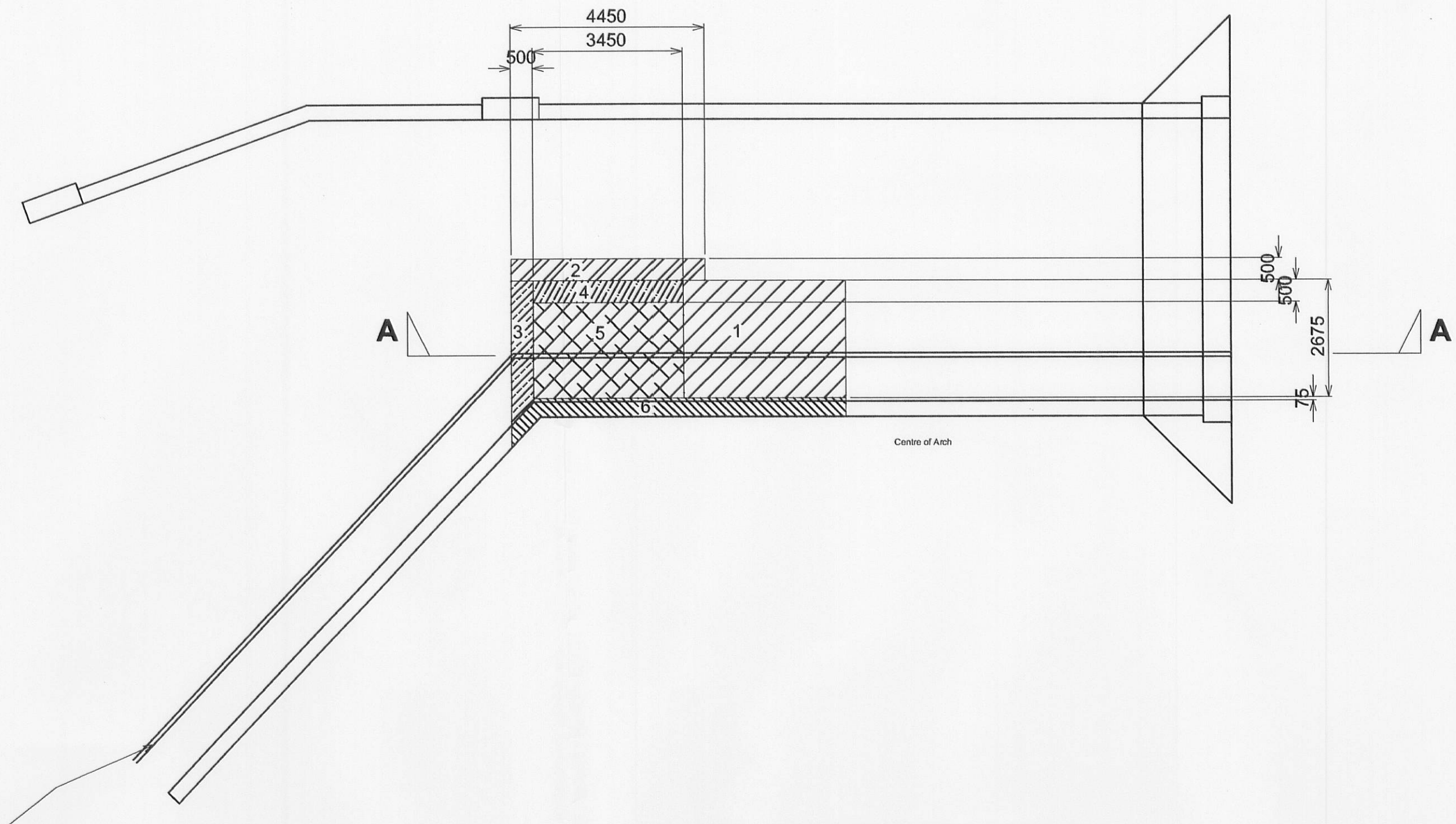
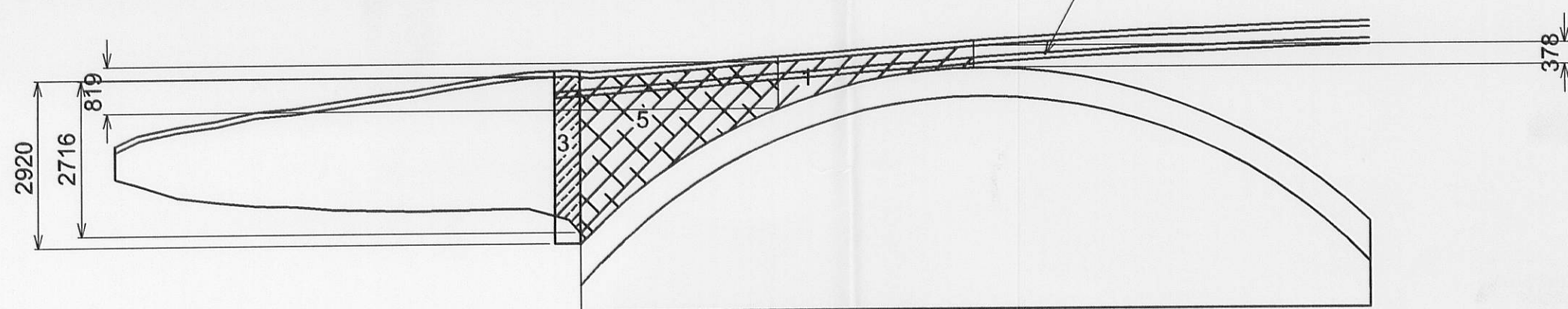


