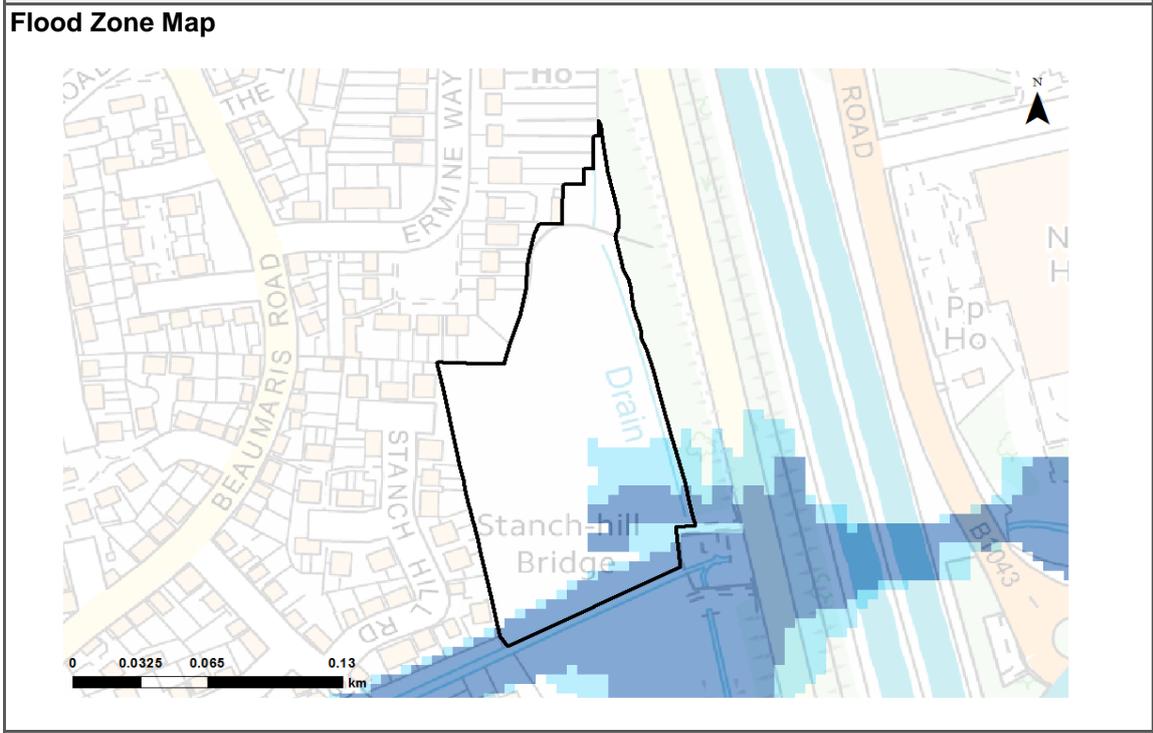


Bill Hall Way Sawtry (SY7)

OSNGR: 517436,283208	Area: 1.70ha		Greenfield	
Flood Zone Coverage:	FZ3b 0%	FZ3a 12%	FZ2 9%	FZ1 79%

Sources of flood risk:
 The site is at risk from an unnamed drain flowing along the southern boundary. Surface water flood risk is more significant with a large proportion of the southern area of the site at risk from the 0.1% AEP event.

Exception Test Required?
 Yes, if More Vulnerable and Essential Infrastructure development is located in FZ3a and for Highly Vulnerable development located in FZ2.
 Highly Vulnerable infrastructure should not be permitted within FZ3a and FZ3b.
 More Vulnerable and Less Vulnerable Infrastructure should not be permitted within FZ3b.
 Essential Infrastructure in Flood Zone 3b will require the Exception Test.



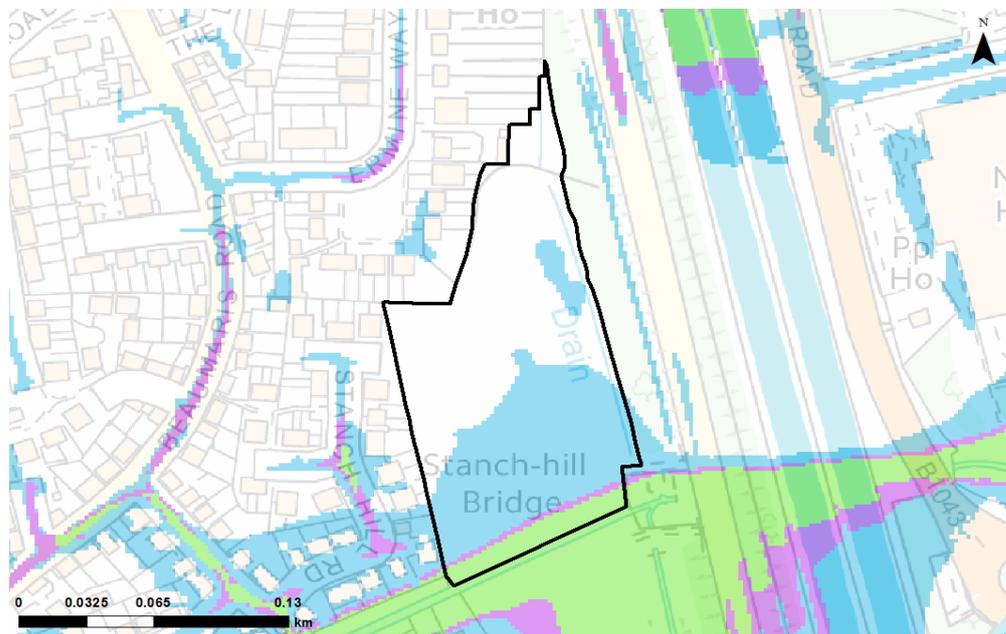
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Potential development location	Flood Zone 3b	Flood Zone 3a
Council boundary	Indicative Extent of Flood Zone 3b	Flood Zone 2

