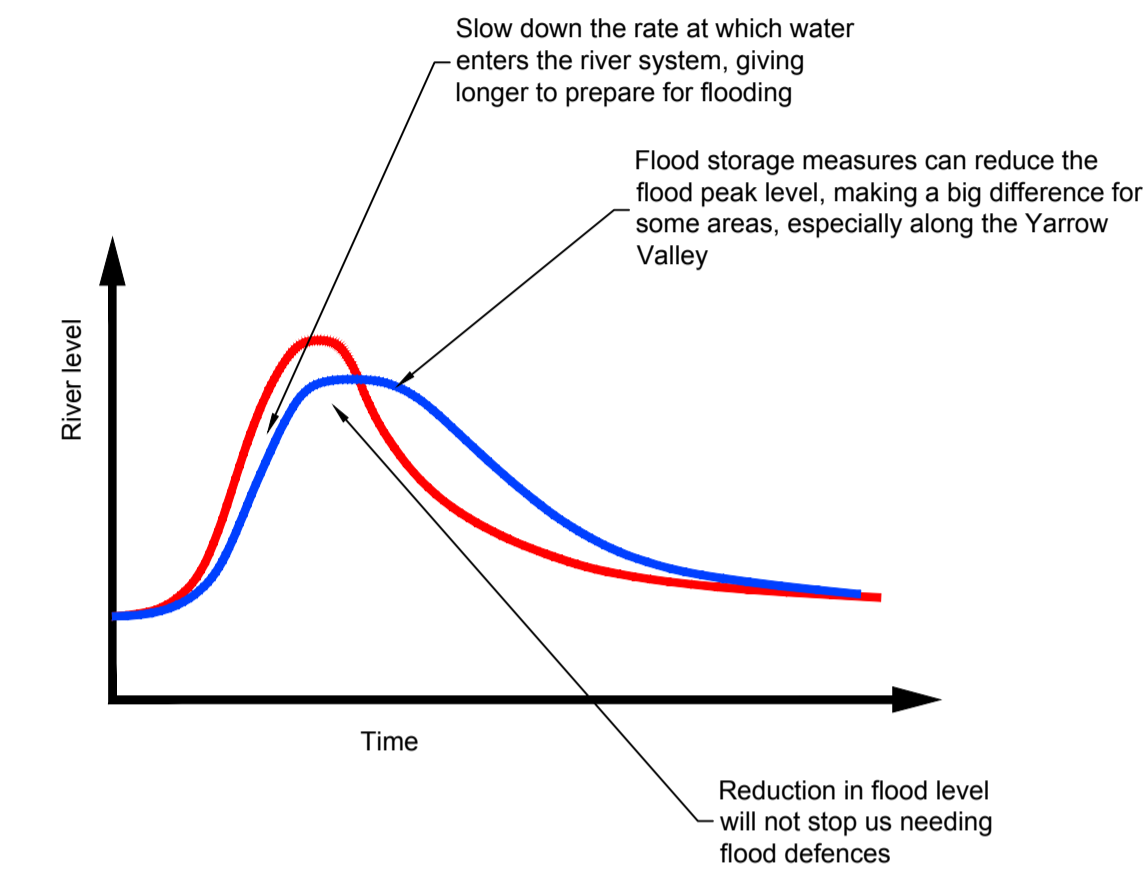
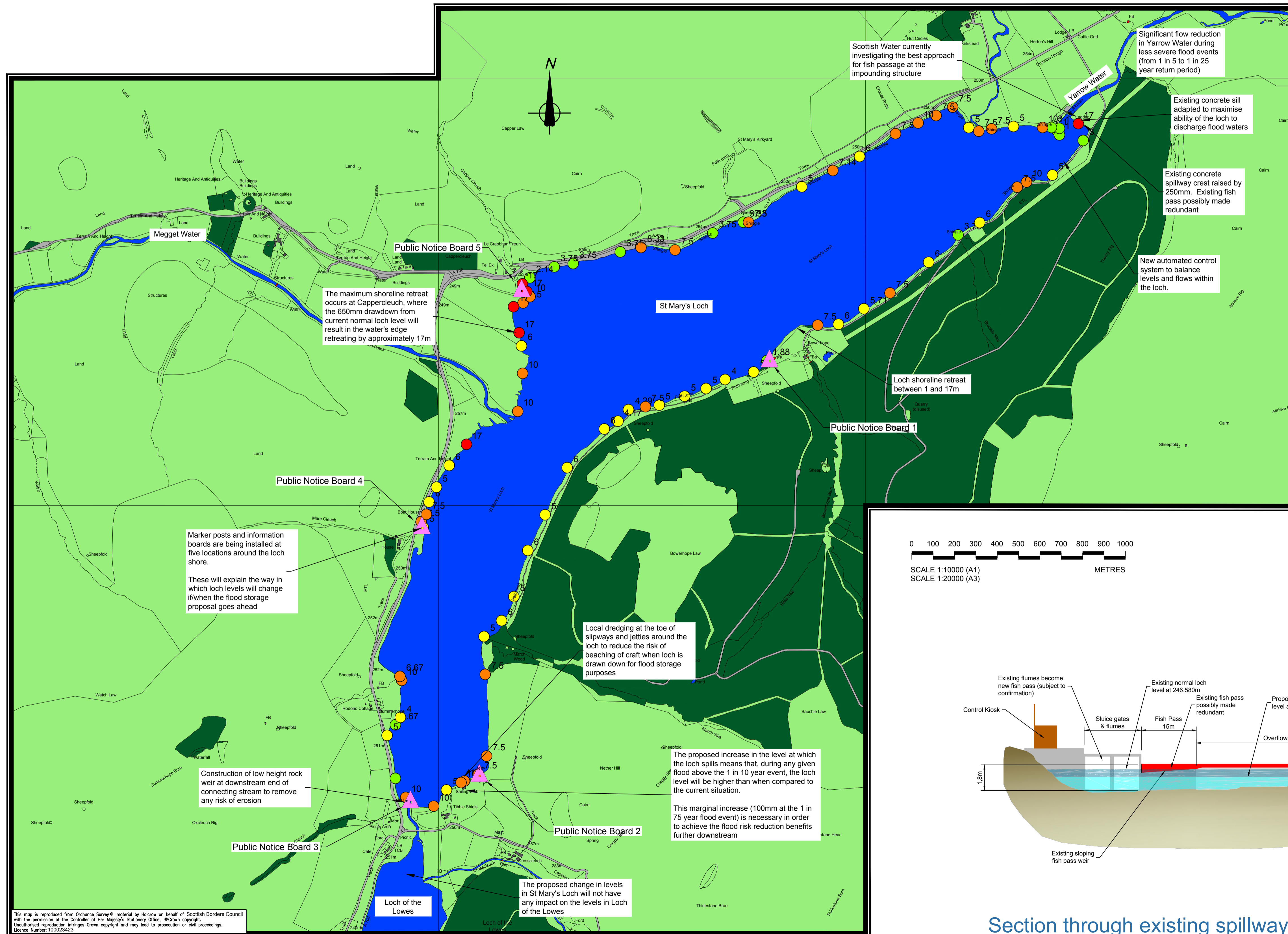
