<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
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<td>1-4-2-1</td>
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</tr>
<tr>
<td>Construction Type Guide - Services Underground - Ergon</td>
<td>1-4-2-2</td>
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</tr>
<tr>
<td>Construction Type Guide - Services Underground - Ergon</td>
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<td>Construction Type Guide - Services Underground - Ergon</td>
<td>1-4-2-4</td>
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<tr>
<td>Construction Type Guide - Services Overhead - Energex</td>
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<td></td>
</tr>
<tr>
<td>Construction Type Guide - Services Underground - Energex</td>
<td>1-4-2-6</td>
<td></td>
</tr>
<tr>
<td>Construction Type Guide - Services Underground - Energex</td>
<td>1-4-2-7</td>
<td></td>
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</table>

**OVERHEAD CONSTRUCTION**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOHSL</td>
<td>Single or 3 Phase 25mm² LVABC from LVABC Mains To Streetlight - Materials</td>
<td>1-4-3-1</td>
</tr>
<tr>
<td>SOHSL</td>
<td>Single or 3 Phase 25mm² LVABC from LVABC Mains To Streetlight - Construction</td>
<td>1-4-3-2</td>
</tr>
<tr>
<td>SOHSL</td>
<td>Single or 3 Phase 25mm² LVABC from Open Wire Mains to Streetlight - Materials</td>
<td>1-4-4-1</td>
</tr>
<tr>
<td>SOHSL</td>
<td>Single or 3 Phase 25mm² LVABC from Open Wire Mains to Streetlight - Construction</td>
<td>1-4-4-2</td>
</tr>
<tr>
<td>SOHSL</td>
<td>Single or 3 Phase 25mm² LVABC Service Looping Steel / Concrete Streetlight Poles Material &amp; Const.</td>
<td>1-4-5-1</td>
</tr>
<tr>
<td>SOHSL</td>
<td>Single or 3 Phase 25mm² LVABC Service Looping Wood Streetlight Poles Material &amp; Const.</td>
<td>1-4-6-1</td>
</tr>
</tbody>
</table>

**UNDERGROUND CONSTRUCTION**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>DESCRIPTION</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUGSL</td>
<td>Major &amp; Minor Road 16mm² &amp; 4mm² Neutral Screened Cable at LV Pillar Material &amp; Const.</td>
<td>1-4-7-1</td>
</tr>
<tr>
<td>SUGSL</td>
<td>SBM Steel Pole from LV Pit Single &amp; 3 Phase Material &amp; Const.</td>
<td>1-4-8-1</td>
</tr>
<tr>
<td>SUGSLL</td>
<td>Major / Minor Rd Cable Looping from LV Pit Materials &amp; Const. Service Cable Details</td>
<td>1-4-9-1</td>
</tr>
<tr>
<td>SUGSLL</td>
<td>Typical Unmetered UG Supply For Non Standard Luminaire</td>
<td>1-4-10-1</td>
</tr>
<tr>
<td>SUGSLL</td>
<td>Typical Unmetered UG Supply For Non Standard Luminaire</td>
<td>1-4-11-1</td>
</tr>
</tbody>
</table>

**LIGHTING SERVICES INDEX**

<table>
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<tr>
<th>VOLUME</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>1-1</td>
<td>0E</td>
</tr>
</tbody>
</table>

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SOH SL 225 ABC/W

SERVICE TYPE
SOH = Service overhead
SL = Streetlight

SERVICE CABLE
225 = 2x25mm² ABC
425 = 4x25mm² ABC

MAINS CONDUCTOR
ABC = LVABC 95mm²
Al = Aluminium conductors
Cu = Copper conductors

STREETLIGHT POLE TYPE
W = Wood
(Omit where steel or concrete pole used)

EXAMPLE:- SOHSL225 ABC/W = Overhead service fittings, streetlight, suit 2x25mm² service cable to LVABC mains, wood pole.
EXAMPLE:- SOHSL425 Al = Overhead service fittings, streetlight, suit 4x25mm² service cable to aluminium mains. (steel or conc. pole)

NOTE:
Service cable NOT included.
Refer CONSTRUCTION PRACTICES Dwg. 1-3-2-1

LOOPING STREETLIGHT SERVICE FITTINGS - CONSTRUCTION TYPE

SOH SLL 425W

SERVICE TYPE
SOH = Service overhead
SLL = Streetlight looping

SERVICE CABLE
225 = 2x25mm² ABC
425 = 4x25mm² ABC

STREETLIGHT POLE TYPE
W = Wood
(Omit where steel or concrete pole used)

