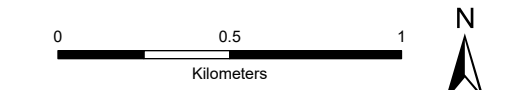


- Site Boundary
- Solar Panel Areas (panels modelled at 3.2m, inverter compounds at 4.5m)
- Distance from Solar Panel Areas (0.5, 1, 2km)
- BESS Area (modelled at 3.5m)
- Substation Area (modelled at up to 6.35m)
- Area Reserved for TSO Substation
- Viewpoint - photomontage location
- Viewpoint - photograph and wireline
- Landcover
 - Buildings
 - Woodland
- Designated Areas
 - Gardens and Designed Landscapes
 - Local Landscape Areas (East Lothian)
 - Special Landscape Areas (Scottish Borders)
- Zone of Theoretical Visibility (Solar Panel Areas)
 - Greater extent visible
 - Lesser extent visible

Notes:
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS. The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.

A digital surface model (DSM) has been derived from OS Terrain 5 height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study area. The model does not take into account some localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.

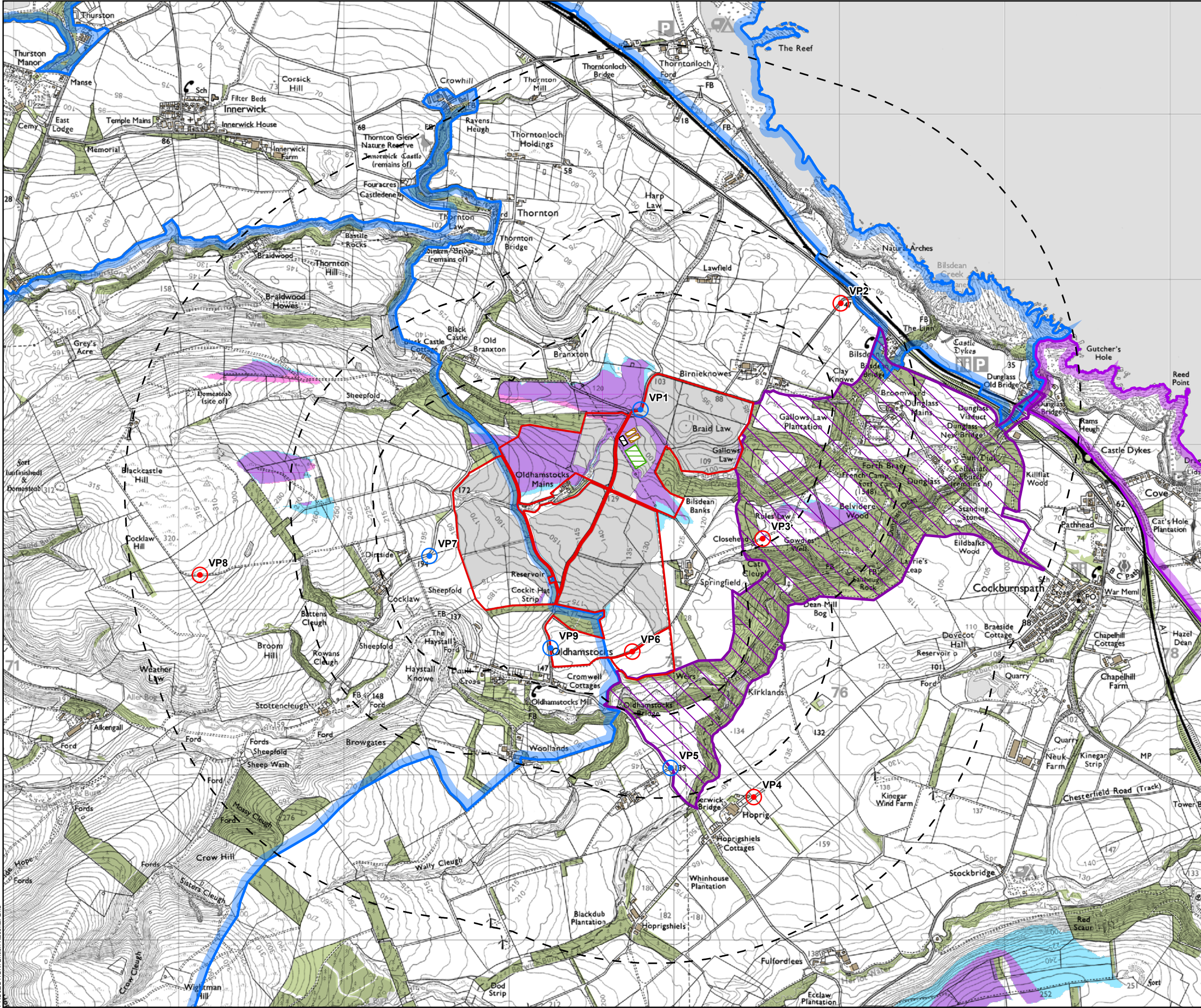
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 5m² resolution.