Mandatory Construction Sequence

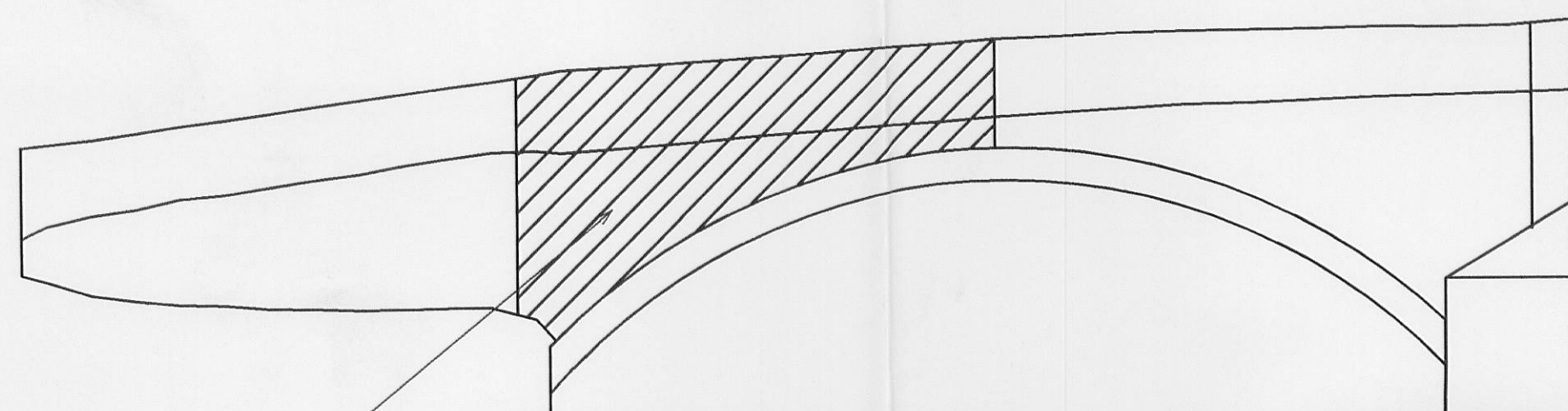
- Excavate to depth of arch ring
- Clean extrados to ensure good bond
- Install formwork/void spacer 75mm thick against spandrel
- Install 150mm PVC split duct around 3" cast iron water main
- Cast concrete to 1
- Excavate trench to depth of arch ring
- Install B283 high tensile steel mesh, 6mm diameter in front and back spaces with minimum 20mm cover
- Cast concrete to 2
- Excavate trench to depth of arch ring
- Install B283 high tensile steel mesh, 6mm diameter in front and back spaces with minimum 20mm cover. Mesh will have to be cut to fit beneath water main
- Cast concrete to 3
- Excavate to depth of arch ring
- Cast concrete to 4
- Excavate to depth of arch ring
- Clean extrados to ensure good bond
- Install formwork/void spacer 75mm thick against spandrel wall and tie to 4 (include dovetail slots on formwork)
- Install 150mm PVC split duct around 3" cast iron water main
- Cast concrete to 5
- Take down parapet and spandrel
- Remove formwork from 5
- Reconstruct spandrel and parapet with ties
- Fill void between spandrel wall and mass concrete wall with mortar
- Surfacing to be reinstated to previous road level



