



**SCOTTISHPOWER**

SP Transmission Ltd

**East Coast 400kV Reinforcement Project  
(Blairingone to Kincardine)**

**Environmental Statement  
Volume 2: Figures Plates and Technical Drawings**

October 2013

This document has been produced for Scottish Power Energy Networks to support a planning application for an upgrade of the existing overhead line route between Kincardine and the SHETL Boundary at Blairingone.

The document has been compiled by



In conjunction with the following Companies



Document Status	7@ ° O
EnviroCentre Document No	5596
EnviroCentre Project No	163328J
Document No	02
Revision No	00



# Upgrade of Existing XL Overhead Line Route from Kincardine to SHETL Boundary at Blairingone

## Environmental Statement

### Volume 2: Figures, Plates and Technical Drawings

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Plate 10: An example of typical tower foundation works

Plate 11: An example of a conductor drum and tensioner winch

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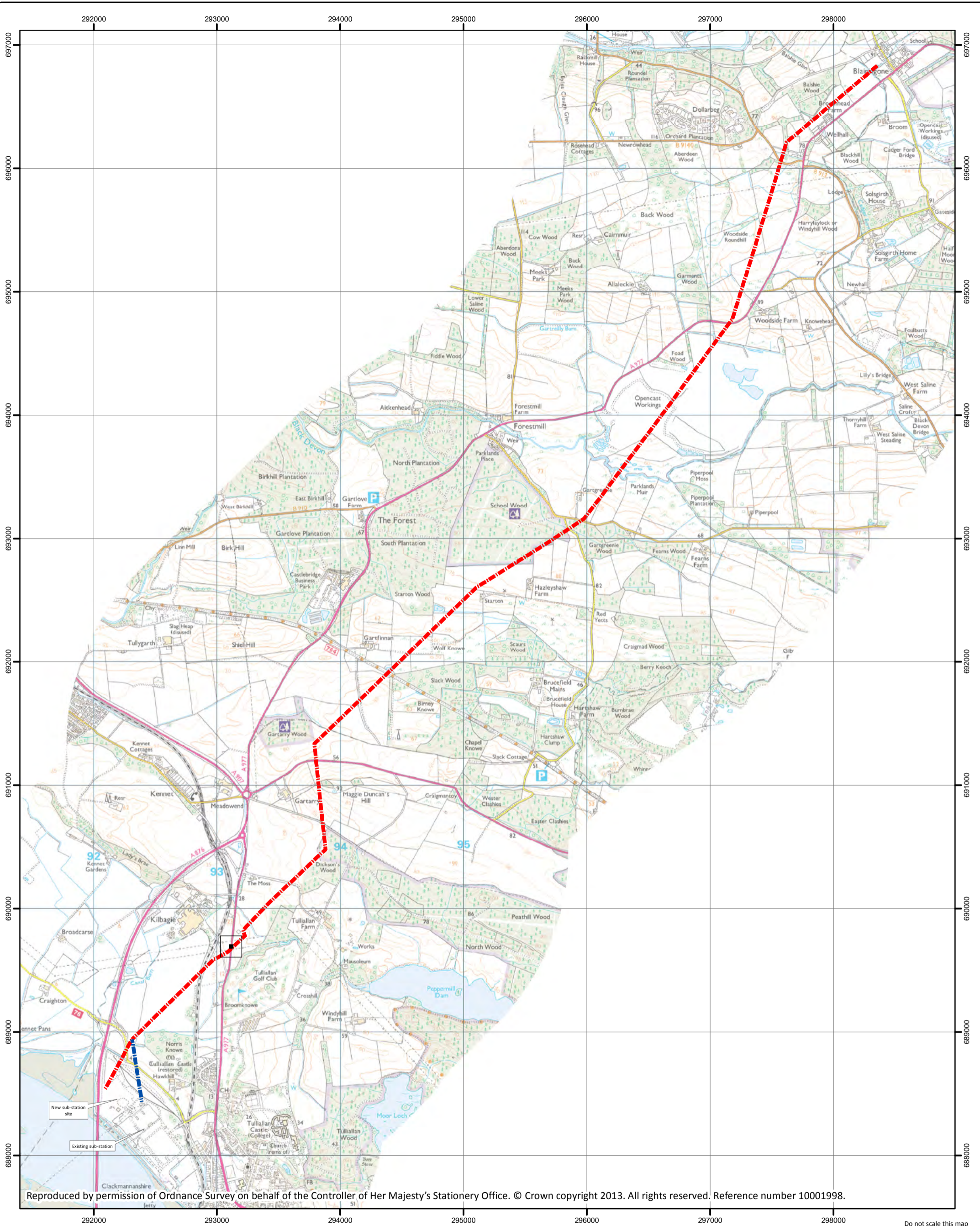
#### Technical Drawings

Drawing No. SP4105140: Kincardine 400/275kV GIS Substation Conceptual Planning Layout

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Drawing No. 185D-1-4100-DA-IECEE-0003: Underground Cable and Low level Gantry Option at OHL Route  
Crossing at Kilbagie

## Figures

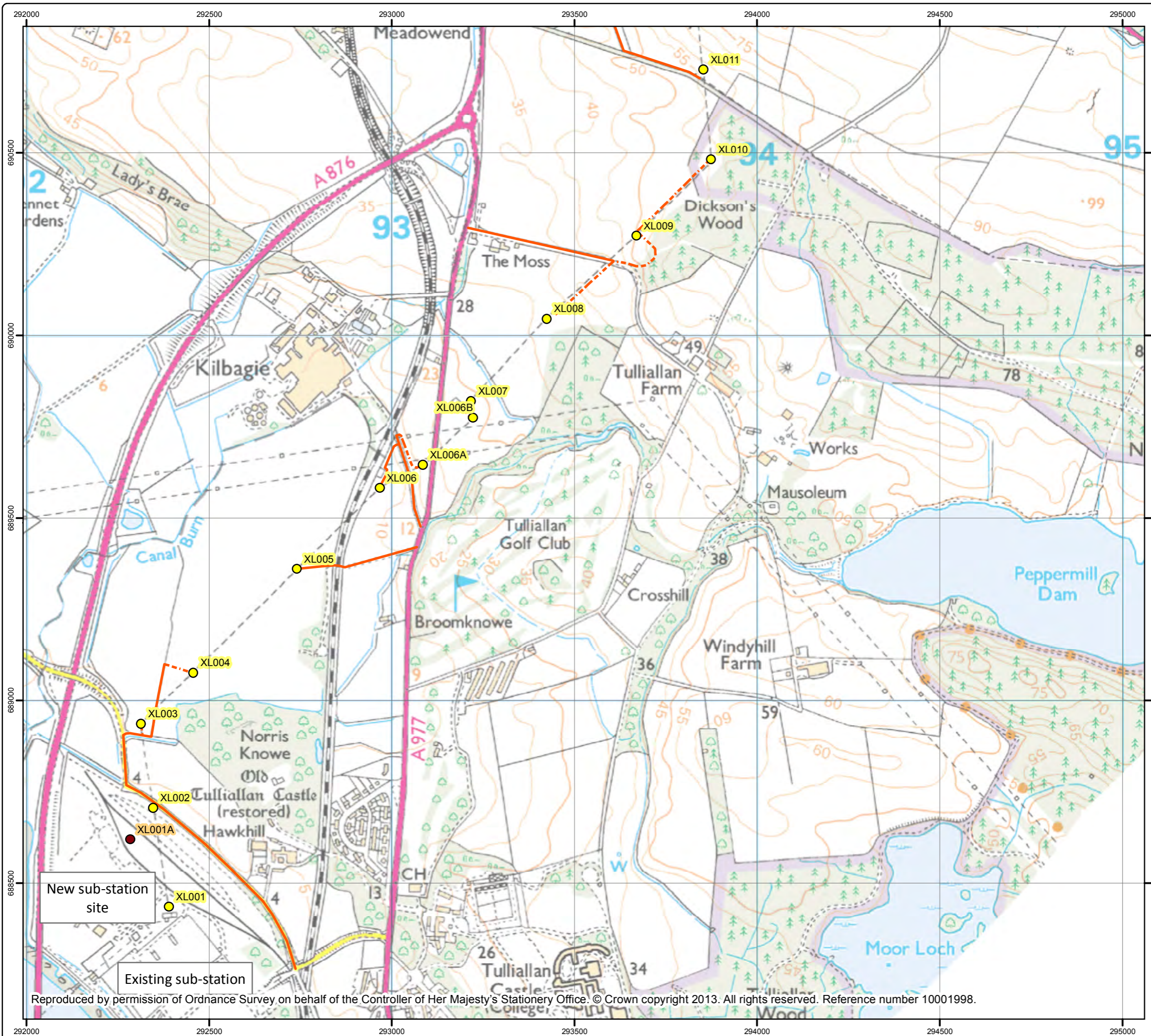


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- Legend**
- Proposed Changes to Undergrounding at this Location
  - Proposed Power Line Corridor
  - Tower Line to be Removed

Client <b>Scottish Power Energy Networks</b>	
Project <b>Proposed Upgrade of Existing Overhead Line from Kincardine to SHETL Boundary at Blairingone</b>	
Title <b>Figure 1- OHL Route and Substation Location</b>	

Status <b>FINAL</b>	Revision
Drawing No. <b>163328_004</b>	Revision
Scale <b>1:28,000</b>	Date <b>1st Oct 2013</b>
Drawn <b>SD</b>	Checked <b>MN</b>
Approved <b>PD</b>	
	
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**Legend**

- Proposed Towers
- Existing Towers
- - - Open Ground Access
- Established Access Route

Do not scale this map  
 Client  
 SP Energy Networks

Project  
 Kincardine to Blairingone Overhead  
 Line Upgrade: Environmental Statement

Title  
 Figure 2a: Proposed Access Routes:  
 XL001-XL011

Status  
**FINAL**

Drawing No. 163328-11	Revision
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Scale 1:10,000	<b>A3</b>	Date 19 Sept 2013
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Drawn SD	Checked MN	Approved PD
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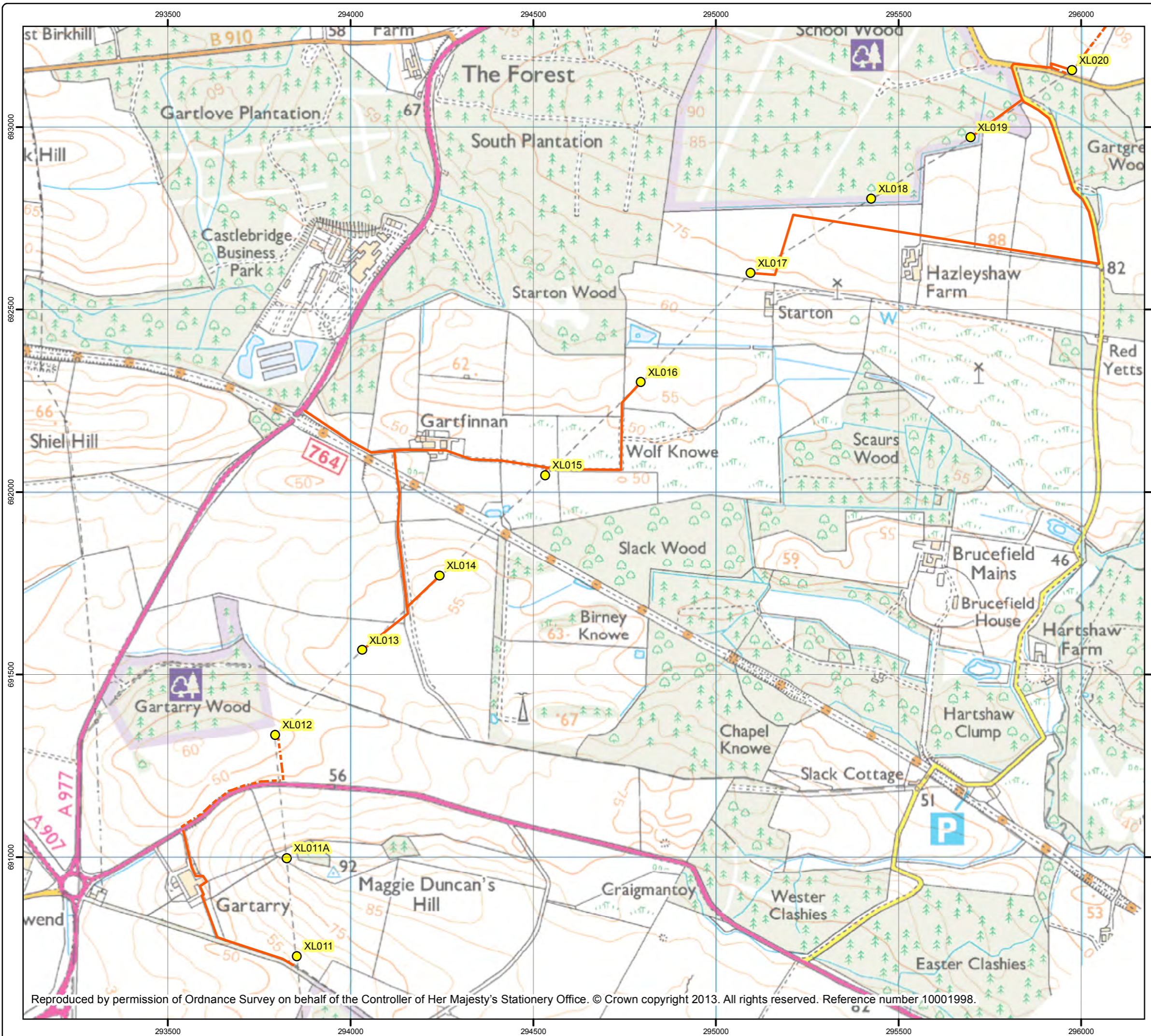


