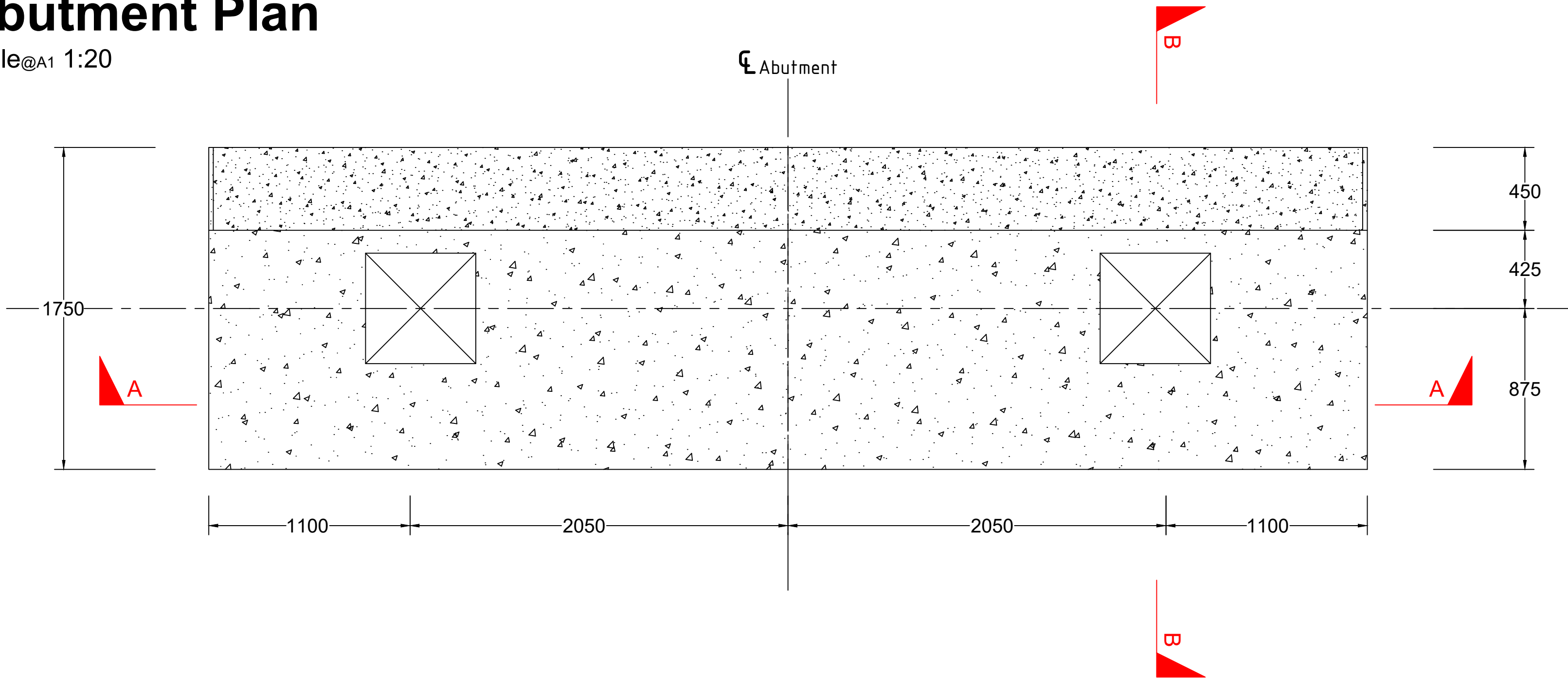


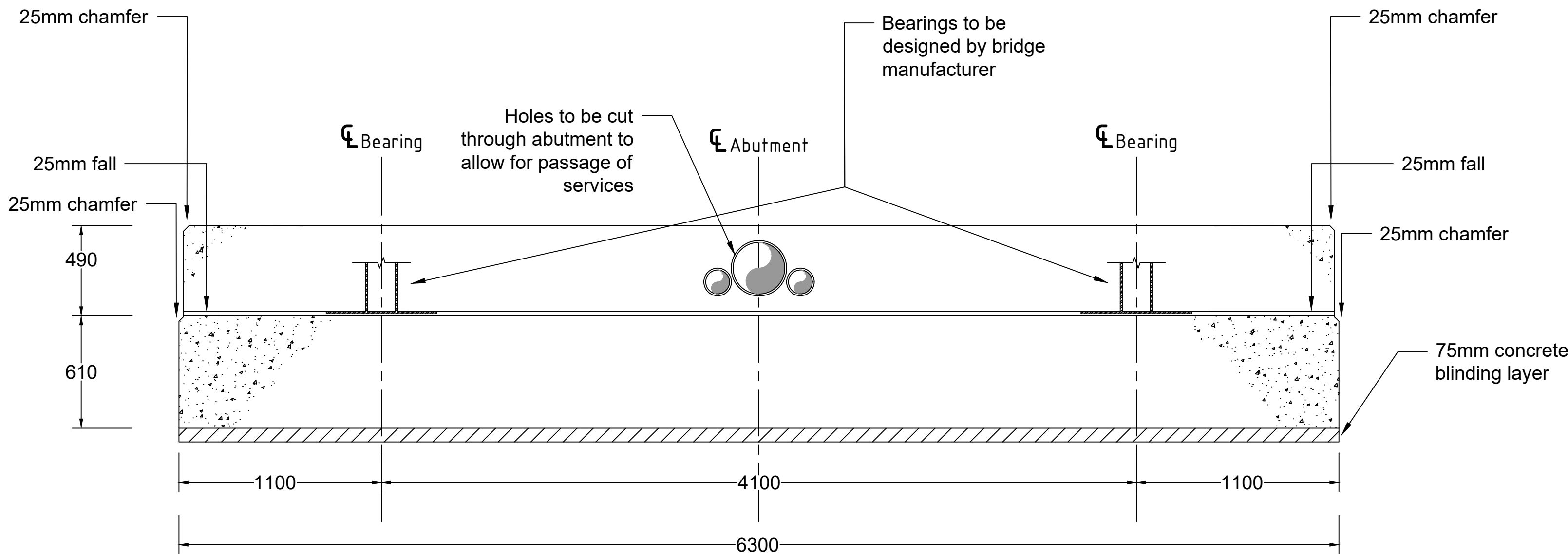
Abutment Plan

