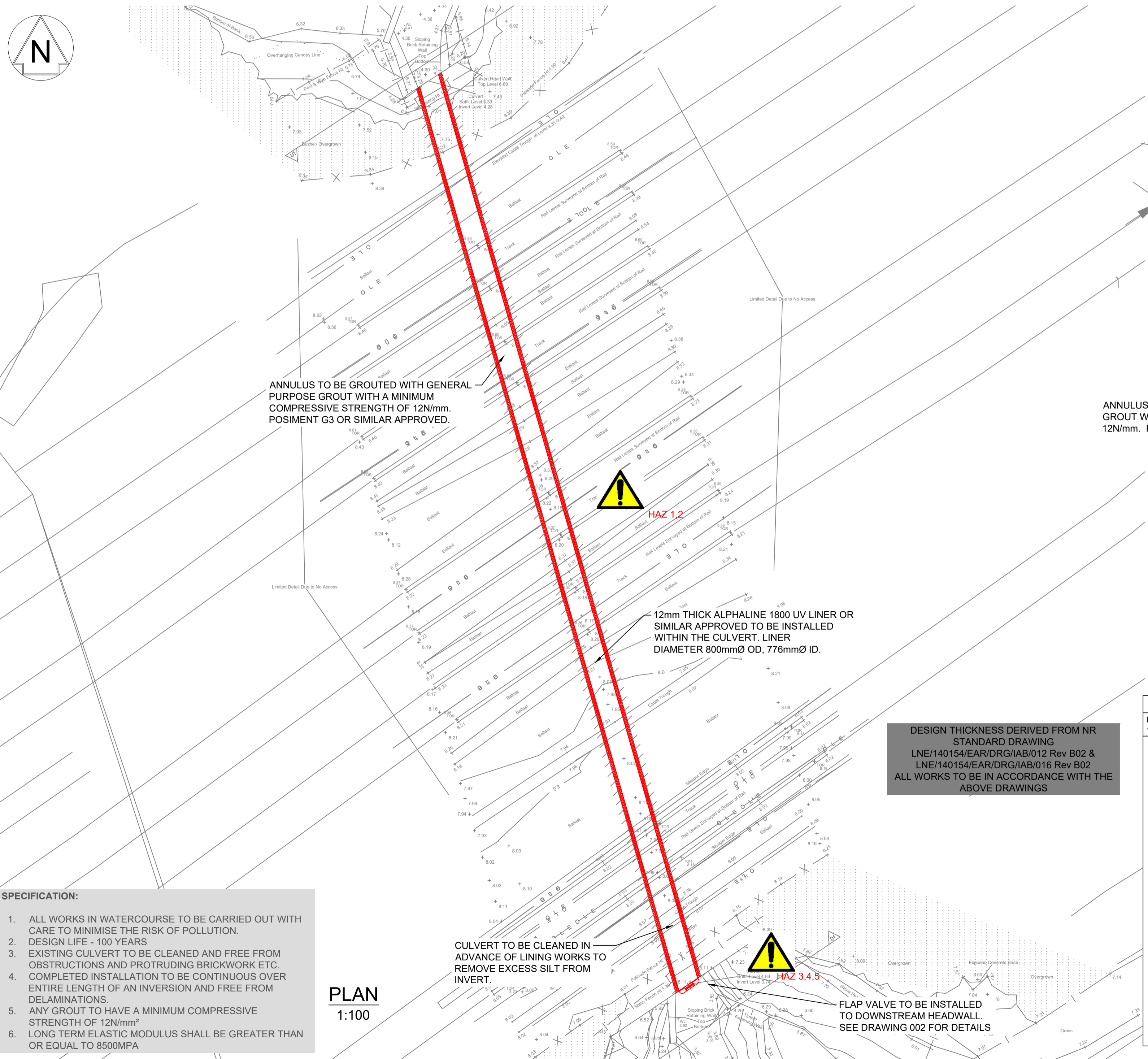
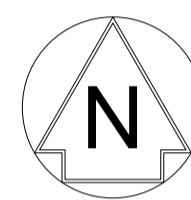


LONGSECTION THROUGH CULVERT

1:100



SPECIFICATION:

- ALL WORKS IN WATERCOURSE TO BE CARRIED OUT WITH CARE TO MINIMISE THE RISK OF POLLUTION.
- DESIGN LIFE - 100 YEARS
- EXISTING CULVERT TO BE CLEANED AND FREE FROM OBSTRUCTIONS AND PROTRUDING BRICKWORK ETC. COMPLETED INSTALLATION TO BE CONTINUOUS OVER ENTIRE LENGTH OF AN INVERSION AND FREE FROM DELAMINATIONS.
- ANY GROUT TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 12N/mm²
- LONG TERM ELASTIC MODULUS SHALL BE GREATER THAN OR EQUAL TO 8500MPA