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New sub-station site

Existing sub-station

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**Legend**

- Existing Towers
- - - Open Ground Access
- Established Access Route

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Project  
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 Line Upgrade: Environmental Statement

Title  
 Figure 2b: Proposed Access Routes:  
 XL011-XL020

Status  
**FINAL**

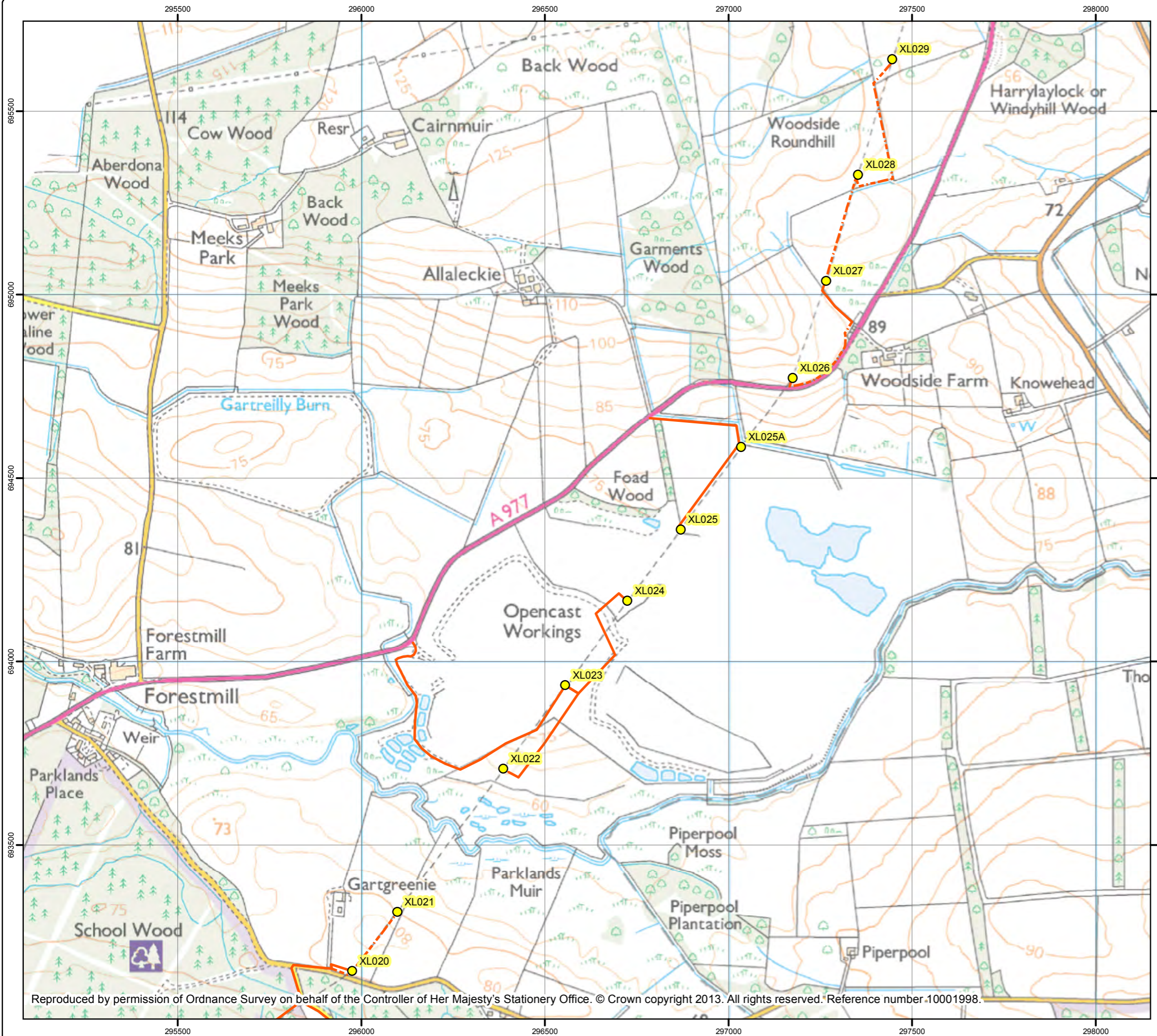
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Scale 1:10,000	<b>A3</b>	Date 27 Sept 2013
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Drawn SD	Checked MN	Approved PD
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**Legend**

- Existing Towers
- Open Ground Access
- Established Access Route

Do not scale this map

Client  
SP Energy Networks

Project  
Kincardine to Blairingone Overhead  
Line Upgrade: Environmental Statement

Title  
Figure 2c: Proposed Access Routes:  
XL020-XL029

Status  
**FINAL**

Drawing No. 163328_13	Revision
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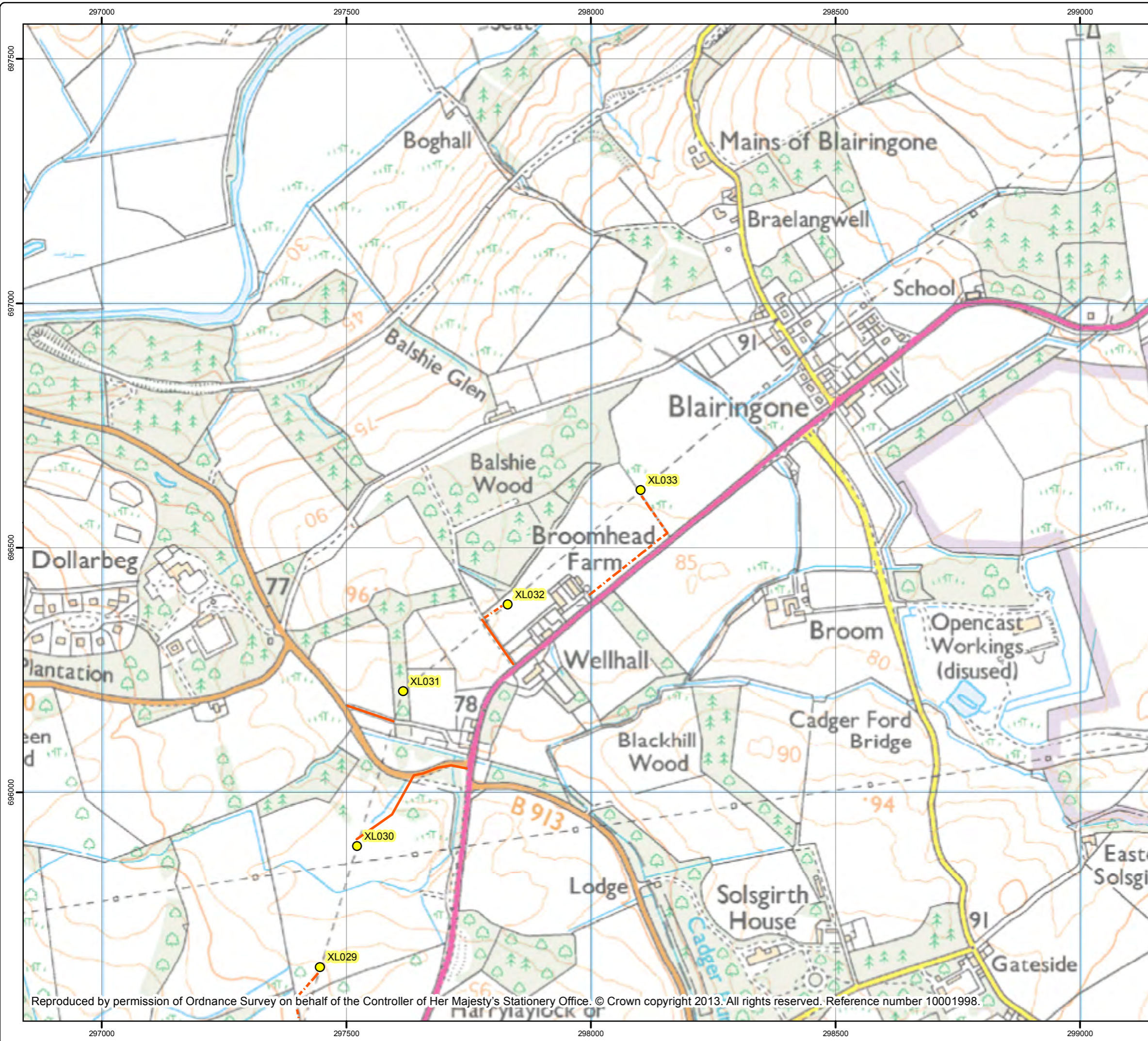
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Drawn SD	Checked MN	Approved PD
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**Legend**

- Existing Towers
- Open Ground Access
- Established Access Route

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 Client  
 SP Energy Networks

Project  
 Kincardine to Blairingone Overhead  
 Line Upgrade: Environmental Statement

Title  
 Figure 2d: Proposed Access Routes:  
 XL029-XL033

Status  
**FINAL**

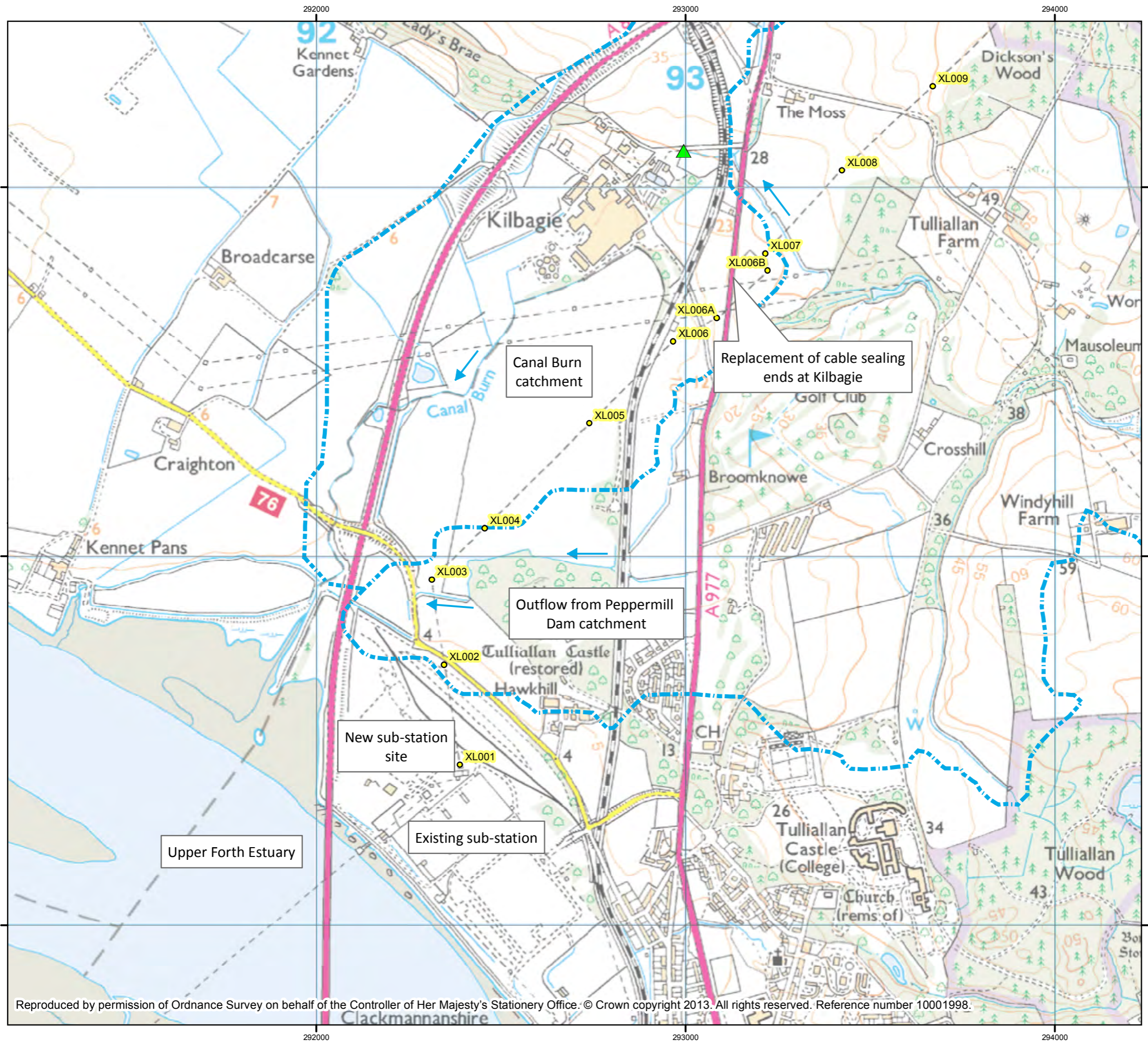
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**Legend**

