

Balblair Rationalisation Scheme

This scheme is covered in the government decision letter item 18 and covers the area to the north of Beauly Substation with reference made to document APL INV22.

The details contained herein are subject to design(s), routes and material availability being verified and cannot be relied upon at this stage.

1. Grudie Bridge 132kV Undergrounding

2.4km of Double Circuit 132kV line undergrounded with approx 3.5km of double circuit cable on the BFS/BFN route from Beauly Substation, Tower numbers 109 - 117. This covers new cable sealing end structure in Beauly and a new Terminal with Sealing End Platform at or near existing tower position 109.

2. Shin 132kV Undergrounding

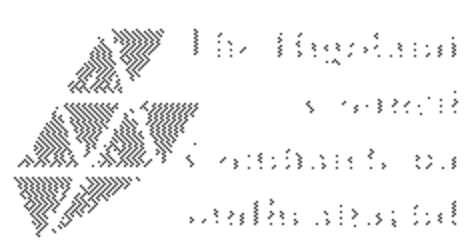
1.8km of Double Circuit 132kV line undergrounded with approx 1.9km of double circuit cable on the BSW/BSE route from Beauly Substation, Tower numbers 1 - 7. This covers new cable sealing end structure in Beauly and a new Terminal with Sealing End Platform at or near existing tower position 7.

3. Inverness 132kV Undergrounding

2.1km of Double Circuit 132kV line undergrounded with approx 2.6km of double circuit cable on the BIN/BIS route from Beauly Substation, Tower numbers 1 - 8. This covers new cable sealing end structure in Beauly and a new Terminal with Sealing End Platform at or near existing tower position 8.

4. Dounreay 275kV Tower Lowering

2.5km of Double Circuit 275kV line from 464 – 474 to be reviewed for lowering and repositioning as a consequence of undergrounding the under-running 132kV circuits.



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1. Grudie Bridge 132kV Undergrounding

Scope of Works.

The undergrounding of 2.4km of the existing Beauly – Grudie Bridge (BFN/BFS) double circuit 132kV line from Beauly substation to a new terminal tower with sealing end platform at or near tower 109.

Construction Issues.

This area north of Beauly is mainly agricultural heading into forestry at the terminal tower position. The cable route appears to have two main options as shown on the plan.

Environmental Issues.

Much of the area for the new route will have had some environmental assessments carried out as part of the Western Isles cable route.

Environmental scoping / screening will be undertaken with planning authorities and consultees followed by completion of the agreed suitable and appropriate environmental assessments with recommendations and limitations being fully integrated within the planned works to minimise and mitigate any impacts on the natural environment.

Programme.

Initial Design Proposals, Mar 2010

Environmental Works, Mar 2010 – Mar 2011

Detailed Design and Planning, April 2010 – Dec 2010

Start on Site, Apr 2011

Completion, Jun 2011

Legacy.

This undergrounding along with the other Balblair rationalisation works will clear the tower line wirescape to the north of Balblair.

