAD BRACKET DOUBLE ARM OUTREACH GREEN</td>
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<tr>
<td>17870</td>
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<td>17871</td>
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<td>MINOR ROAD BRACKET DOUBLE ARM OUTREACH BLUE/GREY</td>
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Bracket, double outreach arm
Green - 17231 / NIL
Black - 17870 / NIL
Blue/Grey - 17871 / NIL

ASSEMBLY 844-2  MINOR ROAD BRACKET DOUBLE ARM OUTREACH GREEN
ASSEMBLY 844-4  MINOR ROAD BRACKET DOUBLE ARM OUTREACH BLACK
ASSEMBLY 844-6  MINOR ROAD BRACKET DOUBLE ARM OUTREACH BLUE/GREY

LIGHTING
ASSEMBLIES - ENERGEX ONLY
MINOR ROAD BRACKET DOUBLE OUTREACH ARM
GREEN, BLACK & BLUE / GREY

VOLUME 1  FOLDER 2  PAGE 844  ISSUE 0B
ASSEMBLY 845-1 MINOR ROAD BRACKET M13 & CABLE MOUNTING TO WOOD POLE

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

To O/H mains or service

Hole 10 Dia.

Coachscrew, M12x90 / 1000 00684 / 1757894

Active Core to Fuse Holder

Cable 2 core 6mm² Cu XLPE 17119 / 1420068

ASSEMBLY 845-2 MINOR ROAD BRACKET M13 & CABLE MOUNTING TO CONCRETE POLE

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

To O/H mains or service

Active Core to Fuse Holder

S/S buckle 02483 / 0406311

S/S bandit strap 19mm 02476 / 0406297

Cable 2 core 6mm² Cu XLPE 17119 / 1420068

MATERIAL

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MATERIAL

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NOTE:
All bands to be double wrapped

LIGHTING ASSEMBLIES
MINOR ROAD STREETLIGHT BRACKETS
M13 0.5m OUTREACH MOUNTING TO POLE

EE DRWG NO: 1-2-845
EGX DRWG NO: 10500-A4-1-2-845
VOLUME FOLDER PAGE ISSUE
1 2 845 0C
M10 Bolt supplied with bracket

Floodlight outreach extension
2427300 / 2427300

ASSEMBLY 846-1 MAJOR ROAD PEDESTRIAN FLOODLIGHT OUTREACH EXTENSION
## MATERIAL

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

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

---

**Sleeve PT bracket 13166 / 1104726**

**Flexible conduit 16mm grey / black 04838 / 2113005**

**Conduit saddle 25mm 11430 / 0104435**

**Flexible conduit 04929 / 2173040**

**Cable 2 core 6mm² Cu XLPE 17119 / 1420068**

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

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

**Screw, Hex Head 50mm long NIL / 0104435**

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

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

**Screw, plated brass, M5 x 25mm 08536 / 2400076**

**Nut, plated brass, M5 00983 / 2400093**

**Washer, S/S, 1/4 01147 / 2406978**

---

**LITHING ASSEMBLIES**

**MAJOR & MINOR ROAD**

**0.3m POWER TRANSFORMER OUTREACH**

---

**ASSEMBLY 847-1**

**ASSEMBLY 847-3**

---

**REFERENCE DRAWING ENERGEX**

**REFERENCE DRAWING ERGON**

---

**C. Noel 19/04/17**

**F. Zaini 19/04/17**

**A. Bletchly 01/04/17**

**T. Borg 01/10/10**
**ASSEMBLY 851-1**
MAJOR ROAD HIGH MAST OUTREACH FRAME - 1 WAY

**ASSEMBLY 851-2**
MAJOR ROAD HIGH MAST OUTREACH FRAME - 2 WAY

---

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<td>07112</td>
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<td>12175</td>
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**CONNECTION DIAGRAM**

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

- Headframe terminal block
- Circuit breakers
- Removable cap
- To luminaire
- Catenary fixed to support
- Strap, tie down
- Catenary wire 1.6mm
  - 03293 / NIL
- Cable from terminal panel tied to catenary wire
- Pole
- Headframe
- Cable 2.5mm²
  - 2c flat PVC/PVC
  - 07112 / NIL
- Cable 4.0mm²
  - 4C PVC/PVC
  - 12175 / NIL