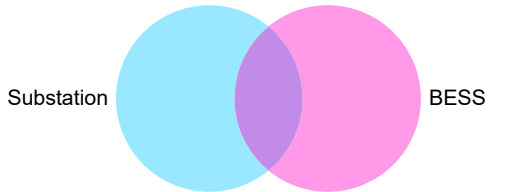
SCALE: See Scale Bar	VERSION: A02
SIZE: A3	DRAWN: RK
PROJECT: Springfield Farm	CHECKED: MF
DATE: 23/05/2025	APPROVED: ME

Figure 6.1:
ZTV Study (Solar Panel Areas) - Including Screening by Woodlands and Buildings





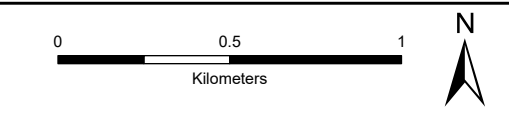
- Site Boundary
- Solar Panel Areas (panels modelled at 3.2m, inverter compounds at 4.5m)
- Distance from Solar Panel Areas (0.5, 1, 2km)
- BESS Area (modelled at 3.5m)
- Substation Area (modelled at up to 6.35m)
- Area Reserved for TSO Substation
- Viewpoint - photomontage location
- Viewpoint - photograph and wireline
- Landcover
 - Buildings
 - Woodland
- Designated Areas
 - Gardens and Designed Landscapes
 - Local Landscape Areas (East Lothian)
 - Special Landscape Areas (Scottish Borders)
- Zone of Theoretical Visibility



Notes:
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS. The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and buildings.

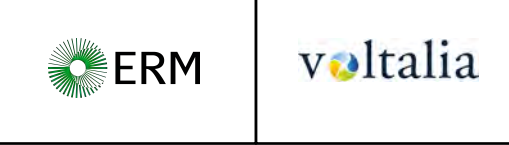
A digital surface model (DSM) has been derived from OS Terrain 5 height data with the locations of woodland and buildings taken from the OS Open Map Local dataset. Buildings have been modelled with an assumed height of 7.5m and woodland an assumed height of 15m, representing a conservative estimate of average heights within the study area. The model does not take into account some localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.

