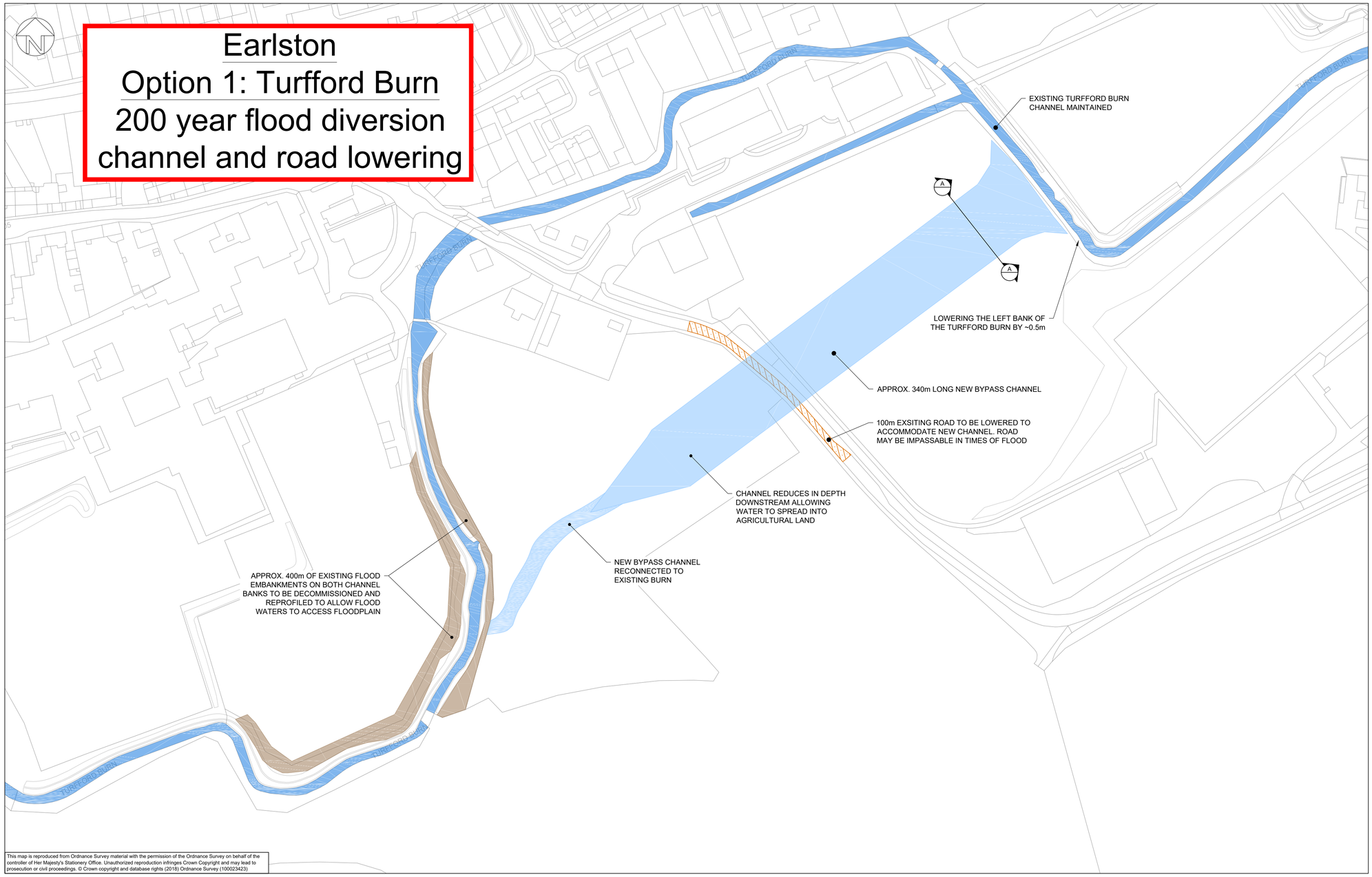
Earlston
Option 1: Turfford Burn
200 year flood diversion channel and road lowering



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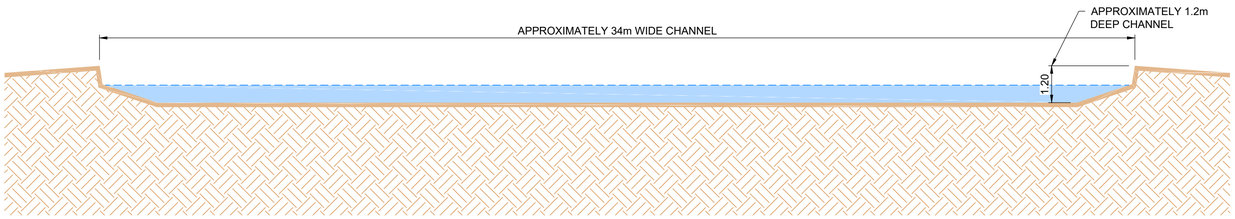
PLAN
1:1000



SECTION A-A
1:100

OPTION SUMMARY. This option aims to provide a high standard of protection through the installation of an approximately 340m long flood relief channel to allow a portion of the burns' flows to bypass the main channel and the FPS channel. The work includes the following:
1. Excavate a 340m long channel to a maximum depth of 1.2m, bottom width of 30m, side slope of 1 in 3, channel slope of 1:435 and a Manning's n roughness value of 0.035.
2. Lower the left bank of the Turfford Burn at the entrance to the bypass channel to a level of approximately 103.5m, a reduction of 0.5m.

LEGEND
- 200 YEAR FLOOD LEVEL
- EXISTING WATERCOURSE
- DIVERSION WATERCOURSE
- DECOMMISSIONED FLOOD EMBANKMENTS
- NEW ROAD CONSTRUCTION

Rev.:	Comments	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 1
200 Year Partial Bypass Channel
for

Client: MOTT MACDONALD; Scottish Borders Council

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Scale: As Shown @ A1

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

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