EXAMPLE:- SOH SLL225W = Overhead service fittings, streetlight looping, suit 2x25mm² ABC service cable, wood pole.
EXAMPLE:- SOH SLL425 = Overhead service fittings, streetlight looping, suit 4x25mm² ABC service cable. (steel or conc. pole)

NOTE:
Service cable NOT included.
Refer CONSTRUCTION PRACTICES Dwg. 1-3-2-1
STREETLIGHT SERVICE FITTINGS - UNDERGROUND - CONSTRUCTION TYPE

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

SUG SL/PIL

SERVICE
SUG = Service underground

TYPE
SL = Streetlight

LOCATION
PIL = LV Pillar

EXAMPLE:- SUGSL/PIL = Underground service fittings, streetlight, at LV pillar.

LOOPING STREETLIGHT SERVICE FITTINGS - UNDERGROUND - CONSTRUCTION TYPE

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

SUG SLL/PIT4

SERVICE
SUG = Service underground

TYPE
SLL = Streetlight looping BPM and BIG major and minor road

TO / FROM
PIT = Tee-off to pole from pit, includes pit, lid and junction box/enclosure
JB = Tee-off to pole from pit, includes junction box/enclosure only (Pit & lid supplied & installed by others)

EXAMPLE:- SUGSLL/PIT = Underground service pit and fittings, streetlight looping, pit to pit.
EXAMPLE:- SUGSLL/JB = Underground service junction box/enclosure only, streetlight looping, pit to pit (pit & lid supplied & installed by others)
STREETLIGHT SERVICE FITTINGS - UNDERGROUND - SBM POLE - CONSTRUCTION CODE

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

SUG SL/ SBM/ PIT

SERVICE:
SUG = Service underground

TYPE:
SL = Street Light

POLE TYPE:
SBM = Slip base mounted

LOCATION:
PIT = Tee-off to pole from pit, includes pit, lid and junction box/enclosure
JB = Tee-off to pole from pit, includes junction box/enclosure only
(Pit & lid supplies & installed by others)

NOTE:
These are the only allowable options for SBM poles

EXAMPLE:
SUGSL/ SBM/ JB = Underground service junction box/enclosure only, street light, slip base mounted, pit to pit (pit & lid supplied & installed by others)

STREETLIGHT SERVICE FITTINGS - UNDERGROUND - SBM POLE - CONSTRUCTION CODE

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

SUG SL/ SBM3PIT

SERVICE:
SUG = Service underground

TYPE:
SL = Street Light

PHASE:
3 = 3 Phase

POLE TYPE:
SBM = Slip base mounted

LOCATION:
PIT = Tee-off to pole from pit, includes pit, lid and junction box/enclosure
JB = Tee-off to pole from pit, includes junction box/enclosure only
(Pit & lid supplies & installed by others)

NOTE:
These are the only allowable options for SBM poles

EXAMPLE:
SUGSL/ SBM3JB = Underground service junction box/enclosure only, 3 phase, street light, slip base mounted, pit to pit (pit & lid supplied & installed by others)
STREETLIGHT SERVICE UNDERGROUND FROM OVERHEAD - CONSTRUCTION TYPE

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

SERVICE
SPT = Service Pole Termination

TYPE
SL = Streetlight

SUITES SERVICE CABLE
16C2 = 16mm² NS 2 Core

CABLE GUARD
P = Polymeric guard
M = Metal guard

MAINS CONDUCTOR
AL = Aluminium conductors
Cu = Copper conductors

Servic cable not included. Refer Construction Practices Dwg 1-3-2-1

EXAMPLE:- SPTSL16C2P/ABC = Service pole termination, streetlight suits 16mm² NS 2 core cable, polymeric cable guard, LVABC 95mm² mains.
STREETLIGHT SERVICE FITTINGS - CONSTRUCTION TYPE

**SOH SL 225 B W**

- **SERVICE**
  - SOH = Service overhead
- **TYPE**
  - SL = Streetlight
- **SERVICE CABLE**
  - 225 = 2x25mm² ABC
  - 425 = 4x25mm² ABC
- **MAINS CONDUCTOR**
  - B = LVABC 95mm²
  - L = Aluminium conductors
  - C = Copper conductors
- **STREETLIGHT POLE TYPE**
  - W = Wood
    - (Omit where steel or concrete pole used)

**EXAMPLE:**
- SOHSL225BW = Overhead service fittings, streetlight, suit 2x25mm² service cable to LVABC mains, wood pole.
- SOHSL425L = Overhead service fittings, streetlight, suit 4x25mm² service cable to aluminium mains. (steel or conc. pole)

