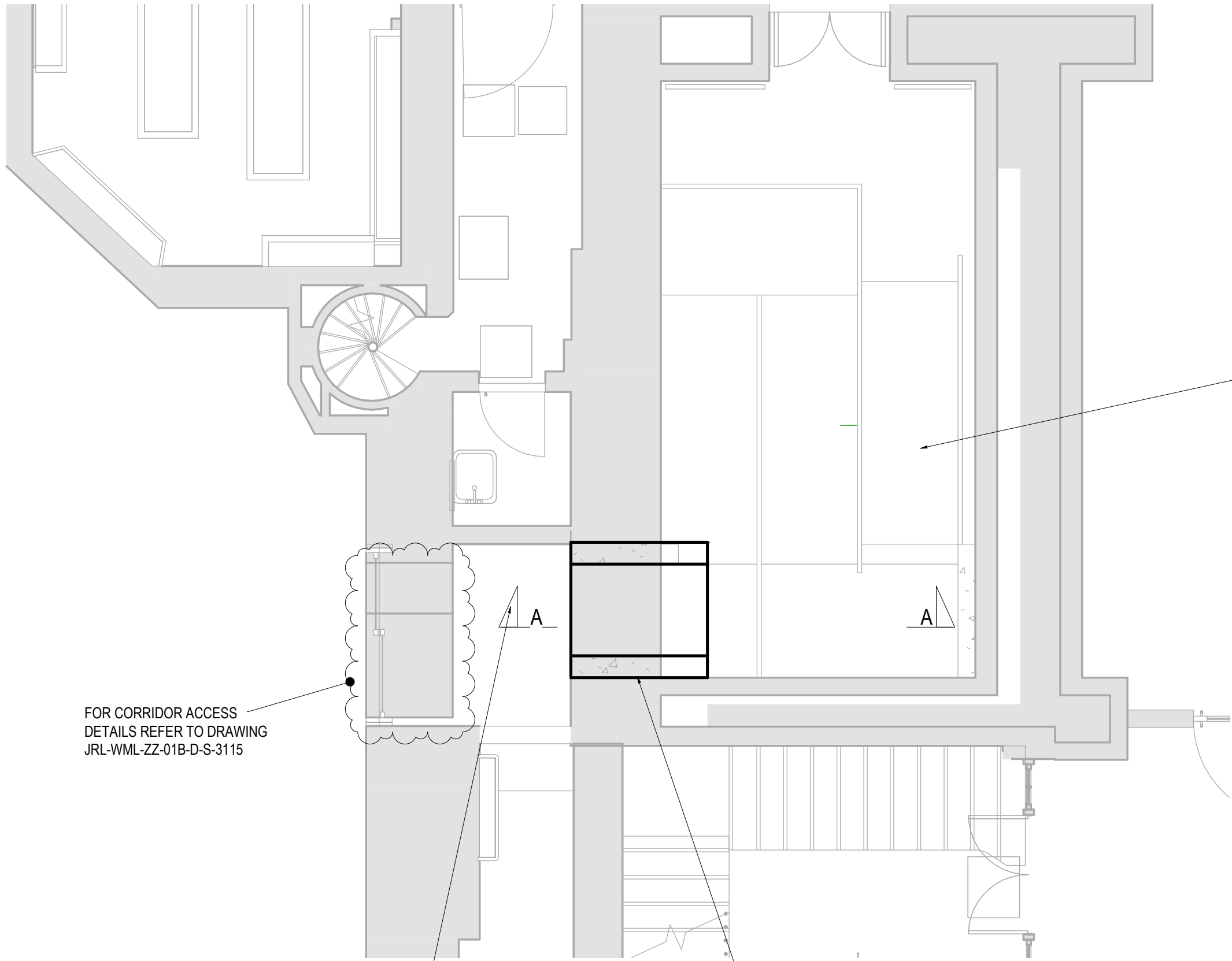


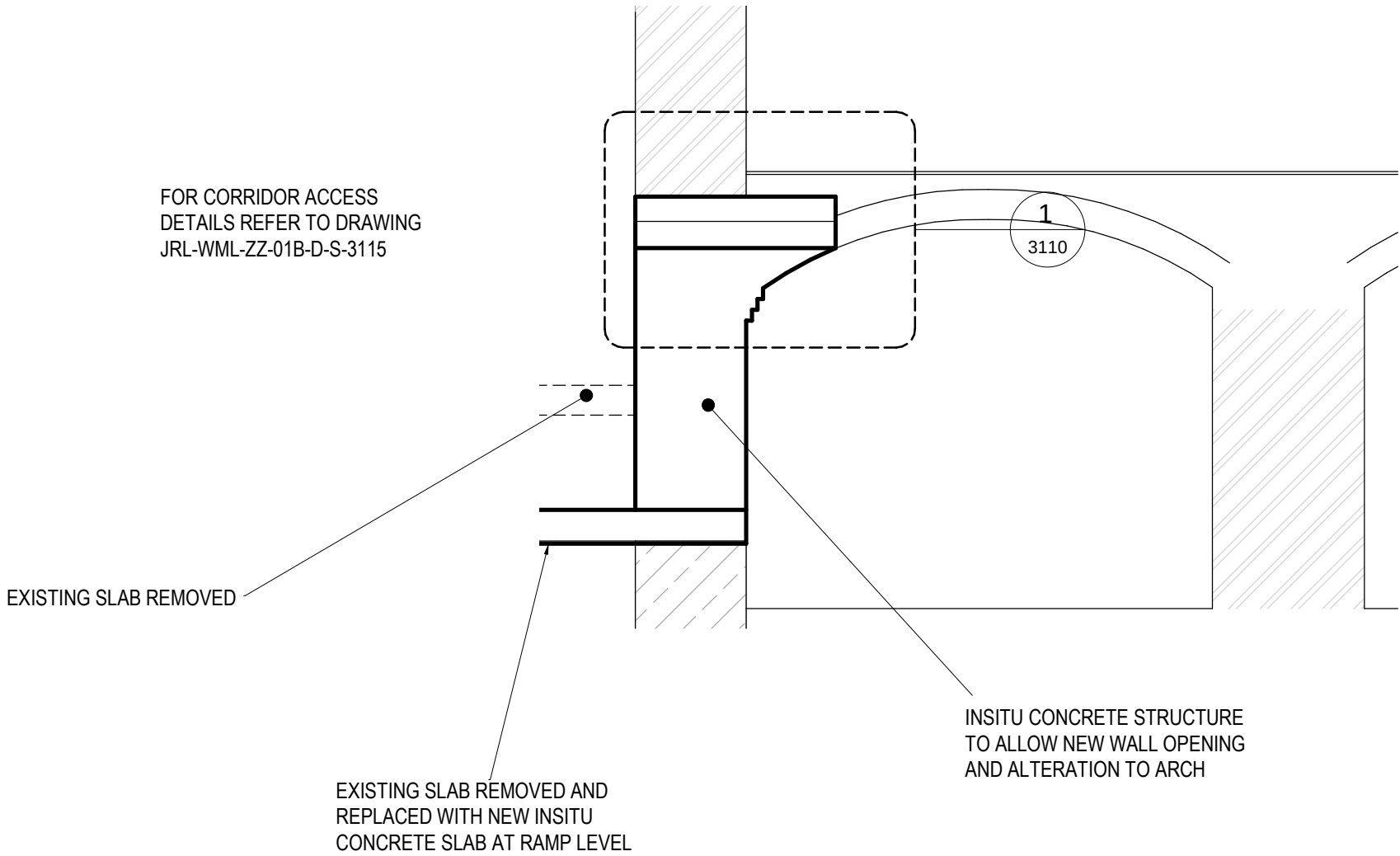


LIGHTWEIGHT TIMBER RAMP SUPPORTED ON EXISTING FLOOR SLAB. HATCHES TO BE PROVIDED FOR ACCESS TO SERVICE DUCT BELOW

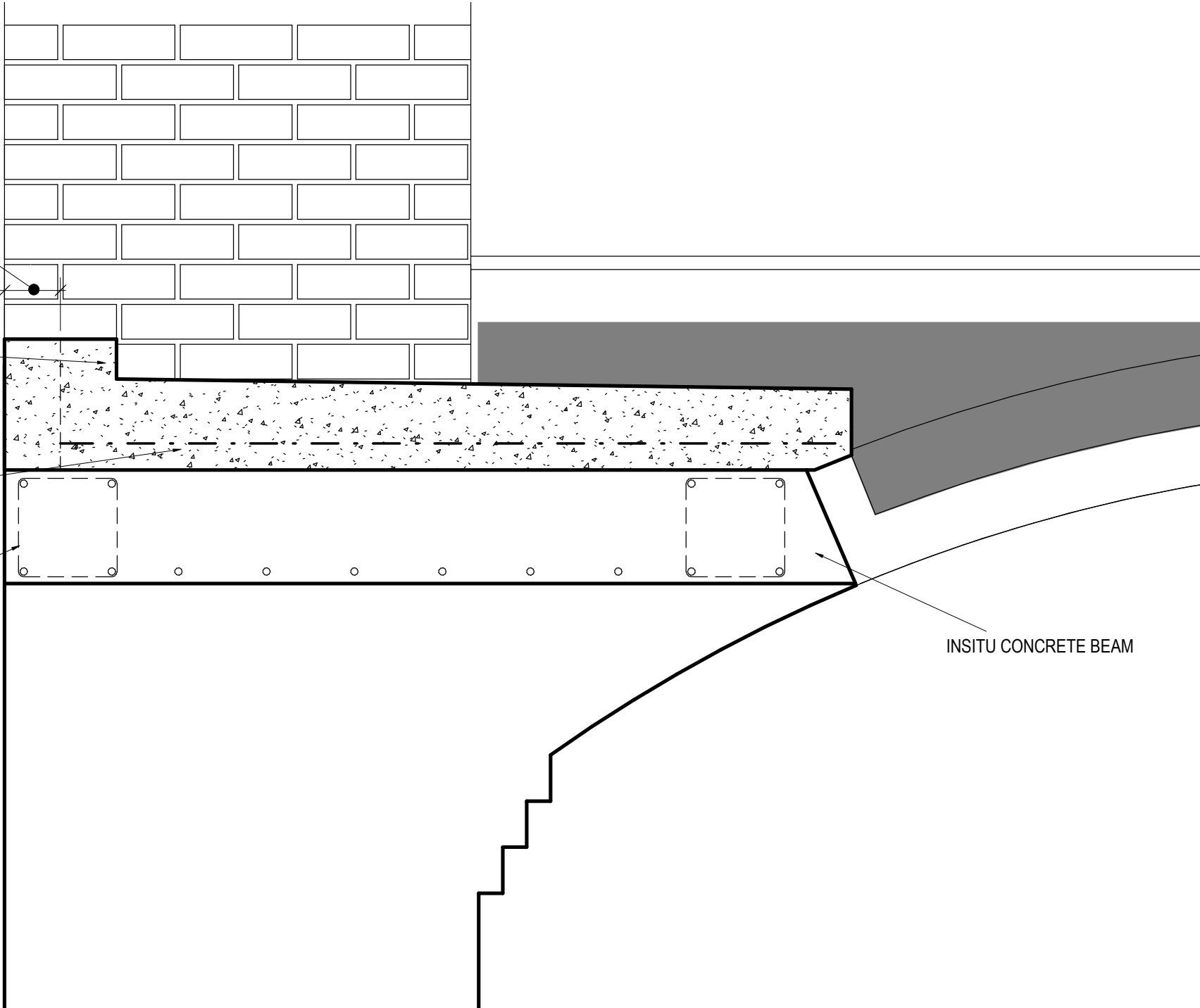
FOR CORRIDOR ACCESS DETAILS REFER TO DRAWING JRL-WML-ZZ-01B-D-S-3115

EXISTING SLAB REMOVED AND REPLACED WITH NEW INSITU CONCRETE SLAB AT RAMP LEVEL

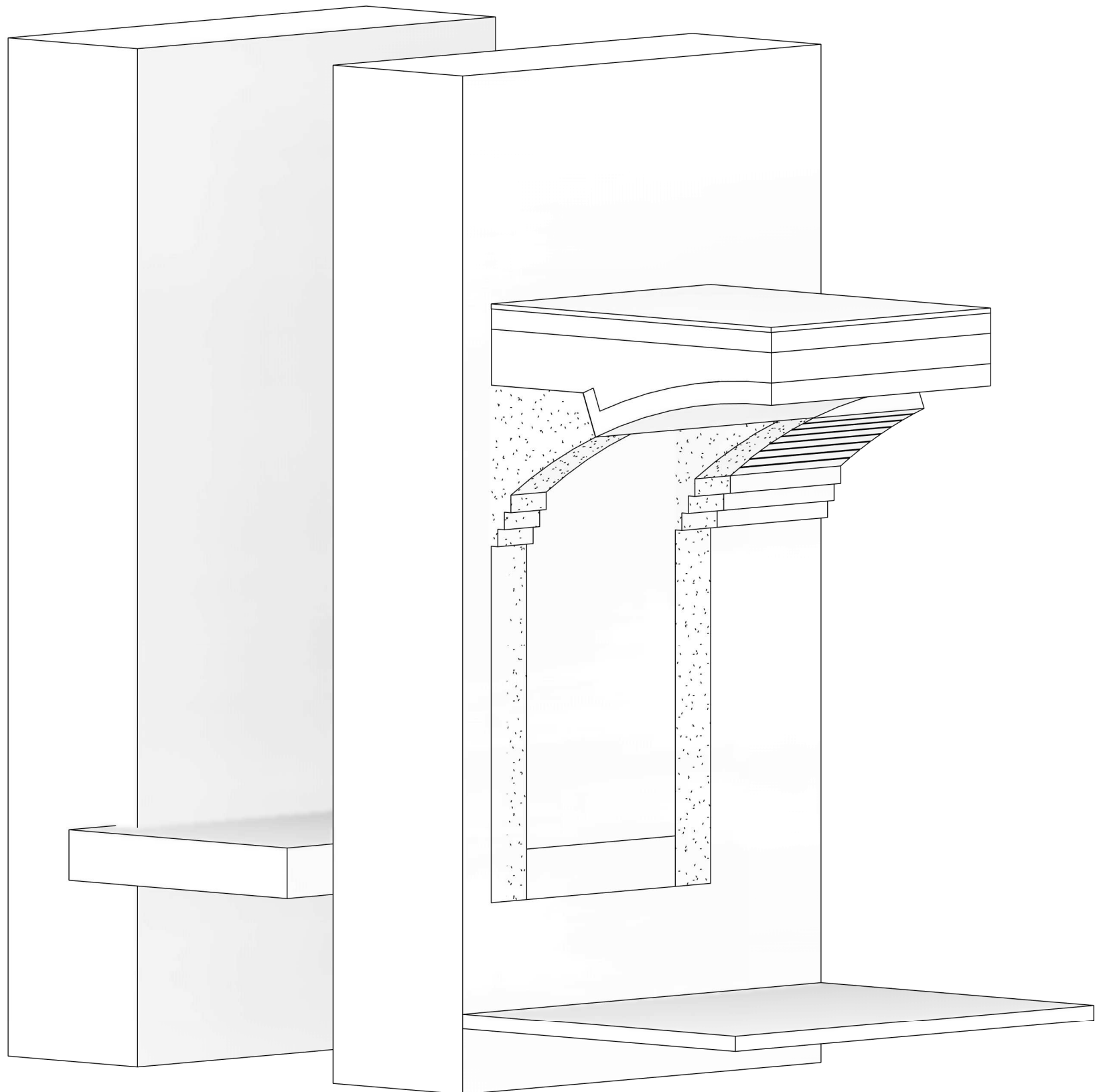
