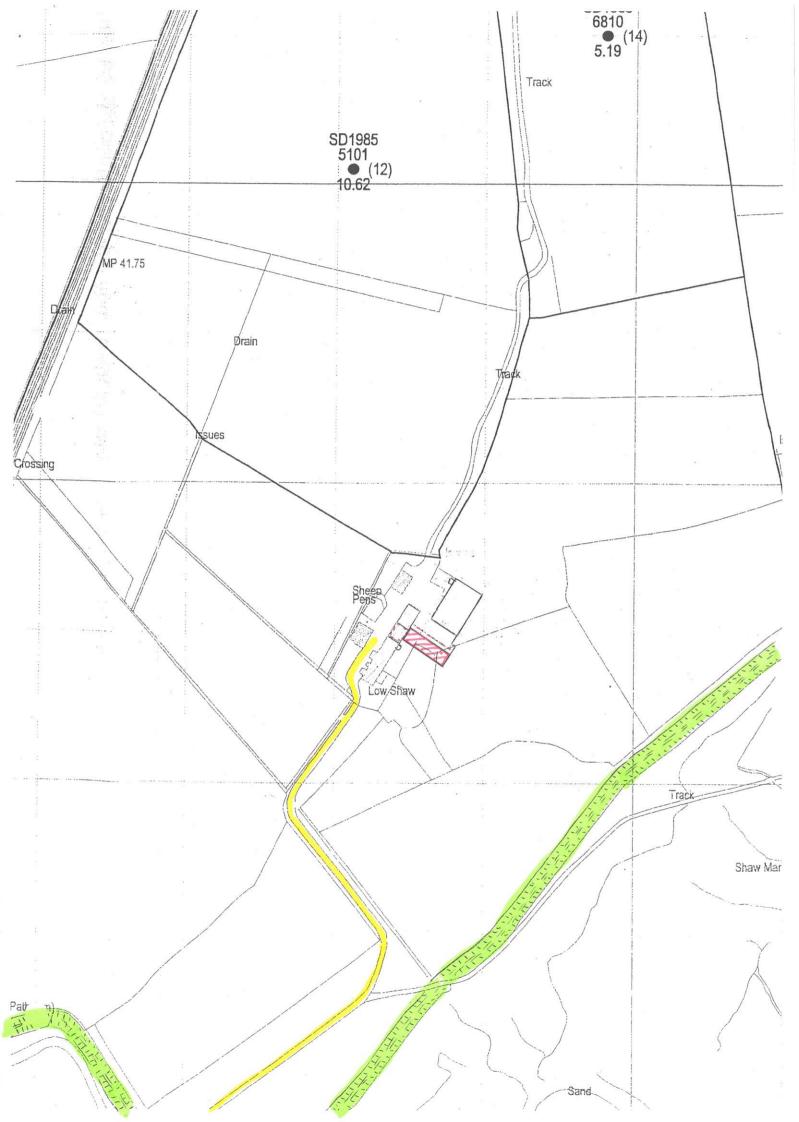
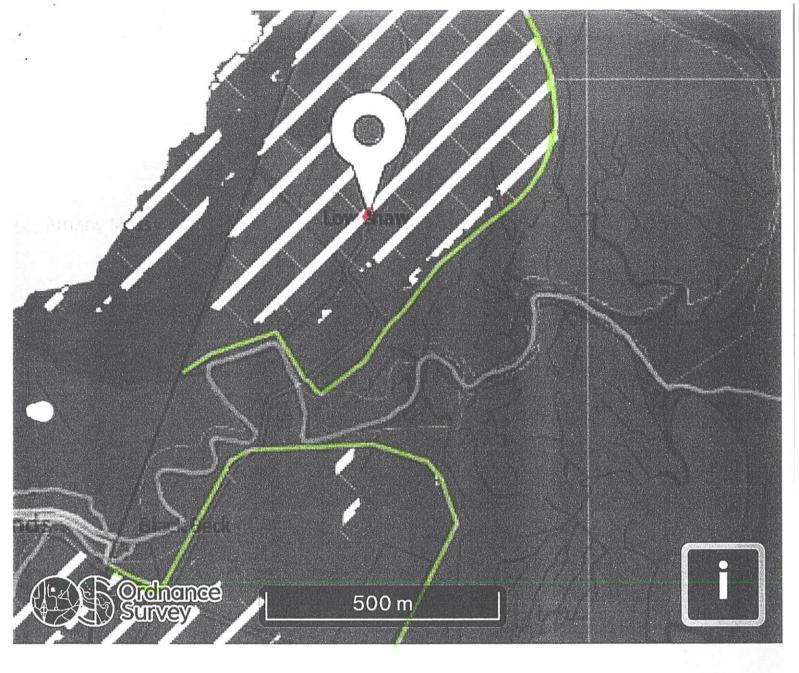
Ref: Erest Milking parlow / dairy "Rockland" building Lady Hall Low Show Farm The Green Millom Milliam. Cumbria LAIS SJO Cumbria LA18 5HR Flood Risk Assessment. 01-06-23 Enclosed := (Showing features mentioned later in the assessment) · Capy of as map, scale 1:2500 showing :-A) Position of proposed building relative to existing buildings. identified RED B) Access Trade (from Gneen Road - near station) YELLOW c) Flood defence banking GREEN · E.A. flood map for planning, showing :-0) Lozation is within plood Zone 3 with benefit from flood defences, a defence banking dentified GREEN · Gov, uk (longtern flood nsk information) showing: =) Position of proposed building ---- identified RED F) Risk of flooding from Rivers & Sea", &"surface water" is Low (Edge of the dark Flood Zone 3' area is the flood defence banking extending from million to Duddon Bridge? 1) In the absence of 05 levels, or bench marks in the local area, we can assess the general field level to be aprox 5.7 400. This seems to be the average field plane, from previous F.R. assessments where os Lands have been available), along the edge of the duddon estivary. 2) From previous environment agency correspondance, The flat calm tidal flood levels in this area are groted below : 1 in 100 year indefended modelled flood level - - = 5.97 AOD 1 in 200 year in In 1000 year .. 11 = 6.63 AOD. is one model result, allowing for dimate change, predicted for the year 2115 !-1 in 2000 year indefended modelled plood level \_ - 7.0 AOD 3) The flood defences mentioned on the E.A. map consists of a coastal embourkment which was completed in 1963 a extends from Millom to Duddon Bridge with the only large interruption being where the 'Black Beck" enters the estimany at lincen Read station (the embankment returning both sides of the beck in wards as far as the railway line embankment This embankment is believed to have been constructed by the owners of "Lowther estates" to protect their then awned farms. or is aprox 7.0 AOD 4) All drams a gutters flow into main gutters running invited a parallel to the embankment + exit under the embankment via sluices into the estuary, o which appear to be kept in good working order.

