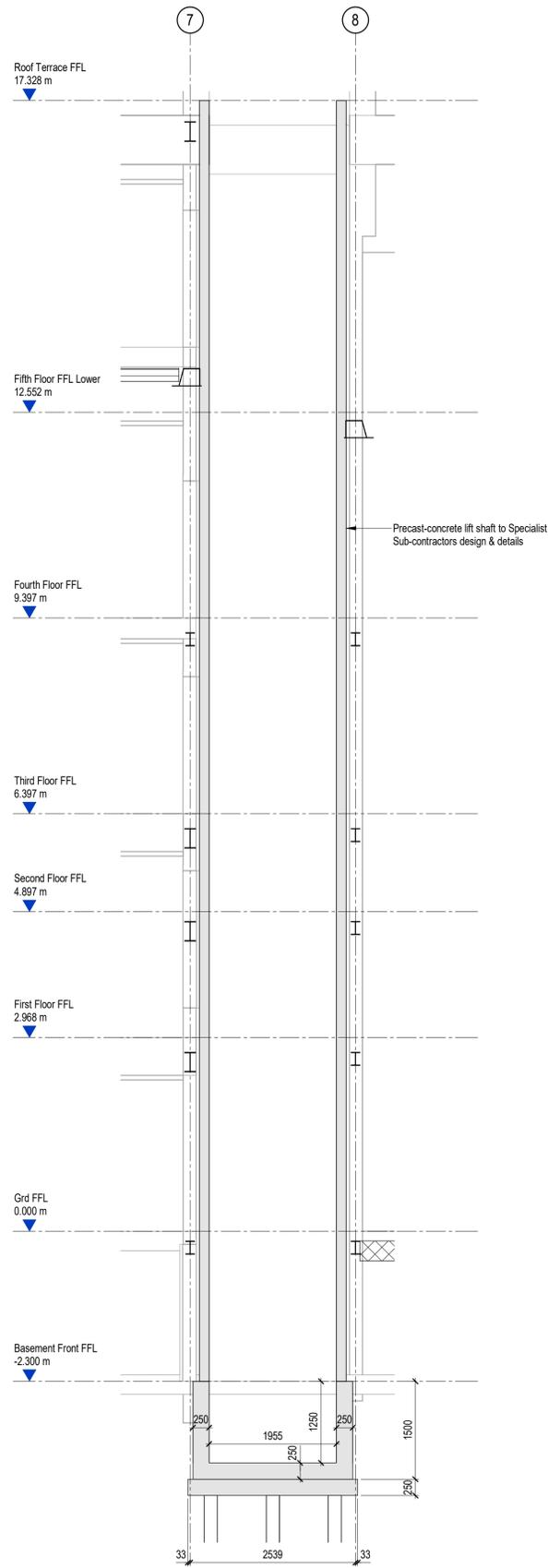
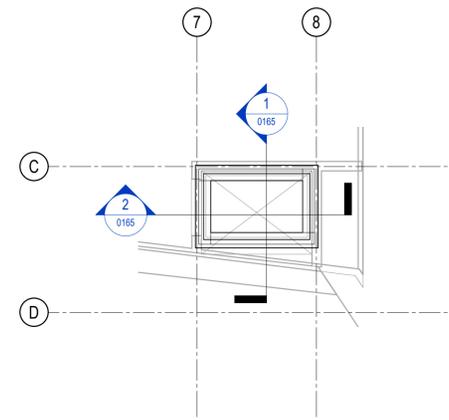


