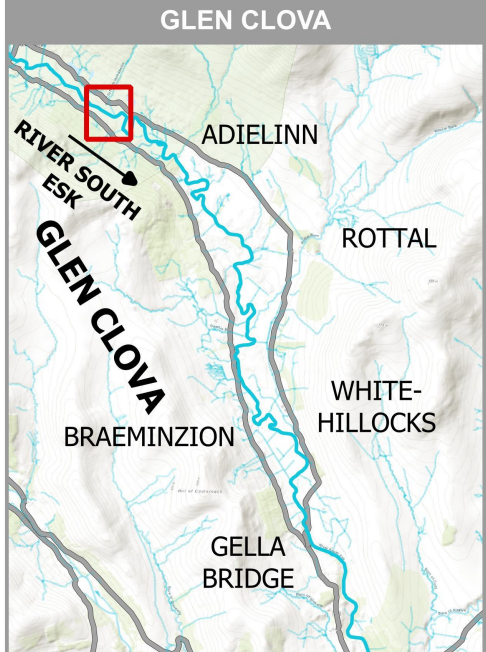
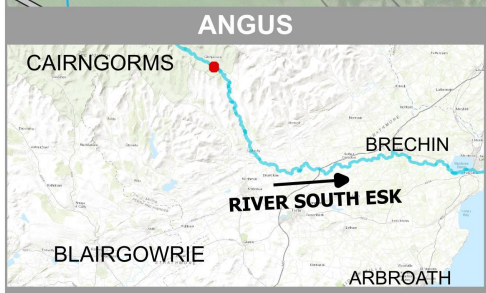
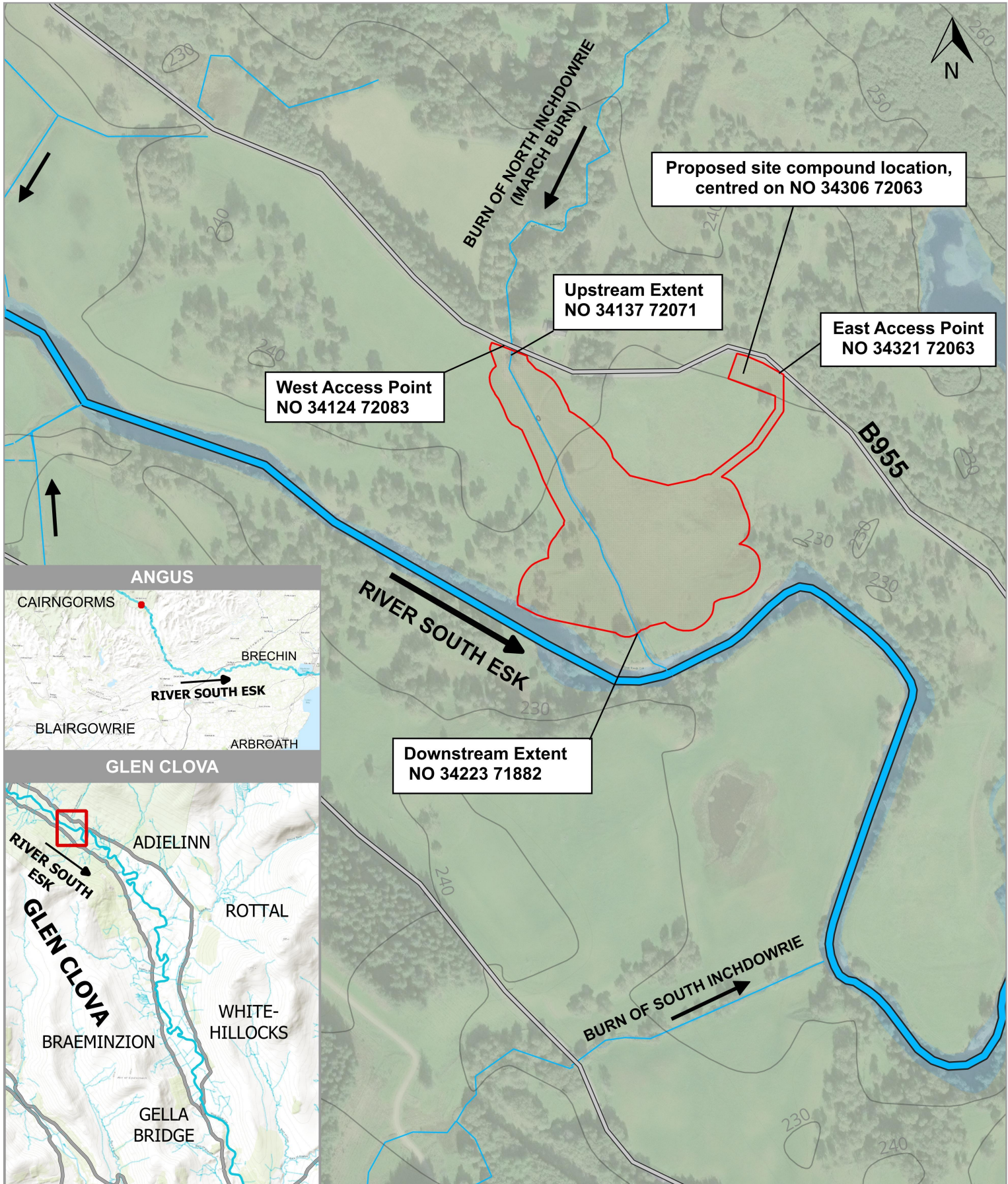