- Existing Towers
- - - Catchment Boundaries
- Flow Direction
- ▲ CAR licenced abstraction at Kilbagie (surface water)

Do not scale this map

Client  
SP Energy Networks

Project  
Kincardine to Blairingone Overhead Line Upgrade: Environmental Statement

Title  
Figure 5.1a: Hydrological Features

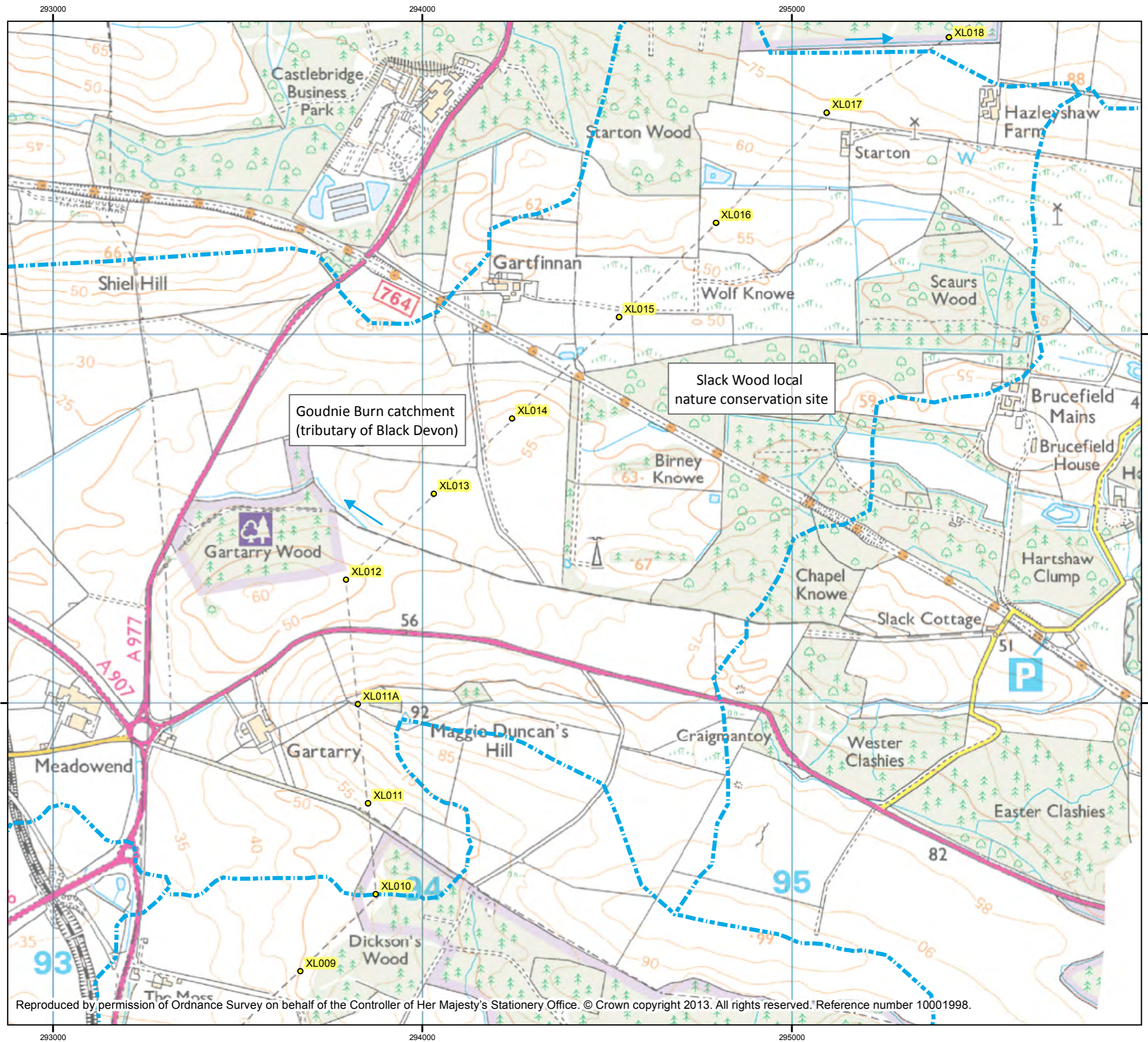
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Drawing No. 163328_007	Revision
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Drawn HB	Checked MN	Approved LL
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**Legend**

- Existing Towers
- - - Catchment Boundaries
- Flow Direction

Do not scale this map

Client  
SP Energy Networks

Project  
Kincardine to Blairingone Overhead Line Upgrade: Environmental Statement

Title  
Figure 5.1b: Hydrological Features

Status  
**FINAL**

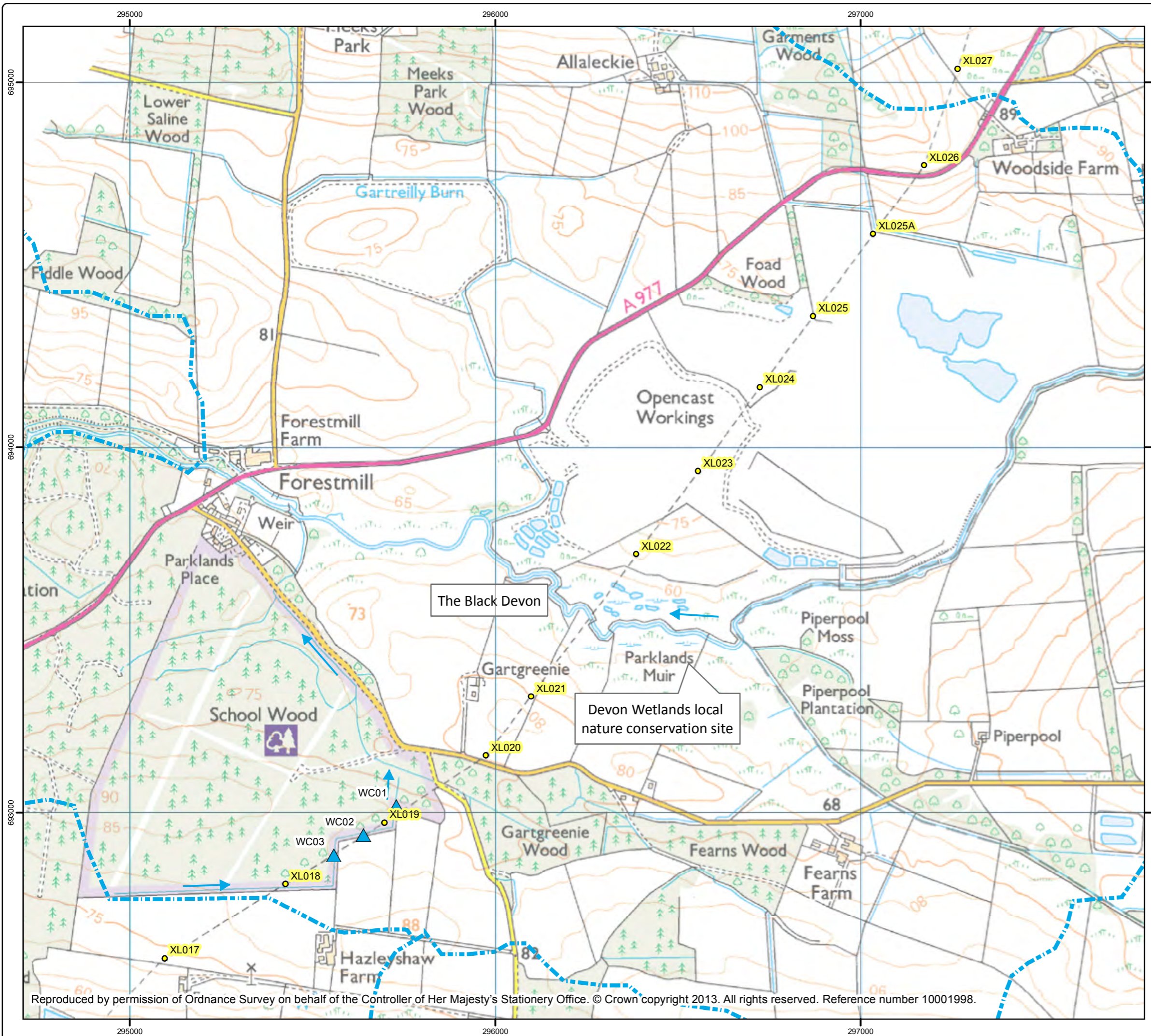
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**Legend**

- Existing Towers
- - - Catchment Boundaries
- Flow Direction
- ▲ Temporary Water Crossings

Do not scale this map

Client  
SP Energy Networks

Project  
Kincardine to Blairingone Overhead Line Upgrade: Environmental Statement

Title  
Figure 5.1c: Hydrological Features

Status  
**FINAL**

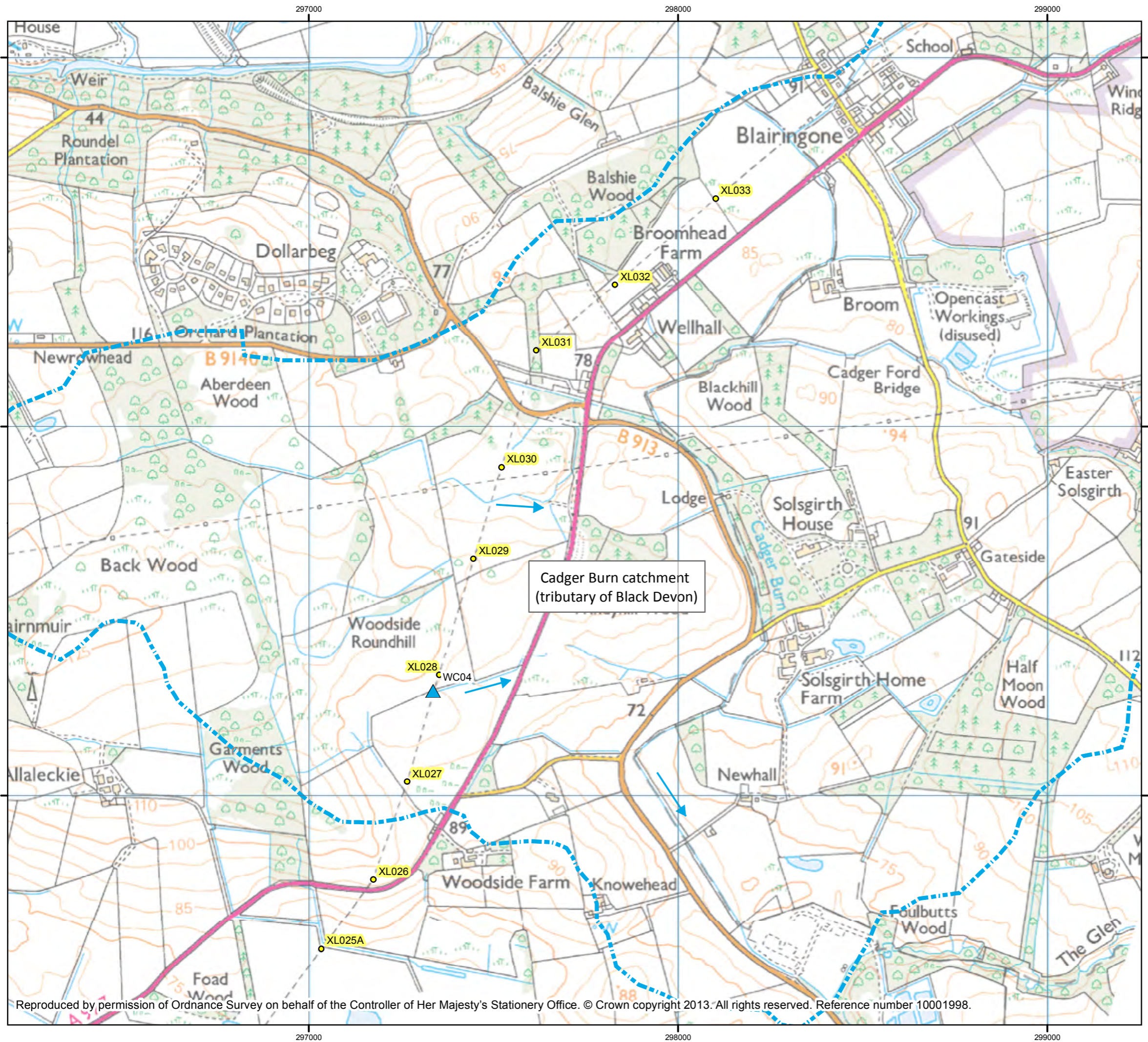
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Drawn HB	Checked MN	Approved LL
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**Legend**