**LOOPING STREETLIGHT SERVICE FITTINGS - CONSTRUCTION TYPE**

**SOH SLL 425W**

- **SERVICE**
  - SOH = Service overhead
- **TYPE**
  - SLL = Streetlight looping
- **SERVICE CABLE**
  - 225 = 2x25mm² ABC
  - 425 = 4x25mm² ABC
- **STREETLIGHT POLE TYPE**
  - W = Wood
    - (Omit where steel or concrete pole used)

**EXAMPLE:**
- SOHSL225W = Overhead service fittings, streetlight looping, suit 2x25mm² ABC service cable, wood pole.
- SOHSL425 = Overhead service fittings, streetlight looping, suit 4x25mm² ABC service cable. (steel or conc. pole)
STREETLIGHT SERVICE FITTINGS - UNDERGROUND - CONSTRUCTION TYPE

SUG SL PIL

SERVICE
SUG = Service underground

TYPE
SL = Streetlight

LOCATION
PIL = LV Pillar

EXAMPLE:- SUGSLPIL = Underground service fittings, streetlight, at LV pillar.

LOOPING STREETLIGHT SERVICE FITTINGS - UNDERGROUND - CONSTRUCTION TYPE

SUG SLL PIT2

SERVICE
SUG = Service underground

TYPE
SLL = Streetlight looping BPM and BIG major and minor road

TO / FROM
PIT = Tee-off to pole from pit, includes pit, lid and junction box/enclosure
JB = Tee-off to pole from pit, includes junction box/enclosure only (Pit & lid supplied & installed by others)

PIT SIZE
2 or 4

EXAMPLE:- SUGSLLPIT = Underground service pit and fittings, streetlight looping, pit to pit.
EXAMPLE:- SUGSLLJB = Underground service junction box/enclosure only, streetlight looping, pit to pit (pit & lid supplied & installed by others)
STREETLIGHT SERVICE FITTINGS - UNDERGROUND - SBM POLE - CONSTRUCTION CODE

**SUG SL SBM PIT**

**SERVICE**
SUG = Service underground

**TYPE**
SL = Street Light

**POLE TYPE**
SBM = Slip base mounted

**LOCATION**
PIT = Tee-off to pole from pit, includes pit, lid and junction box/enclosure
JB = Tee-off to pole from pit, includes junction box/enclosure only
(Pit & lid supplies & installed by others)

**NOTE:**
These are the only allowable options for SBM poles
Single Phase

**EXAMPLE:**
SUGSLSBMJ = Underground service junction box/enclosure only, street light, slip base mounted, pit to pit (pit & lid supplied & installed by others)

---

STREETLIGHT SERVICE FITTINGS - UNDERGROUND - SBM POLE - CONSTRUCTION CODE

**SUG SL SBM3PIT**

**SERVICE**
SUG = Service underground

**TYPE**
SL = Street Light

**POLE TYPE**
SBM = Slip base mounted

**PHASE**
3 = 3 Phase

**LOCATION**
PIT = Tee-off to pole from pit, includes pit, lid and junction box/enclosure
JB = Tee-off to pole from pit, includes junction box/enclosure only
(Pit & lid supplies & installed by others)

**NOTE:**
These are the only allowable options for SBM poles
Three Phase

**EXAMPLE:**
SUGSLSBM3J = Underground service junction box/enclosure on y, 3 phase, street light, slip base mounted, pit to pit (pit & lid supplied & installed by others)

---

LIGHTING SERVICES - ENERGEX ONLY
CONSTRUCTION CODE GUIDE
UNDERGROUND

<table>
<thead>
<tr>
<th>EE DRWG NO: 1-4-2-7</th>
<th>VOLUME</th>
<th>FOLDER</th>
<th>PAGE</th>
<th>ISSUE</th>
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</thead>
<tbody>
<tr>
<td>EGX DRWG NO: 10500-A4-1-4-2-7</td>
<td>1</td>
<td>4</td>
<td>2-7</td>
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</tbody>
</table>
NOTES:

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.