---

**HEADFRAME SECTIONAL DETAIL**

- LIGHTING ASSEMBLIES
- HIGH MAST OUTREACH FRAME - 1 & 2 WAY

---

**REFERENCES**

- ENERGEX or Ergon Energy
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---

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

**Checked by**
P. Reif / A. Blechly 01/05/18

**Approved by**
F. Zaini 01/05/18
C. Noel 01/05/18

**References**
- EE DRWG NO: 1-2-851
- EGX DRWG NO: 10500-A4-1-2-851
### CONNECTION DIAGRAM 3 WAY

- **Headframe terminal block**
  - Circuit breakers: A1, A2, A3

- **Cable**
  - 2.5mm²: 2c flat PVC/PVC 07112 / NIL
  - 4.0mm²: 4c PVC/PVC 12175 / NIL

### CONNECTION DIAGRAM 4 WAY

- **Headframe terminal block**
  - Circuit breakers: A1, A2, A3

- **Cable**
  - 4.0mm²: 4c PVC/PVC 12175 / NIL

### ASSEMBLY 852-1
- **MAJOR ROAD HIGH MAST OUTREACH FRAME - 3 WAY**
  - High mast outreach frame
  - 3 way: 05390 / 2403721
  - 4 way: 05389 / 2403722

### ASSEMBLY 852-2
- **MAJOR ROAD HIGH MAST OUTREACH FRAME - 4 WAY**
  - High mast outreach frame
  - 4 way: 05390 / 2403721

### HEADFRAME SECTIONAL DETAIL 3 & 4 WAY

- **Removable cap**
- **Cabling to only one luminaire shown for clarity**
- **Strap, tie down**
  - 06490 / NIL
- **Catenary wire 1.6mm**
  - 03293 / NIL
- **Cable from terminal panel tied to catenary wire**
- **Pole**
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

PE Cell
NEMA, High rating
05502 / 1184026

LED Luminaires

100W
2467124
2467132
2467140

175W
2467124
2467132
2467140

300W
2467124
2467132
2467140

Clear Lamp

S150
21590 / NIL

S250
21591 / 2403268

S400
21592 / 2403254

ASSEMBLY 853-4
MAJOR ROAD HIGH MAST LED LUMINAIRE 100W

ASSEMBLY 853-5
MAJOR ROAD HIGH MAST LED LUMINAIRE 175W

ASSEMBLY 853-6
MAJOR ROAD HIGH MAST LED LUMINAIRE 300W

Lighting Assemblies

High Mast Luminaire Lamp & PE Cell
**ASSEMBLY**

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- **ENGERGEX**
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  - 16890

- **ERGON**
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- **ENGERGEX**
  - 2462208
  - 2462216
  - 2462224
  - 2462232

- **ERGON**
  - NIL
  - NIL
  - NIL
  - NIL

---

**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**

**ASSEMBLIES - ENERGEX ONLY**

MAJOR ROAD BPM MID HINGED POLE

---

**Approved Ergon**

C. Noel

19/04/17

**Approved Energex**

F. Zaini

19/04/17

**Checked**

P. Ref. / A. Bletchly

01/04/17

**Drawn**

L. Burton / T. Borg

01/10/10

---

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ENERGEX or Ergon Energy.
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 occuring in sand dunes)
   (ii) Swampy silt deposits (commonly occuring 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

Traffic light controller terminal block

N/E link

From U/G supply

Terminial panel

From traffic light controller supply

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

REFER AS 3000 Clause 2.23.4.5

Supply Box 16432 / 2433795

S/S bandit strap 19mm

02476 / 0406297

S/S buckle

02483 / 0406311

ASSEMBLY 856-1 JOINT USE STREETLIGHT SUPPLY BOX
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
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**ASSEMBLY 858-1**
MINOR ROAD MID HINGED RH GALV POLE

**ASSEMBLY 858-2**
MINOR ROAD MID HINGED RH GREEN POLE

**ASSEMBLY 858-3**
MINOR ROAD MID HINGED RH BLACK POLE

**ASSEMBLY 858-4**
MINOR ROAD MID HINGED RH BLUE GREY POLE

**LIGHTING ASSEMBLIES - ENERGEX ONLY**
MINOR ROAD MID HINGED POLE
4 BOLT
MINOR ROAD BRACKET MI1 & CABLE MOUNTING TO CONCRETE POLE