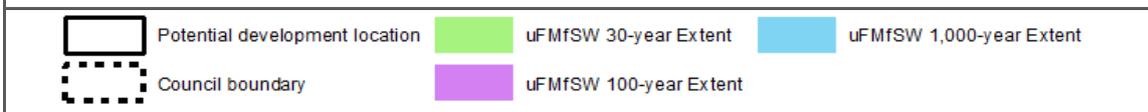
Climate Change Map

No climate change mapping available as there is no detailed hydraulic model available for this watercourse. A hydraulic model should be developed as part of a site-specific flood risk assessment.

Surface Water Map



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SuDS & the development site:		
SuDS Type	Suitability	Comments
Source Control		All forms of source control are likely to be suitable.
Infiltration		Infiltration likely to be suitable. Mapping suggests a low risk of ground water flooding however, site investigations should be carried out to assess potential for drainage by infiltration.
Detention		Mapping suggests that the site slopes are suitable for all forms of detention.
Filtration		All filtration techniques are likely to be suitable. If the site has contamination issues; a liner will be required.
Conveyance		All forms of conveyance are likely to be suitable. Where the slopes are >5% features should follow contours or utilise check dams to slow flows. If the site has contamination issues; a liner will be required.
<p>Drainage strategies should demonstrate that an appropriate number of treatment stages have been delivered. This depends on the factors such as the type of development, primary source of runoff and likelihood of contamination. Guidance should be sought from the LLFA and other guidance documents such as the CIRIA SuDS Manual (C753).</p>		
<p>Flood Defences: There are no flood defences at this site.</p>		
<p>Emergency Planning: This site is partially covered by the Middle Level Commissioner Area Flood Warning Area</p>		
<p>Access & Egress: The main access and egress route, to the east of the site is not significantly affected by fluvial or surface water flooding.</p>		
<p>Climate Change: Climate change may mean that in the future, what is currently considered Flood Zone 2 may become Flood Zone 3 and the extent of Functional Floodplain may also increase. The depth of flooding may also increase. Climate change may increase the extent and depth of surface water flooding in the future to the extent that it may affect the site.</p>		
<p>Implications for Development: Use of the Sequential Approach means development can be placed away from Flood Zones 2 and 3, with the area affected by flood risk left undeveloped - approximately 1.4 hectares of land is available for development outside of the Flood Zone 2 and 3. Safe access and egress is not an issue for this site. Broadscale assessment of suitable SuDS has indicated a number of different types may be possible; given the size of the site, the type of SuDS system used is likely to be limited by the amount of land available for development. The site is partially covered by the Environment Agency's Flood Warning Service. However, if development is placed outside of the Flood Zones, then access to the Flood Warning Service would not be required. The site is not known to benefit from any flood defences. Given the size and location of the site, it is unlikely the site could be used to implement strategic solutions to alleviate flood risk elsewhere in the catchment given the land requirement that any strategic storage solution would require.</p>		

Guidance for Developers:

At the planning application stage, a site-specific flood risk assessment will be required if any development is located within Flood Zones 2 or 3. Other sources of flooding should also be considered.

Mapping in this table is based on the Flood Map for Planning. A detailed model will be required of the unnamed watercourse to assess the extent of flood risk to the site.

Resilience measures will be required if buildings are situated in the flood risk area. Where a site specific FRA has produced modelling outlines which differ from the Flood Map for Planning then a full evidence based review would be required; where this is acceptable to the EA then amendments to the Flood Map for Planning may take place

The peak flows on the unnamed drain should be considered when considering drainage.

Assessment for runoff should include allowance for climate change effects.

New or re-development should adopt exemplar source control SuDS techniques to reduce the risk of frequent low impact flooding due to post-development runoff.

Onsite attenuation schemes would need to be tested against the hydrographs of the unnamed drain to ensure flows are not exacerbated downstream within the catchment.

Safe access and egress will need to be demonstrated; currently access and egress is affected by surface water flooding from a 30-year event.

New development must seek opportunities to reduce overall level of flood risk at the site, for example by:

- o Reducing volume and rate of runoff
- o Relocating development to zones with lower flood risk
- o Creating space for flooding.
- o Green infrastructure should be considered within the mitigation measures for surface water runoff from potential development and consider using Flood Zones 2 and 3 as public open space.

Consultation with the Local Authority, The Commissioners, Sawtry IDB and the Environment Agency should be undertaken at an early stage.