- 5) Whilst the hight of the defence embankment being aprox the same as the predicted 1 in 200 year modelled flood level in 2005 of 7.0 m any wind/gale booked high tides would cause averlapping of the same. This does happen even now at such times & the embandment was breached in 2 places near Lady Hall during Feb. 2002.
  - 6) The applicants have been tenents of Low Shaw farm for 65 years & are aware of potential flooding. The Local tide tables a weather forecasts are used all the time, to know when to bring the sheep off the marsh into the fields.
  - 7) The proposed building is to have its main floor level 350m (4) doone the field & existing yard level. is aprox 6-05 AOD. This will ensure normal surface water flooding, which does full the hollows in the fields during spells of heavy rain does not effect the building. The dairy floor will be on higher, at aprox 6-15 ADD. If in the future, due to feature of the defence embankment as in para 5 there was tidal flooding, the water would be able to enter a exit the building freely with art effecting the livestock. Bulk tanks + electical work in the dairy floor level.
  - 3) As much rainwater as possible is being neused, by catching roof water in banks of butts, to be used in daily walkdowns of the milking parlow only the overflow going into soakaways.







Selected location



Flood zone 3



Areas benefiting from flood defences

Flood zone 2

Flood zone 1

Flood defence

LOW SHAW FARM, THE GREEN, MILLOM, LA18 5JD	
Rivers and sea risk	<b>Low risk</b> Low risk means that each year this area has a chance of flooding of between 0.1% and 1%.
Surface water risk	Low risk Low risk means that each year this area has a chance of flooding of between 0.1% and 1%. Lead local flood authorities (LLFA) manage the risk from surface water flooding and may hold more detailed information. Your LLFA is Cumbria.
Reservoir risk	There is no risk of reservoir flooding
Groundwater risk	No risk of groundwater flooding

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