MATERIAL

<table>
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NOTE:
All bands to be double wrapped

ASSEMBLY 859-1
Bracket, 0.5m Outreach, Minor Road bracket
22425 / 2434223

Cable 2 core
6mm² Cu XLPE
17119 / 1420068

S/S buckle
02483 / 0406311

S/S bandit strap 19mm
02476 / 0406297

To Luminaire

MOUNTING TO CONCRETE POLE

MINOR ROAD BRACKET MI2 & CABLE MOUNTING TO CONCRETE POLE

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NOTE:
All bands to be double wrapped

ASSEMBLY 859-2
Bracket, 3.0m Outreach, 1.0m Uplift - Minor Road
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

To O/H mains or service

NON-CYCLONIC AREAS ONLY TO BE USED IN
MATERIAL

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**ASSEMBLY 860-1**

**MAJOR ROAD BRACKET MA1 & CABLE MOUNTING TO CONCRETE POLE**

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**ASSEMBLY 860-2**

**MAJOR ROAD BRACKET MA2 & CABLE MOUNTING TO CONCRETE POLE**

**NOTE:**

All bands to be double wrapped

**LIGHTING ASSEMBLIES**

**MAJOR ROAD STREETLIGHT BRACKETS MA1 & MA2 MOUNTING TO CONCRETE POLE**

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<td>2 core</td>
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**NOTE:**

All bands to be double wrapped

**Bracket, 1.5m Outreach, Major Road**

22390 / 0104186

**Bracket, 3.0m Outreach, 1.0m Uplift - Major Road**

22402 / 0104187

**To O/H mains or service**

**To O/H mains or service**

**To Luminaire**

**To Luminaire**

**Active Core to Fuse Holder**

**Active Core to Fuse Holder**

**Cable 2 core**

**Cable 2 core**

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**NOTE:**

All bands to be double wrapped

**Bracket, 1.5m Outreach, Major Road**

22390 / 0104186

**Bracket, 3.0m Outreach, 1.0m Uplift - Major Road**

22402 / 0104187
## ASSEMBLY MATERIAL

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**NOTE:**

All bands to be double wrapped.

---

**ASSEMBLY 862-1**

**MAJOR ROAD BRACKET MA3 & CABLE, MOUNTING TO CONCRETE POLE**

**ASSEMBLY 862-2**

**MAJOR ROAD BRACKET MA4 & CABLE, MOUNTING TO CONCRETE POLE**

---

**LIGHTING ASSEMBLIES**

**MAJOR ROAD STREETLIGHT BRACKETS**

**MA3 & MA4 MOUNTING TO CONCRETE POLE**

---

**To O/H mains or service**

**Bolt & Nut**

Galv M12 x 50

00186 / 1703263

**Washer, Rd. M12**

01044 / 1777542

**Bracket, MA3**

4.5m Outreach, 2.5m Uplift

22403 / 0104188

or

Bracket, MA4

3.0m Outreach, 4.0m Uplift

22404 / 0104190

**To Luminaire**

---

**NON-CYCLONIC AREAS**

ONLY TO BE USED IN
ASSEMBLY 865-5  WATCHMAN FLOODLIGHT ANTI-VANDAL GUARD

Watchman floodlight
Anti-vandal guard
16276 / 2433316
### MATERIAL

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

---

**ASSEMBLY 866-1 FUSEHOLDER TO STEEL / CONCRETE POLE**

**FUSEHOLDER TO STEEL / CONCRETE POLE**

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

![Diagram of fuseholder assembly](attachment:image.png)

- **Fuse 10A**
  - HRC type 10G
  - Fuse 10A

- **Fuseholder**
  - 0104728

- **Heatshrink**
  - 9.5/4.8
  - 0184880

- **S/S buckle**
  - 0406311

- **S/S bandit strap**
  - 19mm
  - 0406297

- **Neutral wires to be connected using**
  - 2 screw BP connector (Clipsal 563/2)
  - 1015016

