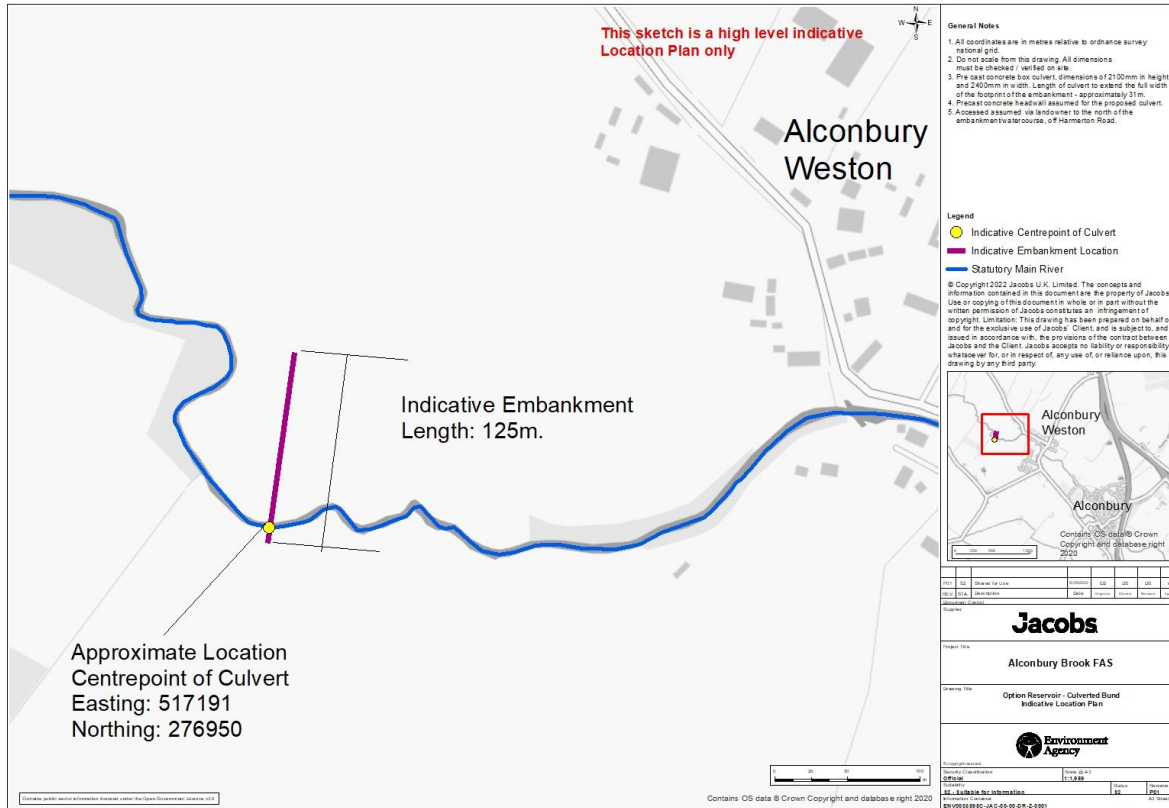


## Option: Reservoir – Culverted Bund



Earth bunds (3:1 slope) to create reservoir storage area. Potentially include a concrete (or similar) control structure perpendicular across floodplain with a concrete culvert at the base of the existing watercourse bed will allow flow through.

### Advantages

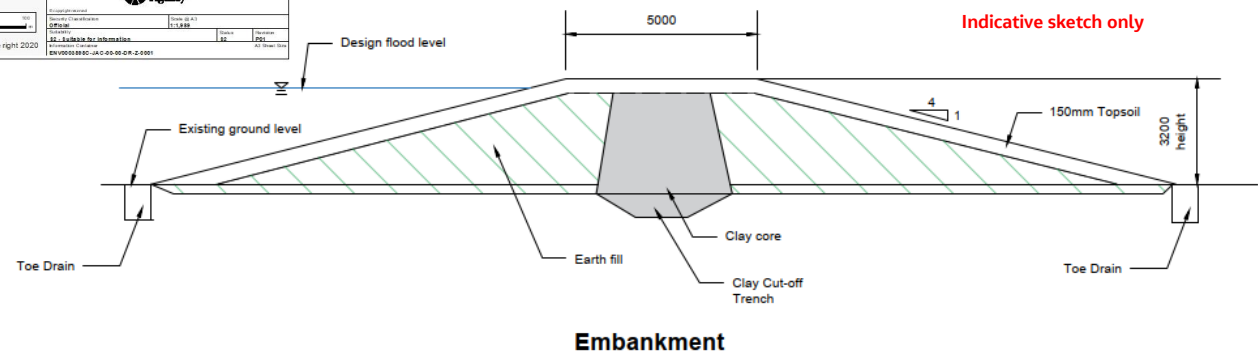
Outside of villages – reduces direct impact on community.

