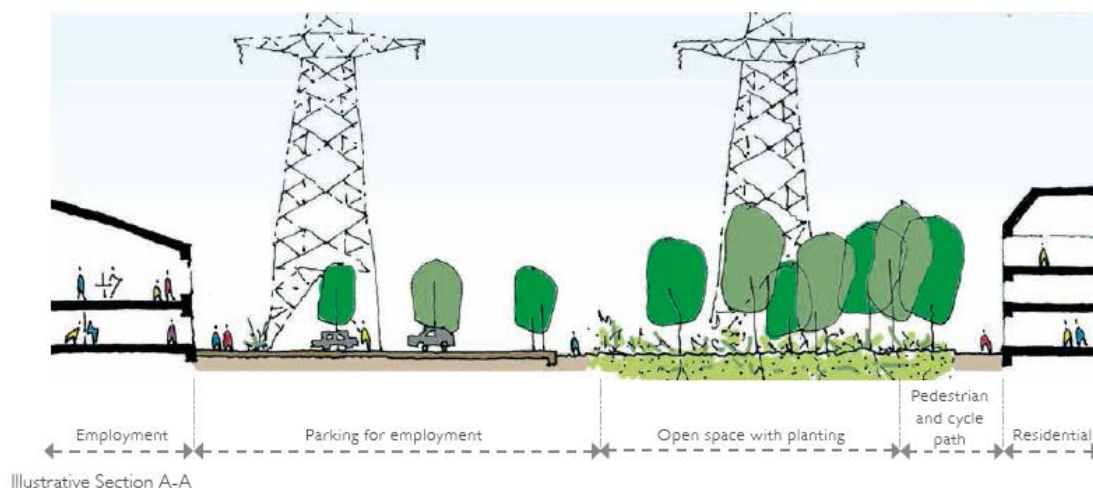


Eastern Employment Character Area Inaccuracies

Section '8.7 Eastern Employment Character Area' in document 'NEW DETAILS D&A STATEMENT 8 PLACEMAKING 2' submitted by the developer to the outline planning application on 14th October 2016, includes the following illustration and text:



The area has been designed to incorporate and work with the identified constraints, particularly the two high voltage power lines (132Kv), with associated pylons which run in a north east to south west direction, crossing over Spratsgate Lane. Due to the swing and sag of the overhead powerlines no buildings are proposed directly beneath them. Roads and parking areas are permitted under the powerlines.

The text is incorrect. Only one of the high voltage power lines is 132 kV (figure 1). This is the one closest to the current residential area and depicted in their illustration above as the one on the right. The other high voltage power line is 400 kV, National Grid code and route 'ZF L2 400 Melksham – Minety - Upper Coberley Tee – Feckenham'.

The 400 kV L2 type tower's (pylons) power lines are all strung significantly lower than the lines on the 132 kV L3 type. This is clearly evident in the photo below of the actual area (figure 2).

If the employment area is built close to, or at, the maximum height (12m) specified in document 'NEW DETAILS ES ADDEN FIG 3.3 AMENDED HEIGHTS PARAMETER PLAN' also submitted by the developer to the outline planning application on 14th October 2016, then the level of the power lines would be more in the vicinity of the roof of the building than twice as high as it. The 132 kV lines would also be lower than drawn.

400 kV power lines also produce a substantial amount more electric and magnetic fields (EMF) than 132 kV lines. See figure 3 for differences in magnetic fields.

EMF Known Effects (from www.emfs.info)

EMFs definitely have some effects on us as humans – but at high field levels, bigger than we usually meet in the environment.

These established effects include:

- Induced currents in the body
- Microshocks
- They also have effects on equipment such as VDUs, and on pacemakers and on some other implanted medical devices
- These effects are well understood and there are exposure guidelines in place to protect against these effects.

Other suggested health effects of EMFs such as cancer are not regarded as "established" effects.

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An additional note on the 132 kV L3 line, if up-rated with longer insulators and a different type of twin conductor cable could in theory be up-rated up to 275 kV. It is rare for this to be done, but if Cirencester increases to grow and power demand increases, then this is an option that should be factored in to the proposed development plan.

If up-rated with longer insulators the power lines will, as per the 400 kV lines, be strung considerably lower than they are now, and with the higher voltage the EMF will also be at a higher level.

Whilst only an illustration, and not a to-scale drawing, the 'Eastern Employment Character Area' submission by the developer is far from a true representation of the proposed development area. So that the public do not base their comments on these inaccuracies and planning decisions are not made using them, please can the developer correct the text and illustration and resubmit it.



Figure 1 – From www.product.itoworld.com/map/183



Figure 2 – 132 kV L3 on left. 400 kV L2 lower strung on right.

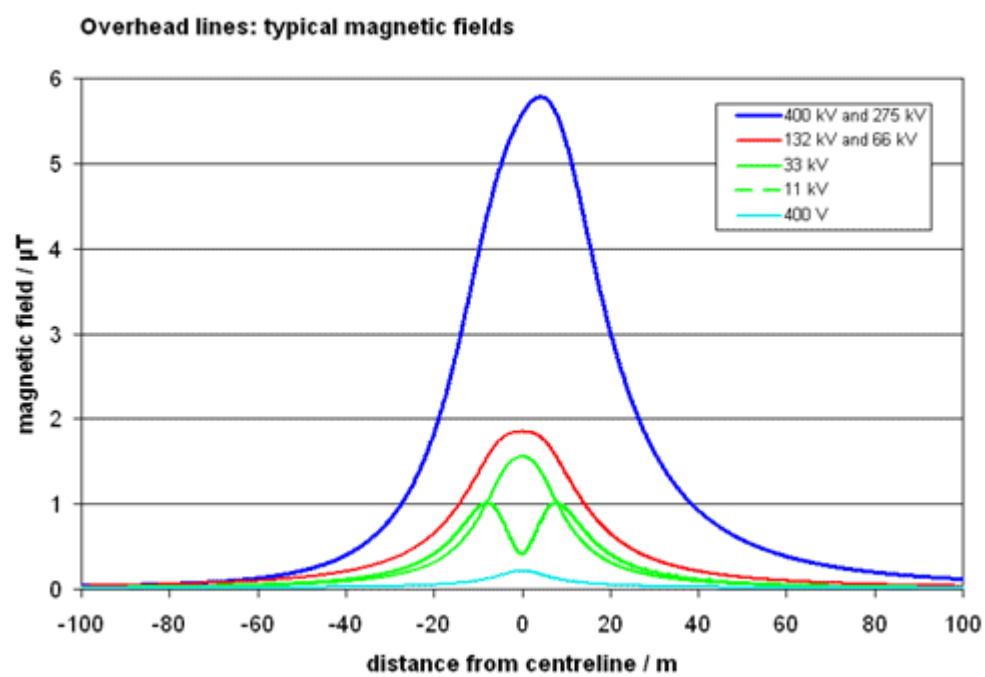


Figure 3 – From www.emfs.info