---

**LIGHTING ASSEMBLIES - ERGON ENERGY ONLY**

**FUSEHOLDER TO STEEL / CONCRETE POLE**

- **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
  - 19/12/18

**EE DRWG NO:** 1-2-866
**EGX DRWG NO:** 10500-A4-1-2-866

---

**HARD COPY UNCONTROLLED**

VOLUME: 1  FOLDER: 2  PAGE: 866  ISSUE: 0A
### 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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### Accessories
- Bolt, M8 x 25
- Washer, Rd. M8
- Washer, Sp. M8
- Nut, M8
- Heat shrink sleeves
- Lid, type P4
- Earth Cable
- Earthwire Connected To FMS
- Terminal Block 4 tunnel 25mm²
- Terminal Block 4 tunnel 25mm²
- Fuse Link 20A
- Fuse switch combo
- 415V 20A Fuse switch combo
- 6mm²/M8 LUG Cu
- Pit, type P4
- Pit, type P4
- Cable clamp
- 15637 / 1015092
- Slip Base Connector Set
-:nil / 2400915

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

---

**Approved Ergon:**
C. Noel 01/05/18

**Approved Energex:**
F. Zaini 01/05/18

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

**Drawn:**
P. Reif / T. Borg 01/10/10

**Date:** 01/10/10

**Reference:**
ERGON DRWG NO: 10500-A4-1-2-867

**Volume:** 1

**Folder:** 2

**Page:** 867

**Issue:** 0E
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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

Gerard Syflood Asymmetrical 2461366 (S250) 2461358 (S400) 2461374 (H250) 2461382 (H400)
Nema PE Cell 05502 / 1184026
Philips Tango G3 Small Asymmetrical Medium Beam 100W 2467330 (L100)
Gerard Pierlite Quantum LED Asymmetrical 320W 2467355 (L300)
MATERIAL

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ASSEMBLY 869-1 MAJOR ROAD FLOODLIGHT ADAPTER - HID FLOODLIGHT

ASSEMBLY 869-2 MAJOR ROAD FLOODLIGHT ADAPTER - PIERLITE LED FLOODLIGHT

ASSEMBLY 869-3 MAJOR ROAD FLOODLIGHT ADAPTER - PHILIPS TANGO FLOODLIGHT

Bolt, galv, M10 x 25mm
Supplied with adaptor

Bolt, galv, M10 x 75mm
Supplied with adaptor

Bolt, galv, M10 x 25mm
Supplied with adaptor

Floodlight to outreach extension adaptor
11610 / 1104741
2469179 / 2469179
2469187 / 2469187

Washer, Rd M10
16868 / 1777534
01074 / 1779158

Washer, Sp M10
01072 / 1779154
21276 / 1777569

Washer, Rd M10
16868 / 1777534
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

**REFERENCES**

- 4927-A4-2.45
- EE DRWG NO: 1-2-870
- EGX DRWG NO: 10500-A4-1-2-870

**DRAWN**

L. Burton / T. Borg 01/10/10
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22393

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22394

Pole Height 5.5m

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

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

0.5m
ASSEMBLY 873-0 ASSET IDENTIFICATION NUMBER '0'
ASSEMBLY 873-1 ASSET IDENTIFICATION NUMBER '1'
ASSEMBLY 873-2 ASSET IDENTIFICATION NUMBER '2'
ASSEMBLY 873-3 ASSET IDENTIFICATION NUMBER '3'
ASSEMBLY 873-4 ASSET IDENTIFICATION NUMBER '4'
ASSEMBLY 873-5 ASSET IDENTIFICATION NUMBER '5'
ASSEMBLY 873-6 ASSET IDENTIFICATION NUMBER '6'
ASSEMBLY 873-7 ASSET IDENTIFICATION NUMBER '7'
ASSEMBLY 873-8 ASSET IDENTIFICATION NUMBER '8'
ASSEMBLY 873-9 ASSET IDENTIFICATION NUMBER '9'

Refer Assy 874 for Asset Identification Label Tray

LIGHTING ASSEMBLIES - ERGON ENERGY ONLY
SIGN, ASSET IDENTIFICATION NUMERALS & LETTERS
ASSEMBLY 874-2 ASSET IDENTIFICATION BACKING PLATE TO WOOD POLE

- Asset I.D. plate
  NIL / 2432235

- Screw, hex hd.
  50mm long, NIL / 0104435

MATERIAL

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Refer Assy 873 for Asset Identification numbers and letters.

