

- Notes**
1. Do not scale this drawing. All dimensions must be checked/ verified on site.
 2. For as-built information, refer to document ref. 70/2329 "A5 & A4 Circuits Porthmadog & Trawsfynyddfynydd 400kV Cable route" by Pirelli Construction Co. Ltd.
 3. The accuracy of the existing 132kV cables information (alignments and depths) is not guaranteed, and the contractor shall undertake additional investigation works to confirm the location and depth of the 132kV cables and ancillary equipment.
 4. The joint bay/stop joint system is based on as-built information and is assumed to be part of the below-ground infrastructure.
 5. Joint bay / stop joint system to be decommissioned and removed from site following best practice guidance and safety. The Stop Joints sections are to be cut and capped and an earthing arrangement shall be provided.
 6. All work to be undertaken in accordance with HSG 47.
 7. Access to the joint bay/stop joints system to be considered carefully.
 8. Vegetation areas to be identified and removed prior to the decommissioning works.

Legend

Infrastructure decommissioning excavation works 

Equipment/Infrastructure to be removed 

STOP JOINT BAY INFRASTRUCTURE PARTIAL DECOMMISSIONING METHODOLOGY





1. The Contractor shall undertake the purge of the oil within the cable network via the cable sealing en compounds or stop joints (including oil pressure tanks) according to its method statement and the standards for oil purge operations.
2. The Contractor shall ensure that any residual oil left in the cable is manage accordingly to avoid contamination during the infrastructure decommissioning works. Oil containment measures shall be carried out to control the presence of residual oil in the section subject to decommissioning.
3. Trench excavation to expose the 132kV cables stop joints, oil pressure tanks (and feed pipes). Provision of earthing pin.
4. Removal of the HV cable stop joints and cut the cables (including associated infrastructure). Capped/sealed the cable ends exposed temporarily to avoid accidental spillage.
5. Removal of the oil pressure tanks (including associated infrastructure feed pipes system). Capped/sealed the cable ends exposed to avoid oil spillage.
6. Backfill of trench using as capping material Class 6F2 or 6F5 as defined in the SHW. Topsoil in accordance to National Grid Technical Specification 3.10.03 and the Pre-entry Soils and Existing Land Drainage Assessment by ADAS.
7. Materials which are to be disposed of as part of the demolition works shall be disposed of in licensed tips by the Contractor.

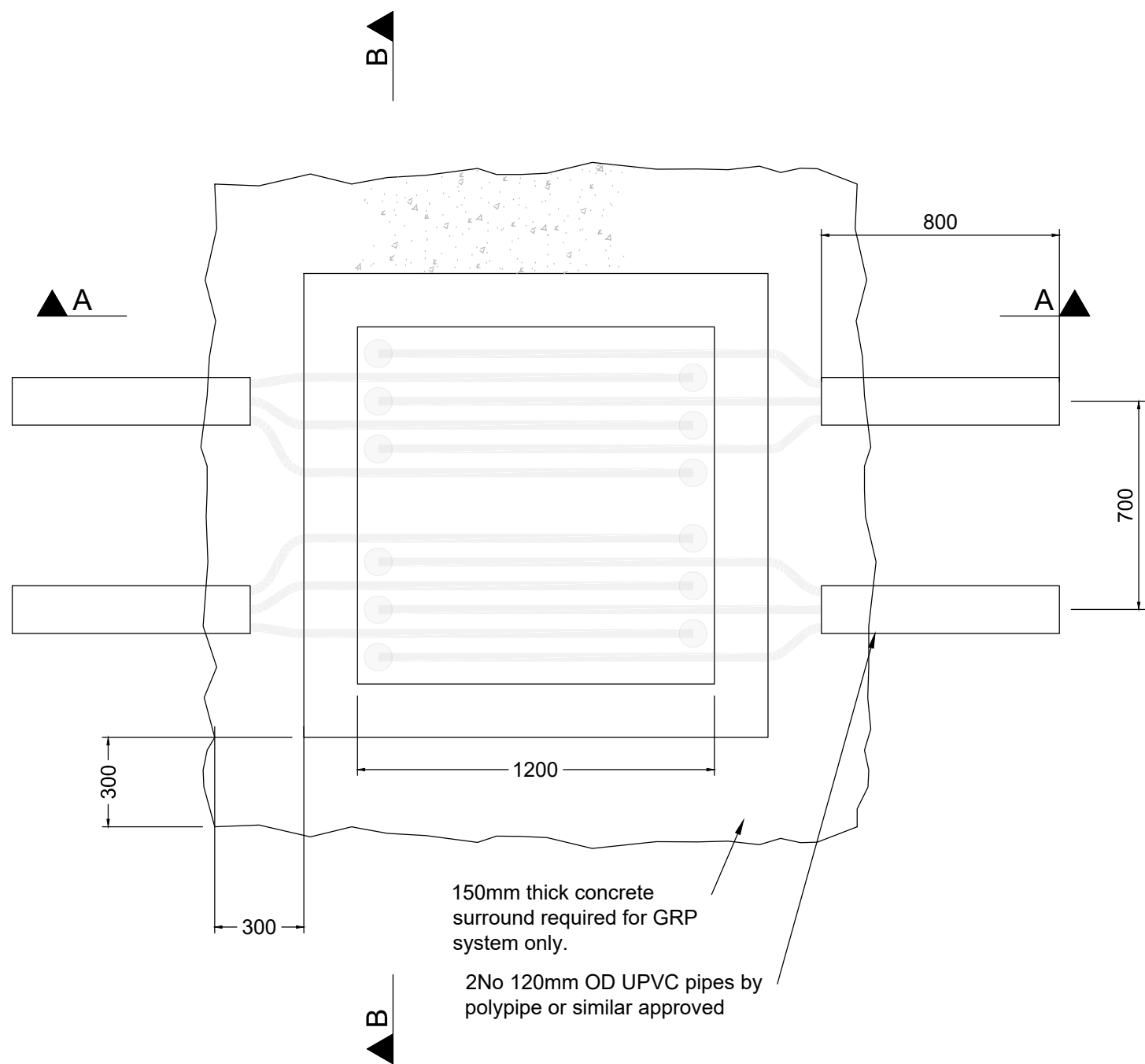
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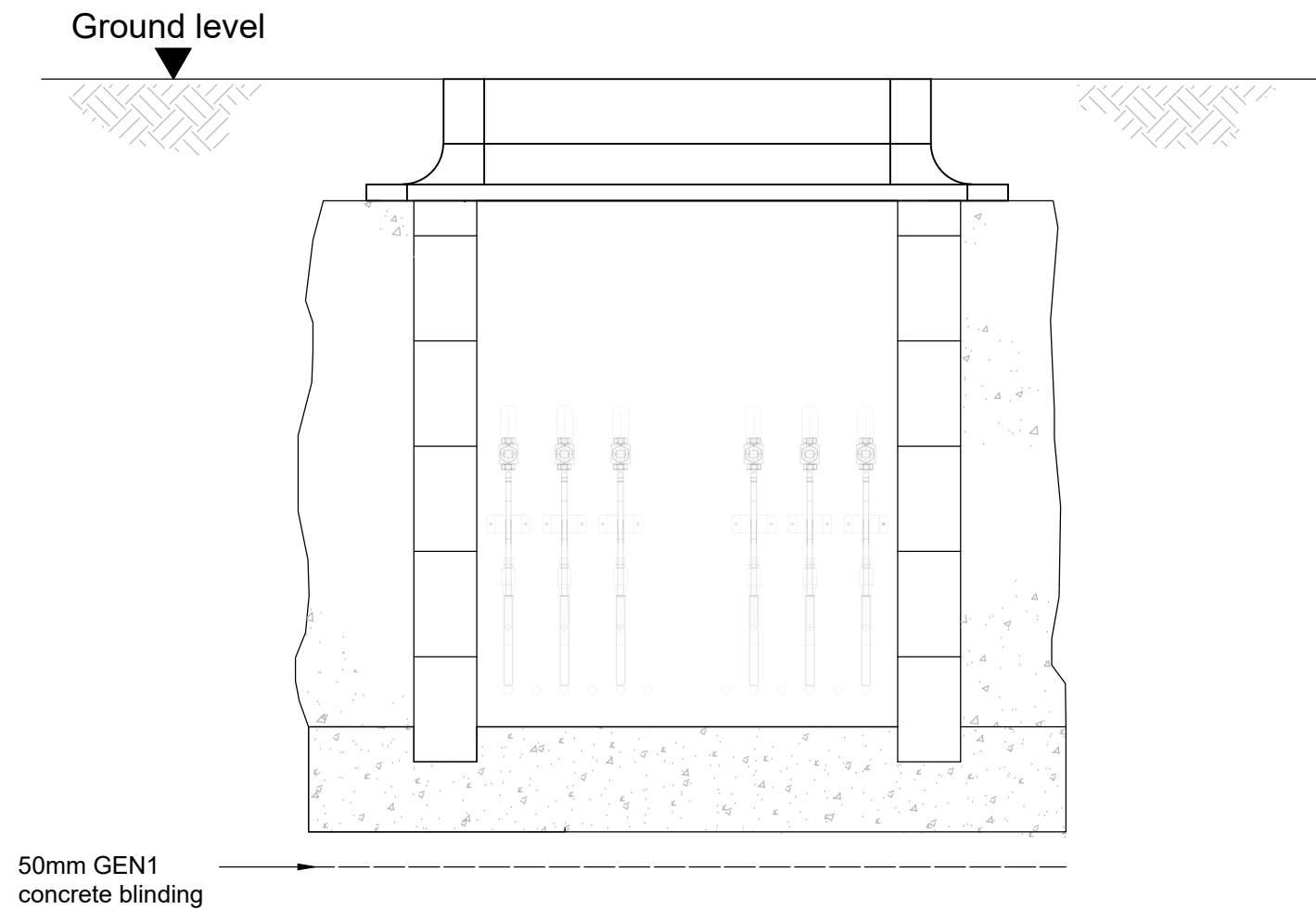
Dwg Title:
**Planning Drawings
Decommissioning Works
132kV Stop Joints
Plan/Detail**