2. Service fuse bracket position is diagrammatic only. Fit to suit direction of service.

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-1</td>
<td>Hook service to wood pole</td>
<td></td>
</tr>
<tr>
<td>801-5</td>
<td>Cartridge fuse link 80A HRC</td>
<td>1</td>
</tr>
<tr>
<td>801-8</td>
<td>Fuse holder 100A (service) to bracket</td>
<td>1</td>
</tr>
<tr>
<td>802-1</td>
<td>Clamp strain to service hook</td>
<td></td>
</tr>
<tr>
<td>802-6</td>
<td>Bracket (service fuse) to wood pole</td>
<td></td>
</tr>
<tr>
<td>804-1</td>
<td>Connector I.P.C. 25/85mm² main to 6/35mm² tap</td>
<td></td>
</tr>
<tr>
<td>804-2</td>
<td>6-35mm Aluminium / 4-35mm Copper Thru Connector</td>
<td></td>
</tr>
<tr>
<td>805-1</td>
<td>End cap - push on 25mm² ABC</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Refer SERVICES Dwg. 1-4-10-1
Service cable not included. Refer CONSTRUCTION PRACTICES Dwg. 1-3-2-1
Streetlight pole looping service. Refer drawing 1-4-5-1 or 1-4-6-1.

NOTE:
Service fuse required at the start of looping service.

Eyebolt & eyenut steel and concrete streetlight poles

STREETLIGHT END
(Steel/Conc./Wood)

Assy 800-1

Assy 802-1

00

75 Min (wood pole only)

Assy 805-1 (Ergon Energy)
Assy 804-2 (Energex)

SuppLy EnD

Fully ribbed core is neutral

Drip loop

Mains Pole

Assy 802-6

Assy 801-6

Assy 801-5

Assy 804-1

Construction Type
SOHSL (Fittings)
NOTES:
1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.
2. Service fuse bracket position is diagrammatic only. Fit to suit direction of service.

NOTE: Refer SERVICES Dwg. 1-4-10-1. Service cable not included. Refer CONSTRUCTION PRACTICES Dwg. 1-3-2-1.

SERVICES
SINGLE OR 3 PHASE 25mm² LV ABC FROM OPEN WIRE MAINS TO STREETLIGHT - MATERIAL

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>805-1 Cartridge fuse link 80A HRC</td>
<td>2</td>
</tr>
<tr>
<td>804-2 6-35mm Aluminium / 4-35mm Copper Thru Connector</td>
<td>2</td>
</tr>
<tr>
<td>803-1 Saddle (20mm) to wood pole</td>
<td>2</td>
</tr>
<tr>
<td>804-3 AR Bracket cable support to crossarm</td>
<td>2</td>
</tr>
<tr>
<td>800-1 End cap - push on 25mm² ABC</td>
<td>2</td>
</tr>
<tr>
<td>800-4 6-35mm Aluminium / 4-35mm Copper Thru Connector</td>
<td>2</td>
</tr>
<tr>
<td>801-6 Fuse holder 100A (service) to bracket</td>
<td>2</td>
</tr>
<tr>
<td>801-5 Fuse service to wood pole</td>
<td>1</td>
</tr>
</tbody>
</table>

MATERIAL

<table>
<thead>
<tr>
<th>ASSYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>801-3 Peanut</td>
</tr>
<tr>
<td>801-4</td>
</tr>
<tr>
<td>801-5</td>
</tr>
<tr>
<td>801-6</td>
</tr>
<tr>
<td>801-7</td>
</tr>
<tr>
<td>801-8</td>
</tr>
<tr>
<td>801-9</td>
</tr>
</tbody>
</table>

Cartridge fuse link 80A HRC
Fuse holder 100A (service) to bracket
Streetlight pole looping service. Refer drawing 1-4-5-1 or 1-4-6-1.

NOTE:
Service fuse required at the start of looping service.

- Assay 800-1
- Assay 801-6
- Assay 802-1
- Assay 803-1 (300 intervals)
- Assay 803-6
- Assay Selection 804-6 or 7
- Assy 801-5
- Assy 802-6
- Assy 805-1 (Ergon Energy)
- Assy 804-2 (Energex)

**SUPPLY END**

- Streetlight pole looping service. Refer drawing 1-4-4-2.
- Cable to streetlight
- Fully ribbed core is neutral
- Assy 802-8 (300 Intervals)
- Assy 803-6 (300 Intervals)

**STREETLIGHT END**

- Steel and concrete streetlight poles
- Eyebolt & eyenut

**CONSTRUCTION TYPE**

- SOHSL (Fittings)

**LIGHTING SERVICES**

- Single or 3 phase 25 mm² LV ABC from open wire mains to streetlight - construction
Eyebolt positions are diagrammatic only. Fit to suit direction of service.

