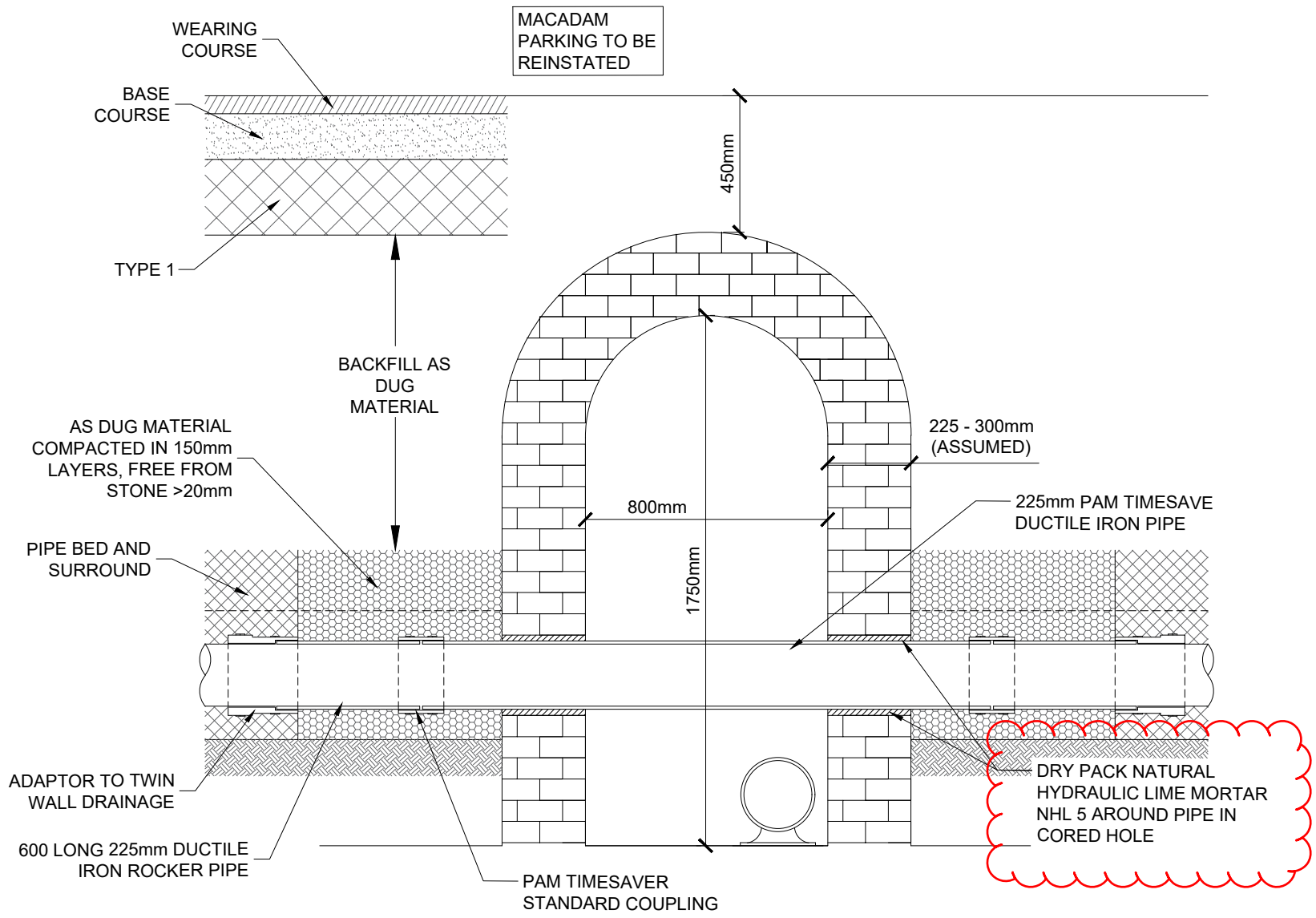
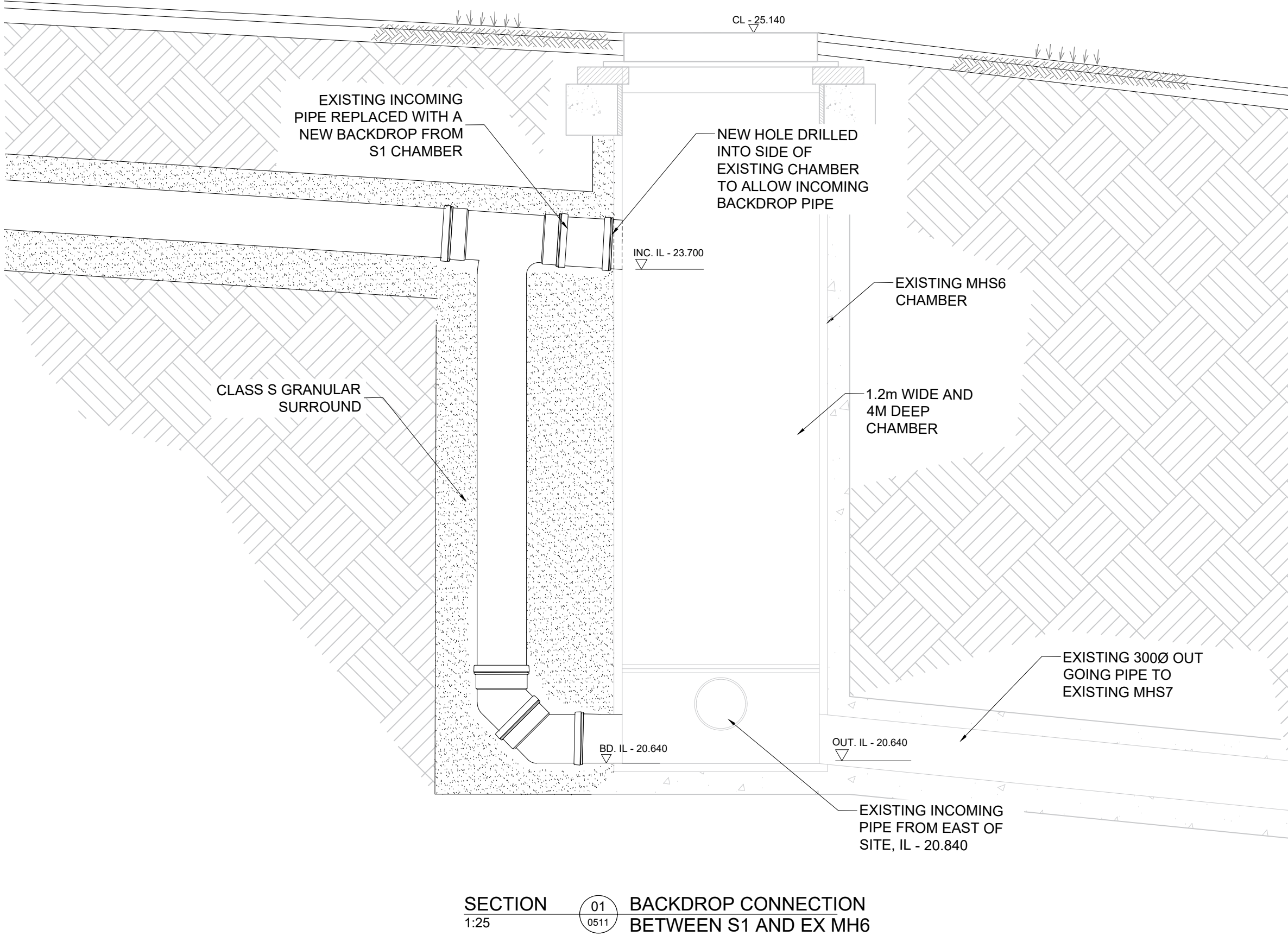




Cyfarthfa Castle - Method Statement for Core Drilling Existing Tunnel Wall & Installation of Drainage Pipe.

The following method statement has been prepared for the excavation and installation of drainage pipe adjacent to & through the tunnel which has been encountered to the south of Cyfarthfa Castle crossing perpendicular to the proposed drainage run.

- Carefully excavate down either side of the tunnel wall where the drainage run was intended to be installed. Contractor to provide appropriate trench box to ensure safety of operatives. Excavation immediately adjacent to the tunnel structure should be carried out by hand to ensure damage to the tunnel is not caused.
- Pilot drill through tunnel wall with 20mm dia bit at the intended pipe invert level.
