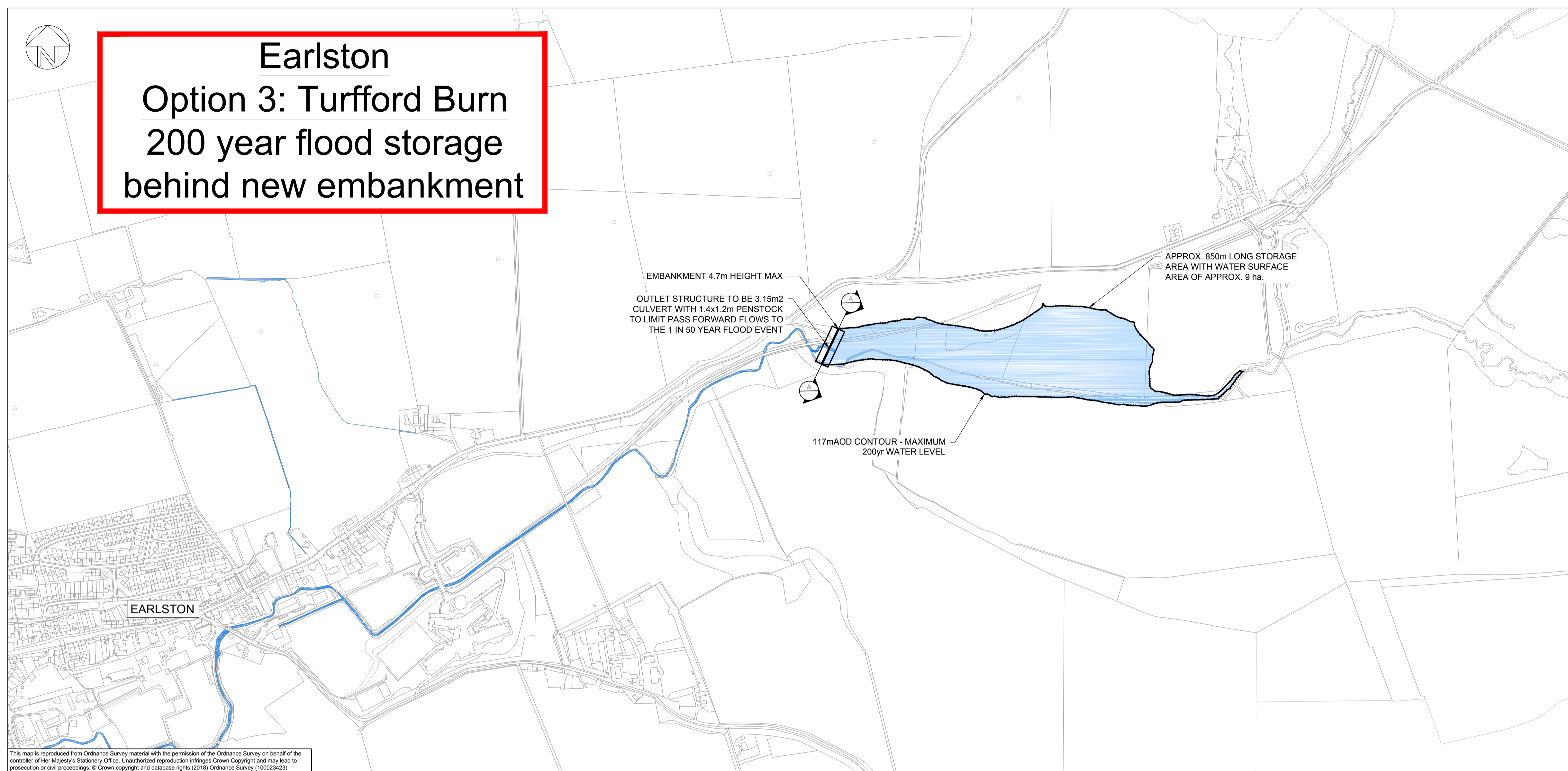




Earlston

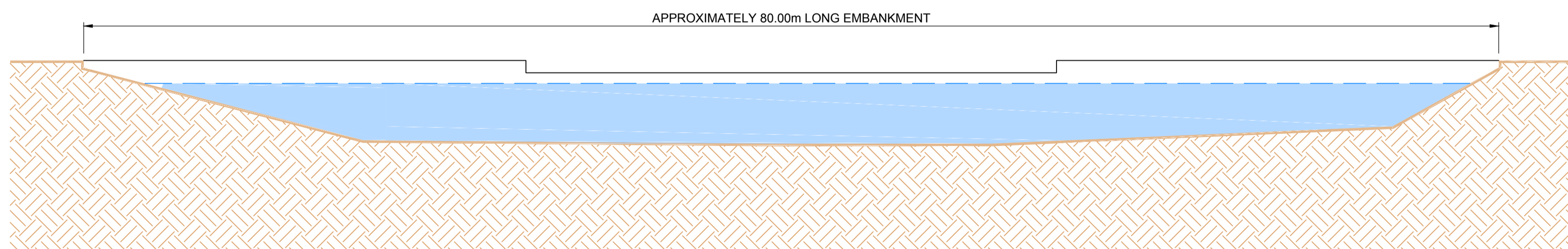
Option 3: Turfford Burn

200 year flood storage behind new embankment



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PLAN
1:5000



SECTION A-A
1:200

OPTION SUMMARY. This option aims to provide flood attenuation in the upper catchment through construction of embankments approximately 1km upstream of Earlston High School on the Turfford Burn. The work includes the following:

1. Construction of an embankment on the Turfford Burn to retain the majority of floodwater in the upper catchment
2. Construction of an orifice control unit to release stored water into the burn downstream at a rate which avoids flooding within Earlston.

Note: This option allows the 1 in 50 year flood to pass through the embankment which would ordinarily cause two properties to flood, the Crossing House and the industrial units on Turfford Park industrial estate. These properties would require Property Level Protection (PLP) to be protected up to the 1 in 50 year flood event. With PLP in place they would be protected up to the 200 year flood event thanks to the protection offered by the storage embankment. The other two properties at risk on the Turfford Burn would be protected up to the 200 year flood event without the use of PLP.

LEGEND

- 200 YEAR FLOOD LEVEL
- EXISTING WATERCOURSE
- STORAGE AREA

Comments						
Rev.:	Date	Drawn	Designed	Checked	Approved	
Client Approval						
A - Approved						
B - Approved with Revisions						
C - Do Not Use						
Purpose of Issue	Suitable for Coordination				Status	S1

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Project	Borders Flood Studies
Title	Earlston Turfford Burn: Option 3 Flood Attenuation Option
Client	for

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Scale	Drawn:	A Coad	13/02/18
	Designed:	B Bedford	12/02/18
	Checked:	A Pettit	17/07/18
	Approved:		

Project Number:	2017s5526
Drawing Number	AEM-JBAU-EA-TB-IM-C-1300
Revision	P03