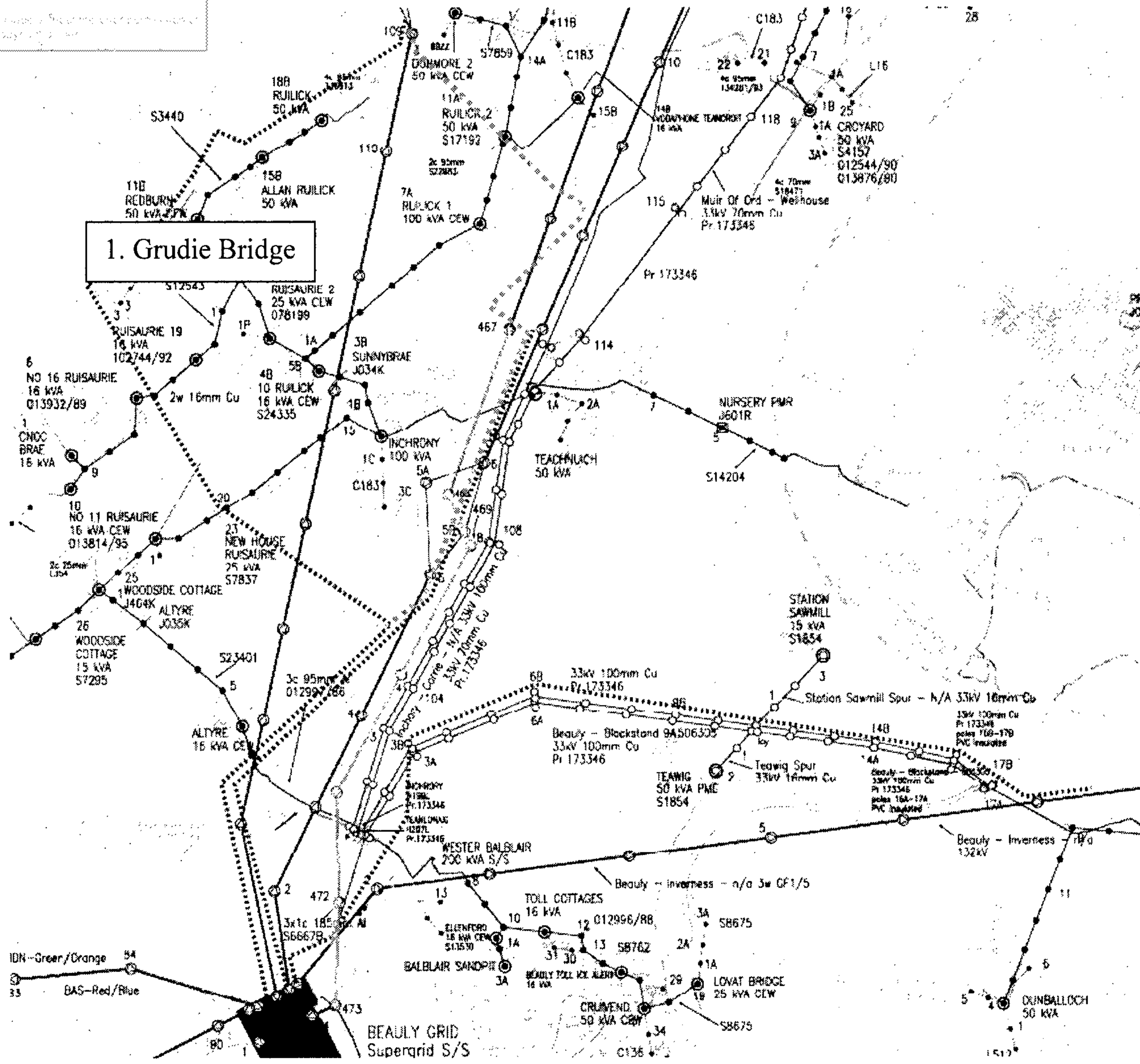


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This drawing is a preliminary design and is subject to change without notice. It is not to be used for construction purposes without the written approval of the Highland Council.

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2. Shin 132kV Undergrounding

Scope of Works.

The undergrounding of 1.8km of the existing Beauly – Shin (BSW/BSE) double circuit 132kV line with 1.9km of double circuit cable from new sealing end structures at Beauly substation to a new terminal tower with sealing end platform at or near tower 7.

Construction Issues.

This area north of Beauly is mainly agricultural heading into woodland at the terminal tower position. The proposed cable route appears is shown on the plan, part of this route maybe shared with the Beauly – Grudie Bridge undergrounding.

Environmental Issues.

Much of the area for the new route will have had some environmental assessments carried out as part of the Western Isles cable route.

Environmental scoping / screening will be undertaken with planning authorities and consultees followed by completion of the agreed suitable and appropriate environmental assessments with recommendations and limitations being fully integrated within the planned works to minimise and mitigate any impacts on the natural environment.

Programme.

Initial Design Proposals, Mar 2010

Environmental Works, Mar 2010 – Mar 2011

Detailed Design and Planning, April 2010 – Dec 2010

Start on Site, Apr 2011

Completion, Jun 2011

Legacy.