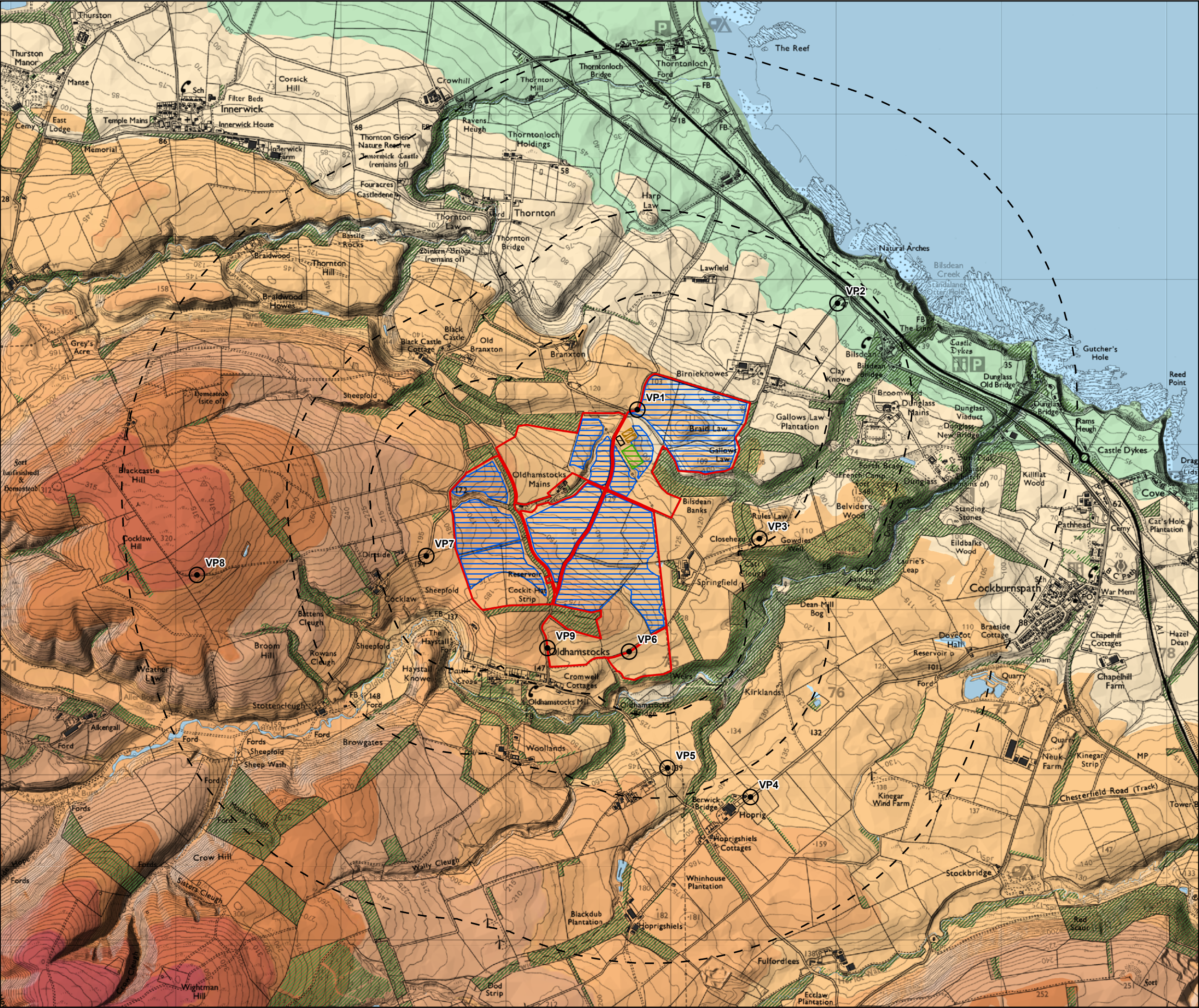
The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a derived DSM and has a 5m² resolution.



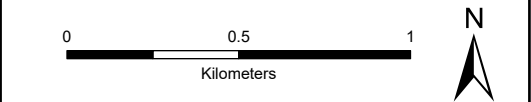
SCALE: See Scale Bar	VERSION: A02
SIZE: A3	DRAWN: RK
PROJECT: Springfield Farm	CHECKED: MF
DATE: 23/05/2025	APPROVED: ME

Figure 6.2:
ZTV Study (BESS & Substation) -
Including Screening by Woodlands
and Buildings





