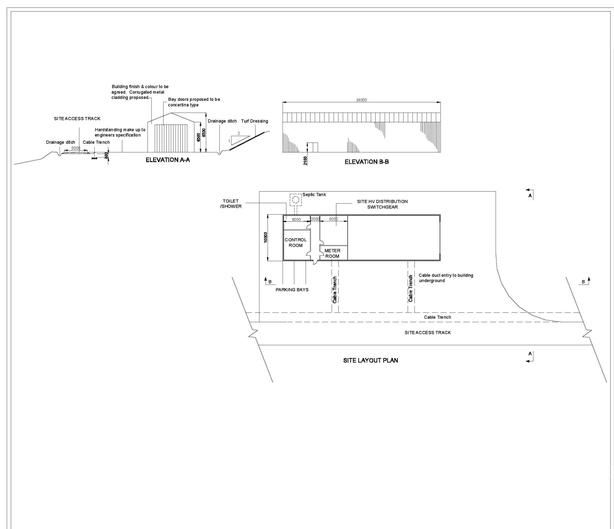
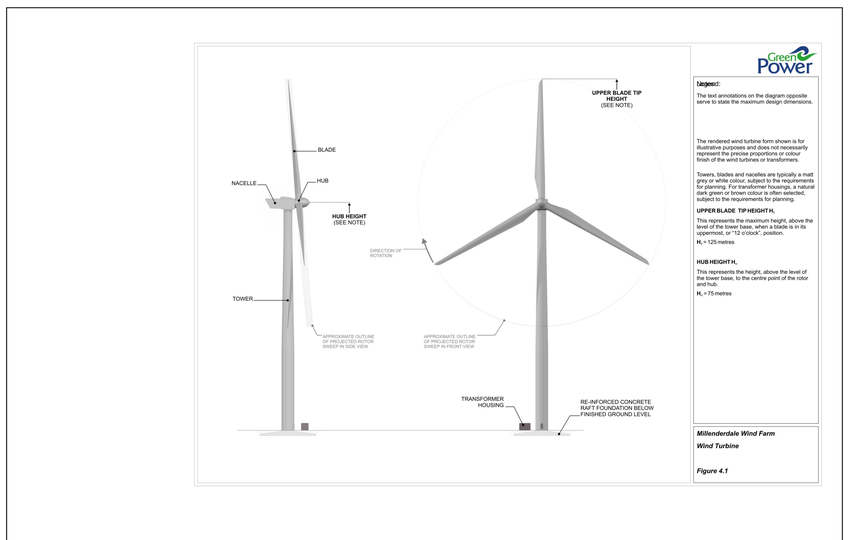
Site Infrastructure



Notes:

This is an indicative design for the extent of substation and control room facilities proposed. A microwave dish will also be required to be mounted on the building to provide communications links.

Millenderdale Wind Farm
Substation / Control Room
Figure 4.6



Notes:

The text annotations on the diagram opposite serve to state the maximum design dimensions.

The rendered wind turbine form shown is for illustrative purposes and does not necessarily represent the precise proportions or colour finish of the wind turbines or transformers.

Towers, blades and nacelles are typically a matt grey or white colour, subject to the requirements for planning. For transformer housings, a natural dark green or brown colour is often selected, subject to the requirements for planning.

UPPER BLADE TIP HEIGHT H_t

This represents the maximum height, above the level of the tower base, when a blade is in its uppermost, or "12 o'clock", position.