Potential for tree planting, wetland creation and river meanders which will likely have a positive landscape and potential Biodiversity Net Gain benefit.

### Disadvantages

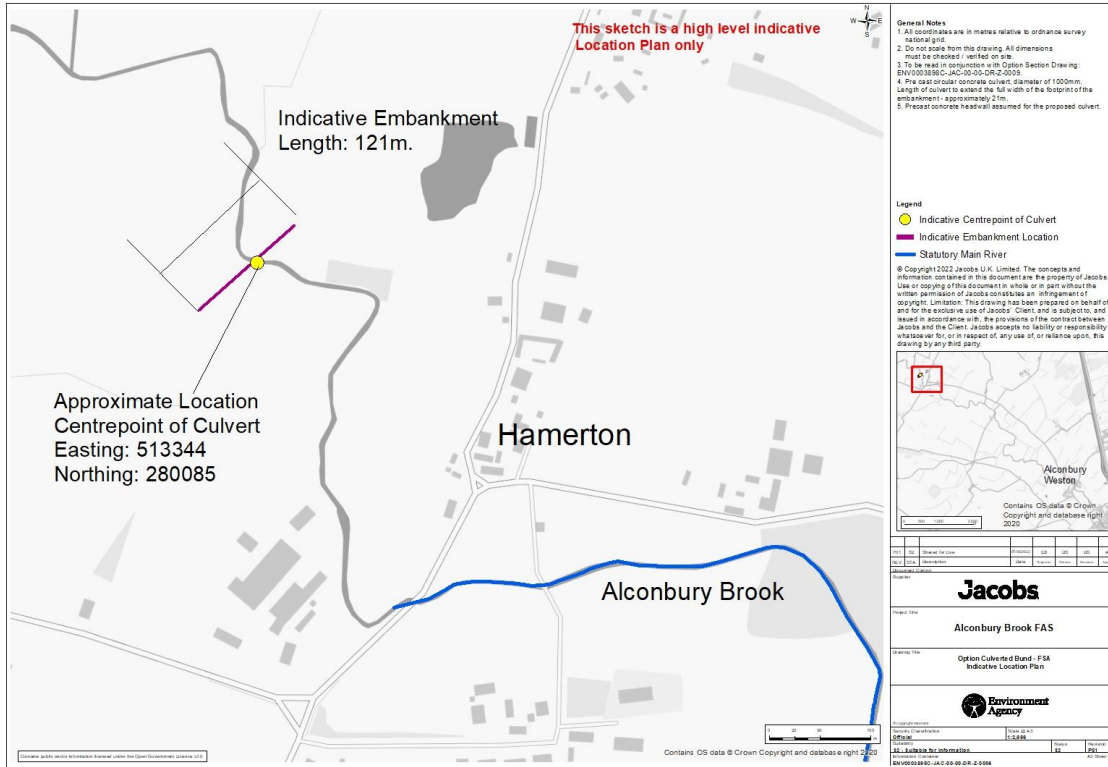
Considered likely to have some benefit to both villages, though expected that the greater benefit will predominantly be to Alconbury Weston. Likely to work better in combination with other viable option/s in order to provide sufficient flood risk benefits to both villages.

Likely require concrete culvert structure. Culverting of a watercourse will have negative impacts on aquatic and riparian habitat.





## Option: Culverted Bund – Flood Storage Area + Option Cumulative Storage



**Option Culverted Bund:** Earth bunds (3:1 slope) to create reservoir storage area. Potentially include a concrete (or similar) control structure perpendicular across floodplain with a concrete culvert at the base of the existing watercourse bed will allow flow through.

**Option Cumulative Storage:** The Alconburys Flood Group believe around 40 offline ponds would result in a modest impact on flood risk.

### Advantages

- Outside of villages – reduces direct impact on community.
- Potential to create new habitat and community benefits within flood storage area (flood meadows, wetland and/or shallow ponds).

### Disadvantages

- Considered unlikely to significantly reduce flood risk to Alconbury and Alconbury Weston as a standalone option.
- Multiple storage areas comparatively potentially greater cost than an equivalent volume single large storage area.
- Likely require concrete culvert structure. Culverting of a watercourse will have negative impacts on aquatic and riparian habitat.

