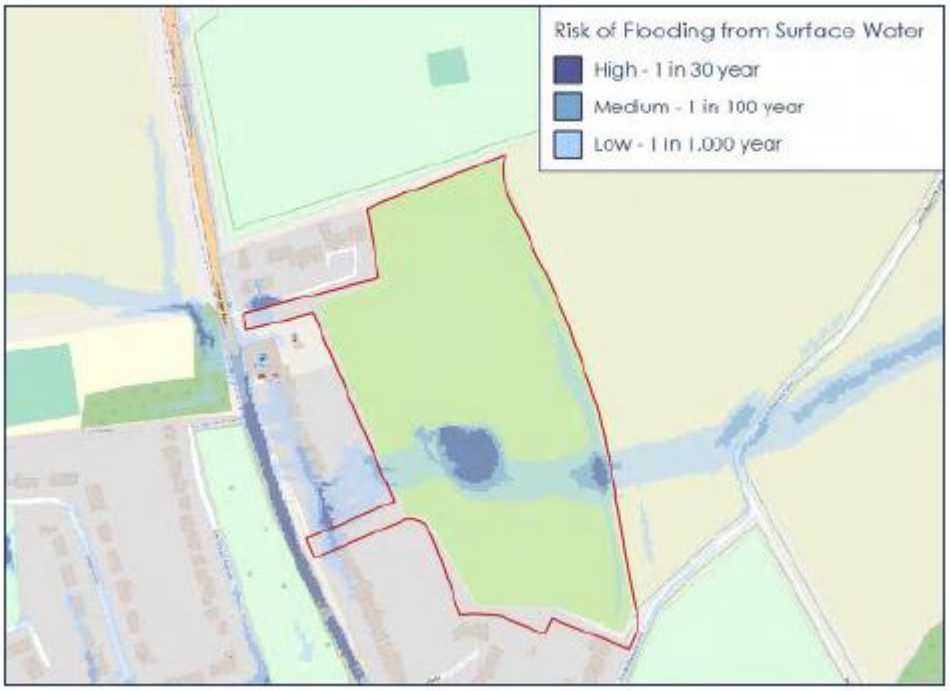
<u>Cala Reserved Matters Application 5/2024/1284</u>

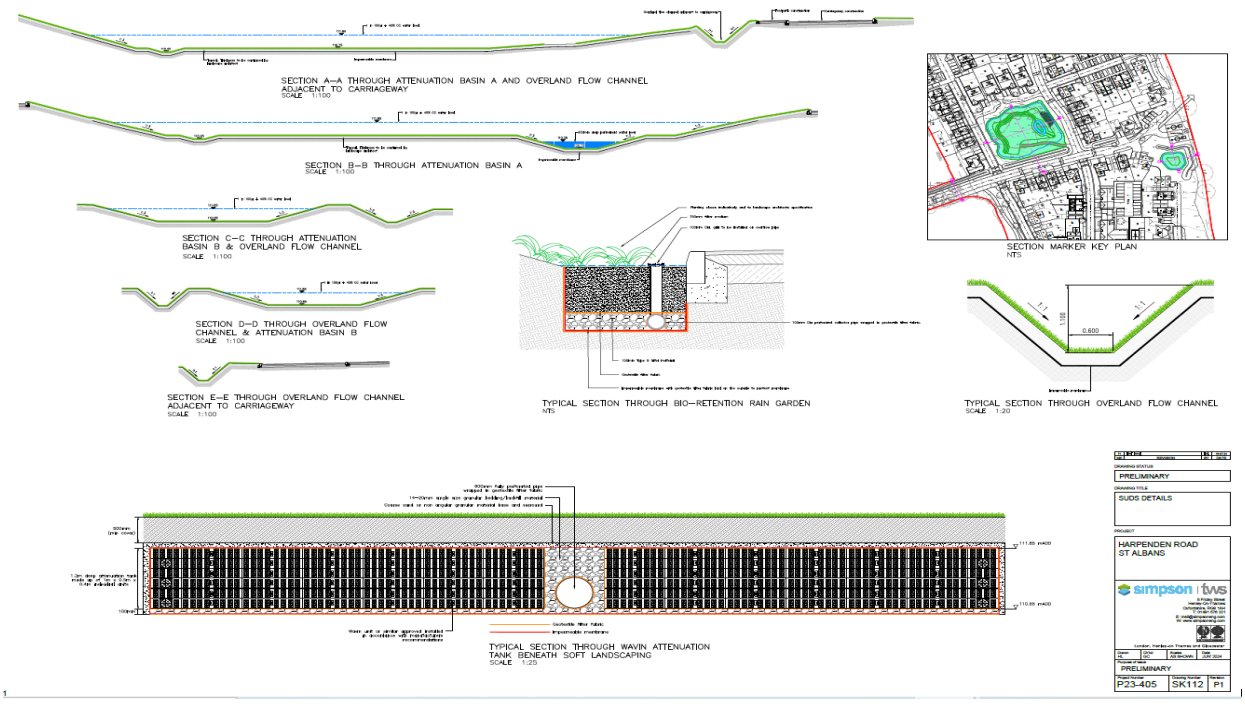
At three intersections in the swale design we see 1:1 gradients, which are unsafe, being above head height of the average adult female in the UK. Cala should be mandated to return with a new reserved matters application and SUDS scheme that is complaint with Government standard designs.