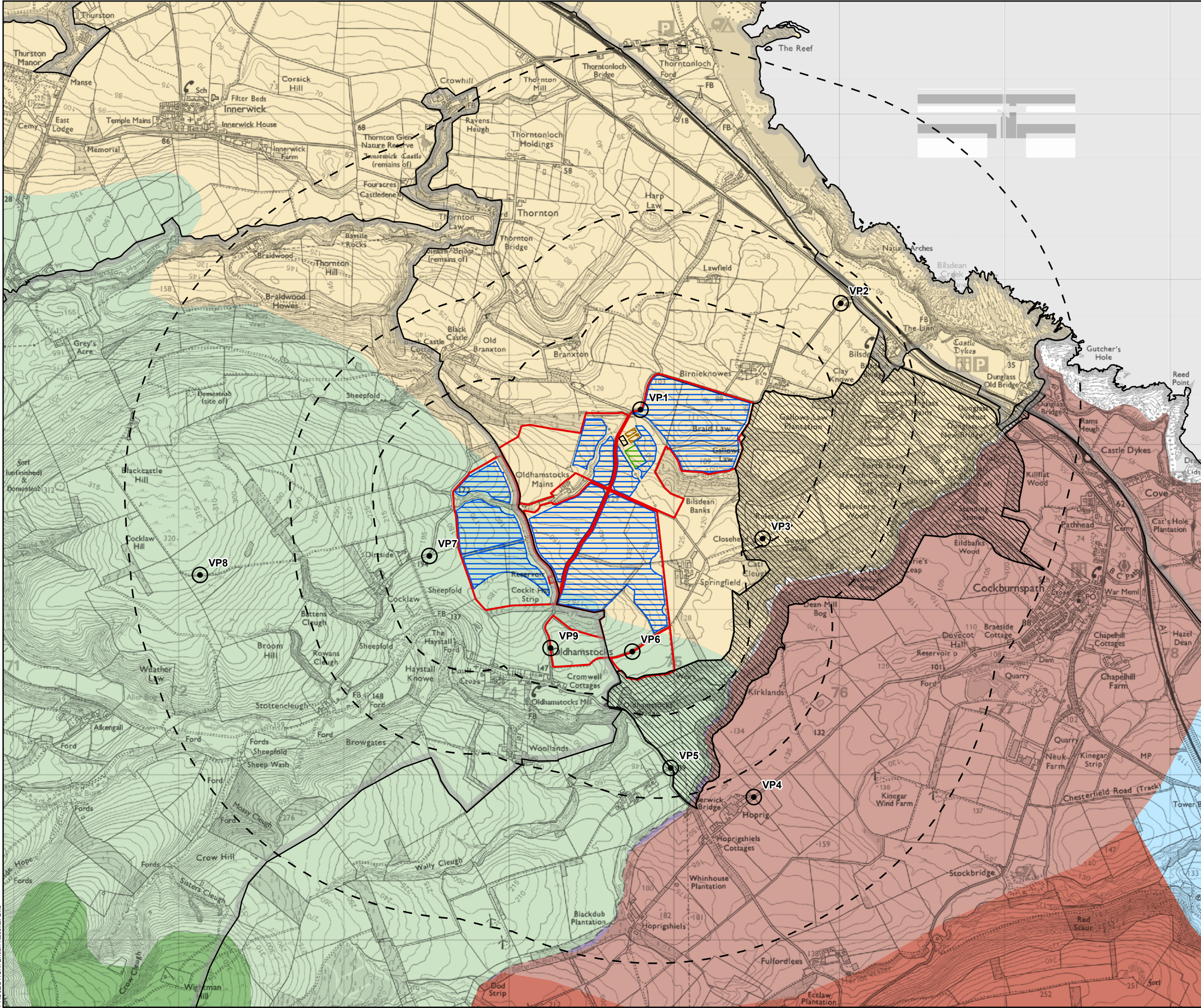
- Site Boundary
- Solar Panel Areas
- Distance from Solar Panel Areas (0.5, 1, 2km)
- BESS Area
- Substation Area
- Area Reserved for TSO Substation
- Viewpoints
- Landcover
 - Buildings
 - Water
 - Woodland
- Elevation (m AOD)
 - < 1
 - 1 - 50
 - 51 - 100
 - 101 - 150
 - 151 - 200
 - 201 - 250
 - 251 - 300
 - 301 - 350
 - 351 - 400