This undergrounding along with the other Balblair rationalisation works will clear the tower line wirescape to the north of Beauly. It does however add a significant cable section into the BSW/BSE circuits. Contingency / post fault restoration plans should be considered.



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Vannanle ba
caunh abairid

Plan a project and the impact on the environment and the community. The Highland Council will help you to do this.

It is important to have a plan for the impact on the environment and the community. The Highland Council will help you to do this.

Further information is available on the website of the Highland Council.

3. Inverness 132kV Undergrounding

Scope of Works.

The undergrounding of 2.1km of the existing Beauly - Inverness (BIN/BIS) double circuit 132kV line with 2.6km of double circuit cable from new sealing end structures at Beauly substation to a new terminal tower with sealing end platform at or near tower 8.

Construction Issues.

The existing line crosses a mix of terrain going through the village of Balblair, agricultural land, crossing the river Ness and a caravan park. The proposed route of the cable goes to the north of Balblair following the 33kV lines and crosses the River across from the new Terminal Position at tower 8. Alternatives routes will also be considered with view to crossings the river at existig road and rail bridges.

Environmental Issues.

None of this route has been covered with previous environmental works. Environmental scoping / screening will be undertaken with planning authorities and consultees followed by completion of the agreed suitable and appropriate environmental assessments with recommendations and limitations being fully integrated within the planned works to minimise and mitigate any impacts on the natural environment.

Programme.

Intial Design Proposals, Mar 2010

Environmental Works, Mar 2010 – Mar 2011

Detailed Design and Planning, April 2010 – Dec 2010

Start on Site, Apr 2011

Completion, Jun 2011

Legacy.

This undergrounding along with the other Balblair rationalisation works will clear the tower line wirescape to the north and east of Balblair.

4. Dounreay 275kV Tower Lowering

Scope of Works.

The lowering and repositioning of towers along the first 2.5km of the Dounreay 275kV circuit out of Beauly substation. This is to be considered due to the undergrounding of the under-running 132kV lines.

Construction Issues.

This area north of Beauly is mainly agricultural heading into woodland where the proposed Shin undergrounding will come back onto overhead. The tower to the west of Balblair has been specifically mentioned for lowering and the remaining line to be investigated.

Environmental Issues.

This route runs along a similar route to the Shin line and would be included with the Beauly - Shin environmental works. The line will remain overhead.

Environmental scoping / screening will be undertaken with planning authorities and consultees followed by completion of the agreed suitable and appropriate environmental assessments with recommendations and limitations being fully integrated within the planned works to minimise and mitigate any impacts on the natural environment.

Programme.