- Existing Towers
- - - Catchment Boundaries
- Flow Direction
- ▲ Temporary Water Crossings

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 Client  
 SP Energy Networks

Project  
 Kincardine to Blairingone Overhead  
 Line Upgrade: Environmental Statement

Title  
 Figure 5.1d: Hydrological Features

Status  
**FINAL**

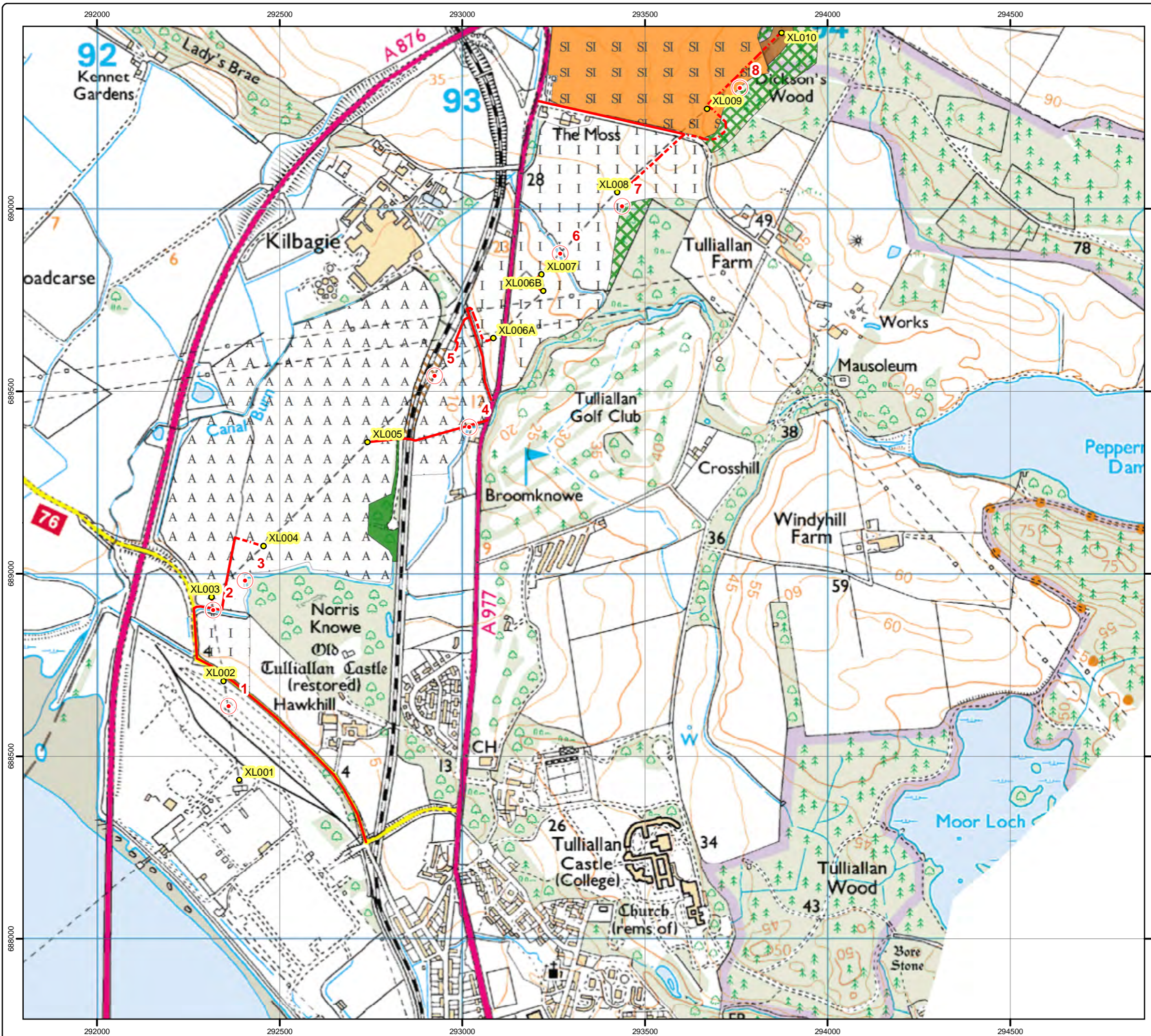
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Scale 1:10,000	<b>A3</b>	Date 19 Sept 2013
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Drawn HB	Checked MN	Approved LL
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**Legend**

- Target Note
- Tower Ref
- Open Ground Access
- Established Access Route

**Phase1Habitat\_SPEN\_163328**

**JNCC Code**

- A1.1.1 Broadleaf semi-natural woodland
- A2.1 Coniferous semi-natural woodland
- A2.2 Coniferous scrub woodland
- B2.1 Unimproved natural grassland
- B2.1/B5 Mosaic
- B2.2 Semi improved natural grassland
- B4 Improved grassland
- B5 Marsh/marshy grassland
- B5/D1.1 Mosaic
- C1.1 Continuous bracken
- C3.1 Tall ruderal
- J1.1 Arable cultivated/ disturbed land
- J1.3 Cultivated/ distured ephemeral/ short perennial

Do not scale this map

Client  
Scottish Power Transmission Ltd

Project  
Upgrade of XL Overhead Line Route

Title  
Figure 6.1a- Habitat Maps

Status  
**FINAL**

Drawing No. 163328-014

Revision

Scale 1:10,000

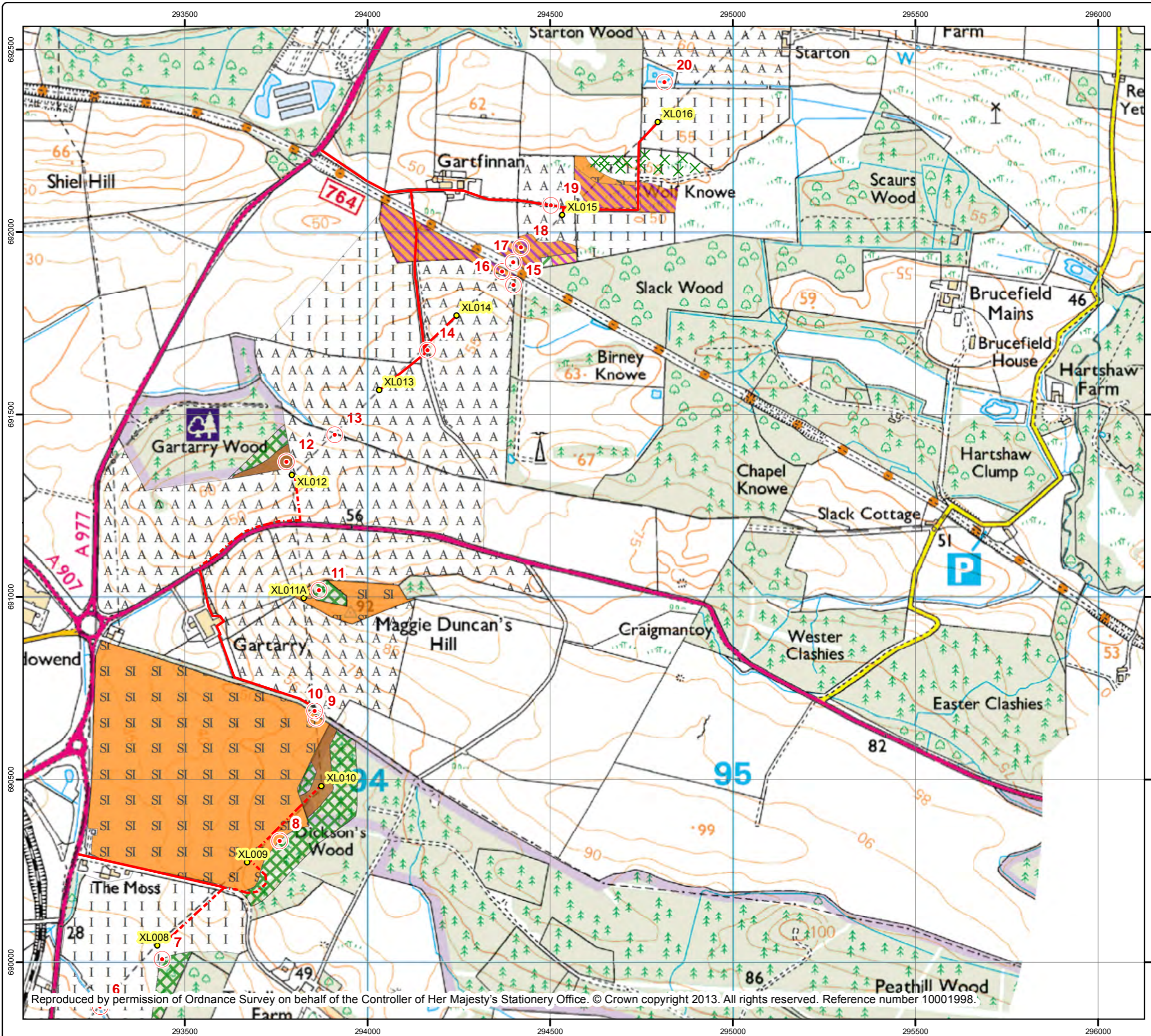
Date 1st Oct 2013

Drawn SD

Checked MN

Approved PD

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**Legend**

- Target Note
- Tower Ref
- Open Ground Access
- Established Access Route
- A2.2 Scattered Scrub

**JNCC Code**

- A1.1.1 Broadleaf semi-natural woodland
- A1.1.2 Broadleaf semi-natural plantation
- A1.2.1 Broadleaf coniferous woodland
- A1.2.2 Broadleaf coniferous plantation
- A1.3.1 Broadleaf mixed woodland
- A1.3.2 Broadleaf mixed plantation
- A2.1 Coniferous semi-natural woodland
- A2.2 Coniferous scrub woodland
- B2.1 Unimproved natural grassland
- B2.1/B5 Mosaic
- B2.2 Semi improved natural grassland
- B4 Improved grassland
- B5 Marsh/marshy grassland
- B5/D1.1 Mosaic
- C1.1 Continuous bracken
- C3.1 Tall ruderal
- D2 Wet dwarf shrub heath
- F1 Swamp
- J1.1 Arable cultivated/ disturbed land
- J1.3 Cultivated/disturbed ephemeral/short perennial

Do not scale this map

Client  
**Scottish Power Transmission Ltd**

Project  
**Upgrade of XL Overhead Line Route**

Title  
**Figure 6.1b- Habitat Maps**

Status  
**FINAL**

Drawing No. 163328-015	Revision
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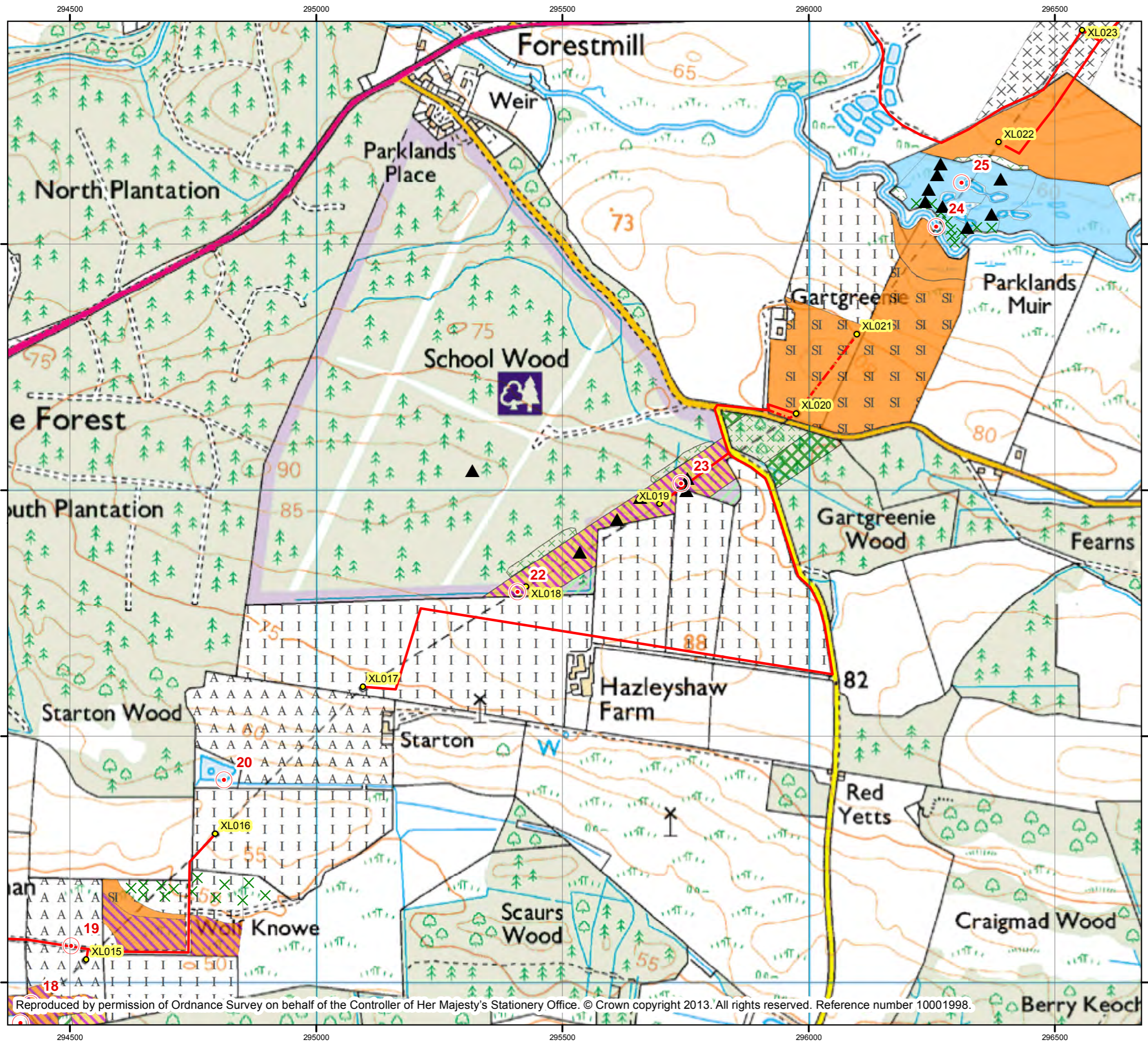
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Drawn SD	Checked MN	Approved PD
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**Legend**