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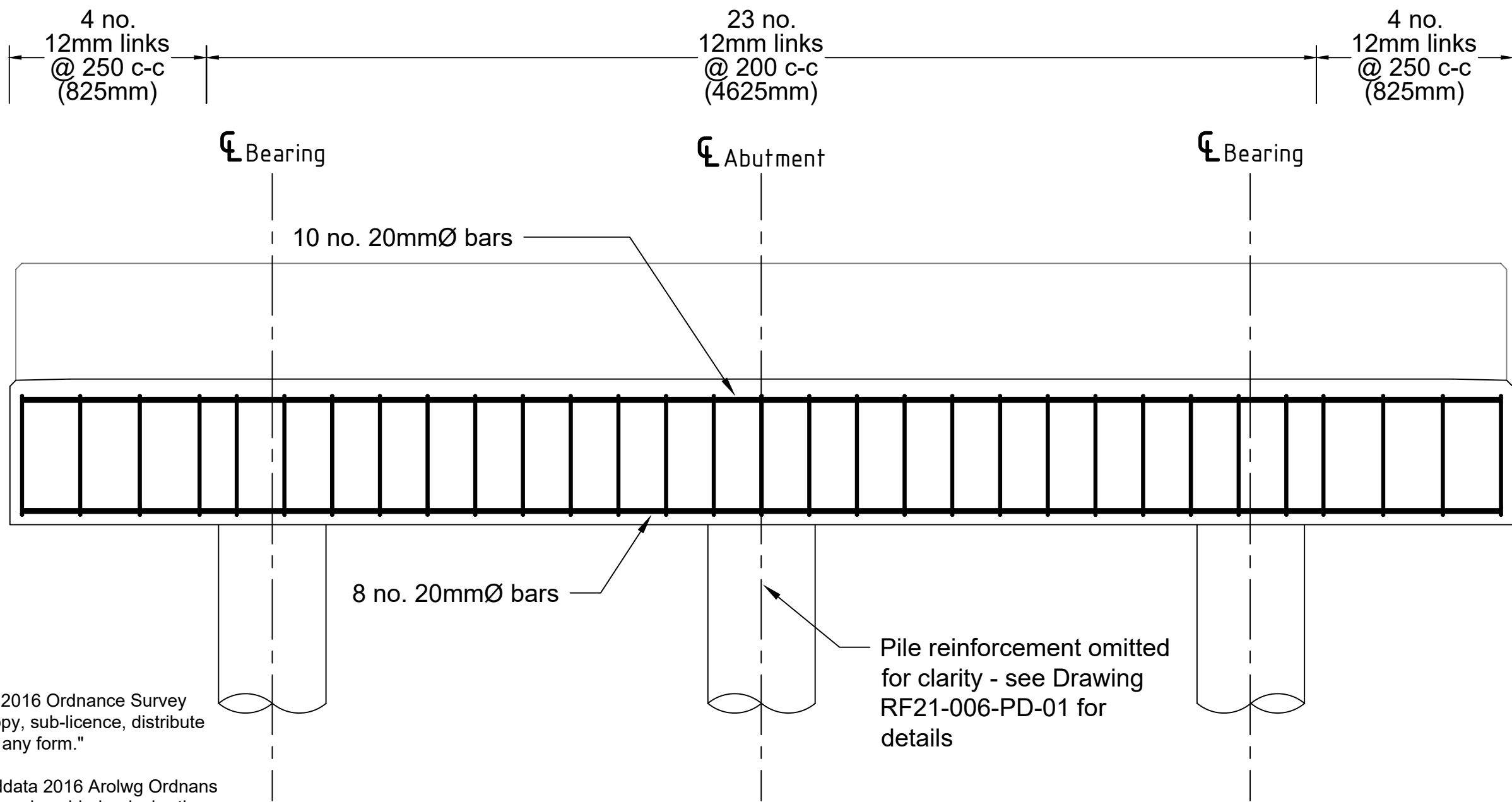
Abutment Section A-A