INSITU CONCRETE STRUCTURE TO ALLOW NEW WALL OPENING AND ALTERATION TO ARCH



SECTION A-A
(SCALE 1 : 50)



DETAIL 1
(SCALE 1 : 10)



GENERAL NOTES

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- THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH & SAFETY PLAN.

RESIDUAL RISK REGISTER -

REFER TO WML CIVIL / STRUCTURAL DESIGN RISK REGISTER IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORKS INDICATED ON THIS DRAWING. NOTE THE FOLLOWING:-

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TEMPORARY WORKS IN THE FORM OF PROPPING WILL BE REQUIRED TO FACILITATE NEW OPENINGS. TEMPORARY WORKS WILL NEED TO BE DESIGNED BY A SUITABLY QUALIFIED SPECIALIST

IMPOSED LOAD CAPACITIES OF FLOORS TO SUPPORT EQUIPMENT IS UNKNOWN AND WILL REQUIRE CONSIDERATION WITH THE CONTRACTOR TO ENSURE THAT LARGE POINT LOADS ARE ADEQUATELY DISTRIBUTED

PROPOSED SEQUENCE OF WORKING FOR CONCRETE STRUCTURE SHOWN ON DRAWING S-3111

DRAWINGS TO BE READ IN CONJUNCTION WITH WML REPORT 10696-WML-ZZ-XX-RP-S-1003

REFER TO STRUCTURAL CONDITION SURVEY MARK UP FOR LOCATIONS WHERE REPAIR WORKS ARE RECOMMENDED

PRELIMINARY DRAWING

P03	DETAIL 1 ADDED.	JUN '23	OC	AJWL
P02	UPDATED 'FORM' ON DRAWING SHEET	APR '23	OC	AJWL
P01	PRELIMINARY ISSUE	APR '23	OC	AJWL
Rev	Amendment	Date	By	Chkd