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

- 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

MATERIAL

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Refer Assy 873 for Asset Identification numbers and letters.

- Asset I.D. plate
  NIL / 2432235

- Screw, hex hd.
  50mm long, NIL / 0104435

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

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SL 32A label pair
14185 / 2433803

SL 32A
SL 32A

ASSEMBLY 875-1  SL32A LABEL FOR SERVICE FUSE

LIGHTING
ASSEMBLIES
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
To luminaire

To watchman control box

Watchman circuit breaker 15885 / 2402333

2.5mm² 2C flat PVC/PVC 07112 / 2403244
CONSUMER'S PROPERTY POLE LABEL

CONSUMER'S PROPERTY POLE

MATERIAL

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ASSEMBLY 884-1

CONSUMER'S PROPERTY POLE LABEL

Framework for Consumer's Property Pole Label

CONSUMER'S PROPERTY POLE
<table>
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<th>ASSEMBLY 890-3</th>
<th>LUMINAIRE S70 NOSTALGIA TYPE 2 GREEN (No bracket)</th>
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<tr>
<td>ASSEMBLY 890-6</td>
<td>LUMINAIRE S70 NOSTALGIA TYPE 2 BLACK (No bracket)</td>
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<tr>
<td>ASSEMBLY 890-9</td>
<td>LUMINAIRE S70 NOSTALGIA TYPE 2 BLUE / GREY (No bracket)</td>
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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.
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.

PED XING F/L OUTREACH
STREET LIGHT OUTREACH
PED. XING F/L OUTREACH
DISPLACEMENT ANGLE

W
X
Y
Z°

To suit column spigot Ø76 x 300
SIDE ELEVATION

PF1 Combination
Streetlight
Pedestrian Outreach
15675 / NIL

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

Streetlight Outreach
28° Typ.
1500 R
Spigot Ø42 x 130
Weather Cap
Ped. X-ing
F/L Outreach

28° Typ.
1500 R

Spigot Ø42 x 130
No Upcast

340
Min

5° Upcast

2000

Z° Leading
Z° Lagging

Ped. Xing F/L Outreach
Displacement angle
Nominate either Leading or lagging.

Z%%d
Lagging
Leading

Ped. X-ing F/L Outreach

Streetlight Outreach

Spigot Ø42 x 130

STREET NAME:
LOCATION:
STATION No:
REFERENCE No:
DRAWING No:

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

ASSEMBLY 891-1 MAJOR ROAD PEDESTRIAN OUTREACH ARM PF1

PED XING F/L OUTREACH
STREET LIGHT OUTREACH
PED. XING F/L OUTREACH
DISPLACEMENT ANGLE

W
X
Y
Z°

1500 R

Streetlight
Outreach

28° Typ.

Spigot Ø42 x 130

Weather Cap
Ped. X-ing
F/L Outreach

28° Typ.

Spigot Ø42 x 130

No Upcast
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 | W
PED. XING F/L OUTREACH | X
PED. XING F/L O/R UPLIFT | Y
DISPLACEMENT ANGLE | Z°

ASSEMBLY 892-1 MAJOR ROAD PEDESTRIAN OUTREACH ARM PF2

LIGHTING ASSEMBLIES - ENERGEX ONLY
COMBINED OUTREACH PF2 FOR PEDESTRIAN CROSSING & STREET LIGHT COMBINATIONS

STREET NAME:
LOCATION:
PROJECT No. & DRAWING No: 1-2-892
STATION No:

VOLUME PAGE ISSUE
1 2 892 0A
**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+Y) must not exceed 5000mm.

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

---

**PLAN**

- **Ped. X-ing F/L Outreach**
- **Spigot Ø42 x 130**
- **No Upcast**

**SIDE ELEVATION**

- **Weather Cap**
- **28° Typ.**
- **1500 R**
- **Spigot Ø42 x 130**
- **No Upcast**

**PF2 Combination Streetlight Pedestrian Outreach 15676 / NIL**

---

**ELEVATION**

- **Spigot Ø76 x 300**

---

**ASSEMBLY 893-1 MAJOR ROAD PEDESTRIAN OUTREACH ARM PF3**

---

**LIGHTING ASSEMBLIES - ENERGEX ONLY**

**COMBINED OUTREACH PF3 FOR PEDESTRIAN CROSSING COMBINATIONS**
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 α° = 0° (typical) for PX floodlight
   and 5° (typical) for streetlight