Site: Glaslyn Cable Uprating		A1 100%	CAD
Originator Dwg No: GLAS-ARUP-70-XX-DR-X-9200	Originators Proj.Ref: 295280-00		
NG Investment No:			
NG Dwg No:	Sheet No:	Total No. of Sheets	Issue:
Scale: Not to scale	1	1	B

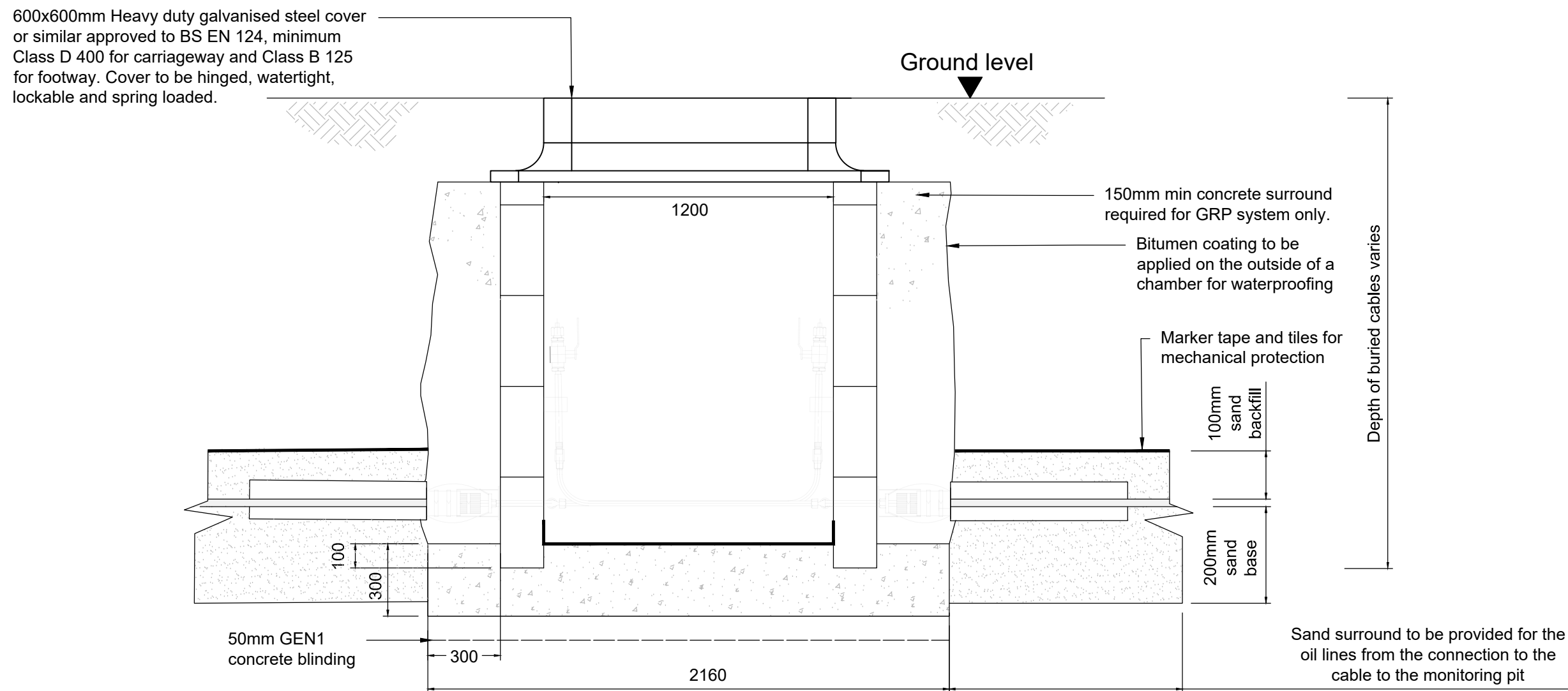
 WORLD-CLASS INFRASTRUCTURE										
J. MURPHY & SONS LTD Hivew House, Highgate Road, London NW5 1TN	National Grid National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA	8 Fitzroy Street London W1T 4BJ, United Kingdom Tel +44(0)20 7636 1531 Fax +44(0)20 7580 3924 www.arup.com	B	07/08/25	BA	RB	GT	Updated following NG comments		
			A	11/06/25	BA	JL	GT	Issued for Planning		
			ISSUE	DATE	DRAWN	CHECKED	APPROVED	REMARKS		