- Confirm within the tunnel that the proposed core location is clear of the existing pipework.
- Set up core drilling rig and core drill through each side of the tunnel wall with 280dia. wet diamond core drill.
- Install 225mm dia ductile iron pipework to pass through tunnel wall, across tunnel and through opposite wall. 3m length cut to length onsite (approx. 250-300mm projection from tunnel wall).
- Temporarily shim to support pipework in desired position through tunnel wall to achieve required falls, connect adjacent drainage pipework.
- Provide 600mm long rocker pipe.
- Provide adaptor to 225 twinwall pipework.
- With pipework in place point around ductile iron pipe with Natural Hydraulic Lime Mortar NHL 5 by Lime Green or similar approved.
- Backfill around tunnel with as dug material compacted in 150mm layers. Provide pipe bedding to twinwall pipework as specification.

STATUS CODES FOR DRAWINGS ACCORDANCE WITH BS EN ISO 15926-2:2018			
CODE	DESCRIPTION		
SHARED (NON-CONTRACTUAL - NOT FOR CONSTRUCTION)			
S1	SUITABLE FOR COORDINATION		
S2	SUITABLE FOR INFORMATION		
S3	SUITABLE FOR REVIEW AND COMMENT		
S4	SUITABLE FOR STAGE REVIEW AND AUTHORIZATION		
S5	SUITABLE FOR STAGE REVIEW AND ACCEPTANCE		
PUBLISHED (CONTRACTUAL)			
A1	STAGE 1 AUTHORIZED (NOT FOR CONSTRUCTION)		
A2	STAGE 2 AUTHORIZED (NOT FOR CONSTRUCTION)		
A3	STAGE 3 AUTHORIZED (NOT FOR CONSTRUCTION)		
A4	STAGE 4 AUTHORIZED (FOR CONSTRUCTION)		
A5	STAGE 5 AUTHORIZED (FINAL DESIGN RECORD)		
NOTES			
1. THIS DRAWING IS COPYRIGHT AND MAY NOT BE REPRODUCED WITHOUT THE PERMISSION OF MANN WILLIAMS.			
2. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATION WITH ALL WORKS CARRIED OUT IN ACCORDANCE WITH THE LATEST BRITISH STANDARDS AND CODES OF PRACTICE.			
3. ANY AMBIGUITIES OR DISCREPANCIES BETWEEN THIS DRAWING AND ANY OTHER INFORMATION GIVEN ELSEWHERE MUST BE REPORTED TO MANN WILLIAMS FOR CLARIFICATION BEFORE WORK PROCEEDS.			
4. ALL DIMENSIONS TO BE CHECKED ON SITE AND ANY DISCREPANCIES REPORTED TO THE ENGINEER BEFORE ANY WORK COMMENCES.			
5. ONLY FIGURED OR CALCULATED DIMENSIONS SHOULD BE USED AND NO DRAWINGS, IN ANY FORMAT SHOULD BE SCALED.			
DRAWING TO BE READ IN COLOUR			
REV	DESCRIPTION	BY	DATE
P1	PRELIMINARY ISSUE	FM	15.10.25
C1	STAGE 4 AUTHORIZED FOR CONSTRUCTION	FM	11.11.25
C2	PIPE THROUGH TUNNEL DETAIL ADDED	FM	18.02.26
C3	PIPE SURROUND NOTE AMENDED	FM	23.03.26
PROJECT			
CYFARTHFA CASTLE - SCAFFOLD PROTECTION			
TITLE			
DRAINAGE DETAILS - SHEET 3			
MANN WILLIAMS CONSULTING CIVIL AND STRUCTURAL ENGINEERS 7 OLD KING STREET QUEEN SQUARE BATH BA1 2JW T 01225 464419 E bath@mnnwilliams.co.uk W www.mannwilliams.co.uk			
DRAWN	CHECKED	SIZE	SCALE
FM	JP	A1	-
SUITABLE FOR STAGE		DATE	MW JOB NO.
A4 FOR CONSTRUCTION		OCT 2025	12050
ZONE/SYSTEM	LEVEL	TYPE	ROLE
XX	XX	DR	C
PROJECT CODE		NUMBER	ORIGINATOR
12050		0511	MWB
		REVISION	
		C3	