STREET NAME:

LOCATION:

PROJECT No. & DRAWING No:  STATION No:

ASSEMBLY 894-1 MAJOR ROAD OUTREACH SPECIAL SINGLE

OUTREACH X mm
UPLIFT Y mm
SPIGOT UPCODEST a°
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. Maximum allowable uplift "Y" is 2000mm.
6. Following assignment of the displacement angle Z (leading or lagging), the maximum vector sum of both outreaches (Y1+Y2) must not exceed 5000mm.
7. Dimensions Y1, X1 & X2, Y2 should be taken from, and in increments of 500mm.

See Note 4

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<tr>
<th>UPLIFT</th>
<th>X1</th>
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<tbody>
<tr>
<td>UPLIFT</td>
<td>X2</td>
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<td>OUTREACH</td>
<td>Y1</td>
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<tr>
<td>OUTREACH</td>
<td>Y2</td>
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<tr>
<td>DISPLACEMENT ANGLE</td>
<td>Z°</td>
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**ASSEMBLY 895-1 MAJOR ROAD OUTREACH SPECIAL DUAL**

**NOTES:**

- Tube section sizes to be determined by manufacturer with reference to QESI specification - TS 05-01-01.
- Streetlight Outreach
- Weather Cap
- Spigot Ø42 x 130 (typical)

STREET NAME:  
LOCATION:  
STATION Nos:  
REFERENCE No:  
DRAWING No:  

**LIGHTING**  
**ASSEMBLES - ENERGEX ONLY**  
**MAJOR ROAD OUTREACH ARMS**  
**SPECIAL DUAL**
### Notes:

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

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### ASSEMBLY 896-1 MINOR ROAD OUTREACH SPECIAL SINGLE

**OUTREACH X**

**UPLIFT ANGLE** 5°

---

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

To suit column spigot Ø50 x 300

STREET NAME:

LOCATION: STATION No:

REFERENCE No: DRAWING No:

---

**Lighting**

ASSEMBLIES - ENERGEX ONLY

MINOR ROAD OUTREACH ARMS

SPECIAL SINGLE

---

**Assembly 896-1**

**Minor Road Outreach Special Single**

16283 / NIL

---

**Drawing No:**

**Station No:**

**Reference No:**

---

**Approved Design:**

**Drawn by:**

---

**Hard Copy Uncontrolled**

---

**Issue:**

---
"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

L. Burton / T. Borg 30/09/10
**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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<td>13166</td>
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**Notes:**
- Underbridge bracket 17638 / NIL
- Ø12 masonry anchors supplied with bracket
- Major road luminaire adaptor 13166 / NIL

---

**Approved Design:**
- J. Brooks 14/10/10
- R. English 14/10/10
- D. Taylor / B. Oyegoke 14/10/10

**Drawn:**
- L. Burton / T. Borg 01/10/10
SPECIAL BULKHEAD S150
15421 / NIL

Special Bulkhead Luminaire S150
15421 / NIL
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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.
## MATERIAL

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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
Notes
1. Luminaires are supplied complete with lamp and PE cell fitted.
2. These assemblies are provided for maintenance spares.
ASSEMBLY 903-1  CUTTING COMPOUND FOR STEEL POLE

ASSEMBLY 903-10  STEP DRILL 5 - 35mm

ASSEMBLY 903-5  COLD GALVANISING PAINT
MATERIAL

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Fuse 10A
HRC type 10G
1011106

ASSEMBLY 904-1
FUSEHOLDER TO WOOD POLE

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 904-5
BRACKET, HOLDER FOR PE CELL

Screw, Hex. Type 17, 12gx50
0104435

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

Approved Ergon
Date
C. Noel 01/05/18

Approved Energex
Date
F. Zaini 01/05/18

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

Drawn
Date
L. Burton / T. Borg 14/11/14

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EE DRWG NO: 1-2-904
EGX DRWG NO: 10500-A4-1-2-904

VOLUME FOLDER PAGE ISSUE
1 2 904 0B
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<td>Mounting bracket for LORA</td>
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<tr>
<td>Antenna mounting bracket</td>
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**ASSEMBLY 905-2 LORA CONTROL BOX TO STEEL POLE**