- Target Note
- GWDTEs
- Tower Ref
- Open Ground Access
- Established Access Route
- A2.2 Scattered Scrub

**JNCC Code**

- A1.1.1 Broadleaf semi-natural woodland
- A1.1.2 Broadleaf semi-natural plantation
- A1.2.1 Broadleaf coniferous woodland
- A1.2.2 Broadleaf coniferous plantation
- A1.3.1 Broadleaf mixed woodland
- A1.3.2 Broadleaf mixed plantation
- A2.1 Coniferous semi-natural woodland
- A2.2 Coniferous scrub woodland
- B2.1 Unimproved natural grassland
- B2.1/B5 Mosaic
- B2.2 Semi improved natural grassland
- B4 Improved grassland
- B5 Marsh/marshy grassland
- B5/D1.1 Mosaic
- C1.1 Continuous bracken
- C3.1 Tall ruderal
- D2 Wet dwarf shrub heath
- F1 Swamp
- J1.1 Arable cultivated/ disturbed land
- J1.3 Cultivated/disturbed ephemeral/short perennial

Do not scale this map

Client  
**Scottish Power Transmission Ltd**

Project  
**Upgrade of XL Overhead Line Route**

Title  
**Figure 6.1c- Habitat Maps**

Status  
**FINAL**

Drawing No. 163328-004	Revision
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Scale 1:7,500	<b>A3</b>	Date 27th Sep 2013
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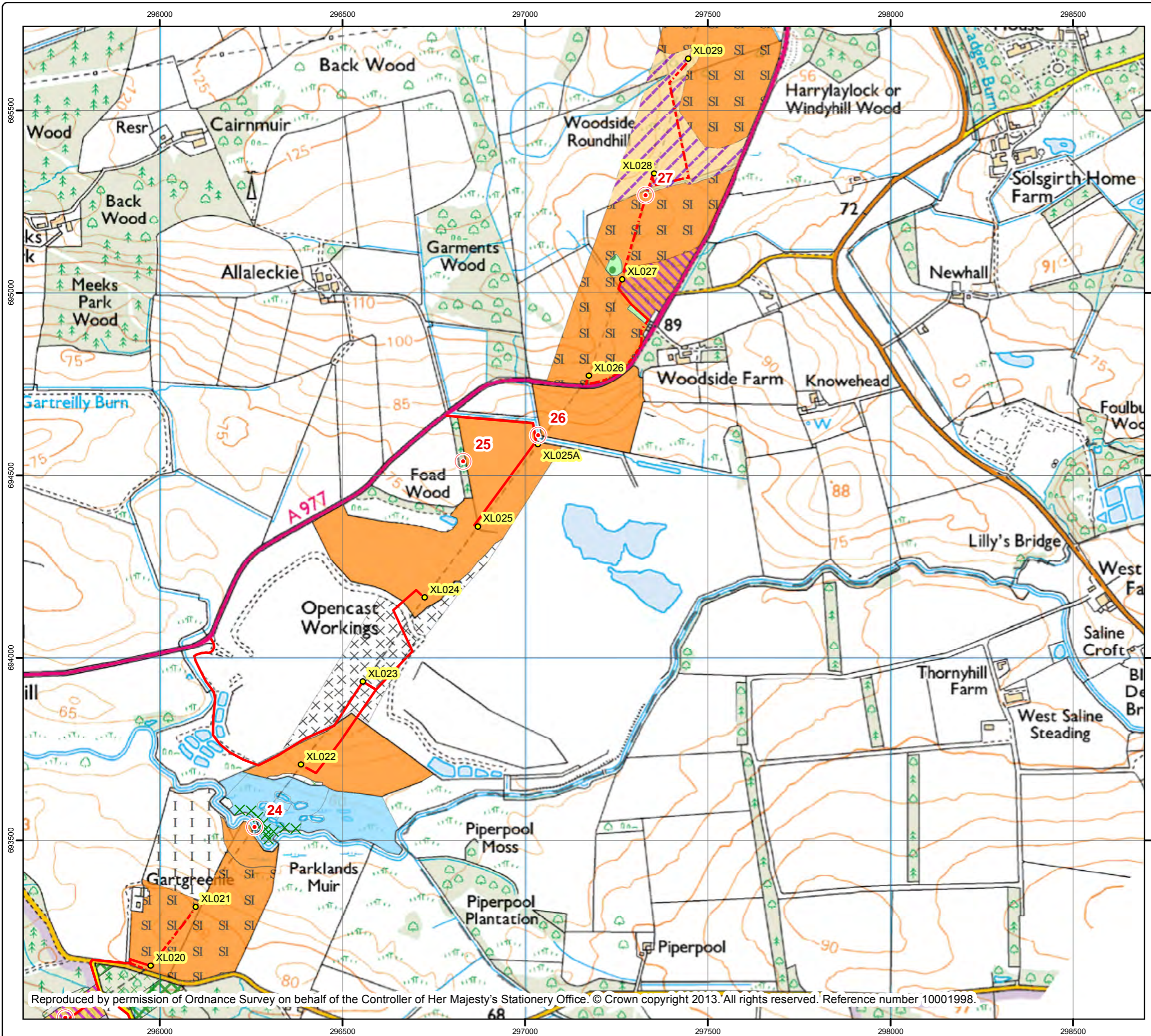
Drawn SD	Checked MN	Approved PD
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### Legend

- Target Note
- Tower Ref
- Open Ground Access
- Established Access Route

### JNCC Code

- A1.1.1 Broadleaf semi-natural woodland
- A1.1.2 Broadleaf semi-natural plantation
- A1.2.1 Broadleaf coniferous woodland
- A1.2.2 Broadleaf coniferous plantation
- A1.3.1 Broadleaf mixed woodland
- A1.3.2 Broadleaf mixed plantation
- A2.1 Coniferous semi-natural woodland
- A2.2 Coniferous scrub woodland
- B2.1 Unimproved natural grassland
- B2.1/B5 Mosaic
- B2.2 Semi improved natural grassland
- B4 Improved grassland
- B5 Marsh/marshy grassland
- B5/D1.1 Mosaic
- C1.1 Continuous bracken
- C3.1 Tall ruderal
- D2 Wet dwarf shrub heath
- F1 Swamp
- J1.1 Arable cultivated/ disturbed land
- J1.3 Cultivated/disturbed ephemeral/short perennial

Do not scale this map

Client  
**Scottish Power Transmission Ltd**

Project  
**Upgrade of XL Overhead Line Route**

Title  
**Figure 6.1d- Habitat Maps**

Status  
**FINAL**

Drawing No. 163328-005	Revision
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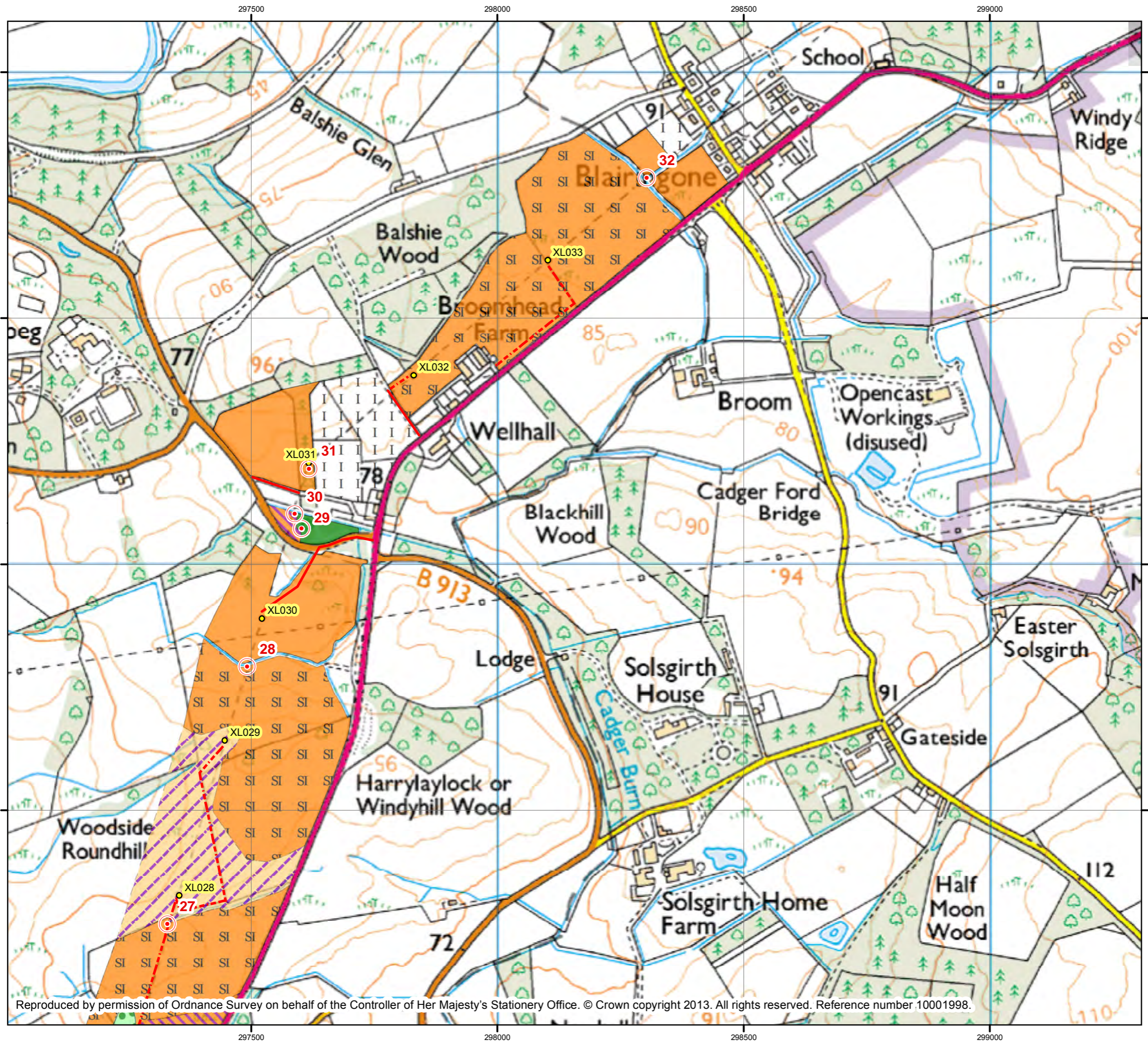
Scale 1:10,000	<b>A3</b>	Date 27th Sep 2013
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**Legend**

- Target Note
- Tower Ref
- Open Ground Access
- Established Access Route

**JNCC Code**

- A1.1.1 Broadleaf semi-natural woodland
- A1.1.2 Broadleaf semi-natural plantation
- A1.2.1 Broadleaf coniferous woodland
- A1.2.2 Broadleaf coniferous plantation
- A1.3.1 Broadleaf mixed woodland
- A1.3.2 Broadleaf mixed plantation
- A2.1 Coniferous semi-natural woodland
- A2.2 Coniferous scrub woodland
- B2.1 Unimproved natural grassland
- B2.1/B5 Mosaic
- B2.2 Semi improved natural grassland
- B4 Improved grassland
- B5 Marsh/marshy grassland
- B5/D1.1 Mosaic
- C1.1 Continuous bracken
- C3.1 Tall ruderal
- D2 Wet dwarf shrub heath
- F1 Swamp
- J1.1 Arable cultivated/ disturbed land
- J1.3 Cultivated/disturbed ephemeral/short perennial

Do not scale this map

Client  
**Scottish Power Transmission Ltd**

Project  
**Upgrade of XL Overhead Line Route**

Title  
**Figure 6.1e- Habitat Maps**

Status  
**FINAL**

Drawing No. 163328-006	Revision
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Scale 1:7,500	<b>A3</b>	Date 27th Sep 2013
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# Plates