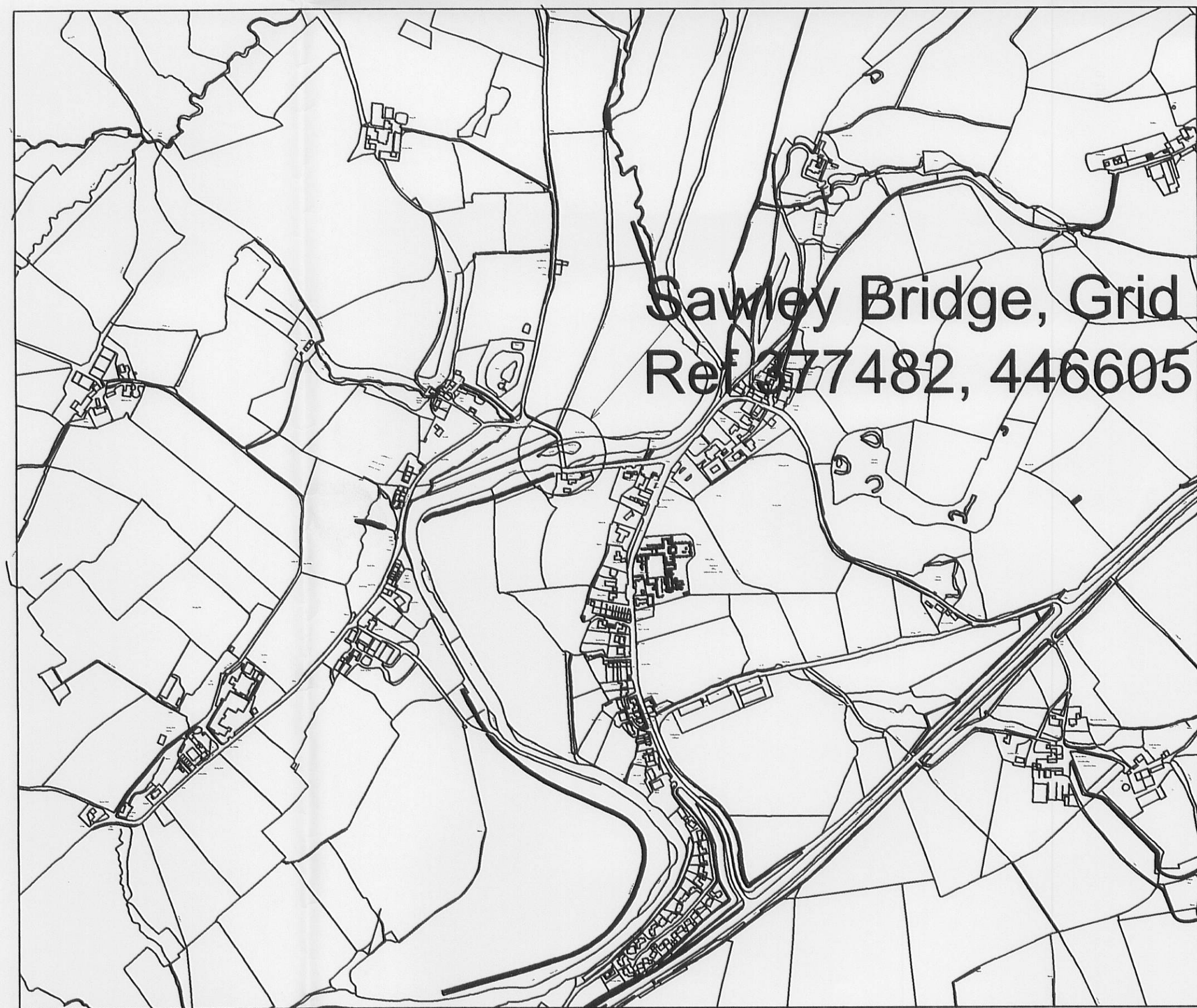
Approx location of 3" water main. Location and depth to be confirmed by site investigation. Water main shall be suitably suspended at all stages. Water main shall be encased in 150mm PVC split duct prior to casting of concrete.



SECTION A-A
Scale 1 : 100



WEST ELEVATION - NORTH EAST ARCH
Phase 6
Scale 1 : 100



LOCATION PLAN
Scale 1 : 5000

NOTES

- The excavation to provide the mass retaining wall backing to the masonry spandrel wall to be carried out in the sequence indicated by the PLAN on the drawing. After Phase 1 the spandrel wall shall not be used to support the formwork
- Before proceeding with any construction work, the setting out is to be checked in relation to the existing structure and discrepancies notified immediately to the Supervising Engineer so that any necessary adjustments may be made
- No roadworks shall take place before traffic management is in place. Parapet reconstruction and surfacing operations shall be complete before the road is reopened
- The contractor shall take measures to protect all services crossing the bridge. Prior to excavation in the road service ducts shall be located by trial holes. Care shall be taken not to damage the ducts during the resurfacing works.
- All temporary structures to be erected within or over the watercourse are to be submitted to the Environment Agency for consent prior to the work commencing.
- Sawley bridge is a Grade II listed building. Mortar for pointing to be approved by Ribbles Valley Borough Council under Planning (Listed Building and Conservation Areas) Act 1990.
- Lightweight concrete to be used throughout. Mix Reference 4 Light
- The contractor shall refer to the Environment Agency for information on pollution and water levels. If temporary works are likely to impede the flow of the river they will be subject to Land Drainage Consent.
- Any bat roosts are to be left unpointed.

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No.	DATE	AMENDMENT DETAILS	CHECKED BY	DRAWN BY
REVISIONS				
		Environment Directorate Graham Harding B.Eng., C.Eng., F.I.C.E., F.I.H.T., M.I.Mgt. DIRECTOR		
HIGHWAYS & ENVIRONMENTAL MANAGEMENT 				
PROJECT TITLE Sawley Bridge No. 4264 - Strengthening				
DRAWING TITLE Strengthening of North East Spandrel				
DRAWN BY DJG		PROJECT No. HC15662		
CHECKED BY HDN		DRAWING No. 4264/03		
DATE May 2007				
SCALE As Shown		SHEET No. Sheet 1 of 1		
LCC No.				