- Bandit strap 0406297
- Buckle 0406311
- Mounting bracket
- Washer Sp, M8 S/S 0104406
- Washer Rd, M8 S/S 1779110

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

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

**LIGHTING ASSEMBLIES - ERGON ENERGY ONLY**

LORA CONTROL BOX TO STEEL POLE

ANTENNA TO STEEL POLE

C. Noel 19/04/17
F. Zaini 19/04/17
P. Relf / A. Bletchly 01/04/17
L. Burton / T. Borg 18/07/16

Approved Ergon
Approved Energex
Checked
Drawn

EE DRWG NO: 1-2-905
EGX DRWG NO: Nil

VOLUME: 1  FOLDER: 2  PAGE: 905  ISSUE: 0A

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**ASSEMBLY 906-2**  
**BANDIT STRAP (19mm) TO POLE**

- MATERIAL
  - ENERGEX SC | QTY | ERGON SC
  - NIL | - / 4m | 0406297
  - NIL | - / 2 | 0406311

- LIGHTING
  - S/S Bandit strap 19mm 0406297
  - S/S Buckle 0406311

**ASSEMBLY 906-5**  
**CABLE GUARD TO STEEL POLE**

**DIRECT PURCHASE**

- ITEM | QTY
- Metal cable guard | 1

- MATERIAL
  - I.I. No. | QTY
  - 0406297 | 4m
  - 0406311 | 3

**CABLE GUARD TO STEEL POLE**

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

**LIGHTING**

**ASSEMBLIES - ERGON ENERGY ONLY**

**BANDIT STRAP TO POLE**
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

LIGHTING
ASSEMBLIES - ERGON ENERGY ONLY
MAJOR ROAD - TYPE B PIT
CONNECTION SBM POLE TO PIT SINGLE PHASE
ASSEMBLY 908-1  CONNECTION SBM POLE TO PIT THREE PHASE - CONTAINS PIT TYPE B, LID & JUNCTION BOX KIT

**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.

**Material**

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**Diagram Notes:**
- Supporting Strap Nil / Direct Purchase Refer detail A
- 3 phase Junction Box Kit Nil / 2433704
- Heat shrink tubing Nil / 0184880 and
  Heat shrink glove Nil / 2400915
- Lid, type B Nil / Direct Purchase
- Earthwire Connected To FMS
- LUG Cu 6mm²/M8
- Pit, type B Nil / Direct Purchase
- Soldering lug Nut, M8
- Bolt, M8 x 25
- Washer, Rd. M8
- Washer, Sp. M8
- Refer note
- Refer detail A
- Slip Base Connector Set included with Junction box

**Lighting**

ASSEMBLIES - ERGON ENERGY ONLY
MAJOR ROAD - TYPE B PIT
CONNECTION SBM POLE TO PIT THREE PHASE
**ASSEMBLY 909-1** GUARD POLYMERIC (SMALL) TO WOOD POLE

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

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

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

- Guard, Galv Steel 100mm wide
- NIL / 2406985

- Coachscrew, M10x50
- NIL / 1757622

**MATERIAL**

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**REFERENCE DRAWING ENERGEX**

- QTY 909-1
- ENERGEX SC 2422657
- ORIGINAL ISSUE

**REFERENCE DRAWING ERGON**

- QTY 909-7
- ENERGON SC 2406985
- ORIGINAL ISSUE
ASSEMBLY 910-1 TERMINATION 16mm² N/S CABLE

Termination, 16mm² N/S cable NIL / 2427359
Color coding
See note 1
Active Core to Fuse Holder Insulation Piercing Connector - Do not strip
Length as required
Heatshrink tubing NIL / 0184880
Cable, 16mm² Cu hard drawn 7/1.70 insulated NIL / 1313013
Crimp Lug 16mm² Cu 6.3mm A/F NIL / 0158076

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 NIL / 01420045
#### MATERIAL

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**L50 Aeroscreen (Philips)**
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- 2467066
- 2467074
- 2467090
- 2467108
- 2467116