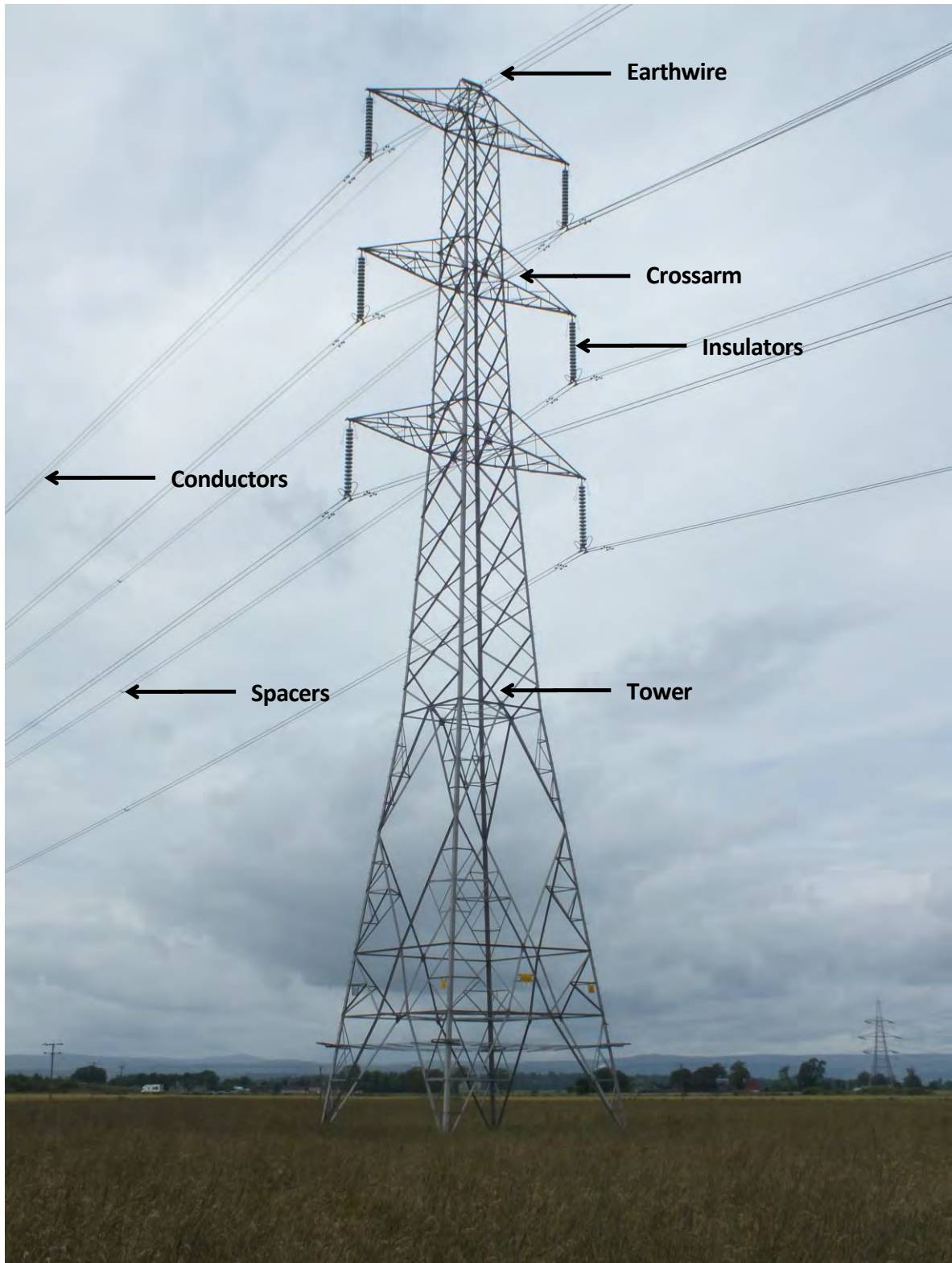


Plate 1: The typical arrangement of the L2 tower design and its various component parts.



Plate 2: The existing 275 kV Low Level Gantries and Cable Sealing End Compounds.

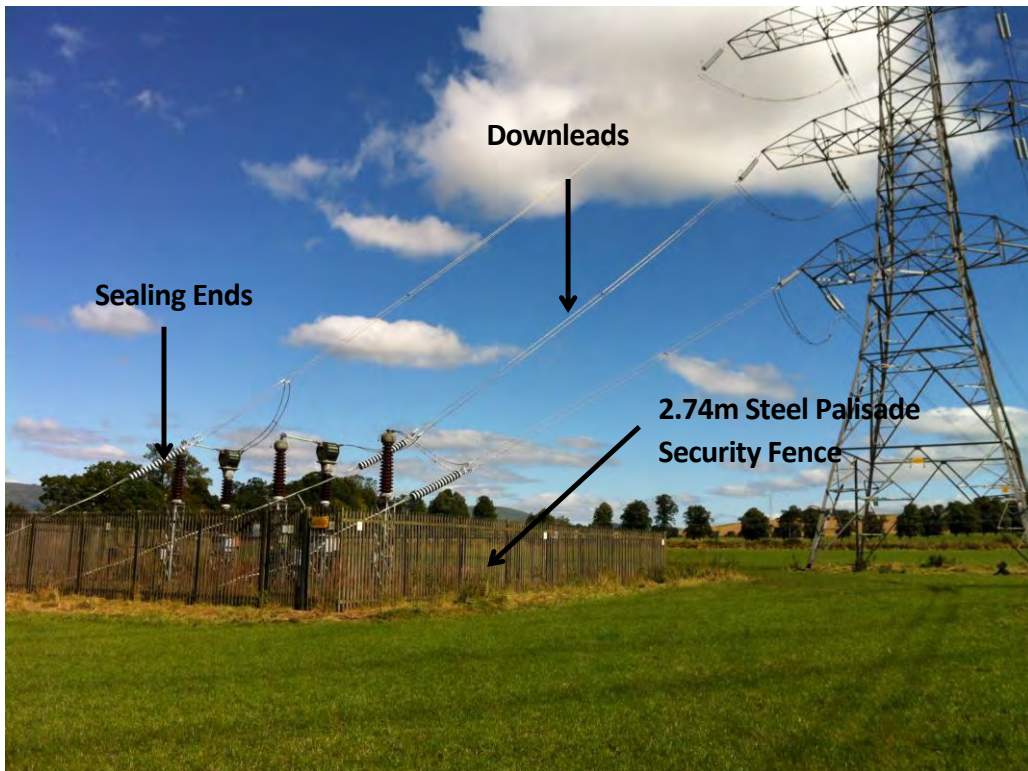


Plate 3: One of the existing 275 kV Cable Sealing End Compounds.



**Plate 4: Typical 132kV GIS Building. It should be noted that the proposed substation at Kincardine would have a capacity of 275kV and would therefore be larger in size.**



**Plate 5: SF<sub>6</sub> switchgear inside a typical 132kV GIS building.**



**Plate 6: The existing substation at Kincardine, which contains an air insulated switchgear (AIS).**



**Plate 7: Linesmen replacing a tower insulator**



**Plate 8: A typical tractor and winch**



**Plate 9: An example of scaffolding erected to protect a road**





**Plate 10: An example of typical tower foundation works**



**Plate 11: An example of a conductor drum and tensioner winch**



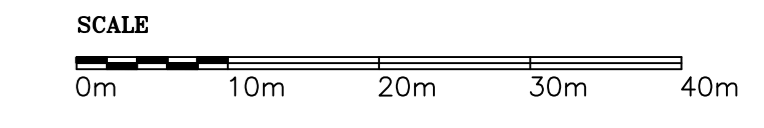
Plate 12: A typical pulling winch

# Technical Drawings

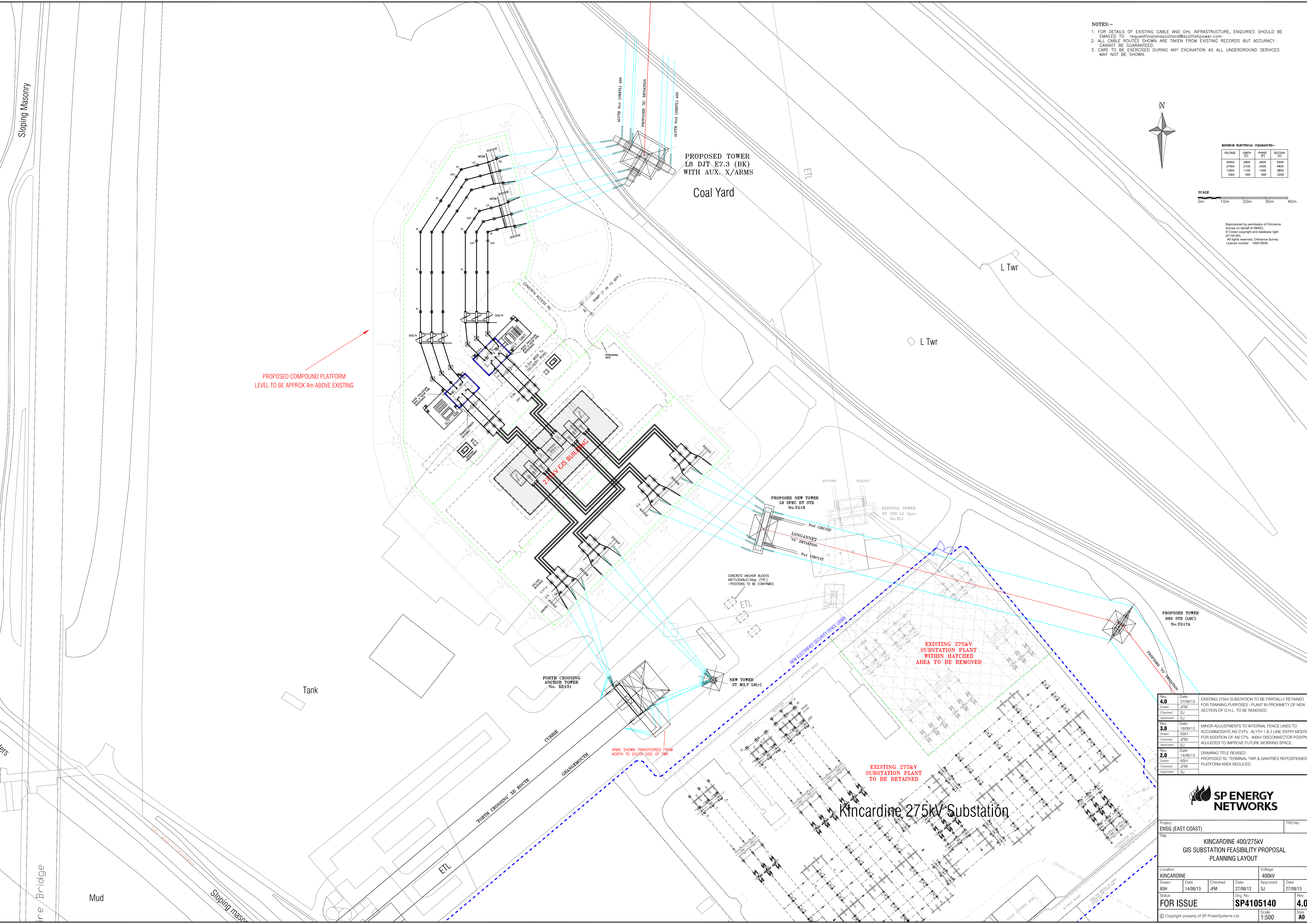
NOTES:-  
 1. FOR DETAILS OF EXISTING CABLE AND OHL INFRASTRUCTURE, ENQUIRES SHOULD BE EMAILED TO requestforplans@scotland.scottishpower.com  
 2. ALL CABLE ROUTES SHOWN ARE TAKEN FROM EXISTING RECORDS BUT ACCURACY CANNOT BE GUARANTEED.  
 3. CARE TO BE EXERCISED DURING ANY EXCAVATION AS ALL UNDERGROUND SERVICES MAY NOT BE SHOWN.