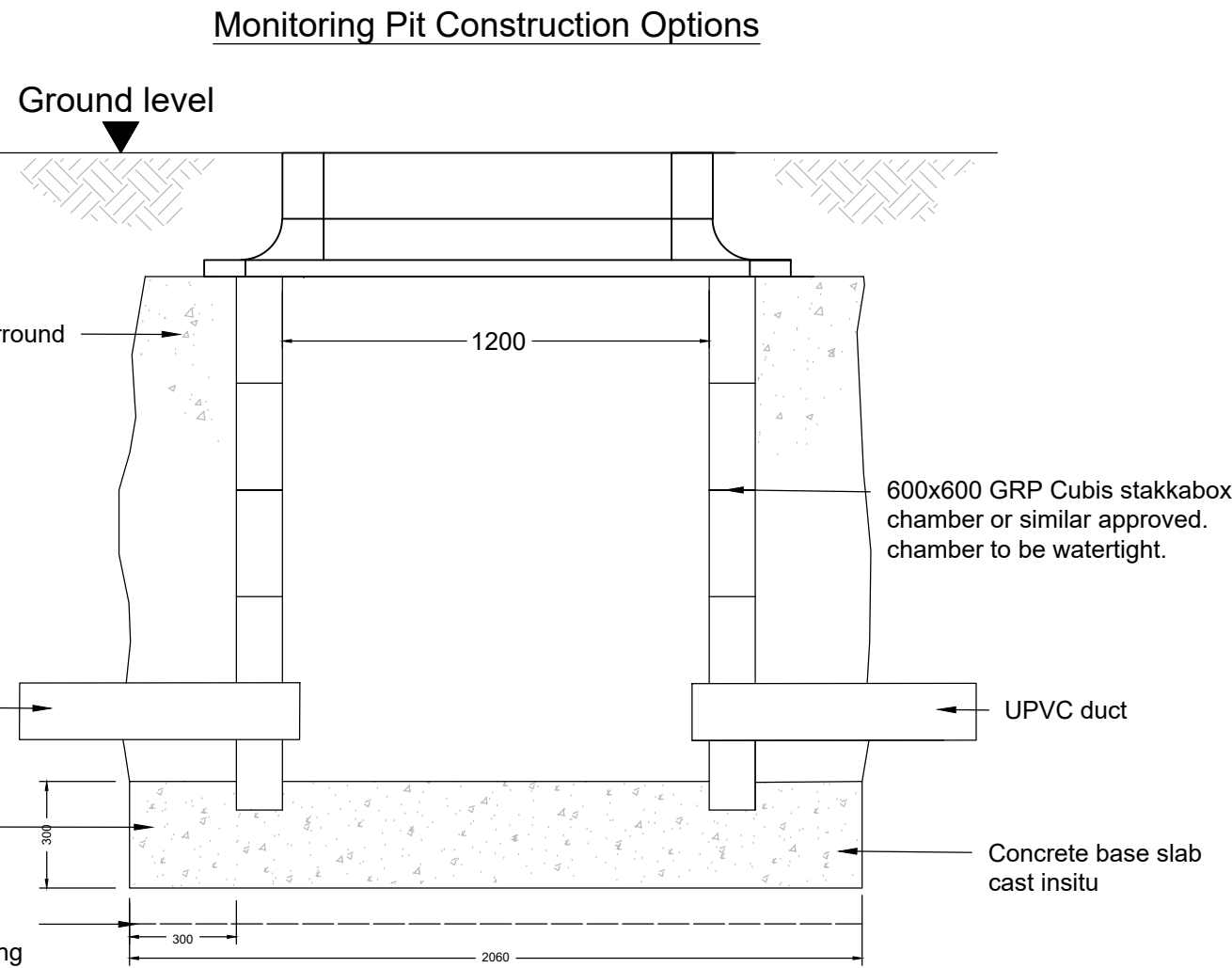
Typical Monitoring Pit Plan



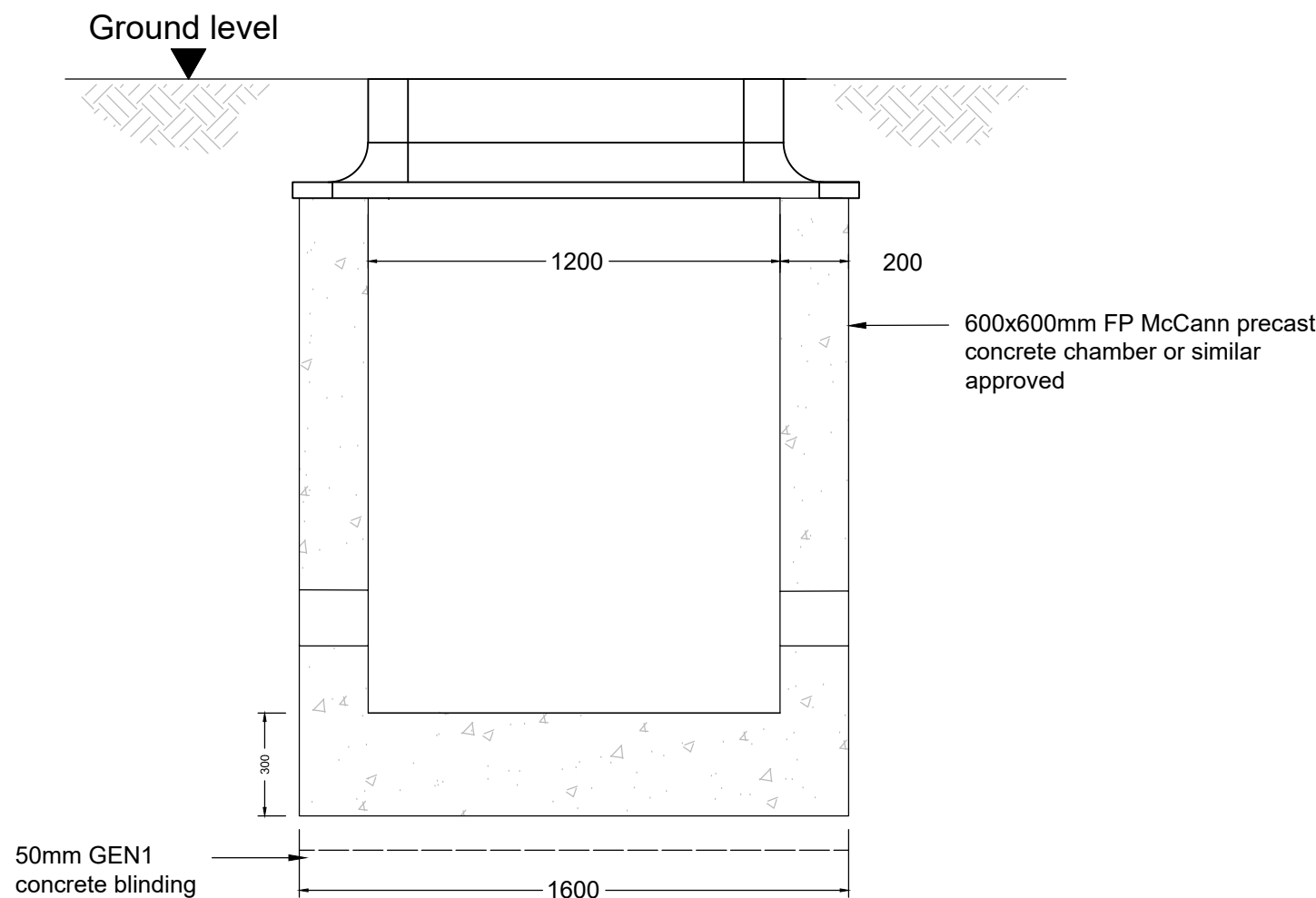
Typical Monitoring Pit
Section B-B



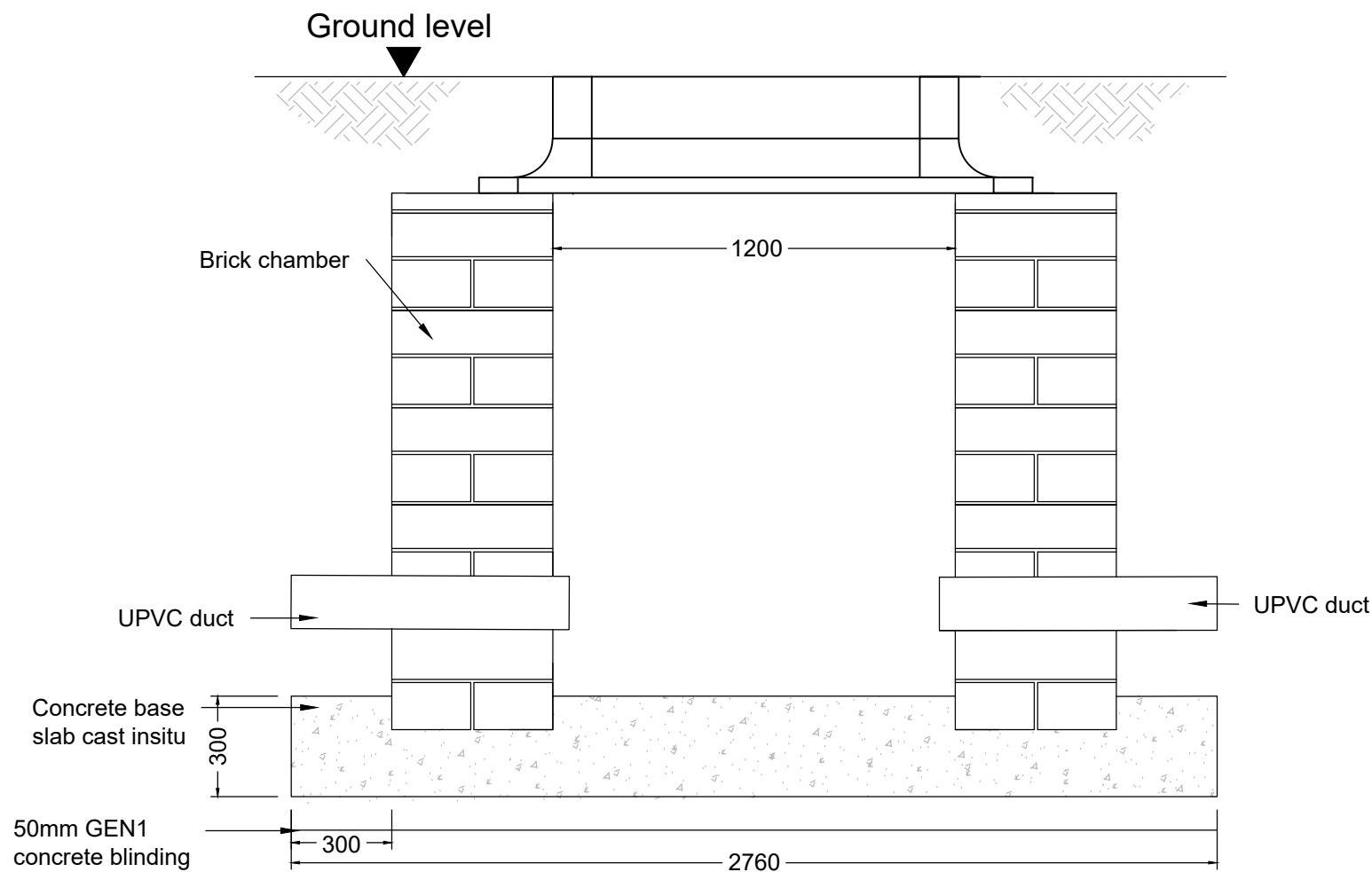
Typical Monitoring Pit
Section A-A



Construction Option 1:
Glass Reinforced Polymer (GRP / Plastic) Monitoring Pit



Construction Option 2:
Precast Concrete Monitoring Pit



Construction Option 3:
Brick Monitoring Pit

- Notes
1. Do not scale this drawing.
 2. All dimensions in millimetres unless otherwise noted.
 3. Valves in chambers are to be accessed from ground level.
 4. Mechanical protection for oil lines shall be provided with split duct, protection tiles and marker tape. The oil line will have a 200mm sand base and 100mm above the split duct.