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Abutment Reinforcement (A-A)

Scale@A1 1:20



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REINFORCEMENT

1. Bars designated as 'B' - High grade B500B or B500C steel shall conform to BS4449:2005 and BS EN 10080.
2. All reinforcement to be cut or bent in accordance with BS 8666: 2005.
3. Welding of reinforcement shall not be permitted on site.
4. Bar sizes are stated on the drawing. Any discrepancies or concerns should be discussed with the relevant engineer prior to installation.
5. The percentage of lapped bars in tension shall be 100%.
6. To provide uniform cover to bottom layer of reinforcement, spacers to be used.
7. To provide correct space between bottom and top layer of mesh reinforcement, reinforcement chairs to be used in accordance with BS 7973-1.
8. All reinforcement to be securely tied together with soft iron wire or tying devices in accordance with BS7973.

CONCRETE

1. Proposed concrete is C40/50. Class of concrete for the work based on 28 days minimum compressive strength. Concrete exposure class to be XC3/4, XD3, XF4, AC 2
2. Nominal cover from the face of the concrete to the outer most reinforcement including links, shall be 35mm.
3. Maximum water cement ratio (W/C) shall be 0.45.
4. Slump test to be performed on all concrete batches at point of discharge from delivery truck.
5. Slump shall be measured in accordance with BS EN 12350-2/relevant standards. Flow shall be measured in accordance with BS EN 12350-5. Slump flow shall be measured in accordance with BS EN 12350-8.
6. Number of Slump tests to taken shall be determined by the contractor.
7. The sampling and testing of concrete shall comply with requirement given in Annex B of BS EN 206-1 and Annex B of BS 8500-1.
8. Aggregates - (1) Use coarse natural maximum 20mm size aggregate; (2) Freeze-thaw resisting aggregate to be used; (3) Aggregates to be free from impurities.
9. Prior to the supply of concrete, the contractor and the concrete supplier should agree the admixture type, admixture addition time and method, concrete mixing and checking procedure. No site mixing of admixture shall be allowed. No water to be added to concrete on site.
10. Concrete to be transported in compliance with Clause 14 of BS 8500-2: 2015.
11. Fresh concrete shall not be placed against in situ concrete that has been position for more than 30 minutes, unless a construction joint is formed.
12. Concreting operations shall not displace reinforcement, or damage formwork.

13. Concrete shall be thoroughly compacted by vibration during the operation of placing, and thoroughly worked around the reinforcement and into corners of the formwork to form a solid mass free from voids. The placing and vibration of concrete including cold & hot weather work to be in accordance with relevant specifications.

SURFACE FINISH OF CONCRETE

1. Concrete slab to have brushed finished on top.

PROTECTION OF CONCRETE

1. The new concrete slab shall be left uncovered and undisturbed after construction for long enough for concrete to gain strength.