Initial Design Proposals, Mar 2010

Environmental Works, Mar 2010 – Mar 2011

Detailed Design and Planning, April 2010 – May 2011

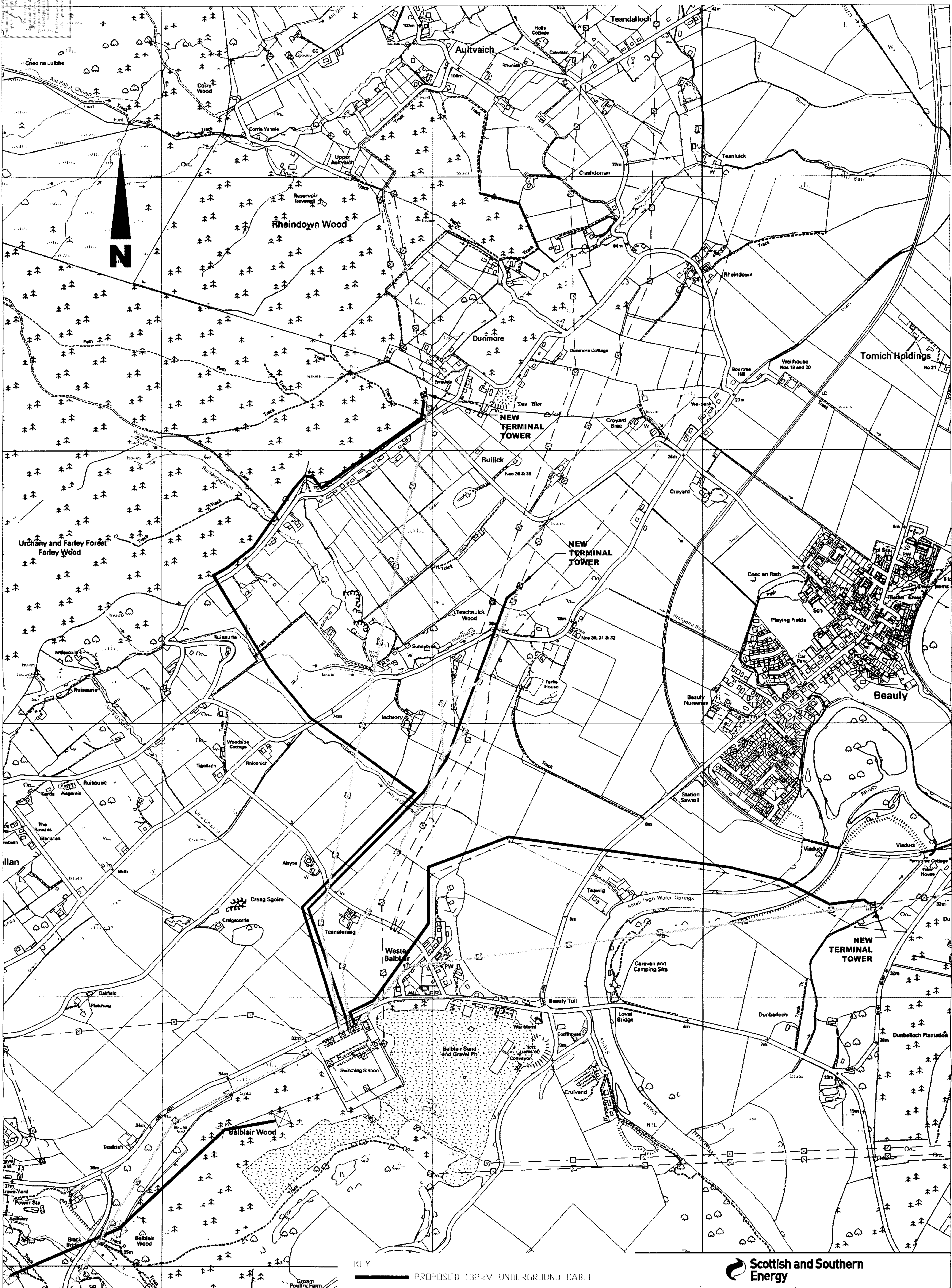
Start on Site, Sep 2011

Completion, Apr 2012

Legacy.

The lowering and repositioning of the Beauly – Dounreay 275kV line will help with the wirescape of the area to the north of Beauly. It is not required to be carried out early as part of the government decision but an early completion would assist with other projects being carried out during the main build period.

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KEY
 — PROPOSED 132kV UNDERGROUND CABLE
 - - - PROPOSED 132kV OHL TO BE DISMANTLED
 — PROPOSED 400kV BEAULY-DENNY OHL

WARNING: DRAWING MAY BE REDUCED. DO NOT SCALE.

REV	Date	Drwn	Chkd	Appd	REV	Date	Drwn	Chkd	Appd	REV	Date	Drwn	Chkd	Appd

Scottish and Southern Energy
 Project Number: C33302 Drawing Status: FOR INFORMATION
 Title: BEAULY - DENNY 400kV OVERHEAD LINE DISMANTLEMENT OF EXISTING 132kV OHL'S NORTH OF BEAULY
 Location: BYDY SSE Drawing Number: 10172-bydy ShtNo: 07 RevNo: 00

DATE: 13/03/07
 SCALE: 1:12,500@a3
 DRAWN: JDD
 CHECKED: P.L.
 APPROVED: P.L.