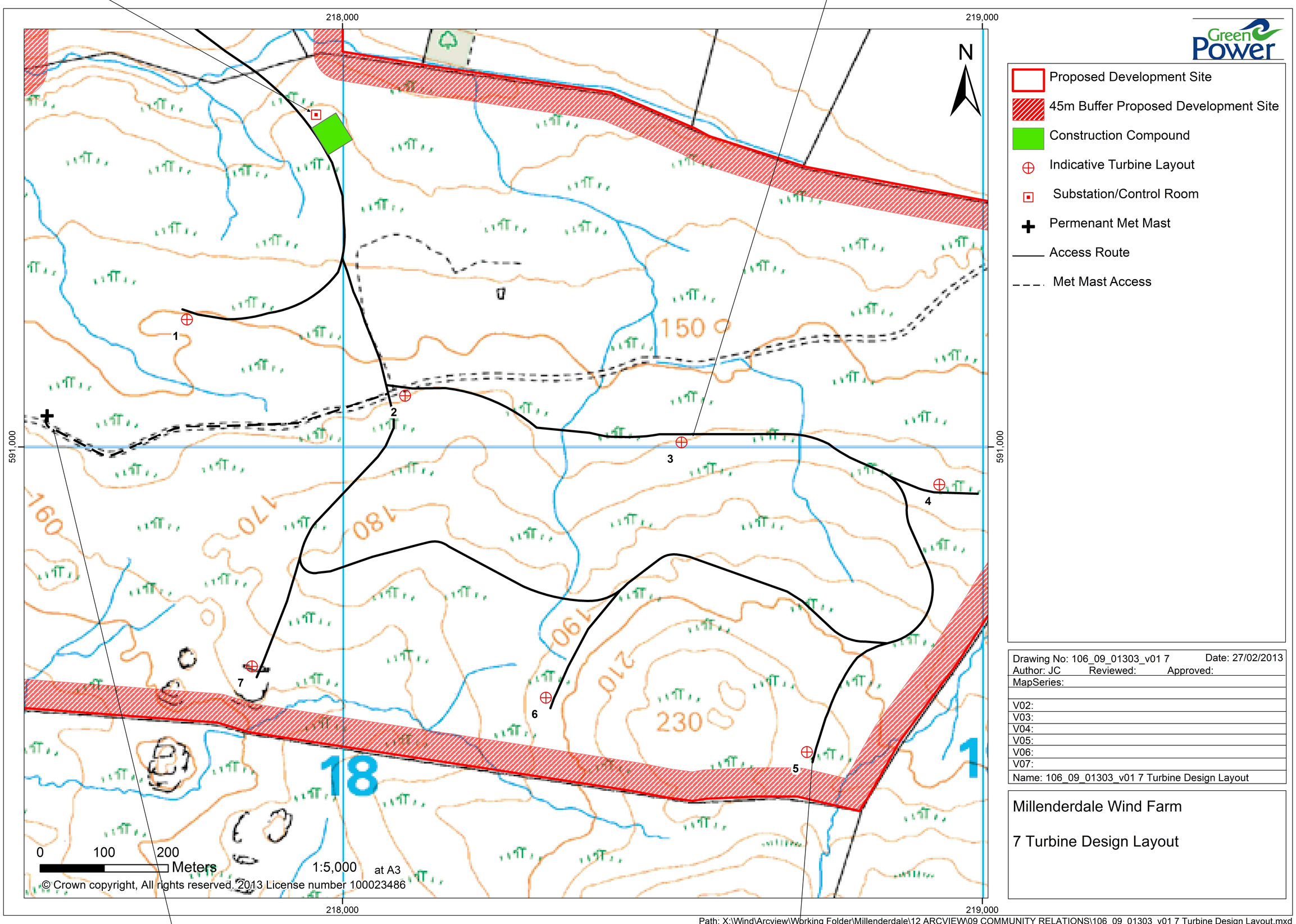
H_t = 125 metres

HUB HEIGHT H_h

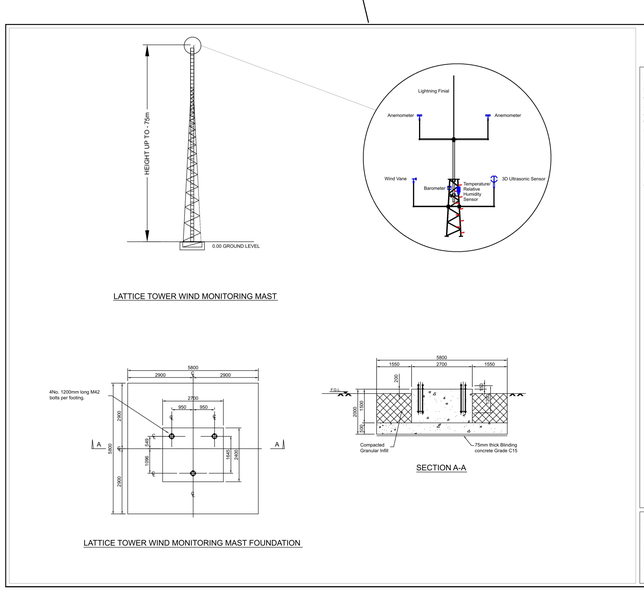
This represents the height, above the level of the tower base, to the centre point of the rotor and hub.

H_h = 75 metres

Millenderdale Wind Farm
Wind Turbine
Figure 4.1



Path: X:\Wind\Arcview\Working Folder\Millenderdale\12 ARCVIEW\09 COMMUNITY RELATIONS\106_09_01303_v01 7 Turbine Design Layout.mxd

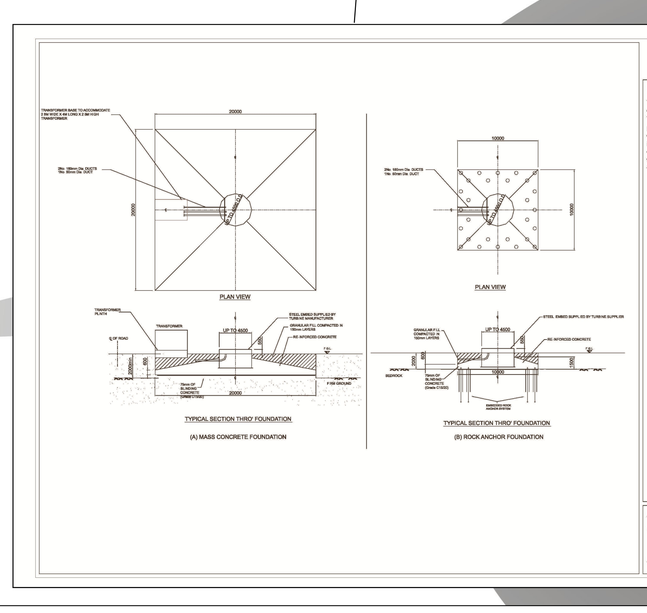


Notes:

This figure represents an indicative design for wind monitoring mast which is required to be erected on the Site. It shall serve for the lifetime of the wind farm and provide measurement of wind speed and direction together with other climatic parameters.

Equipment specification on the mast will be subject to wind turbine manufacturer's requirements. Additional sensors to those illustrated will be required at various locations on the mast.

Millenderdale Wind Farm
Wind Monitoring Mast
Figure 4.4



Notes:

The figures opposite illustrate two possible design types and represent indicative foundation designs only.

Prior to construction, detailed foundation design will be carried out based upon invasive ground investigation at each turbine position. The designs will be modified to suit these specific ground conditions and are likely to vary over the area of the site.

Millenderdale Wind Farm
Turbine Foundation
Figure 4.2