MINIMUM ELECTRICAL CLEARANCES:-

VOLTAGE	EAIRY (E)	PHASE (P)	SECTION (S)
400kv	2850	3450	3500
275kv	2100	2400	4800
132kv	1100	1400	2800
33kv	500	500	3000



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PROPOSED COMPOUND PLATFORM LEVEL TO BE APPROX 4m ABOVE EXISTING

Kincardine 275kV Substation

Rev. 4.0	Date 27/08/13	EXISTING 275kV SUBSTATION TO BE PARTIALLY RETAINED FOR TRAINING PURPOSES. PLANT IN PROXIMITY OF NEW SECTION OF O.H.L. TO BE REMOVED.
Drawn JFM	Checked SJ	Approved SJ
Rev. 3.0	Date 19/06/13	MINOR ADJUSTMENTS TO INTERNAL FENCE LINES TO ACCOMMODATE AIS CUTS. ALYTH 1 & 2 LINE ENTRY MODS FOR ADDITION OF AIS CUTS. 400kV DISCONNECTOR POSITION ADJUSTED TO IMPROVE FUTURE WORKING SPACE.
Drawn ASH	Checked JFM	Approved SJ
Rev. 2.0	Date 14/06/13	DRAWING TITLE REVISED. PROPOSED 'XL' TERMINAL TWR & GANTRIES REPOSITIONED. PLATFORM AREA REDUCED.
Drawn ASH	Checked JFM	Approved SJ

**SP ENERGY NETWORKS**

Project: ENSG (EAST COAST) TRS No. \_\_\_\_\_

Title: KINCARDINE 400/275kV GIS SUBSTATION FEASIBILITY PROPOSAL PLANNING LAYOUT

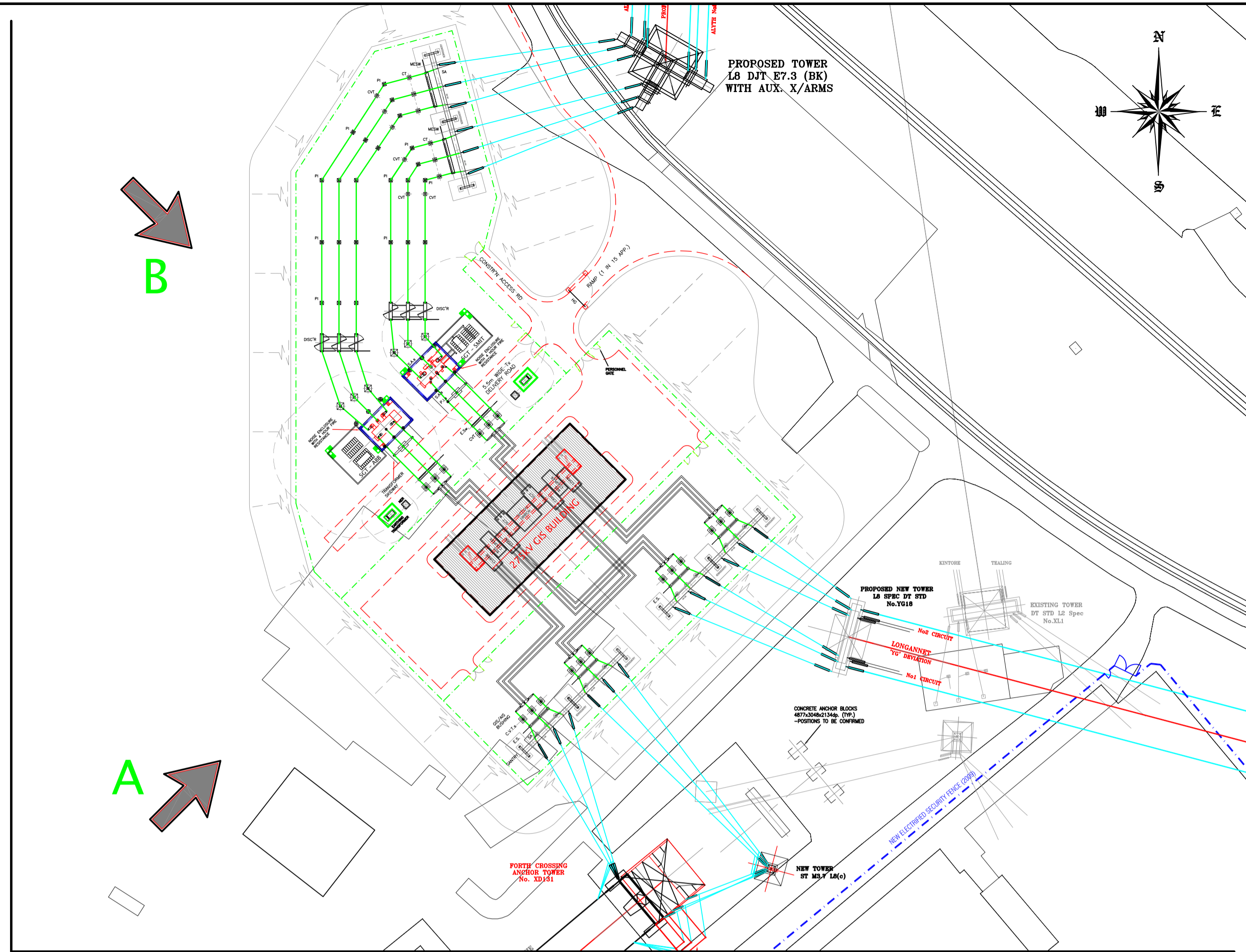
Location: KINCARDINE	Voltage: 400kV				
Drawn: ASH	Date: 14/06/13	Checked: JFM	Date: 27/08/13	Approved: SJ	Date: 27/08/13

Status: FOR ISSUE

Scale: 1:500

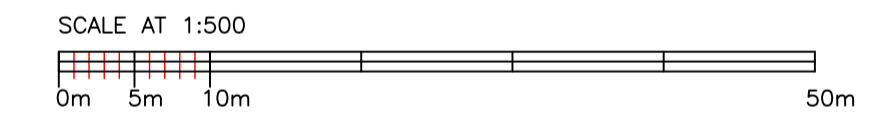
Rev. 4.0

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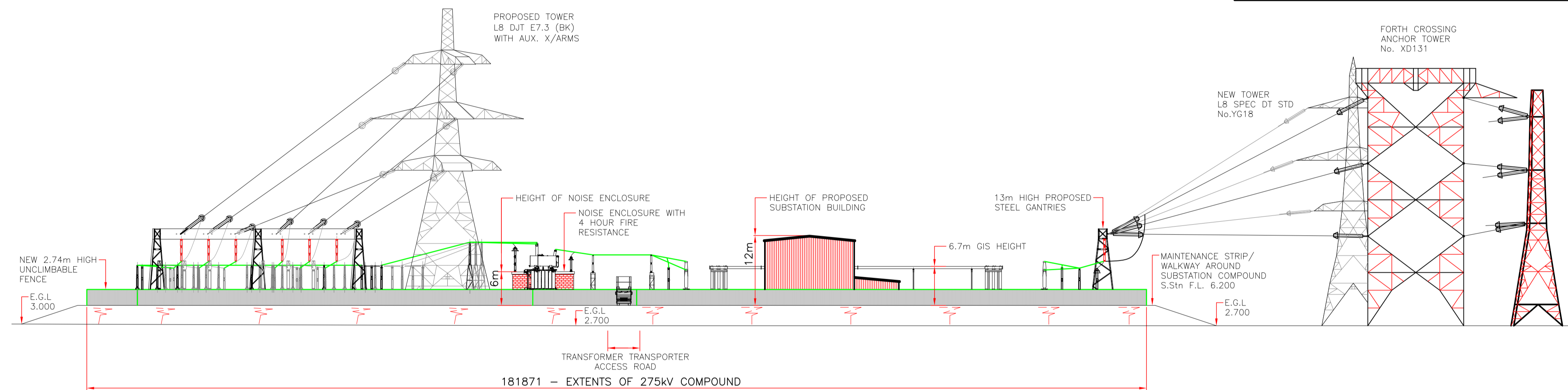


**LOCATION PLAN**  
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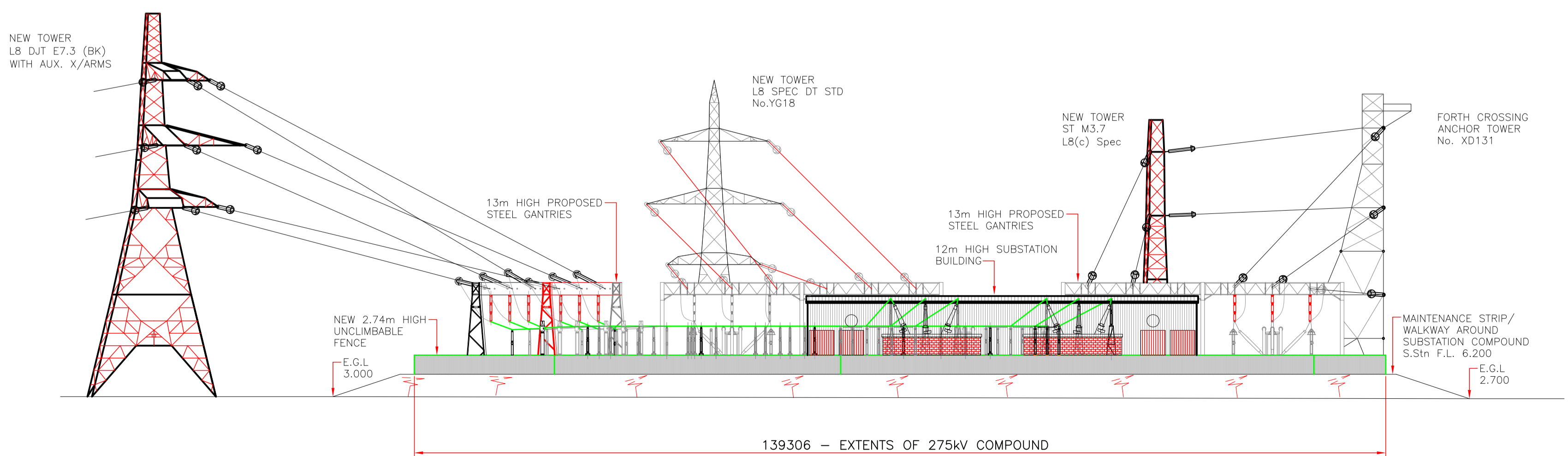
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ASSOCIATED DRAWING:  
SP4105140 - PLANNING LAYOUT



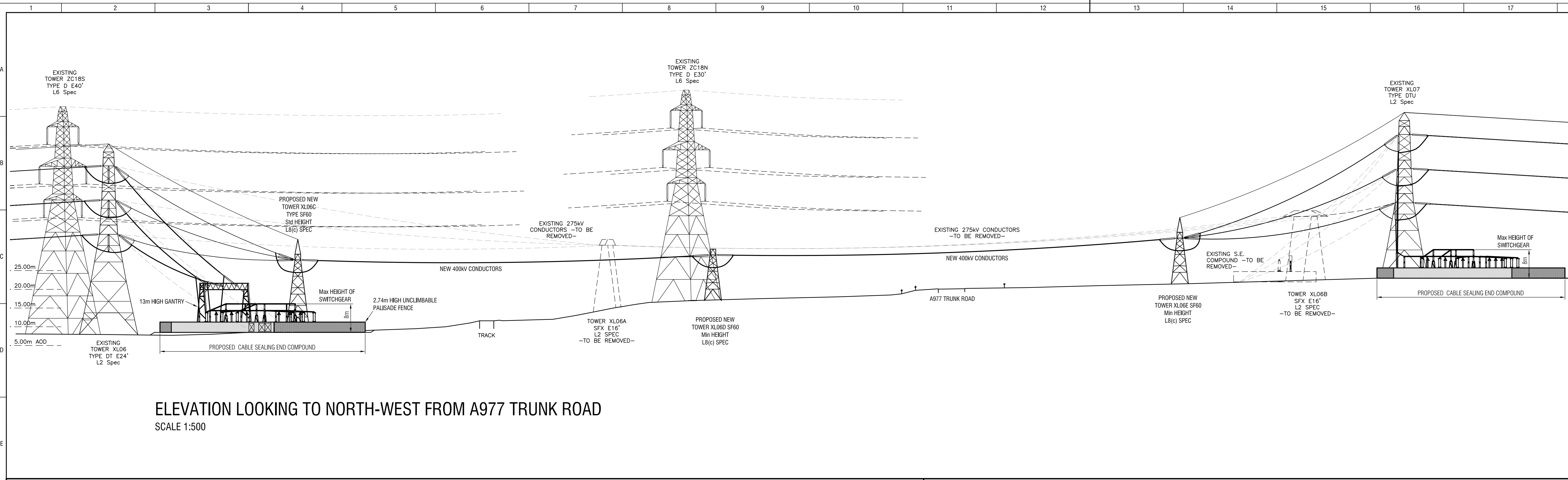
**VIEW ON ARROW 'A' FROM FIRTH OF FORTH SEA WALL/ WALKWAY LOOKING TO NORTH-EAST**



