OVERHEAD SUB-TRANSMISSION CONSTRUCTION MANUAL

STAY CONSTRUCTIONS
<table>
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<th>CONSTRUCTION</th>
<th>DESCRIPTION</th>
<th>DWG No.</th>
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<td>Single Ground Stay with insulator for Bracket Attachment - Material List</td>
<td>5-5-3-2</td>
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<td>SGNB10</td>
<td>Single Ground Stay with insulator for Bracket Attachment - Stay Construction</td>
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</table>
Non-standard staywire and/or stay anchor drawing numbers shall be entered into the "Remarks" field in Smallworld.

2. No materials are associated with these codes.

3. If the non-standard construction is likely to be used on future projects then consider beforehand creating a standard construction code.

4. A non-standard sidewalk stay shall be coded SG.
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</table>
Notes:
1. The end of the insulator closest to the pole shall be located so that it is below the lowest conductor or equipment live point if the stay is broken.
2. Exposed galvanised steel shall be nominally 500mm above ground.
3. Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.
4. All Concrete is to be vibrated
5. If using two ground stays off one bracket come off wing plates.
Notes:
1. Exposed galvanised steel shall be nominally 500mm above ground.
2. Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.
3. All Concrete is to be vibrated
4. If using two ground stays off one bracket come off wing plates.

Anchor Assy Selection
Assy 1276-1 (concrete bedlog) or
Assy 1277-1 (inclined soil / rock) or
Assy 1278-1 (mass concrete - 1 rod) or
Assy 1279-1 (vertical pier)

Construction Types
SGNB10CB
SGNB10SA
SGNB10MS
SGNB10VP
## Material - Double Ground Stay - Single Footing

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</table>
Notes:
1. The end of the insulator closest to the pole shall be located so that it is below the lowest conductor or equipment live point if the stay is broken.
2. Exposed galvanised steel shall be nominally 500mm above ground.
3. Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.
4. All concrete is to be vibrated.

Assy 1271-2 (Double Ground Staywire)

500 Minimum Separation

Assy Selection
Anchor
Assy 1276-2 (concrete bedlog) or
Assy 1277-2 (inclined soil / rock) or
Assy 1278-2 (mass concrete 1 rod) or
Assy 1280-1 (vertical pier)

All concrete is to be vibrated.

2700mm minimum and below lowest conductor or live equipment point

SGCB20CB
SGCB20SA
SGCB20MS
SGCB20VP

Refer note 1

Construction Code

Elevation

Refer Note 1

Assy 1271-2
(Double Ground Staywire)

500 Nominal Refer note 2

2700 min

Refer note 2

500 Nominal

OVERHEAD SUB-TRANSMISSION
POLE STAY CONSTRUCTION
DOUBLE GROUNDSTAY WITH INSULATOR
SINGLE FOOTING

Construction Code

SGCB20CB
SGCB20SA
SGCB20MS
SGCB20VP

Overhead sub-transmission pole stay construction double groundstay with insulator single footing

Notes:
1. The end of the insulator closest to the pole shall be located so that it is below the lowest conductor or equipment live point if the stay is broken.
2. Exposed galvanised steel shall be nominally 500mm above ground.
3. Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.
4. All concrete is to be vibrated.

Assy 1271-2 (Double Ground Staywire)

500 Minimum Separation

Assy Selection
Anchor
Assy 1276-2 (concrete bedlog) or
Assy 1277-2 (inclined soil / rock) or
Assy 1278-2 (mass concrete 1 rod) or
Assy 1280-1 (vertical pier)

All concrete is to be vibrated.

2700mm minimum and below lowest conductor or live equipment point

SGCB20CB
SGCB20SA
SGCB20MS
SGCB20VP

Refer note 1

Construction Code

Elevation

Refer Note 1

Assy 1271-2
(Double Ground Staywire)

500 Nominal Refer note 2

2700 min

Refer note 2

500 Nominal
Notes:
1. Exposed galvanised steel shall be nominally 500mm above ground.
2. Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.
3. All concrete is to be vibrated

Assy 1271-1
(Double Ground Staywire)

Assy Selection
Anchor
Assy 1276-2 (concrete bedlog) or
Assy 1277-2 (inclined soil / rock) or
Assy 1278-2 (mass concrete 1 rod) or
Assy 1280-1 (vertical pier)
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Notes:

1. The end of the insulator closest to the pole shall be located so that it is below the lowest conductor or equipment live point if the stay is broken.
2. Exposed galvanised steel shall be nominally 500mm above ground.
3. Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.
4. All concrete is to be vibrated.