Problem of flood flow path: **Flood Risk Assessment 1 Simpson TWS Document 10190038**

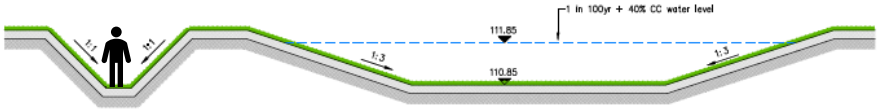
Figure 1-2 Surface Water Flood Map



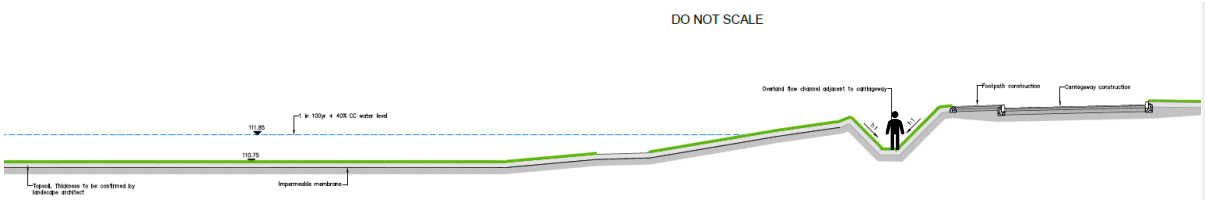
Swale designs Flood Risk Assessment 1 Simpson TWS document 10190038, page 81.



SECTION E–E THROUGH OVERLAND FLOW CHANNEL ADJACENT TO CARRIAGEWAY
SCALE 1:100



SECTION D–D THROUGH OVERLAND FLOW CHANNEL & ATTENUATION BASIN B
SCALE 1:100



SECTION A–A THROUGH ATTENUATION BASIN A AND OVERLAND FLOW CHANNEL ADJACENT TO CARRIAGEWAY
SCALE 1:100

Flo Consulting Letter dated 30th June 2025. To which the David Uncle from Herts County Council LLFA has no technical response.

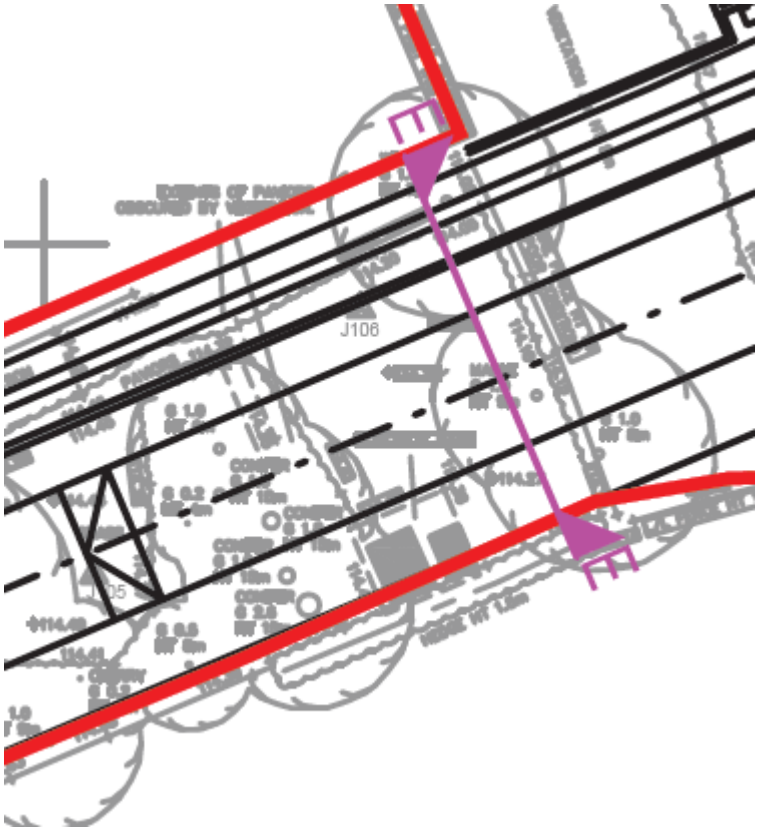
> It is extremely difficult to maintain vegetation / grass on a 1 in 1 gradient, as the maintenance machines / vehicles cannot access the steep slopes to cut back the vegetation / grass growth. Subsequently the swale width and surface water capacity will be reduced as the vegetation / grass grows, leading to reduction in flows and increasing risk of potential flooding.
>
> Safe working depths in trenches (a swale in this instance) shouldn't exceed 1.20m. As the swale is up to 1.697m deep, safe access and egress cannot be made without the use if aids such as access ladders.
>
> The use of ladders and other aids for access and egress may be difficult to achieve with the vegetation / grass growth along the swale. Access aids shouldn't be relied upon in areas which are subjected to high water levels and velocities, where quick egress is required in an unexpected storm event.

1.697m = 5 feet 7inches

Average height of men in UK = 5 feet 9 inches

Average height of women in UK = 5 feet 6 inches

Section E-E is across the access road, which is not a suitable width to accommodate a swale designed to minimum regulation standards.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