**ASSY** | **DESCRIPTION** | **QTY**
---|---|---
802-1 | Clamp strain to hook | 2 Phase 2 Phase
805-1 | End cap - push on 25mm² ABC | 2 4

**NOTE:**

1. Eyebolt positions are diagrammatic only. Fit to suit direction of service.
**MATERIAL**

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>1 Phase</th>
<th>3 Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>800-1</td>
<td>Hook service to wood pole</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>802-1</td>
<td>Clamp strain to hook</td>
<td>2</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>805-1</td>
<td>End cap - push on 25mm² ABC</td>
<td>2</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

**SOHSL CONSTRUCTION - Fittings**

**NOTES:**

1. All metalwork that passes through or into wood shall be greased for the entire length that may come into contact with the wood.

2. Service hook/eyebolt positions are diagrammatic only. Fit to suit direction of service.
### Material - At Pillar

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>801-1</td>
<td>Cartridge fuse link 32A HRC</td>
<td>1</td>
</tr>
<tr>
<td>838-1</td>
<td>Termination 16mm² &amp; 4mm² N/S cable</td>
<td>1</td>
</tr>
<tr>
<td>875-1</td>
<td>SL32A label for service fuse</td>
<td>1</td>
</tr>
</tbody>
</table>

Note:
Refer Dwg 1-4-15-1 for service from pillar details.

---

**SUGSL Construction - Fittings**

- Cartridge fuse link 32A HRC
- Termination 16mm² & 4mm² N/S cable
- SL32A label for service fuse

**Diagram Description**
- LV Pillar
- Connect neutral to top tunnel
- Assay 801-1
- Assay 838-1
- Cable installed in Conduit
- Caution tape
- Polymeric Cable Protection Cover
- Major or Minor Road streetlight pole location as req’d
- Terminal Panel
- BIG or BPM pole and foundation

---

**Lighting Services - Ergon Energy Only**

**Major & Minor Road**

- 16mm² & 4mm² Neutral Screened Cable at LV Pillar

**Drawings**
- EE DRWG NO: 1-4-7-1
- EGX DRWG NO: 10500-A4-1-4-7-1

**Approvals**
- C. Noel 24/04/13
- F. Zaini 24/04/13
- P. Relf / A. Bletchly 04/04/13

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

**Issue**
- 0B
### NOTES:

1. For applicable regional conduit depths, refer Underground Construction Manual, TRENCHING.
2. For slip base connection and crimping details refer drawing 1-5-9-10
3. Allow a minimum of 1m length of cable in pit for maintenance
4. Refer drawing 1-3-10-1 for location of pit relative to pole

---

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>831-1</td>
<td>Connection SBM pole to pit - including pit, lid &amp; JB (1 phase)</td>
<td>1</td>
</tr>
<tr>
<td>831-2</td>
<td>Connection SBM pole to pit - junction box only (1 phase)</td>
<td></td>
</tr>
<tr>
<td>867-1</td>
<td>Connection SBM pole to pit - including pit, lid &amp; JB (3 phase)</td>
<td></td>
</tr>
<tr>
<td>867-2</td>
<td>Connection SBM pole to pit - junction box only (3 phase)</td>
<td></td>
</tr>
<tr>
<td>907-1</td>
<td>Connection SBM pole to pit - including pit (Type B), lid &amp; JB (1 phase)</td>
<td></td>
</tr>
<tr>
<td>908-1</td>
<td>Connection SBM pole to pit - including pit (Type B), lid &amp; JB (3 phase)</td>
<td></td>
</tr>
</tbody>
</table>

---

**SLIP BASE CONNECTION**

- **Polymeric Cable Protection Cover**
- **To Luminaire**
- **Caution tape**
- **Slip Base Connection (Refer Note 2)**
- **2C 4mm² N/S cable**
  - I.I. No 2422178
- **Installed in conduit:**
  - 2C 4mm² N/S cable
  - I.I. No 2400260
  - 1C 6mm² earth cable
  - I.I. No 1542919

**SBM POLE, ADAPTOR AND FOUNDATION**

**VED-absorption Manual**

- **Construction Type**
  - SUG SL/SBM
  - SUG SL/SBM/3

---

**LIGHTING SERVICES**

**SBM STEEL POLE FROM LV PIT**

- **SINGLE & THREE PHASE**

**REFERENCE DRAWING**

- **ENERGEX**
  - EE DRWG NO: 1-4-8-1
  - EGX DRWG NO: 10500-A4-1-4-8-1

---

**DRAWN**

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

**APPROVED**

- C. Noel 01/05/18
- F. Zaini 01/05/18
- P. Relf / A. Bletchly 01/10/10

---

**NOTES**

- To Luminaire reference drawing 1-5-9-10
- Pit location refer note 4
- Refer regional trenching details
- Material: ASSY DESCRIPTION QTY
- SUG SL/SBM/3