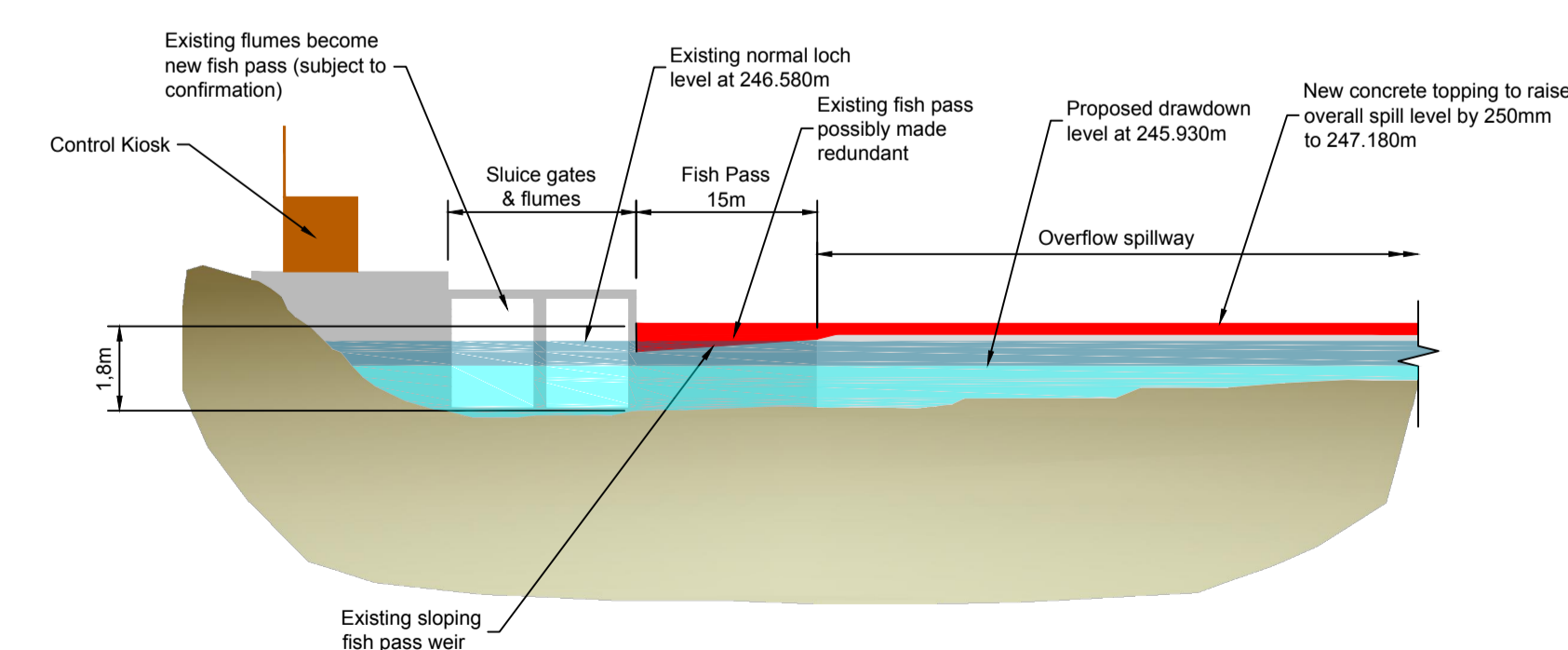
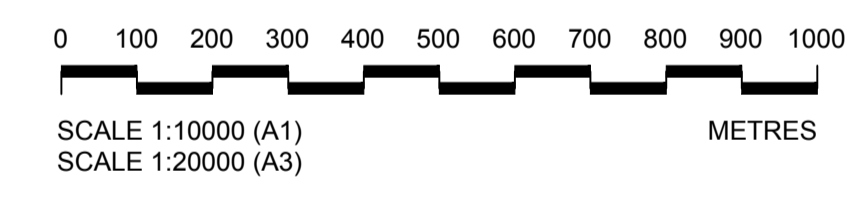