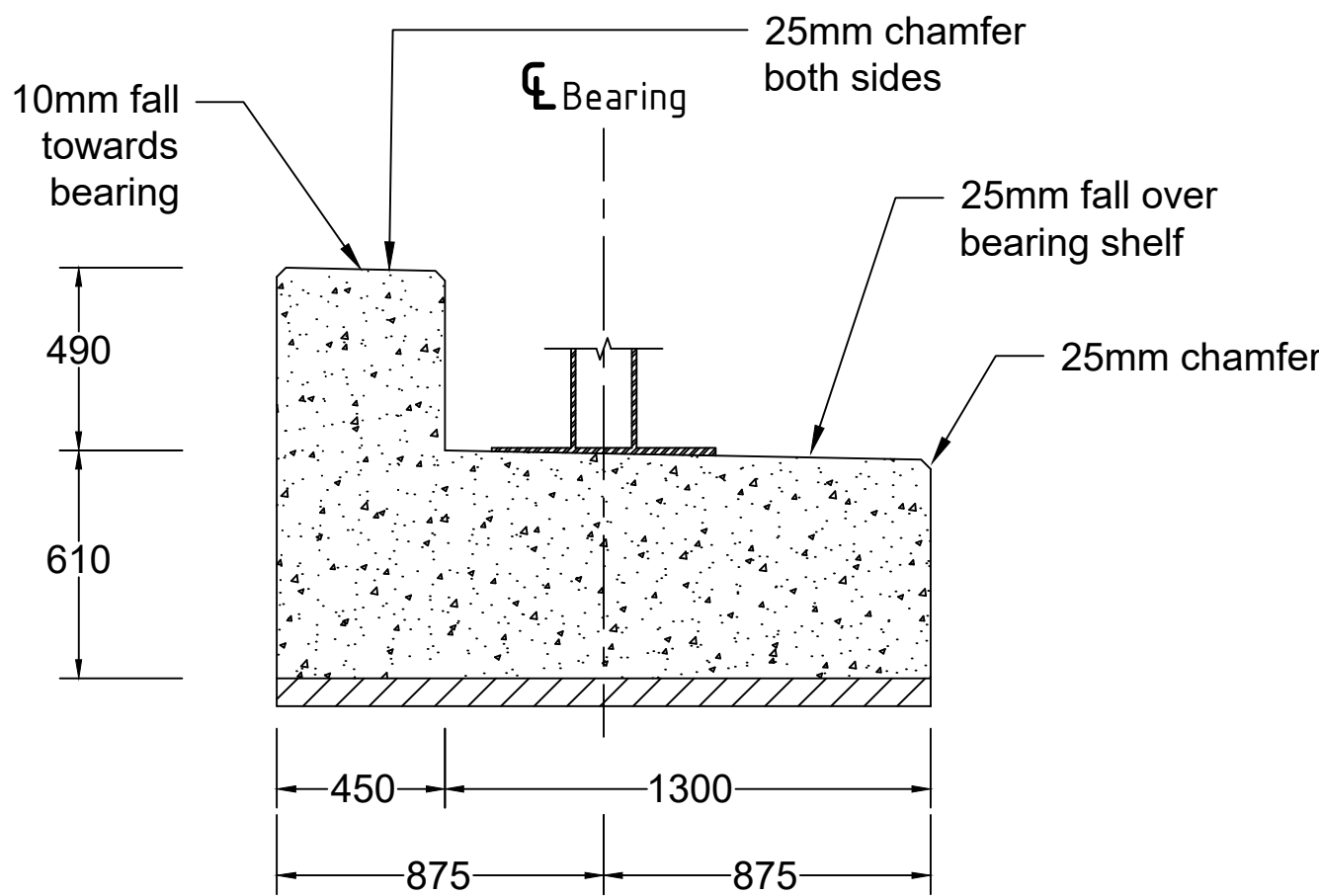
Rev.	Amendment	Date	Drawn	Ck'd

General Notes

1. All dimensions in millimetres unless otherwise stated. Do not scale from this drawing.
2. All dimensions of foundations to be taken in principle; All levels and dimensions to be checked and confirmed by the contractor prior to the start of any works on site. Any errors or discrepancies are to be brought to the attention of the engineer.
3. This drawing shall be read in conjunction with all architectural, setting out drawings and other relevant drawings and documentation, including the specification, appendices, and pre construction information, and ground investigation report.
4. All buried concrete surfaces in permanent contact with soil will have two coats of cut back bitumen. Removal of water from the concrete surface prior to laying protection.
5. Prior to commencement of any works contractor to carry out investigation to identify and confirm all utilities present on site.
6. Manufacturers instructions regarding use, care, installation, etc. of materials and products to be strictly adhered to unless otherwise instructed by the architect/designer.
7. Unless stated otherwise, the recommendations in the geotechnical ground investigation report shall be followed for the foundation preparation. Report Reference 21072/R1 Rhydyar Footbridge, Merthyr, Site Investigation Report.