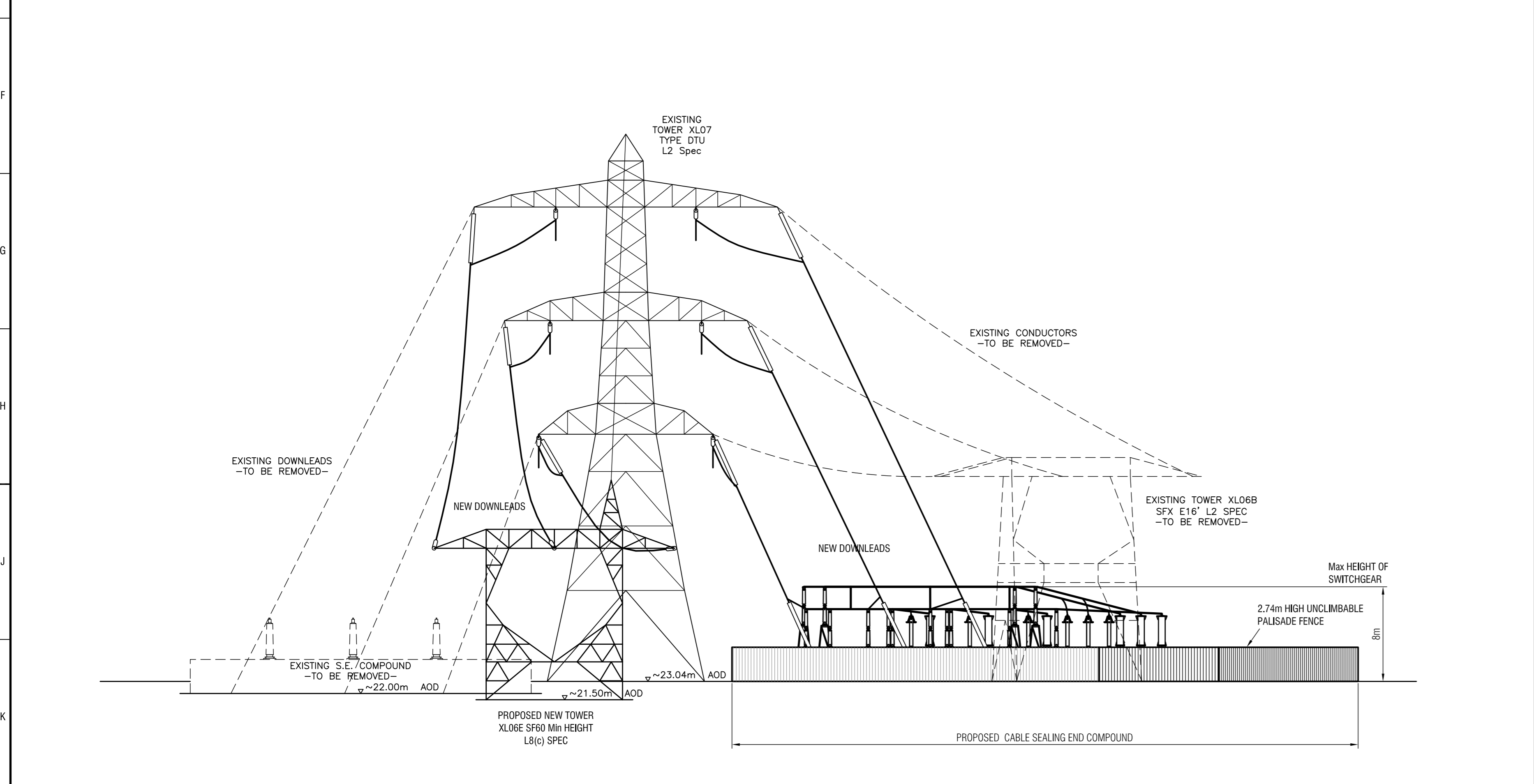
**VIEW ON ARROW 'B' FROM CLACKMANNANSHIRE BRIDGE A876 LOOKING TO SOUTH-EAST**

Rev.	Date	LINE ENTRY SWITCHGEAR CLARIFIED ON BOTH VIEWS.
3.0	21.08.13	NOISE ENCLOSURE HEIGHT WAS SHOWN AS 9m, NOW 6m.
Drawn	JFM	EGL ADDED.
Checked		
Approved		
Rev.	Date	ADDITIONAL HEIGHTS ADDED
2.0	12.08.13	
Drawn	EM	
Checked	SJ	
Approved	SJ	

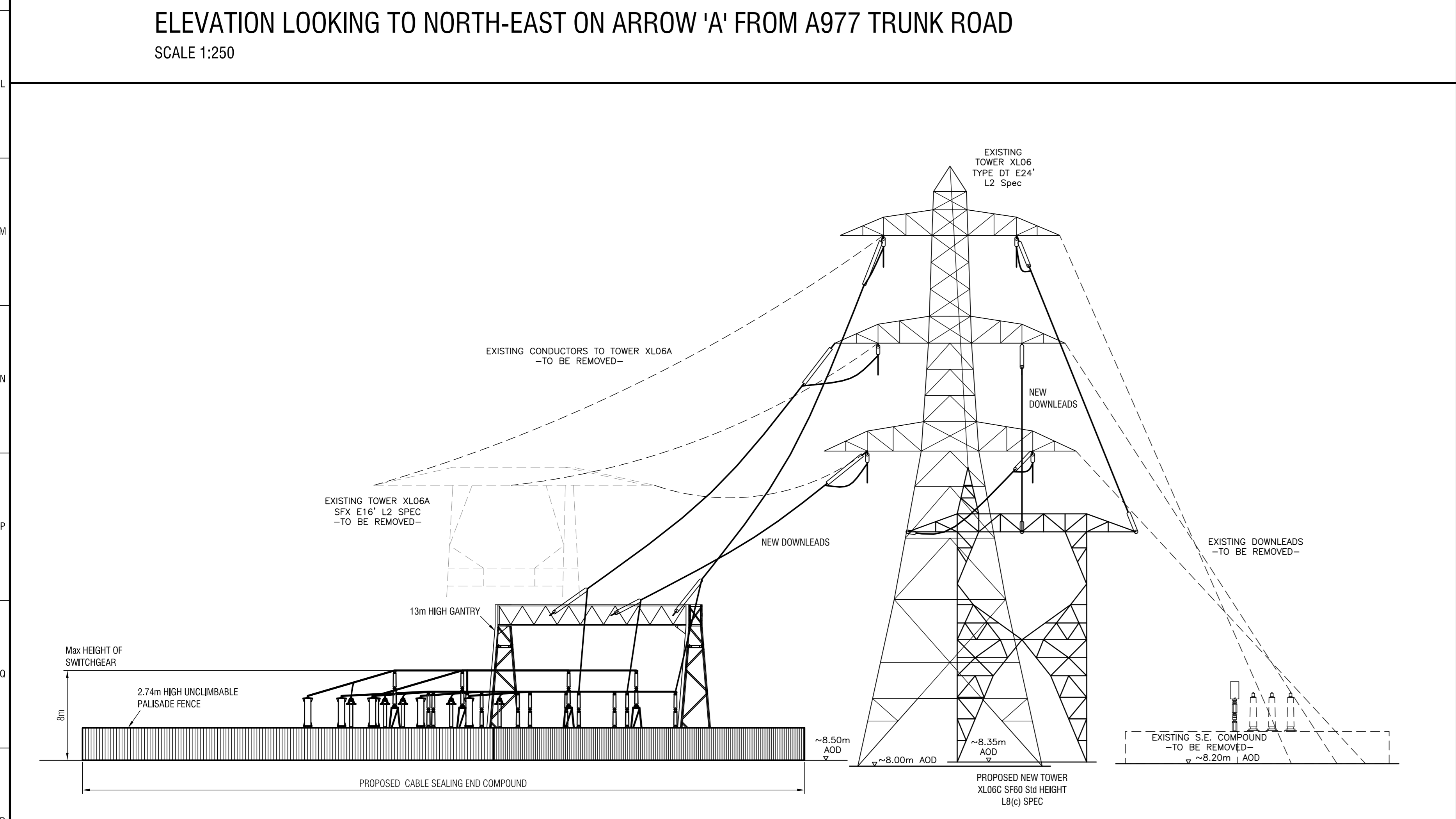
Project <b>ENSG (EAST COAST)</b>		TRS No.	
Title <b>KINCARDINE 400/275kV GIS SUBSTATION FEASIBILITY PROPOSAL PLANNING ELEVATIONS AND KEY PLAN OF WORKS</b>			
Location <b>KINCARDINE</b>		Voltage <b>400kV</b>	
Drawn EM	Date 05/08/13	Checked	Date
Status <b>PRELIMINARY</b>	Drg. No. <b>SP4106267</b>	Approved	Rev. No. <b>3.0</b>
© Copyright property of SP PowerSystems Ltd.			Scale <b>AS SHOWN</b>
			Size <b>A1</b>



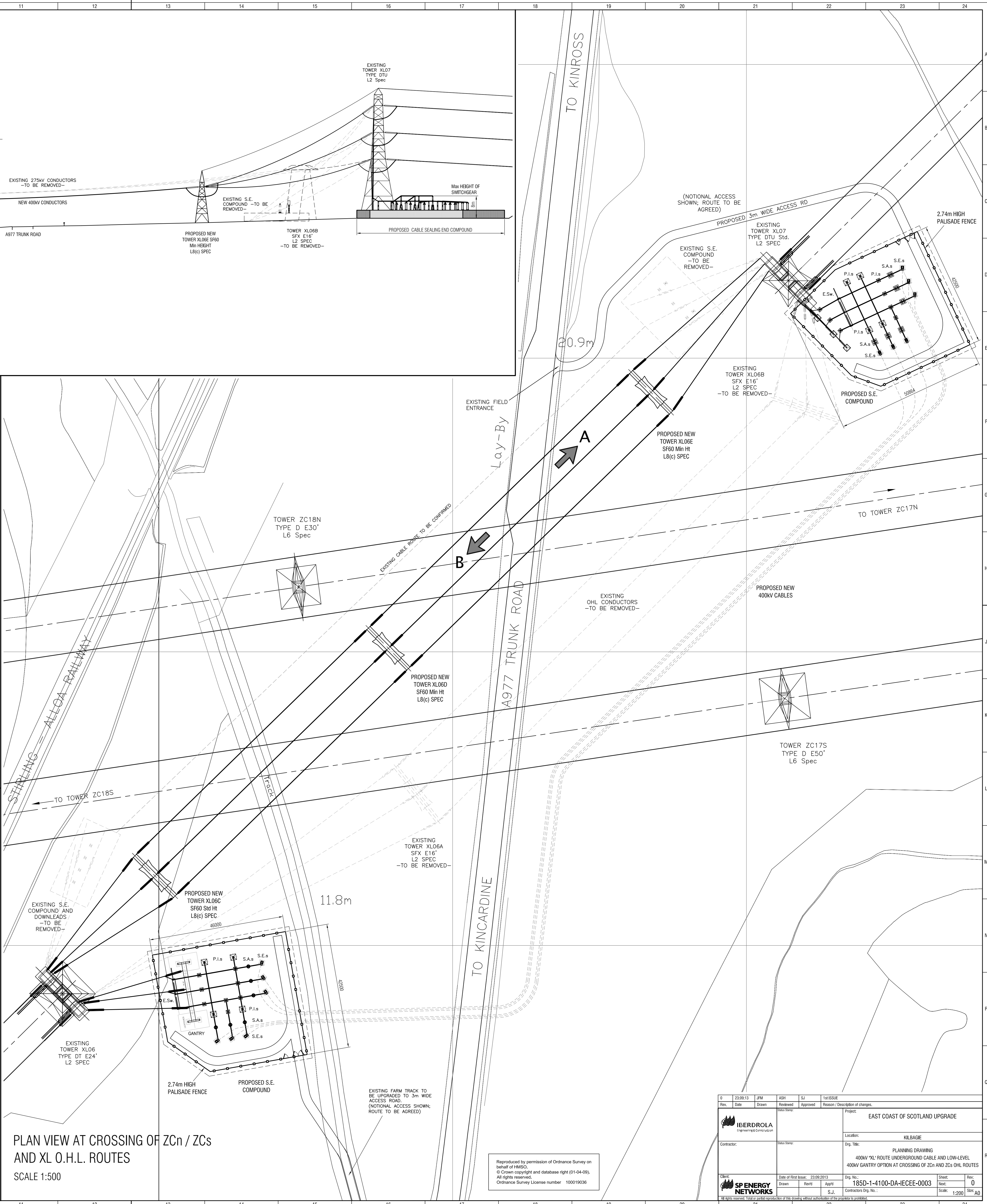
ELEVATION LOOKING TO NORTH-WEST FROM A977 TRUNK ROAD  
SCALE 1:500



ELEVATION LOOKING TO NORTH-EAST ON ARROW 'A' FROM A977 TRUNK ROAD  
SCALE 1:250



ELEVATION LOOKING TO SOUTH-WEST ON ARROW 'B' FROM A977 TRUNK ROAD  
SCALE 1:250



PLAN VIEW AT CROSSING OF ZCn / ZCs  
AND XL O.H.L. ROUTES  
SCALE 1:500

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Rev.	Date	Drawn	Checked	ASH	SJ	1st ISSUE	Reason / Description of changes
0	22/09/13	JFM	ASH	SJ		1st ISSUE	

		<b>EAST COAST OF SCOTLAND UPGRADE</b>	
Location:		KILBAGE	
Drawing Title:		PLANNING DRAWING 400kV 'XL' ROUTE UNDERGROUND CABLE AND LOW-LEVEL 400kV GANTRY OPTION AT CROSSING OF ZCn AND ZCs O.H.L. ROUTES	
Date of first issue: 22/09/2013		Drawing No: 1850-1-4100-DA-HECEE-0003	
Drawn: JFM		Scale: 1:200	
Checked: S.J.		Sheet: 0	
Date of issue: 22/09/2013		Total sheets: 40	