PLAN
1:100

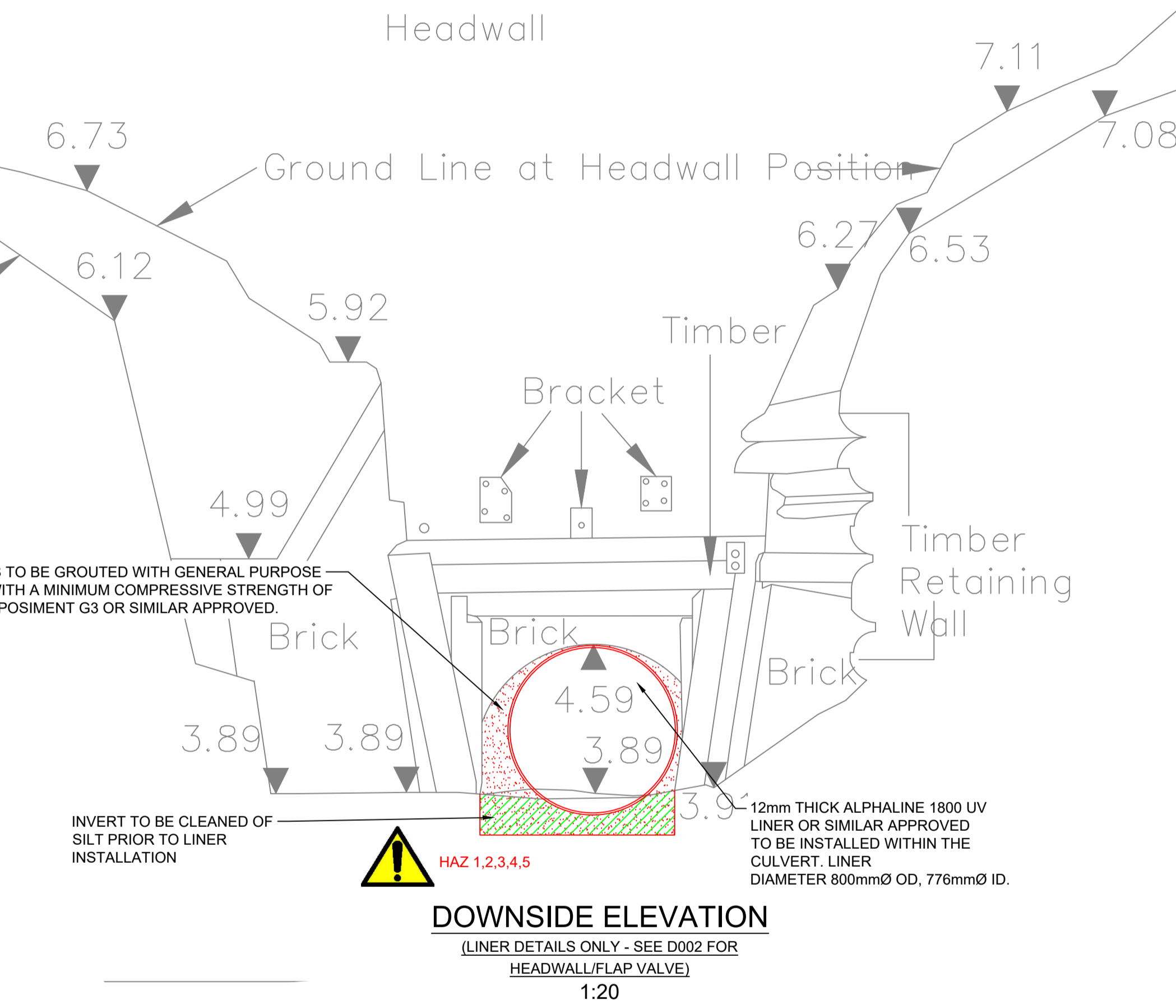
SAFETY, HEALTH & ENVIRONMENT INFORMATION

NOTE: The designers risk documentation includes full details of the risks associated with this scheme.