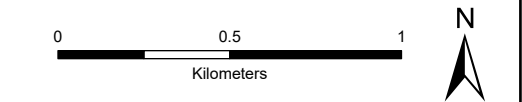
SCALE: See Scale Bar	VERSION: A02
SIZE: A3	DRAWN: RK
PROJECT: Springfield Farm	CHECKED: MF
DATE: 21/05/2025	APPROVED: ME

Figure 6.3:
Topography & Landcover





- Site Boundary
- Solar Panel Areas
- Distance from Solar Panel Areas (0.5, 1, 2km)
- BESS Area
- Substation Area
- Area Reserved for TSO Substation
- Designated Areas
 - Gardens and Designed Landscapes
 - Local Landscape Areas / Special Landscape Areas
- East Lothian Landscape Character Areas
 - Innerwick Coast
 - Eastern Lammermuir Fringe
 - Lammermuir Plateau
- NatureScot Landscape Character Types
 - Coastal Farmland - Borders
 - Plateau Farmland - Borders
 - Pastoral Upland Fringe Valley
 - Upland Fringes - Lothians

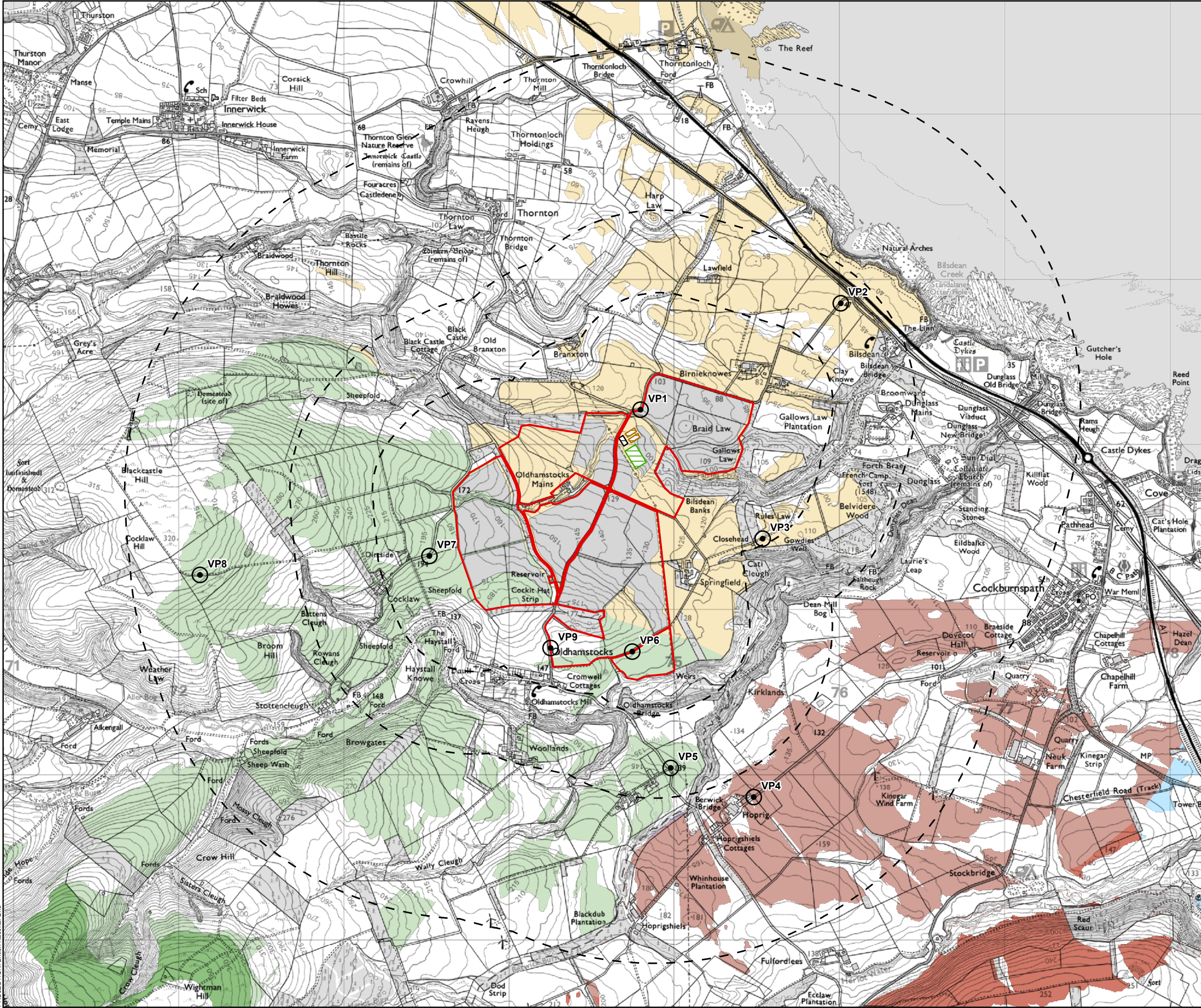


SCALE: See Scale Bar	VERSION: A02
SIZE: A3	DRAWN: RK
PROJECT: Springfield Farm	CHECKED: MF
DATE: 23/05/2025	APPROVED: ME

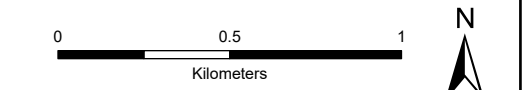
Figure 6.4:
Landscape Character

ERM

volitalia



- Site Boundary
- Solar Panel Areas (panels modelled at 3.2m, inverter compounds at 4.5m)
- Distance from Solar Panel Areas (0.5, 1, 2km)
- BESS Area (modelled at 3.5m)
- Substation Area (modelled at up to 6.35m)
- Area Reserved for TSO Substation
- Viewpoints