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Dwg Title:
Planning Drawings
Decommissioning Works
132kV Monitoring Pit
Typical Detail

Site: Glaslyn Cable Uprating

A1
100%

CAD

Originator
Dwg No: GLAS-ARUP-70-XX-DR-X-9201

Originators
Proj.Ref: 295280-00

NG Investment

NG
Dwg No:

Sheet No: Total No. of Sheets Issue:

Scale: Not to scale

1 1 B

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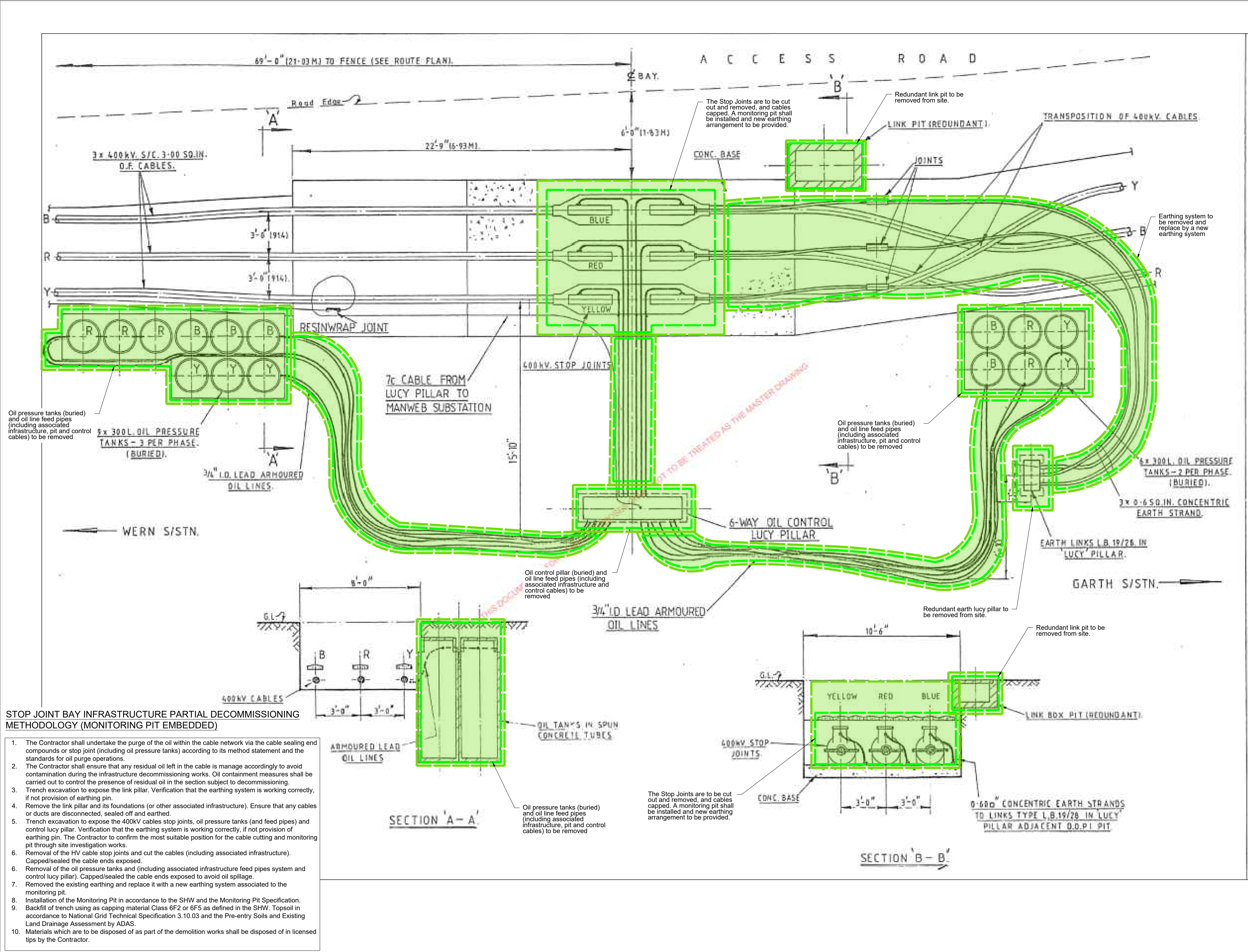
8 Fitzroy Street London
W1T 4BJ, United Kingdom
Tel +44(0)20 7636 1531 Fax +44(0)20 7580 3924
www.arup.com

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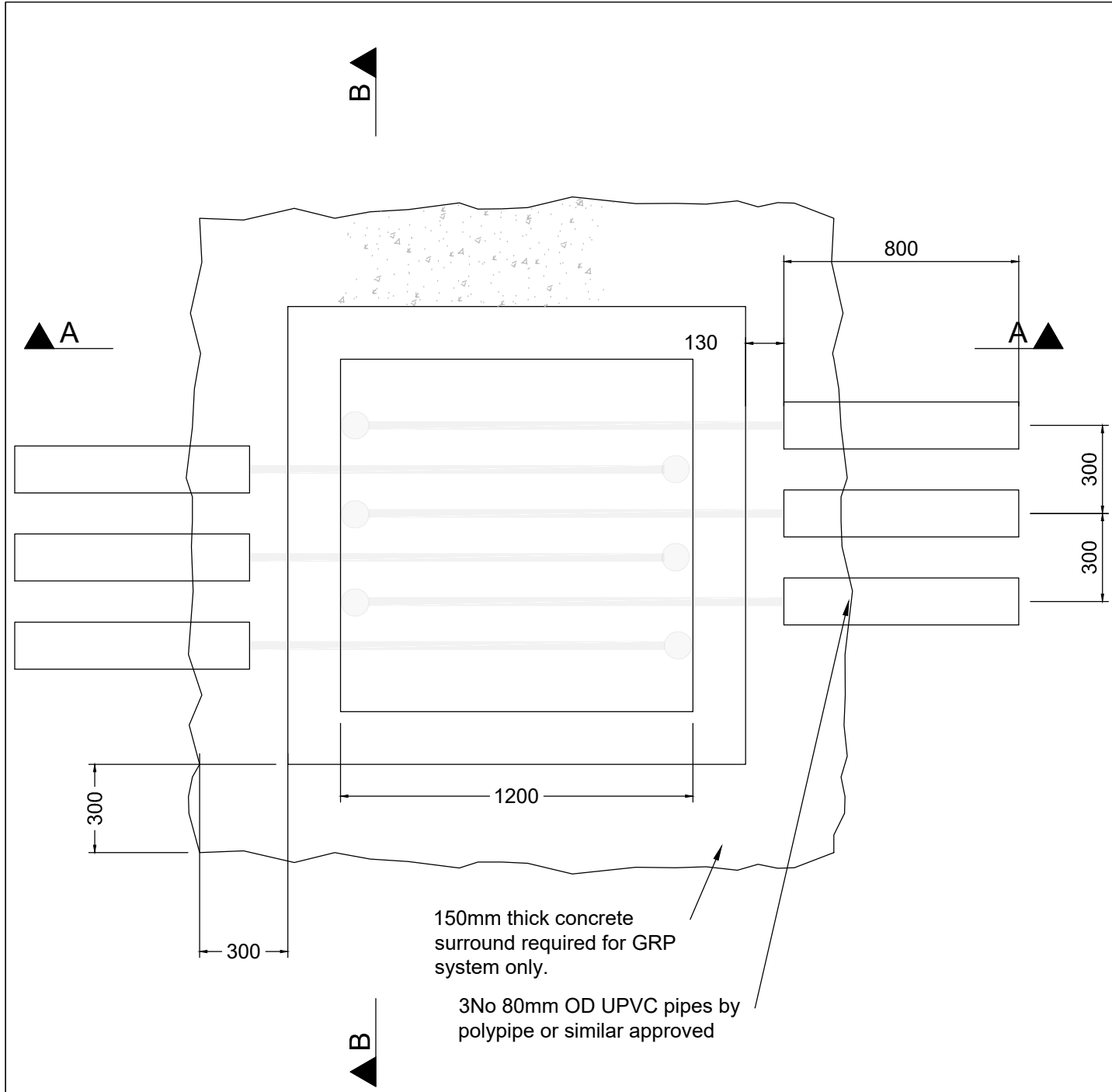


- Notes
1. Do not scale this drawing. All dimensions must be checked/verified on site.
 2. For as-built information, refer to document ref. 70/2329 "A5 & A4 Circuits Porthmadog & Trawsfynyddynydd 400kV Cable route" by Pirelli Construction Co. Ltd.
 3. The accuracy of the existing 400kV cables information (alignments and depths) is not guaranteed, and the contractor shall undertake additional investigation works to confirm the location and depth of the 400kV cables and ancillary equipment.
 4. The joint bay/stop joint system is based on as-built information and is assumed to be part of the below-ground infrastructure.
 5. Joint bay / stop joint system to be decommissioned and removed from site following best practice guidance and safety. The Stop Joints sections are to be cut and capped and an earthing arrangement shall be provided. Monitoring pits shall be installed to allow for monitoring and maintenance activities.
 6. All work to be undertaken in accordance with HSG 47.
 7. Access to the joint bay/stop joints system to be considered carefully.
 8. Vegetation areas to be identified and removed prior to the decommissioning works.