selkirk flood protection scheme

St. Mary's Loch Flood Storage Option



- What is the St. Mary's Loch (SML) Option?:**
- The SML Option involves adapting the operation of the existing flow control structures, to further utilise the natural ability of the loch to store flood water during a Flood Event and reduce downstream flood risk. The flood storage proposals are being reviewed by a Working Group of interested Stakeholders known as the St. Mary's Loch Working Group (SMLWG).
- What do we hope the SML Option will achieve?:**
- Once completed the SML Option will provide a new management system which will be intelligently programmed to manage water levels dependant on the season and the weather forecast.
 - The water level in the loch (the 'Normal Loch Level') will be lowered by approx. 650 mm below the water levels currently experienced.
 - During a Flood Event the loch will be allowed to fill, as it currently does, but starting from this lower level.
 - The level at which the loch currently spills will be increased by 250mm to further increase the storage capacity.
 - This will allow approximately 3 million cubic metres of water to be held in the loch and thus kept out of the Yarrow Water
 - We currently estimate Peak Flows in the Yarrow Water will be reduced by up to 20% during the 1 in 25 Year Flood Event.
 - Once a Flood Event has passed, the flood water held in SML will be released in a controlled manner, returning the loch level to the new 'Normal Loch Level'.
 - NB: The SML flood storage proposal can only reduce flood risk - it cannot eliminate flood risk. At the most severe flood events (1 in 100 to 1 in 200 year return period), the flood storage effects are overwhelmed by the volume of water entering the catchment



0m to 4m of retreat	-	●
4m to 7m of retreat	-	●
7m to 11m of retreat	-	●
11m to 17m of retreat	-	●

Section through existing spillway and proposed changes to achieve the required flood storage