---

**SERVICES**

- Ergon Energy Corporation Limited
  - ABN 40 078 849 055
- Energex Corporation Limited
  - ABN 50 087 646 062
**MATERIAL - Pit, lid and junction box/enclosure**

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>833-1</td>
<td>LV pit and lid type 4</td>
<td>1</td>
</tr>
<tr>
<td>833-2</td>
<td>LV pit and lid type 2</td>
<td>1</td>
</tr>
<tr>
<td>833-5</td>
<td>Junction box / enclosure &amp; cable insect protected</td>
<td>1</td>
</tr>
</tbody>
</table>

**MATERIAL - Junction box/enclosure**

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>833-5</td>
<td>Junction box / enclosure &amp; cable insect protected</td>
<td>1</td>
</tr>
</tbody>
</table>

**NOTE:**

1. * For applicable regional conduit depths, refer Underground Construction Manual, TRENCHING.

Allow minimum of 1m excess cables in pit for maintenance purposes.

Assy selection
833-1 or 2
Pit and lid

Assy Selection
833-5
Junction box / enclosure & cable terminations

Incoming & outgoing looping cables

To terminal panel in column

Refer regional trenching detail

Polymeric Cable Protection Cover

Cable installed in Conduit

Streetlight pole location as req'd

BIG or BPM pole and foundation

Construction Type

SUGSLL

LIGHTING SERVICES
MAJOR / MINOR ROAD
CABLE LOOPING FROM LV PIT

Approved Ergon
C. Noel 24/04/13

Approved Energex
F. Zaini 24/04/13

Checked
P. Relf / A. Blechly 04/04/13

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

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# Overhead Cable

<table>
<thead>
<tr>
<th>CABLE TYPE</th>
<th>CABLE TYPE REFERENCE NO.</th>
<th>S.C. NUMBER</th>
<th>CABLE DESCRIPTION</th>
<th>CABLE TYPE</th>
<th>CABLE TYPE REFERENCE NO.</th>
<th>S.C. NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>16153</td>
<td>2 x 25mm² ABC / XLPE</td>
<td>225</td>
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<td>1420045</td>
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<tr>
<td>4B25</td>
<td></td>
<td>16578</td>
<td>4 x 25mm² ABC / XLPE</td>
<td>425</td>
<td></td>
<td>1420051</td>
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<tr>
<td></td>
<td></td>
<td>17119</td>
<td>2 x 6mm² Cu ABC / XLPE</td>
<td>LV-6CUC2/507</td>
<td>507</td>
<td>1420068</td>
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</table>

# Underground Cable

<table>
<thead>
<tr>
<th>CABLE TYPE</th>
<th>CABLE TYPE REFERENCE NO.</th>
<th>S.C. NUMBER</th>
<th>CABLE DESCRIPTION</th>
<th>CABLE TYPE</th>
<th>CABLE TYPE REFERENCE NO.</th>
<th>S.C. NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>LVC216 PVPV</td>
<td></td>
<td>08727</td>
<td>LV 16mm² Cu 2 core PVC / PVC</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>LVC24 PVPV</td>
<td></td>
<td>07127</td>
<td>LV 4mm² Cu 2 core PVC / PVC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LVC416 XPV</td>
<td></td>
<td>07231</td>
<td>LV 16mm² Cu 4 core XLPE / PVC</td>
<td>LV-16CUC4/614</td>
<td>614</td>
<td>1632489</td>
</tr>
</tbody>
</table>

## Note:

1. Ergon Energy cable codes are included in the Overhead Construction Manual & Underground Construction Manual as applicable.
2. Energex conductor and cable codes are included in the Overhead Construction Manual and Underground Construction Manual as applicable.
Energex approved photo electric cell, if required

Customers illuminated sign or other non-standard luminaire

NICK'S ALL NIGHT TAVERNA

CUSTOMERS SWITCHBOARD Contractor to supply 16A HRC service fuse and / or 10A circuit breaker behind cover plate

Caution live cables excavation by hand tools only

Customer's cables installed at right angles to property alignment and on opposite side of pole from the oncoming traffic.

After installation the footpath / pavement shall be reinstated to suit local authority guidelines

SERVICE PILLAR EXISTING
Energex approved contractor to run customer's mains from pillar

ALTERNATIVELY
If supply is required from an underground service where there is no pillar, Energex will install a service pillar complete with service fuse. Underground cable from pillar to unmetered equipment will be customer's responsibility.

