### Ergon Energy Document Revision List

**Project:** Sub-Transmission Construction Manual  
**Electronic - Website Version**

<table>
<thead>
<tr>
<th>Section Title / Drawing Number</th>
<th>Current Published</th>
<th>Issued Document Revision Number:</th>
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<td><strong>Section 20 - Pages 116-1 to 116-10 Ver 2 (3.8 MB)</strong></td>
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Degree symbols in the title boxes are displayed as %D. This does not affect the accuracy of the drawings. This will be resolved in the next revision.
NOTES
1. Orientation is measured clockwise when looking down on pole tip.
2. Bracketed fittings require +/- 2 mm tolerance between them and +/- 2 mm orientation tolerance.
3. Longitudinal capacities to be not less than transverse capacities.
4. Stainless steel tubes are to be accurately positioned and free from concrete and deformity.
5. A nominal Ø10 vent hole is required at the centre of the through tube provided for square rigging.
6. No subsidiary to be incorporated on 18m poles.

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-168-8 for Pole Construction
### Name Plate Information

<table>
<thead>
<tr>
<th>PART DESCRIPTION</th>
<th>M16 ferrule (25mm thread)</th>
<th>M16 earth ferrule on 335 PCD (40mm thread)</th>
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<tr>
<td>Material Type</td>
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<td>Stainless / Marine Grade</td>
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<td>C6RDVS926DDL</td>
<td>C6RDVS926DDE</td>
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<td>Description</td>
<td>Fall Arrest Bracket and Step bolt to pole</td>
<td>Fall Arrest Bracket and Step bolt to pole</td>
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### Notes

1. Orientation is measured clockwise when looking down on pole tip.
2. Bracketed fittings require +/- 2 mm tolerance between them and +/- 2mm orientation tolerance.
3. Longitudinal capacities to be not less than transverse capacities.
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6. No subsidiary to be incorporated on 21m rural strain poles.

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-168-8 for Pole Construction

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### Drawing References

- Refer dwg 5-20-116-02
- Refer dwg 5-7-3-2
- Refer dwg 5-4-168-8

### Specifications

- **Limit State Design Load (kN)**: 80
- **Pole Diameter (mm)**: 405
- **Butt Diameter (mm)**: 720
- **Deviation Angle (%)**: 95 - 105°
- **Planting Depth (m)**: 4.2 (normal soil)
- **Planting Depth (m)**: 4.7 (black soil)
- **Structure Type**: C6RDVS926DDL / C6RDVS926DDE
- **Stock Code**: 2446185

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### Table

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- **Manufacturers Name/Trade Mark**: ERGON ENERGY
- **Basic Mark**: ST/05/06650/00
- **Stock Code**: 2446185
- **Part Number**: C6RDVS926DDL / C6RDVS926DDE
- **Issue**: 1
- **Printing**: 0B
- **Drawing Number**: 5-20-116-02
- **Additional Information**: M16 earth ferrule on 335 PCD (40mm thread length)

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### Diagram

- **Drawing Number**: 5-20-116-02
- **Stock Code**: 2446185
- **Issue**: 0B
- **Drawing Description**: Double CCT Rural Vertical Strain 95° - 105° Pole

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### Plot

- **Pole Butt**: Reference Plane
- **Top Phase Flanged Eye Bolt (M20)**: 32 OD S/S tube
- **Middle Phase Flanged Eye Bolt (M20)**: 38 OD S/S tube
- **Bottom Phase Flanged Eye Bolt (M20)**: 32 OD S/S tube
- **Tip Ring**: For maintenance purpose
- **Lower bisect Stay Bracket Bottom Bolt (M24)**: 32 OD S/S tube for M24 bolt
- **Lower bisect Stay Bracket Top Bolt (M24)**: 32 OD S/S tube for M24 bolt
- **5mm galv cross wires**: 900 mm poy, cross wires (access barrier)
- **5mm galv cross wires**: 990 mm poy, cross wires (access barrier)
- **5mm galv cross wires**: 960 mm poy, cross wires (access barrier)
- **5mm galv cross wires**: 930 mm poy, cross wires (access barrier)

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### Additional Information

- **Refer dwg 5-7-3-2 for Foundations
- **Refer dwg 5-4-168-8 for Pole Construction

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### Technical Details

- **Overhead Sub-Transmission**: 3KV Conical Pole Manufacturing Details
- **Double CCT Rural Vertical Strain 95° - 105° Pole ANGLE**: 21m x 69N Pole
1. Orientation is measured clockwise when looking down on pole tip.
2. Bracketed fittings require ± 2 mm tolerance between them and ±1 mm orientation tolerance.
3. Longitudinal capacities to be not less than transverse capacities.
4. Stainless steel tubes are to be accurately positioned and free from concrete and deformity.
5. A nominal Ø10 vent hole is required at the centre of the through tube provided for square rigging.

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-168-8 for Poli Construction
NOTES
1. Orientation is measured clockwise when looking down on pole tip.
2. Bracketed fittings require +/- 2 mm tolerance between them and +/- 2mm orientation tolerance.
3. Longitudinal capacities to be not less than transverse capacities.
4. Stainless steel tubes are to be accurately positioned and free from concrete and deformity.
5. A nominal 010 vent hole is required at the centre of the through tube provided for square rigging.
6. No subsidiary to be incorporated on 18m poles.

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-168-8 for Pole Construction
### 66kV CONCRETE POLE MANUFACTURING DETAILS

#### STRUCTURE TYPE
- **5.2m BLACK SOIL**
- **4.7m NORMAL SOIL**
- **3.0m FULLY STAYED**
- **2.8m VERTICAL STRINGER**

#### NAME PLATE INFORMATION
- **NAME PLATE**
- **STOCK CODE**

#### DISTANCE FROM TIP (mm)
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#### FITTING DESCRIPTION
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#### TUBULAR MATERIALS
- **32 OD S/S tube**
- **25 OD S/S tube**
- **22 OD S/S tube**
- **709**

#### NOTES
1. Orientation is measured clockwise when looking down on pole tip.
2. Braced fittings require +1 -2 mm tolerance between them and +/- 2mm orientation tolerance.
3. Longitudinal capacities to be not less than transverse capacities.
4. Stainless steel tubes are to be accurately positioned and free from concrete and deformity.
5. A nominal Ø10 vent hole is required at the centre of the through tube provided for square rigging.
6. No subsidiary to be incorporated on 21m rural strain poles.

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-168-8 for Pole Construction

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### OVERHEAD SUB-TRANSMISSION

#### 66kV CONCRETE POLE MANUFACTURING DETAILS

#### DRAWING NUMBER:
- **5-20-116-7**

#### ISSUE:
- **5**

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**Drawn:** P THOMAS
**Checked:** R MARGANI
**Approved:** P DE SOUSA ROQUE

**DATE:** 14/03/2016
**NOTES:**
1. Orientation is measured clock-wise when looking down on pole tip.
2. Bracketed fittings require +/- 2 mm tolerance between them and +/- 2 mm orientation tolerance.
3. Stainless steel tubes are to be accurately positioned and free from concrete and deformity.
4. A nominal Ø10 vent hole is required at the centre of the through tube provided for square rigging.

Refer dwg 5-7-3-2 for Foundations
Refer dwg 5-4-168-8 for Pole Construction
**ORIENTATION**

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