In addition to the hazards and risks normally associated with construction of a structural UV liner, the following significant risks have been identified:

- Use of jet washing equipment in potentially damaged culvert. **CCTV and visual inspection to be undertaken of culvert prior to jet washing. Use low pressure if necessary.**
- Working in a confined space. **If man entry is required, a full confined spaces risk assessment and rescue plan to be in place.**
- Buried services. **CAT scans to be undertaken and permit to dig to be in place before breaking ground.**
- Pollution of the watercourse. **Plant equipment to be run on bio-oil. Spill kits available on site. Drips trays to be utilised. refuelling to be undertaken in site compound.**
- Tidal movements. **Contractor to consider tidal movements and temporary works required to protect from downstream tidal flows.**

It is assumed that all works will be undertaken by a competent contractor and therefore normal risks associated with construction works will be considered

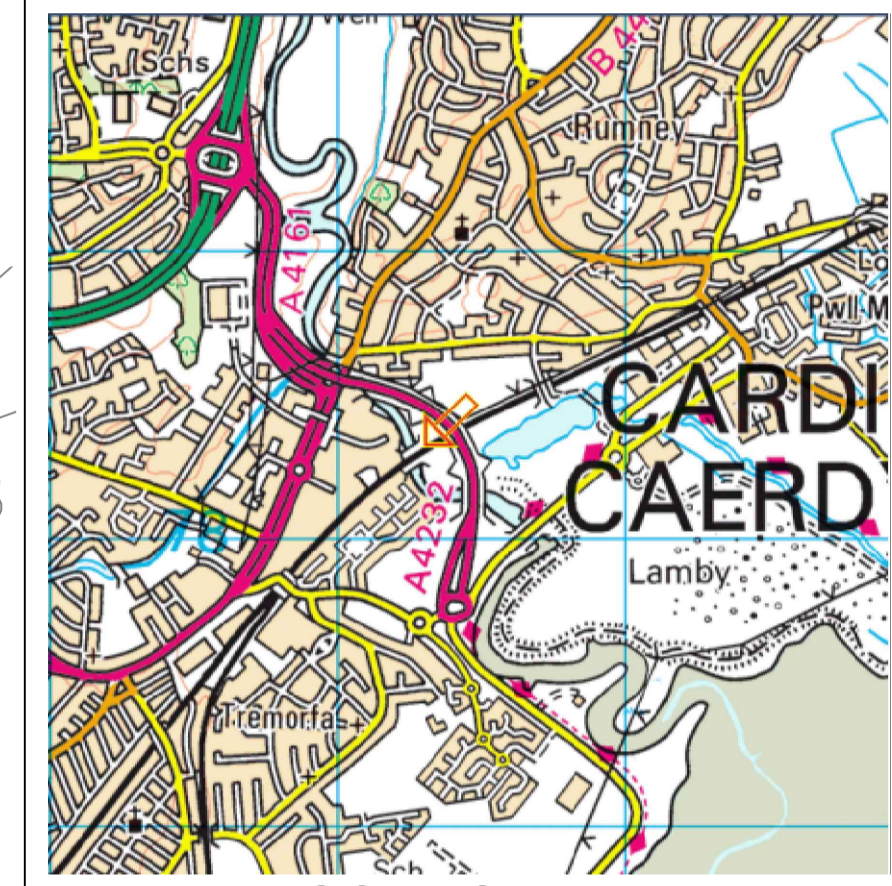


DOWNSIDE ELEVATION
(LINER DETAILS ONLY - SEE D002 FOR HEADWALL/FLAP VALVE)
1:20



UPSIDE HEADWALL

- GENERAL NOTES**
- All dimensions shown are in metres unless otherwise stated and levels in metres to ordnance datum.
 - All works in watercourses will be carried out with care to minimise the risk of pollution adhering to pollution prevention guidelines.
 - All works affecting flood defences, main watercourses and/or ordinary watercourses will be subject to consent for permanent and temporary works under the land drainage act 1991.
 - All mileages shown on drawing are approximate.



LOCATION MAP
NOT TO SCALE

Key
Existing or unchanged
Proposed

Status
Detailed Design



DYER & BUTLER

Mead House
Station Road
Nursling
Southampton
Hampshire
SO16 0AH

iLine

KG House,
Kingsfield Way,
Northampton
NN5 7QS

Project
CIPP Lining of Culvert SWM2 167 63.5

Drawing Title
**Plan and Sections
Culvert SWM2 167/63.5**

Designed	N Sheehan	Signed		Date	07/02/20
Checked	M Gwatkin	Signed		Date	07/02/20
Approved	G Houghton	Signed		Date	10/02/20
Scale(s)	On Drawing ELR & Mileage SWM2 167m 1397yds				
Monitor Reference					Sheet
Drawing Number	LVT_SWM2_167_001				1 of 2
					Revision
					B02