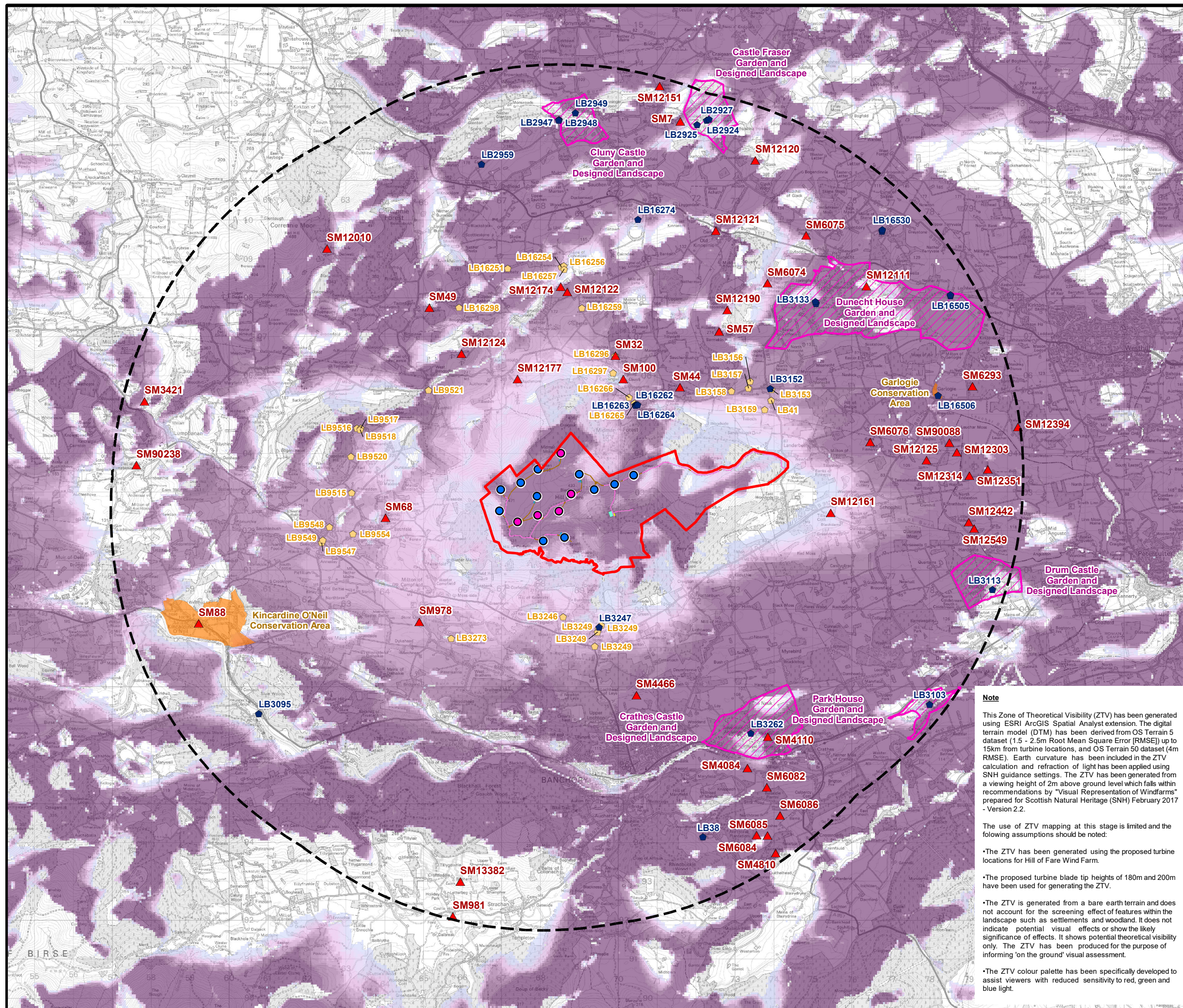


HILL OF FARE WIND FARM EIA REPORT

FIG 7.2

DESIGNATED CULTURAL HERITAGE ASSETS

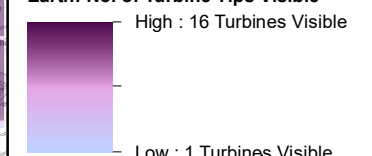
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KEY

- Site Boundary
- Proposed Turbine Location 10 km Buffer
- Proposed Turbine (180 m Tip)
- Proposed Turbine (200 m Tip)
- Scheduled Monument Centre Point
- Cultural Heritage**
- Category A Listed Building
- Category B Listed Building
- Inventory Garden and Designed Landscape
- Conservation Area
- New Site Track
- Upgraded Site Track
- Turning Head
- Control Building and Substation Compound with Permanent Hardstanding Area
- Battery Storage

Zone of Theoretical Visibility (ZTV) - Bare Earth: No. of Turbine Tips Visible



Note

This Zone of Theoretical Visibility (ZTV) has been generated using ESRI ArcGIS Spatial Analyst extension. The digital terrain model (DTM) has been derived from OS Terrain 5 dataset (1.5 - 2.5m Root Mean Square Error [RMSE]) up to 15km from turbine locations, and OS Terrain 50 dataset (4m RMSE). Earth curvature has been included in the ZTV calculation and refraction of light has been applied using SNH guidance settings. The ZTV has been generated from a viewing height of 2m above ground level which falls within recommendations by "Visual Representation of Windfarms" prepared for Scottish Natural Heritage (SNH) February 2017 - Version 2.2.

The use of ZTV mapping at this stage is limited and the following assumptions should be noted:

- The ZTV has been generated using the proposed turbine locations for Hill of Fare Wind Farm.
- The proposed turbine blade tip heights of 180m and 200m have been used for generating the ZTV.
- The ZTV is generated from a bare earth terrain and does not account for the screening effect of features within the landscape such as settlements and woodland. It does not indicate potential visual effects or show the likely significance of effects. It shows potential theoretical visibility only. The ZTV has been produced for the purpose of informing 'on the ground' visual assessment.
- The ZTV colour palette has been specifically developed to assist viewers with reduced sensitivity to red, green and blue light.

SCALE - 1:95,000 @ A3

ENVIRONMENTAL IMPACT ASSESSMENT REPORT 2023

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