Agenda Item 6

Appendix 1

2025/0053/DET

Plans



Wetland Creation

Works Area, Access Routes & Compound (1.99 ha)

Watercourses*

Tributaries & Drains

River South Esk

Other Features*

Road

10 m Contours

*Contains OS data © Crown copyright and database right 2024.

CLIENT **ANGUS COUNCIL**

PROJECT **RESTORING THE RIVER SOUTH ESK**



Project no. 2150637

Date 24 FEB 2025

Drawn JE/GP

Designed 35 PERCENT

Reviewed KC

Scale @ A4 - 1:3,500

British National Grid

GCS OSGB 1936



Section of existing channel regraded

Install engineered large wood green bank protection to protect reprofiled banks immediately downstream of bridge, continuing on river right

Embankment retained on river left and locally infilled/raised

Upstream section of channel infill to incorporate boulders with diameter >500 mm with surrounding matrix of coarse gravel and cobble fill (50-250 mm)

River South Esk

New realigned channel to restore floodplain connectivity

Infill existing channel to utilise excess cut material

New inset floodplain on river left

Bed material to be carefully sized and graded to ensure stability in upper section - material to have D50 of ~110 mm

Buried boulder grade control structures to mitigate risk of head cut - keystone boulders should all be > 500mm

Install lateral Large Wood Structures (LWS)

Bed to be 'seeded' with irregular clusters of boulders within the range of grain sizes seen to be forming steps in existing channel (i.e. up to 320 mm)

Embankment removal on both banks

Floodplain scrapes features to increase water storage and habitat diversity

Retain a small section of the existing channel as a backwater feature

Burn of North Inchdownrie

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION
 In addition to the hazards/risk normally associated with the types of work detailed on this drawing, note the following risks and information.
 * Please note that risks listed here are not exhaustive.

CONSTRUCTION
 * Working in close proximity to deep water environments.
 * Disturbing or striking existing utilities and services.
 * Saturated ground conditions.
 * Protected species.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

LEGEND

- Existing channels
- Existing culvert
- Existing overhead line
- Ecological buffer zone (30m)
- Proposed Design**
- ▨ Regraded section
- New realigned channel
- ▨ Inset floodplain
- ▨ Earth bund
- ▨ Embankment removal
- ▨ Scrapes **S2**
- ▨ Infilled sections
- Large Wood Structure (LWS) **7**
- Engineered wood bank protection
- ▨ Boulder grade control **G4**

Project Number: 2150637

Project Title:
Restoring the River South Esk

Drawing Title:
DETAILED DESIGN DESIGN PLAN

Scale @ A3: 1:1,000
 OSGB36 / British National Grid

Drawn	Date	Version
JL	27/01/2025	Rev3 v4
Designed	Checked	Approved
LM	--	--



Drawing Number:
2