For supply other than pillar refer supply from existing public light pole terminal panel 1-2-876

TYPICAL NON-STANDARD LUMINAIRE DETAIL

Cu 2c PVC/PVC cable in heavy duty (orange) 40mm conduit (supplied and installed by the customers contractor)

TYPICAL ROUTE PLAN OF SERVICE

CUSTOMERS MAINS

Pole foundation to suit customers equipment

300mm min. radius bend or flexible conduit

Minimum cover in pavement

3200 Internal label indicating source of Energex supply

Customers steel pole

Illuminated street sign

Illuminated street sign

Marker tape

Footpath

R300

PILLAR

FOOTPATH

KERB

PLAN OF SERVICE

TYPICAL ROUTE

PLAN OF SERVICE

PLAN OF SERVICE

NIL

4927-A4-2.26

EE DRWG NO: 1-4-11-2

VOLUME FOLDER PAGE ISSUE

1 4 11-2 0B

LIGHTING SERVICES - ENERGEX ONLY
TYPICAL UNMETERED UNDERGROUND SUPPLY FOR NON STANDARD LUMINAIRE
NORMAL ORIENTATION OF POLE
PLAN VIEW

NOTES:
1. For footing details of poles refer
   Public Lighting Construction Manual.
   Major Road - BIG Section 1-5
   Minor Road - BIG Section 1-6
2. Supply for poles can be from a Pit or Pillar.
   for conduits - footpath & roadway.

<table>
<thead>
<tr>
<th>PART</th>
<th>DESCRIPTION</th>
<th>S.C.</th>
<th>QTY</th>
<th>PART</th>
<th>DESCRIPTION</th>
<th>S.C.</th>
<th>QTY</th>
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</thead>
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<tr>
<td>180</td>
<td>Cable, 2.5mm² 2c Flat PVC/PVC</td>
<td>07112</td>
<td>AR</td>
<td>275</td>
<td>Bend, Conduit, UPVC 40mm x 300mm</td>
<td>08514</td>
<td>AR</td>
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<tr>
<td>182</td>
<td>Cable, 4.0mm² 2c Flat PVC/PVC</td>
<td>07127</td>
<td>AR</td>
<td>276</td>
<td>Bend, Conduit, UPVC 40mm x 600mm</td>
<td>17030</td>
<td>AR</td>
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<tr>
<td>192</td>
<td>Cable, 16mm² 2c Flat PVC/PVC</td>
<td>08727</td>
<td>AR</td>
<td>279</td>
<td>Conduit, 40mm Rigid UPVC, Orange</td>
<td>08840</td>
<td>AR</td>
</tr>
<tr>
<td>216</td>
<td>Tape, U/G Marking, Orange 150mm</td>
<td>14318</td>
<td>AR</td>
<td>287</td>
<td>Adaptor, 40mm Rigid / 40mm Flexible</td>
<td>17122</td>
<td>AR</td>
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<tr>
<td>242</td>
<td>Conduit, 50mm ID Flexible, Orange</td>
<td>13538</td>
<td>AR</td>
<td>288</td>
<td>Conduit 40mm Flexible, Orange</td>
<td>17121</td>
<td>AR</td>
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</table>

LIGHTING
SERVICES - ENERGEX ONLY
MAJOR & MINOR ROAD BIG POLE
U/G SUPPLY TYPICAL INSTALLATION

HARD COPY UNCONTROLLED
1. For footing details of poles refer Public Lighting Construction Manual.
   - Major Road - BPM/SBM Section 1-5
   - Minor Road - BPM Section 1-6
2. Supply for poles can be from a Pit or Pillar.

**Notes:**

**Typical U/G Supply Arrangement**
(for roadway crossing refer specification URD)

---

**Diagram Details:**

- **To Terminal Panel**
- **Pole Details**
  - Typical Only
- **Ground Level**
- **Under Road Crossing**
- **Bottom Of Trench**
- **Major - Axial Road**
- **Minor Road**
- **Footpath**
- **Roadway**
- **Conduit, 40mm ID Flexible, Orange** (180)
- **Conduit, 50mm ID Flexible, Orange** (182)
- **Conduit, 16mm² 2c Flat PVC/PVC** (183)
- **Cable, 2.5mm² 2c Flat PVC/PVC** (184)
- **Cable, 4.0mm² 2c Flat PVC/PVC** (185)
- **Cable, 16mm² 2c Flat PVC/PVC** (186)
- **Tape, U/G Marking, Orange 150mm** (187)
- **Conduit, 40mm Rigid UPVC, Orange** (188)
- **Bend, Conduit, UPVC 40mm x 300mm** (189)
- **Bend, Conduit, UPVC 40mm x 600mm** (190)
- **Adaptor, 40mm Rigid / 40mm Flexible** (191)
- **Conduit, 40mm Flexible, Orange** (192)
- **Conduit, 40mm Rigid UPVC, Orange** (193)