Section 1
1:50



Section 2
1:50



Key Plan
1:75

Reinforced Concrete Basement Water-Proofing Notes

- The Contractor (or Specialist Water-Proofing Consultant) is responsible for the design, specification and implementation of the basement water-proofing system.
- Warranties for all water-proof / water-tight construction are to be obtained from the Specialist Water-Proofing Consultant or product Manufacturer as appropriate.
- Where basement water-proofing details are shown on BML drawings, these are provided to convey possible indicative design intent suitable for preliminary costing only and do not represent the final design which is to be confirmed by the Contractor (or Specialist Water-Proofing Consultant).
- All materials and workmanship are to be in accordance with BS 8102:2009
- BS 8102:2009 basement grade to be confirmed by Architect.
- For all structural concrete grades refer to the Specification.
- BS 8102:2009 Types of Water-Proof Construction:
BS 8102 recommends consideration should be given to the use of dual systems, the number and type of systems used are to be confirmed by the Architect and / or Specialist Water-Proofing Consultant prior to any fabrication or works on site.
Type A - Barrier Protection (Tanking)
Tanking system to external / internal face of wall & slab strictly in accordance with Specialist Water-Proofing Consultants Specification & details.
Exact extent to be confirmed & detailed by the Specialist Water-Proofing Consultant in accordance with BS 8102.
All penetrations through the tanking system are to be detailed and constructed in accordance with the Manufacturers instructions.
This system of water-proofing must connect to a fully serviceable drainage system to prevent water pressure build up.
Type B - Structurally Integral Protection (Water-tight concrete)
Reinforced concrete elements to be formed in BS 8102 Type B water-tight concrete construction using BSA certified admixture to Specialist Water-Proofing Consultants Specification, dosed and mixed into the concrete in strict accordance with the Manufacturers instructions.
The minimum section thickness of concrete elements is to be confirmed by the admixture Manufacturer.
Where the minimum thickness is greater than shown on BML drawings, the admixture Manufacturers requirements shall take precedence and the Project Engineer informed.
Limiting dimensions for drilled holes for fixings etc. are to be advised by the admixture Manufacturer prior to any fabrication or works on site, and enforced by the Contractor.
Type C - Drained Protection
The installation of a fully maintainable cavity drainage membrane system to the inside of the building.
Type C systems should direct penetrating water to a drainage system and collection sump, before using a pump to discharge water from the building.
The system should be designed by the Specialist Water-Proofing Consultant / Supplier to deal with worst-case water ingress and be fully maintainable.
All penetrations through the cavity drainage membrane system are to be detailed and constructed in accordance with the Manufacturers instructions.

General Concrete

- All materials and workmanship is to be in accordance with BS 8110.
 - All concrete to be 'designated mixes' in accordance with BS 8500 and BS EN 206. All concrete classification TBC subject to SI Report
- | | |
|-------------------------------------|------------------------------------|
| Blinding | GEN1 |
| Lean mix | GEN3 |
| Unreinforced foundations | GEN3 or FND? (subject to DC class) |
| Underpinning | C25/30 |
| RC foundations | RC28/35 |
| Internal ground-bearing floor slabs | RC28/35 |
| Basement RC Slab | RC28/35 (Water-tight concrete) |
| Basement RC Walls | RC28/35 (Water-tight concrete) |
| Structural topping | RC28/35 (Max 10mm aggregate) |
| General reinforced concrete | RC28/35 |
- Maximum aggregate size is to be 20mm, unless noted otherwise.
 - Ready mixed concrete shall be supplied by a QSRMC Registered Company from a plant holding current QSRMC Certification for Product Conformity.
 - ACEC Classification**
Design Sulphate Class TBC subject to SI Report
ACEC Class TBC subject to SI Report
 - Water-Proof / Water-Tight Basement Construction**
Barnsley Marshall Ltd. have carried out structural design of reinforced concrete basement elements to limit maximum crack widths to 0.3mm in accordance with BS 8110:1997 or Eurocode 2 BS EN 1992 (Structural requirements).
Any more onerous requirements to satisfy the waterproofing strategy for the design of the basement are to be confirmed to the Project Engineer prior to any fabrication or works on site. For the avoidance of doubt the Contractor (or Specialist Water-Proofing Consultant) is responsible for the design, specification and implementation of the basement water-proofing system.
 - All hot rolled and cold worked steel bars specified shall conform to BS 4449 (Grade B500B or B500C) and shall be cut and bent in accordance with BS 8666.
 - The bars shall be obtained from firms holding valid CARES (or fully equivalent schemes) product conformity and sustainable reinforcing steel scheme certificates of approval for the production and supply of the steel reinforcement.
 - Steel fabric reinforcement shall conform to BS 4483 (Grade B500A, B500B or B500C) and shall be cut and bent in accordance with BS 8666.
 - Steel fabric reinforcement shall have a minimum nominal bar size of 6 mm (8 mm for Grade B500A).
 - Steel fabric reinforcement shall be delivered to site in flat mats or pre-bent.
 - The steel fabric shall be obtained from firms holding valid CARES (or fully equivalent schemes) product conformity and sustainable reinforcing steel scheme certificates of approval for the production and supply of the steel fabric reinforcement.
 - For diameters $d < 12\text{mm}$, Grade B500A, Grade B500B or Grade B500C conforming to BS 4449:2005 may be considered.
 - For diameter $d > 12\text{mm}$, Grade B500B or Grade B500C conforming to BS 4449:2005 shall be specified.