Assy 1270-2 (Single Ground Staywire)

Assy 1278-3 (mass concrete 2 rods)

Refer Note 1

Refer Note 2

2700mm minimum and below lowest conductor or live equipment point

500 Nominal
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**Material** - 2 x Single Staywire (Splayed) - 2 x Single Footing

**Stay Anchors**
- M36 Concrete Bedlog
- M36 Inclined soil/rock
- M36 Mass Concrete - 1 rod
- Vertical Pier (600Dia)

**Ergon Energy Corporation Ltd**
ABN 50 087 646 062

Approved: C NOEL
Date: 17/10/2013
Checked: P DE SOUSA ROQUE
Drawn: L OTTAWAY
Notes:

1. The end of the insulator closest to the pole shall be located so that it is below the lowest conductor or equipment live point if the stay is broken.
2. Exposed galvanised steel shall be nominally 500mm above ground.
3. Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.
4. All concrete is to be vibrated

2. Exposed galvanised steel shall be nominally 500mm above ground.

3. Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.

4. All concrete is to be vibrated
MATERIAL

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NOTES:
1. For double aerial stay use additional lower stay as shown above.
2. Use only upper shown stay for single aerial stay option.
3. The end of the insulator closest to the pole shall be located so that it is below the lowest conductor or equipment live point if the stay is broken.

OVERHEAD SUB-TRANSMISSION
STAY CONSTRUCTIONS
AERIAL STAY

Construction Code
SACB10
SACNB10
SACB20
SACNB20

Use only for dual stay option. See note.

Refer Note 3

2700mm minimum and below lowest conductor or live equipment point
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<td>Single Ground Staywire - Without Insulator</td>
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<td>1280-1</td>
<td>Stay Anchors - Vertical Pier (1100Dia)</td>
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</table>

**Description:***
- **MATERIAL - DOUBLE GROUND STAY**
- **POLE STAY CONSTRUCTION**
- **DOUBLE GROUNDSTAY WITH INSULATOR**
- **DOUBLE FOUNDATION - MATERIAL**

**Drawn by:**
- L. Burton

**Approved by:**
- C. Noel

**Date:**
- 18/11/2012

**Checked by:**
- P. De Sousa Roque

**Ergon Energy Corporation Ltd**
- ABN 50 087 646 062

**Drawing Number:**
- 5-5-6-2
Notes:
1. The end of the insulator closest to the pole shall be located so that it is below the lowest conductor or equipment live point if the stay is broken.
2. Exposed galvanised steel shall be nominally 500mm above ground.
3. Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.
4. All concrete is to be vibrated

Assy Selection
Anchor
Assy 1276-2 (concrete bedlog) or
Assy 1277-2 (inclined soil / rock) or
Assy 1278-2 (mass concrete 1 rod) or
Assy 1278-3 (mass concrete 2 rods) or
Assy 1280-1 (vertical pier)

Notes:
- The end of the insulator closest to the pole shall be located so that it is below the lowest conductor or equipment live point if the stay is broken.
- Exposed galvanised steel shall be nominally 500mm above ground.
- Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.
- All concrete is to be vibrated

Construction Code
SGCB30CB
SGCB30SA
SGCB30MS
SGCB30MD
SGCB30VP

ELEVATION

Refer Note 1

Refer Note 2
1. Exposed galvanised steel shall be nominally 500mm above ground.
2. Stayed poles shall be raked one half (½) pole head diameter, backfilled and raked an additional one half (½) pole head diameter by tensioning the stays.
3. All concrete is to be vibrated.

Notes:

Assy Selection
Anchor
Assy 1276-2 (concrete bedlog) or
Assy 1277-2 (inclined soil / rock) or
Assy 1278-2 (mass concrete 1 rod) or
Assy 1278-3 (mass concrete 2 rods) or
Assy 1280-1 (vertical pier)

Constructions Code
SGNB30CB
SGNB30SA
SGNB30MS
SGNB30MD
SGNB30VP

ELEVATION

Assy 1270-1

500 Nominal Refer note 2

VIEW ON A-A

30° or 45°

Overhead Sub-Transmission

Pole Stay Construction

Double Groundstay Without Insulator

Double Foundation

Drawing Number: 5-5-6-4

Volume: 5
Folder: 5
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