**L90 Aeroscreen (Philips)**
- 2467041

**L80 Aeroscreen (Philips)**
- 2467058

**L170 Aeroscreen (Philips)**
- 2467074

**LL20 Aeroscreen (Philips)**
- 2467090

**LL270 Aeroscreen (Philips)**
- 2467108

**LL240 Aeroscreen (Philips)**
- 2467116

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**ASSEMBLY 913-7**
**MAJOR ROAD LED LUMINAIRE L50 AEROSCREEN (LSS)**

**ASSEMBLY 913-8**
**MAJOR ROAD LED LUMINAIRE L50 AEROSCREEN (PHILIPS)**

**ASSEMBLY 913-9**
**MAJOR ROAD LED LUMINAIRE L90 AEROSCREEN (PHILIPS)**

**ASSEMBLY 913-10**
**MAJOR ROAD LED LUMINAIRE L80 AEROSCREEN (PHILIPS)**

**ASSEMBLY 913-11**
**MAJOR ROAD LED LUMINAIRE L170 AEROSCREEN (PHILIPS)**

**ASSEMBLY 913-12**
**MAJOR ROAD LED LUMINAIRE L270 AEROSCREEN (PHILIPS)**

**ASSEMBLY 913-13**
**MAJOR ROAD LED LUMINAIRE L240 AEROSCREEN (PHILIPS)**
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Gerard Sylflood Symmetric
2467447 (S150)
2467454 (S250)
2467462 (S400)
2467470 (H150)
2467488 (H250)
2467496 (H400)

Nema PE Cell
05502 / 1184026

Philips Tango G3 Medium
2467439 (L200)
2467413 (L70)
2467421 (L100)
**ASSEMBLY 915-1 LED WATCHMAN TO WOOD POLE**

- **Bolt, M16 x 40mm**
  - ENERGEX: 00209 / 1
  - ERGON: 01045 / 1
- **Washer, Rd M16**
  - ENERGEX: 00684 / 1
  - ERGON: 2469252 / 1
  - ENERGEX: 01044 / 1
- **Coachscrew M12 x 100**
  - ENERGEX: 00684 / 1
- **Support Bracket**
  - 2469252 / 1
- **Washer, Sp M16**
  - ENERGEX: 01074 / 1
  - ERGON: 1797158 / 1

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

---

**ASSEMBLY 915-2 LED WATCHMAN TO STEEL / CONCRETE POLE**

- **Bolt, M16 x 40mm**
  - ENERGEX: 00209 / 1
  - ERGON: 01045 / 1
- **Washer, Rd M16**
  - ENERGEX: 01074 / 1
- **Support Bracket**
  - 2469252 / 1
- **S/S buckle**
  - 02476 / 1
- **S/S bandit strap 19mm**
  - 02483 / 1
  - 040631 / 1

---

**LIGHTING ASSEMBLIES**

**LED WATCHMAN FLOODLIGHT TO WOOD / STEEL / CONCRETE POLE**

- **LED WATCHMAN TO WOOD POLE**
- **LED WATCHMAN TO STEEL / CONCRETE POLE**
LIGHTING
ASSEMBLIES
WATCHMAN FLOODLIGHT TO WOOD / STEEL / CONCRETE POLE

ASSEMBLY 916-1 WATCHMAN FLOODLIGHT TO WOOD POLE

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Bolt, M10 x 40mm
00164 / 1702852
00166 / 1702887

Washer, Rd M10
01043 / 1777534
01044 / 1777542

Coachscrew M12 x 100
00684 / 1757894

Adaptor
2469260 / 2469260

Support Bracket
2469252 / 2469252

Washer, Rd M10
01072 / 1779154

Washer, Sp M10
01044 / 1777542

NOTE:
All bands to be double wrapped

ASSEMBLY 916-2 WATCHMAN FLOODLIGHT TO STEEL / CONCRETE POLE

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Bolt, M10 x 25mm
00164 / 1702852
00166 / 1702887

Washer, Rd M10
01043 / 1777534
01072 / 1779154

Support Bracket
2469252 / 2469252

Washer, Sp M10
01044 / 1777542

Adaptor
2469260 / 2469260

S/S bandit strap
19mm
02476 / 0406297

S/S buckle
02483 / 0406311

Supported by:

A. Bletchly
01/03/19

K. Slater
01/03/19

T. Borg
03/12/18

Date
Date
Date