Safety, Health & Environmental Information:
In addition to the hazards and risks normally associated with the types of work detailed on this drawing, please note the significant hazards identified by this symbol, and described below:



Construction:

Maintenance / Cleaning / Operation:

Demolition:

General Notes

- Do not scale from this drawing.
- All dimensions are in millimetres (mm), all levels in metres (m) unless noted otherwise.
- Discrepancies or omissions are to be reported to the Engineer prior to work commencing.
- Materials and workmanship are to comply in all respects with current British Standard Specifications, Codes of Practice, and Building Regulations Approved Documents.
- The copyright of this drawing is vested in the Engineer and must not be copied or reproduced without written consent.
- The Contractor is to check and verify all building and site dimensions, levels and sewer invert levels at connection points before work commences.
- This drawing is to be read in conjunction with all relevant specifications and drawings issued by the Engineer, Architect and other Specialists.

Important Notes:
This is Work In Progress and subject to the following:

- Confirmation of extent of remedial work required to make good all existing structure not covered in these drawings.
- Masonry compressive strength testing outstanding. Areas of masonry require high strength brickwork in order to support additional loading.
- Varying ground conditions further investigated when better access available across site.
- Building classification & disproportionate collapse requirements.

All structural setting-out shown on this drawing is coordinated with Archtype model 'HMAG-ART-XX-XX-M3-A-70000-Architectural_Model_P10' received 24-11-2022

Span Mark Key

A	Denotes span of Metal web joists at 400c/c max (TBC by Specialist Subcontractor)
B	Denotes span of CLT (TBC by Specialist Subcontractor)
C	Denotes span of 50x175dp timber joists at 600c/c
D	150mm thk RC35 composite concrete floor on Multideck MD60 V2 x 0.9mm gauge (or equal) reinforced with 1 layer of A142 mesh in top, 40mm cover.
S	Denotes span direction of PCC stairs designed by Specialist Sub-contractor

T01	CW / BW	24.02.23	Issued for Stage 3
Revision	By / Chk'd	Date	Description

TENDER DRAWING
To be used for tender & costing purposes only

Client

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BarnsleyMarshall

Project
Hereford Museum and Art Gallery
Broad Street, Hereford,
HR4 9AU

Drawing

Passenger Lift

Drawn by CW Date 30.08.2022

Drawing No.	Revision
HFM-BML-XX-ZZ-DR-S-0165	T01
BML Job No.	Status
1041-002	

Drawing Scale at A1: As indicated

Revit Version: 2020
RVT File Path: C:\Revit Local Copy\HFM-BML-XX-ZZ-M3-S-0100_cameron2R2B10.rvt