- East Lothian Landscape Character Areas (Areas with Theoretical Visibility)
 - Innerwick Coast
 - Eastern Lamermuir Fringe
 - Lamermuir Plateau
- NatureScot Landscape Character Types (Areas with Theoretical Visibility)
 - Coastal Farmland - Borders
 - Plateau Farmland - Borders
 - Pastoral Upland Fringe Valley
 - Upland Fringes - Lothians



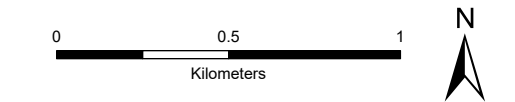
SCALE: See Scale Bar	VERSION: A02
SIZE: A3	DRAWN: RK
PROJECT: Springfield Farm	CHECKED: MF
DATE: 23/05/2025	APPROVED: ME

Figure 6.5:
Landscape Character & Combined ZTV





- Site Boundary
- Solar Panel Areas (panels modelled at 3.2m, inverter compounds at 4.5m)
- Distance from Solar Panel Areas (0.5, 1, 2km)
- BESS Area (modelled at 3.5m)
- Substation Area (modelled at up to 6.35m)
- Area Reserved for TSO Substation
- Viewpoint - photomontage location
- Viewpoint - photograph and wireline
- Gardens and Designed Landscapes
- Recreational Routes
 - Berwickshire Coastal Path
 - Southern Upland Way
 - Core Paths
- Key Transport Routes
 - A Roads
 - East Coast Main Line
- Zone of Theoretical Visibility (Solar Panel Areas)
 - Greater extent visible
 - Lesser extent visible



SCALE: See Scale Bar	VERSION: A02
SIZE: A3	DRAWN: RK
PROJECT: Springfield Farm	CHECKED: MF
DATE: 23/05/2025	APPROVED: ME

Figure 6.6:
Visual Receptors