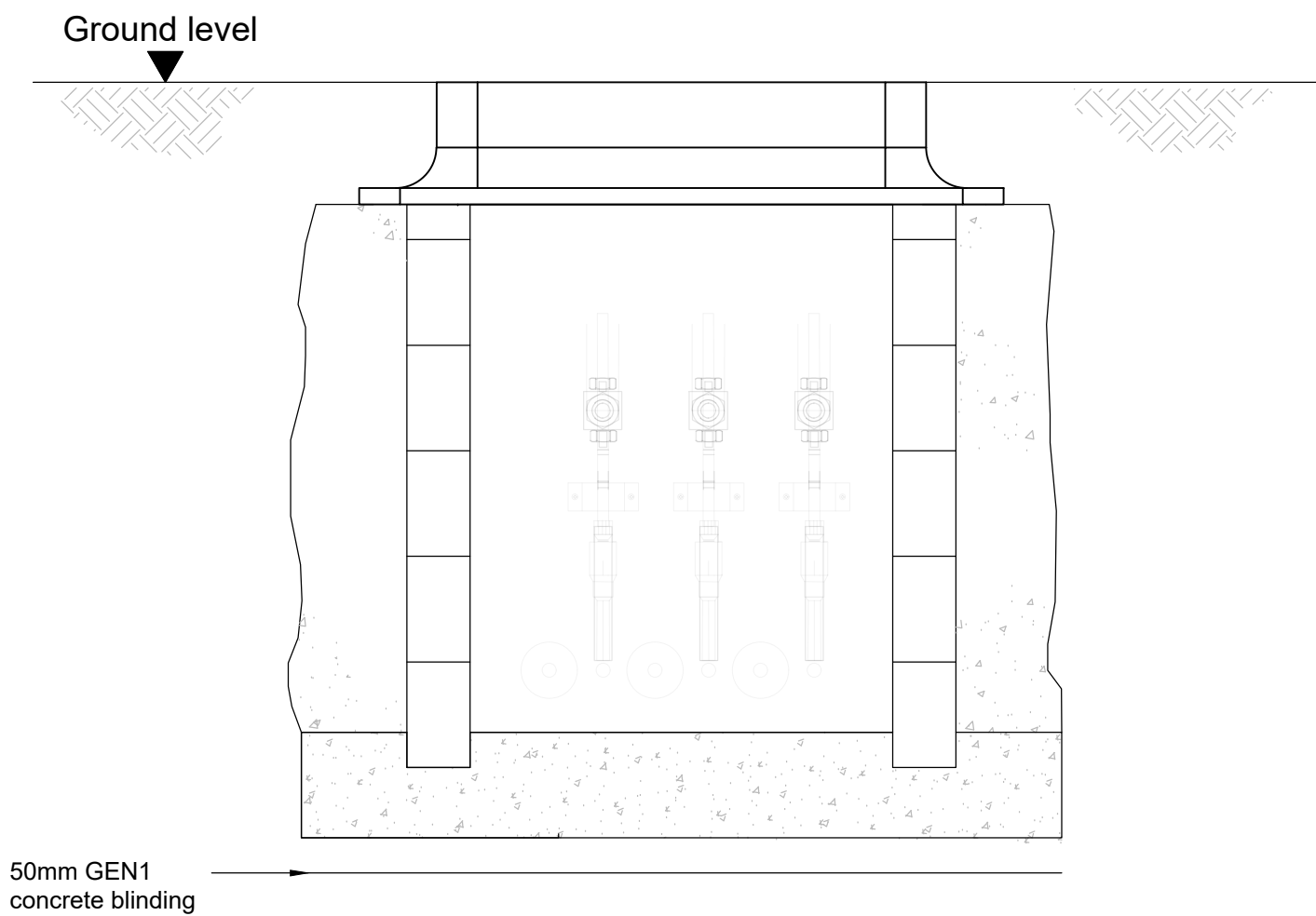
Legend

Infrastructure decommissioning excavation works

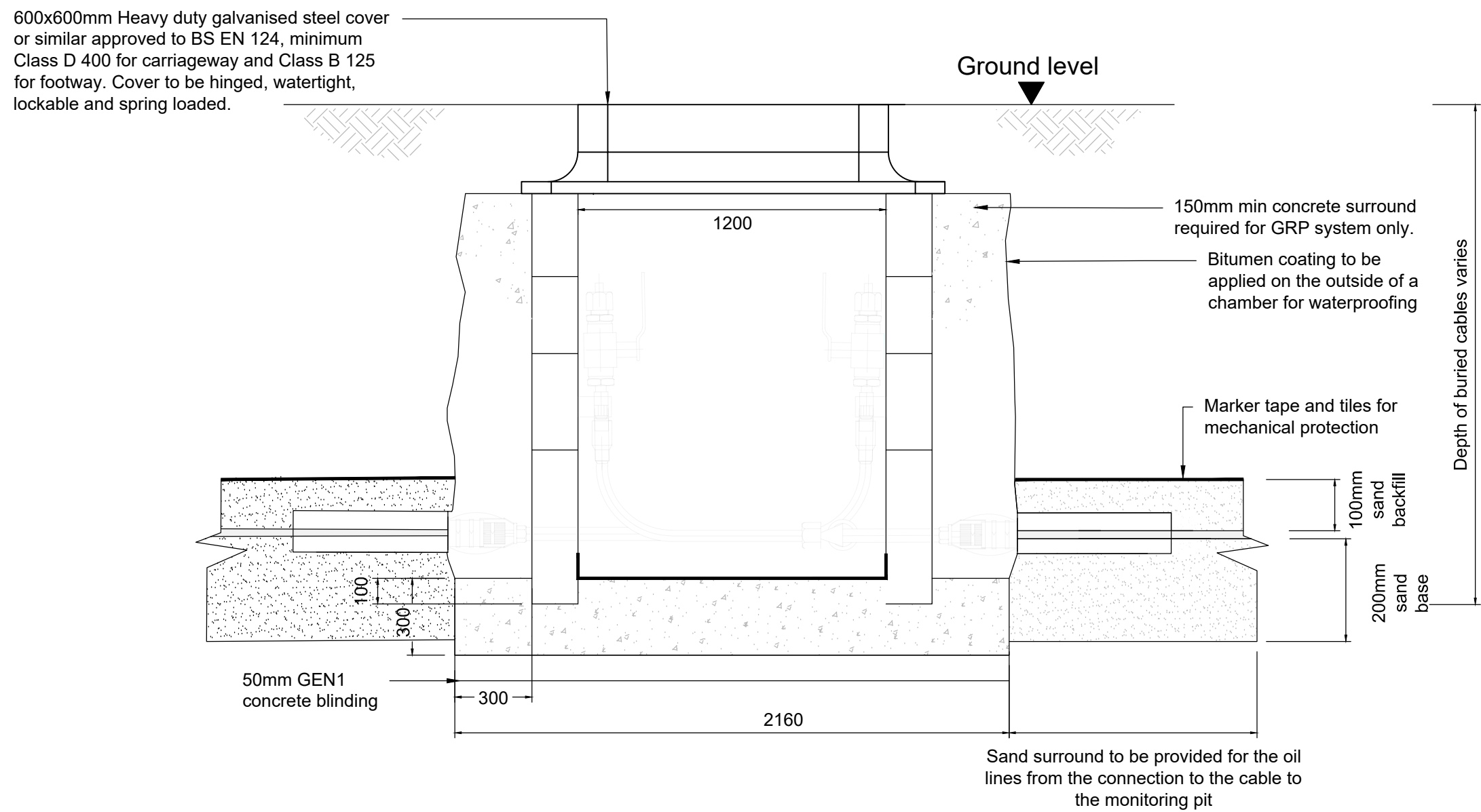
Equipment/Infrastructure to be removed



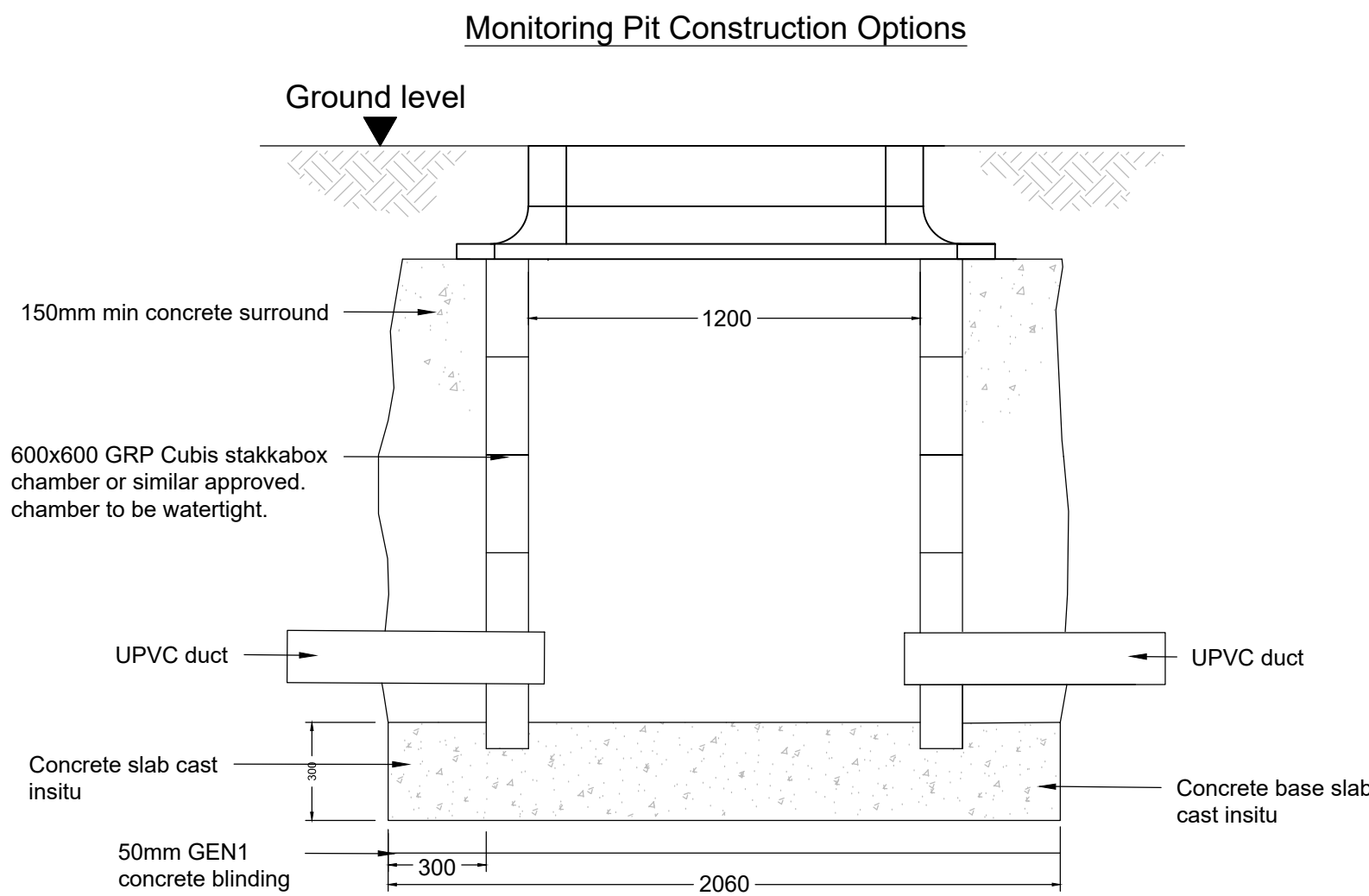
Typical Monitoring Pit Plan



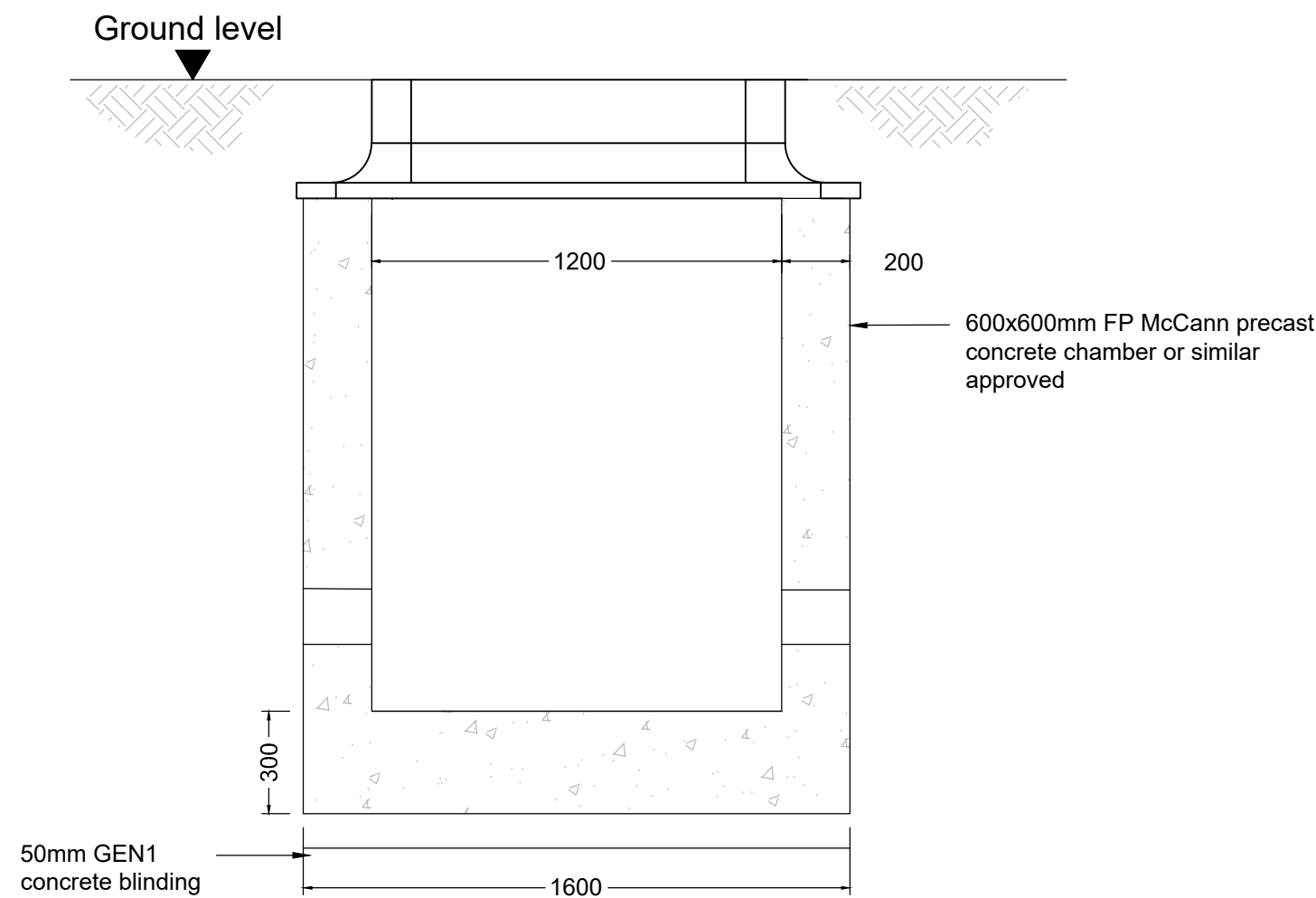
Typical Monitoring Pit Section B-B



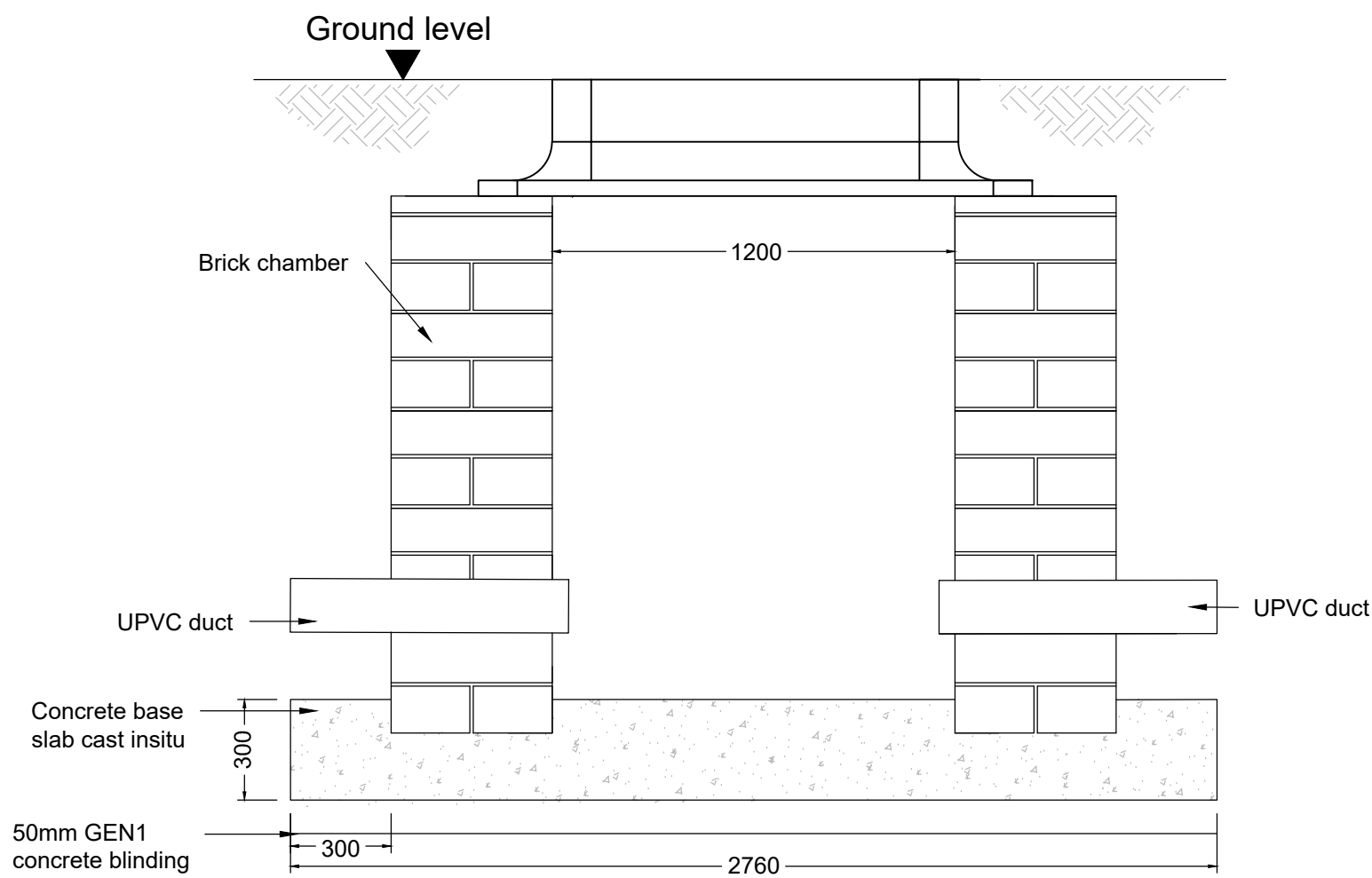
Typical Monitoring Pit Section A-A



Construction Option 1:
Glass Reinforced Polymer (GRP / Plastic) Monitoring Pit



Construction Option 2:
Precast Concrete Monitoring Pit



Construction Option 3:
Brick Monitoring Pit

- Notes**
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 2. All dimensions in millimetres unless otherwise noted.
 3. Valves in chambers are to be accessed from ground level.
 4. Mechanical protection for oil lines shall be provided with split duct, protection tiles and marker tape. The oil line will have a 200mm sand base and 100mm above the split duct.