---

**Table:**

<table>
<thead>
<tr>
<th>PART</th>
<th>DESCRIPTION</th>
<th>S.C.</th>
<th>QTY</th>
<th>PART</th>
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<th>S.C.</th>
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<td>07127</td>
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<td>08727</td>
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<td>14318</td>
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<td>06640</td>
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<td>1200</td>
<td>Roadway</td>
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<td>600</td>
<td>Footpath</td>
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<td>750</td>
<td>Under Road Crossing</td>
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<td></td>
<td>300</td>
<td>Ground Level</td>
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**Drawing Information:**

- **EE DRWGS NO:** 14-12-2
- **LIGHTING SERVICES - ENERGEX ONLY MAJOR & MINOR ROAD BPM POLE U/G SUPPLY TYPICAL INSTALLATION**
- **DRAWN:** L. Burton / T. Borg 01/10/10
- **ISSUE:** 0A

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**References:**

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- ABN 40 087 646 062
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**MATERIAL**

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
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<tbody>
<tr>
<td>875-1</td>
<td>SL32A label for service fuse</td>
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</tr>
<tr>
<td>801-1</td>
<td>Cartridge fuse link 32A HRC</td>
<td></td>
</tr>
</tbody>
</table>

**LIGHTING SERVICES**

**MAJOR / MINOR ROAD STREETLIGHT SERVICE FROM PILLAR**

- **Assy 875-1**: SL32A label for service fuse
- **Assy 801-1**: Cartridge fuse link 32A HRC

**Diagram Details**

- Property Alignment Nom: 125
- Consumers Mains To Earth Rod: 600 Min
- Diagram showing the connection of Consumers Mains to Earth Rod via Assay 875-1 and Assay 801-1.
### NOTES:

1. Locate cable on opposite side of pole to oncoming traffic where possible.
2. Do not obstruct climbing access.
3. Polymeric cable guard is not to be used in areas:
   - subject to grass fire
   - where metal bladed brush cutter may be used
   - where there is a high likelihood of impact
4. Refer Earthing section of the Overhead Construction Manual for minimum separation requirements between metal cable guard and communication assets.
5. An M.E.N earth is to be installed at the pole.

### MATERIAL

<table>
<thead>
<tr>
<th>ASSY</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>801-1</td>
<td>Cartridge fuse link 32A HRC</td>
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</tr>
<tr>
<td>801-6</td>
<td>Fuse holder 100A (service) to bracket</td>
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</tr>
<tr>
<td>802-6</td>
<td>Bracket (service fuse) to wood pole</td>
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</tr>
<tr>
<td>803-1</td>
<td>Saddle (20mm) to wood pole</td>
<td>1</td>
</tr>
<tr>
<td>804-1</td>
<td>Connector I.P.C 25/95mm² main to 6/35mm² tap</td>
<td>2</td>
</tr>
<tr>
<td>804-6</td>
<td>Connector tap-off bare aluminium main</td>
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</tr>
<tr>
<td>804-7</td>
<td>Connector tap-off bare copper main</td>
<td></td>
</tr>
<tr>
<td>909-1</td>
<td>Guard polymeric (small) to wood pole</td>
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</tr>
<tr>
<td>909-7</td>
<td>Guard metal (100) to wood pole</td>
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</tr>
<tr>
<td>910-1</td>
<td>Termination 16mm² N/S cable</td>
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</tr>
<tr>
<td>910-5</td>
<td>Bridging cable 25mm² LVABC transformer</td>
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### LIGHTING SERVICES - ERGON ONLY

UNDERGROUND FROM OVERHEAD SYSTEM

NOTES AND MATERIAL

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**A** ORIGINAL ISSUE

**REFERENCE DRAWING ENERGEX**

**REFERENCE DRAWING ERGON**

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**EE DRWG NO:** 1-4-16-1

**EGX DRWG NO:** 10500-A4-1-4-16-1

**VOLUME** | **FOLDER** | **PAGE** | **ISSUE**
---|---|---|---
1 | 4 | 16-1 | 0A

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Metal cable guard shall be earthed. Refer Overhead Construction Manual.

EARTHING for pole and cable guard earthing details.