8. The foundation shall be founded on firm glacial soils. Foundation formation level shall be inspected by a competent and fully qualified engineering geologist/geo-technical engineer. They shall be satisfied that the strata found during excavation is in agreement with the geo-technical investigation report (Ref. Section 8.3 of the report) for this structure. Where made ground/ silt/ soft/ peat/ unsuitable materials encountered, these shall be excavated and replaced with lean mix concrete or suitable compacted engineering granular fill (i.e. Class 6N) in accordance with Series 600 of the specification of highway works.
9. Temporary excavation slopes should not be steeper than 1V:1.5H.
10. Excavation for foundation is likely to be above or within groundwater level, and so groundwater control will be necessary.
11. The earthworks shall be carried out in accordance with the series 600 of the specification of highway works.

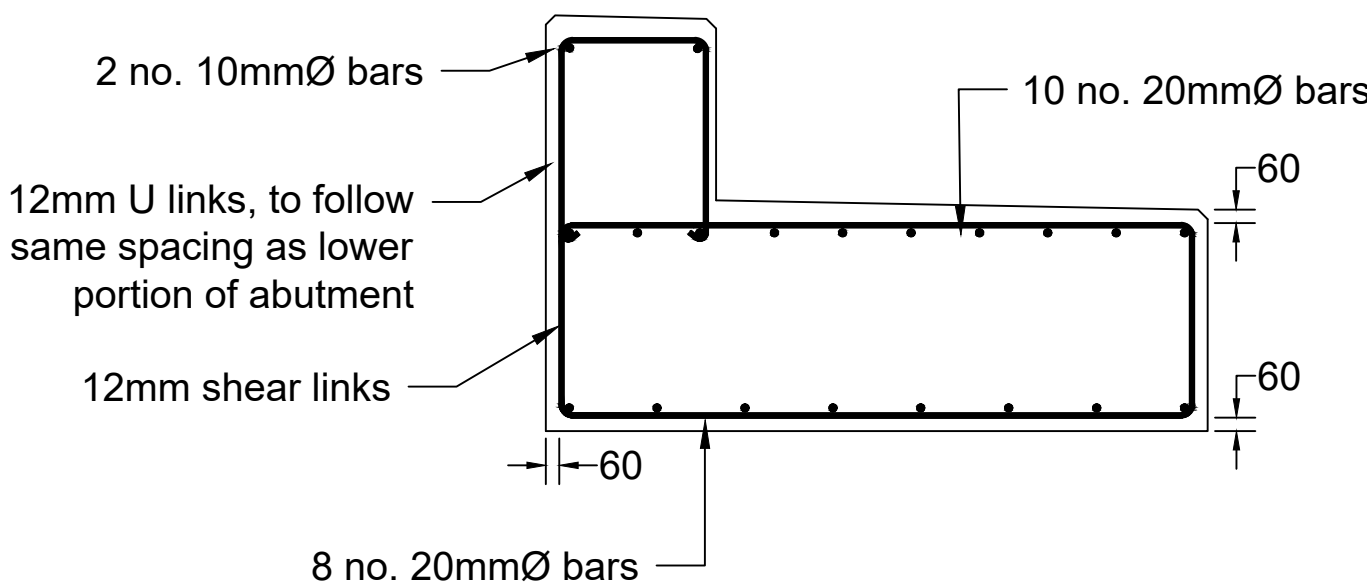
Abutment Section B-B

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Abutment Reinforcement (B-B)

Scale@A1 1:20



 Cynor Bwrdeistref Sirol MERTHYR TYDFIL County Borough Council	MERTHYR TYDFIL COUNTY BOROUGH COUNCIL ENGINEERING DIVISION UNIT 5 TRIANGLE BUSINESS PARK PENTREBACH MERTHYR TYDFIL CF48 4TQ
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PROJECT TITLE: Rhydyar Footbridge Replacement Rhydyar Merthyr Tydfil			
DRAWING TITLE: Abutment Detail			
DRAWN: AP		APPROVED: PJ	
CHECKED: PJ	DATE: 28/01/22	SCALE: 1:20	
PROJECT NO.: RF21	DRAWING NO.: 005-AB-01	REV.: 01	© A1