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Dwg Title: Planning Drawings Decommissioning Works 400kV Monitoring Pit Typical Detail		
Site: Glaslyn Cable Uprating	A1 100%	CAD
Originator Dwg No: GLAS-ARUP-70-XX-DR-X-9203	Originators Proj.Ref: 295280-00	
NG Investment	Sheet No:	Total No. of Sheets
NG Dwg No:	1	1
Scale: Not to scale		Issue: B



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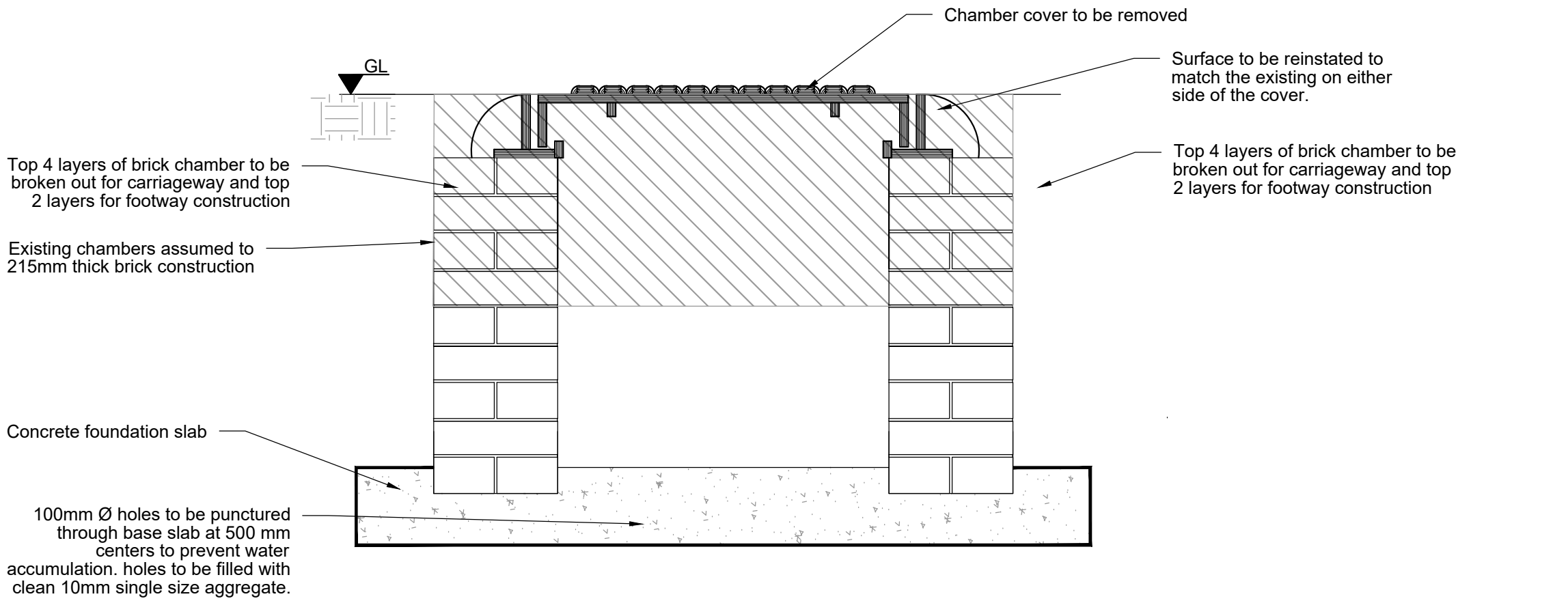
ARUP

B 07/08/25 BA RB GT Updated following NG comments

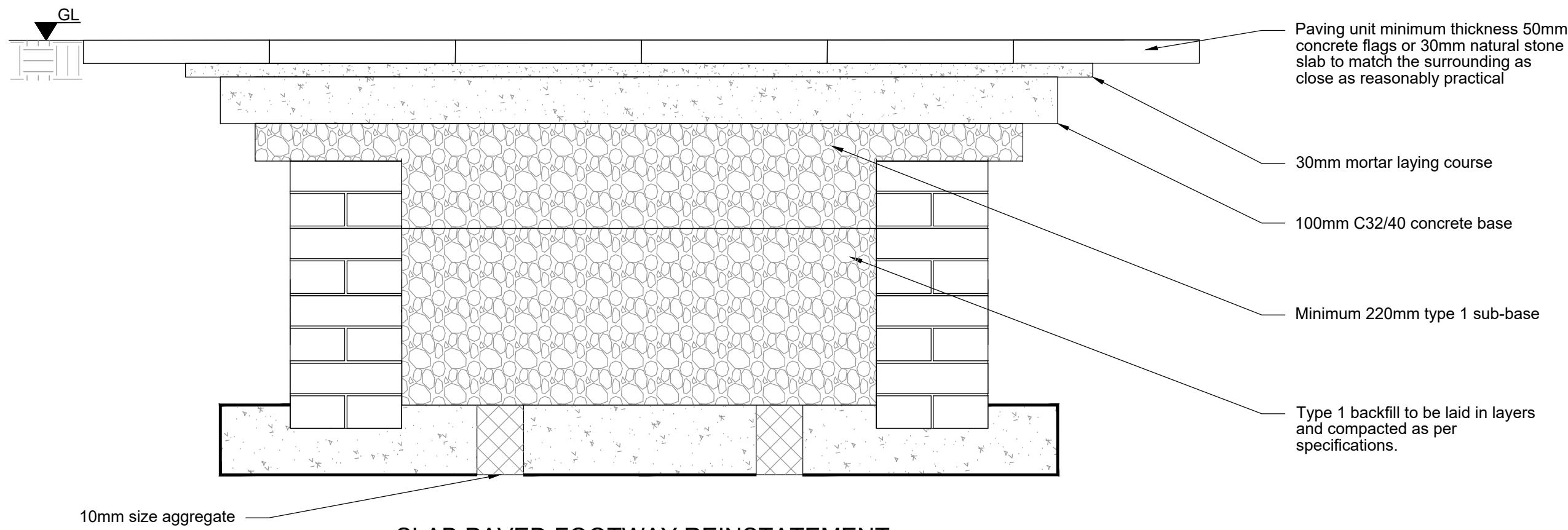
A 11/06/25 BA JL GT Issued for Planning

ISSUE DATE DRAWN CHECKED APPROVED REMARKS

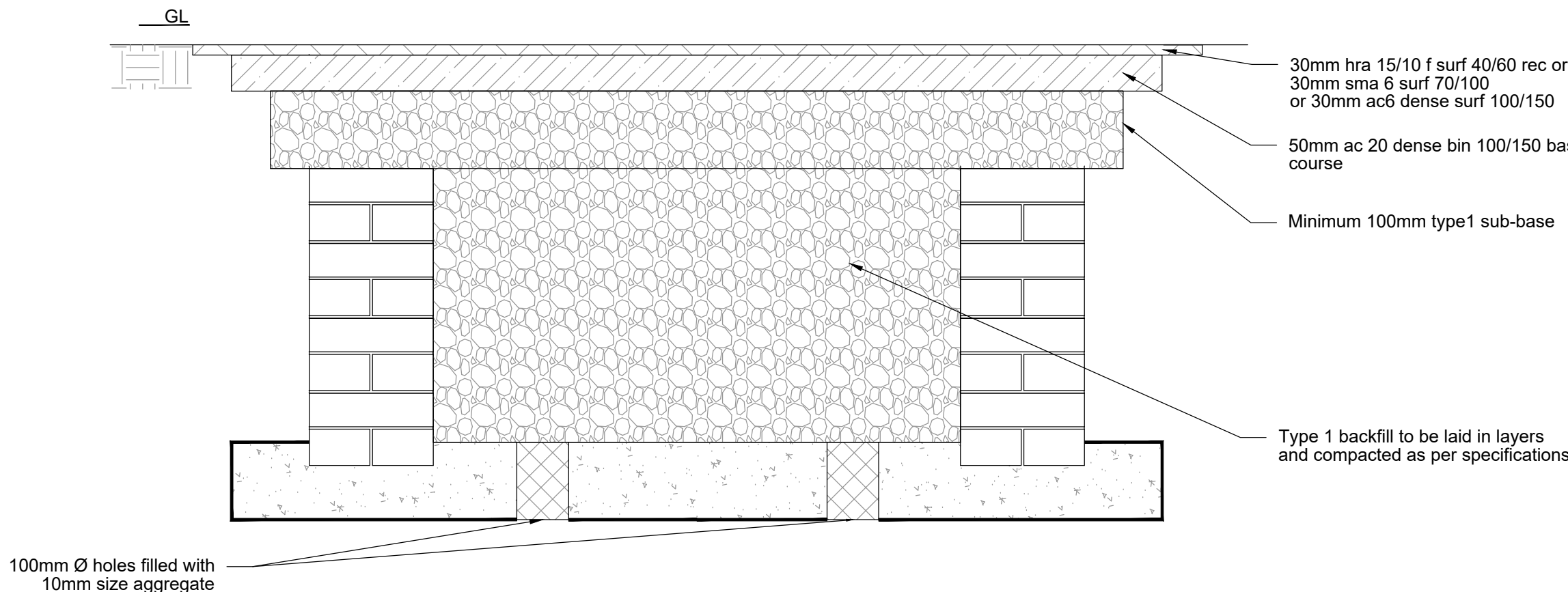
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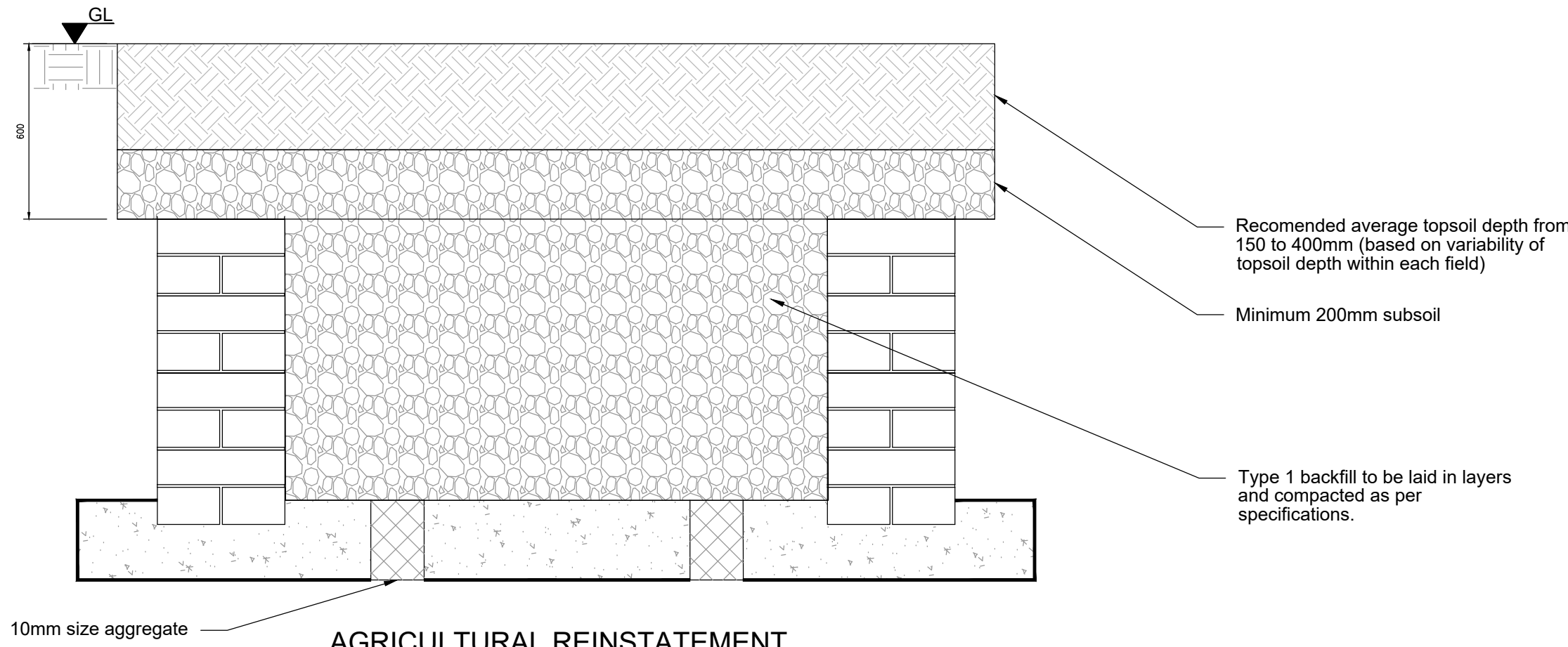
ASSUMED EXISTING 400kV
CHAMBER CONSTRUCTION



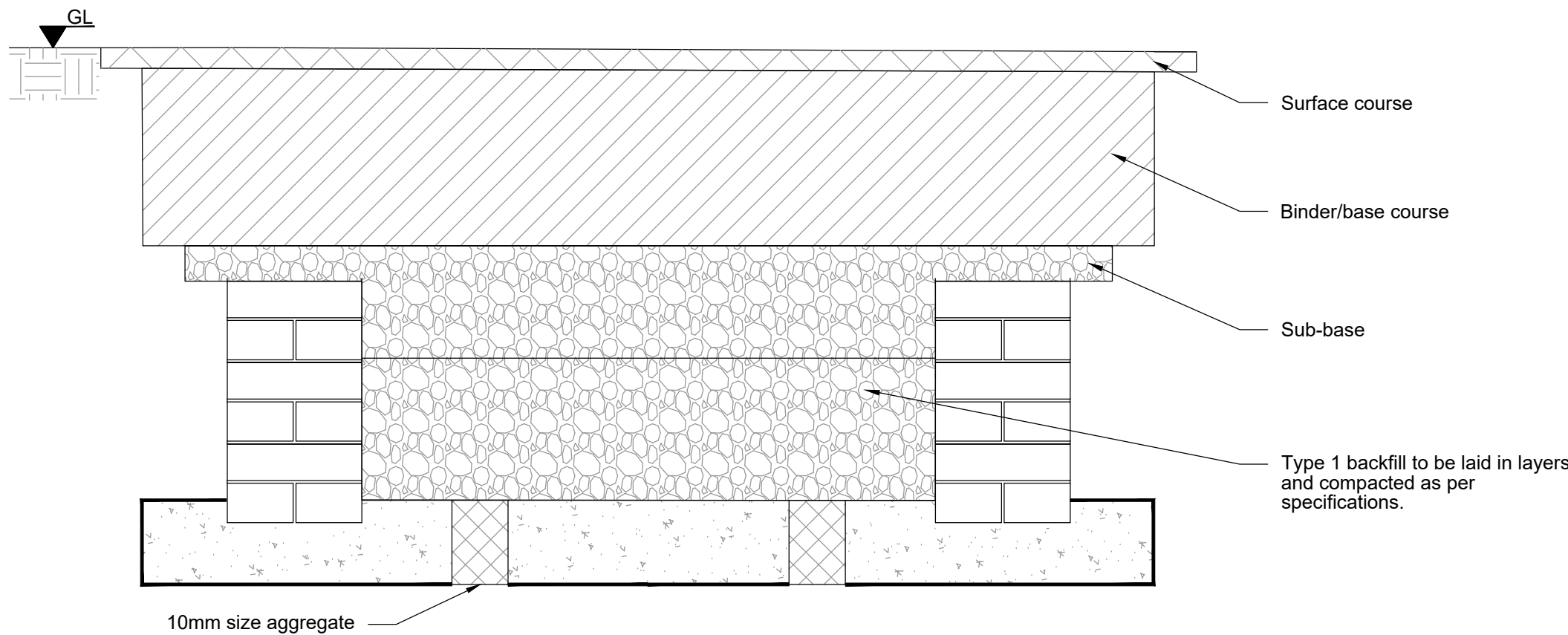
SLAB PAVED FOOTWAY REINSTATEMENT
TYPICAL DETAIL



FLEXIBLE ASPHALT FOOTWAY
REINSTATEMENT TYPICAL DETAIL



AGRICULTURAL REINSTATEMENT
TYPICAL DETAIL



FLEXIBLE ASPHALT CARRIAGEWAY
REINSTATEMENT
TYPICAL DETAIL

- Notes**
- Do not scale from this drawing. All dimensions must be checked/ verified on site.
 - All dimensions are in millimeters unless stated otherwise.
 - For as-built information, refer to documents ref. T(12) K&D-C.69 HQ "Porthmadog & Trawsfynydd 132kV & Auxiliary Cables" and ref. 70/2329 "A5 & A4 Circuits Portmadoc & Trawsfynydd 400kV Cable route" by Pirelli Construction Co. Ltd.
 - All surfaces to match the existing as far as reasonably practicable.
 - Chamber structure is assumed to be brick (concrete at mounted bays). The actual material is to be confirmed on site.
 - Chambers to be cleared out before backfilling. All redundant cabling is to be appropriately capped and earthed.
 - If any stop joint pit structures are to be removed, where specified in the drawings to be provided by MPNL before the works commence.
 - Any cables and ducts in chambers and pits are to be disconnected, sealed off and earthed. Disused cables and ducts together with any bed or haunch or surround shall be removed where specified in the drawings.
 - Topsoil to BS 3882:2015 and following recommendations of the Pre-entry Soils and Existing Land Drainage Assessment undertaken by ADAS and dated 16/08/23.
 - Flexible asphalt sub-base, binder/base course and surface course shall be in accordance with the Specification for the Reinstatement of Openings in Highways
 - Reinstatement works to be planned in line with NGTS 3.10.03 "Generic Technical Specification for Civils - Excavation, Backfill and Restoration".

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Dwg Title:
Planning Drawings
Decommissioning Works
400kV Backfilling and Reinstatement
Typical Detail

Site: Glaslyn Cable Uprating		A1 100%	CAD
Originator Dwg No: GLAS-ARUP-70-XX-DR-X-9204	Originators Proj.Ref: 295280-00		
NG Investment No:			
NG Dwg No:	Sheet No: 1	Total No. of Sheets 1	Issue: B
Scale: Not to scale			

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