Project
**JOHN RYLANDS LIBRARY
THE NEXT CHAPTER**

Client
THE UNIVERSITY OF MANCHESTER

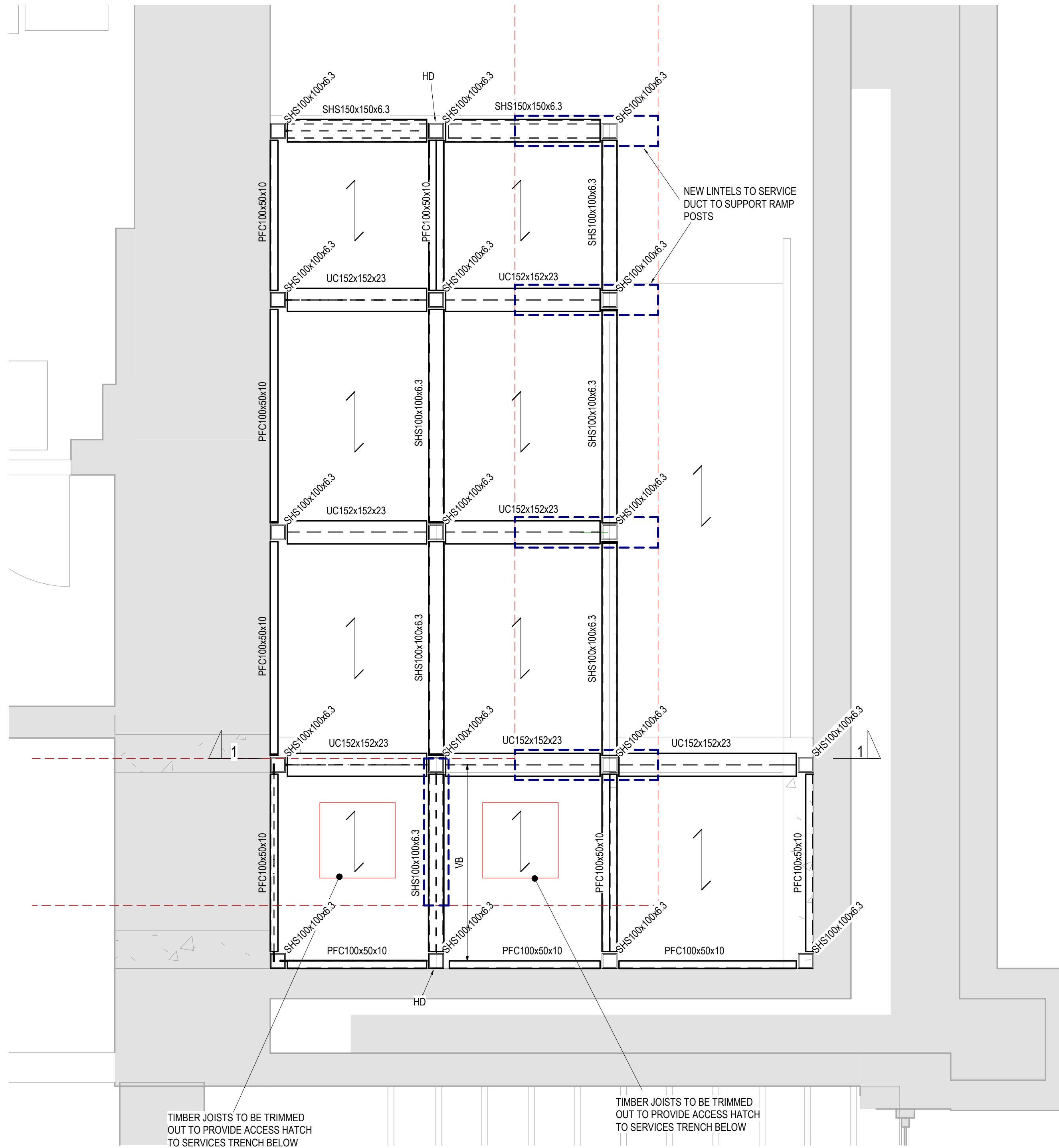
Title
BASEMENT ACCESS GA

WML Job No. 10696	Drawn OC	Checked AJWL	Date APR '23	Scale As indicated @ A1
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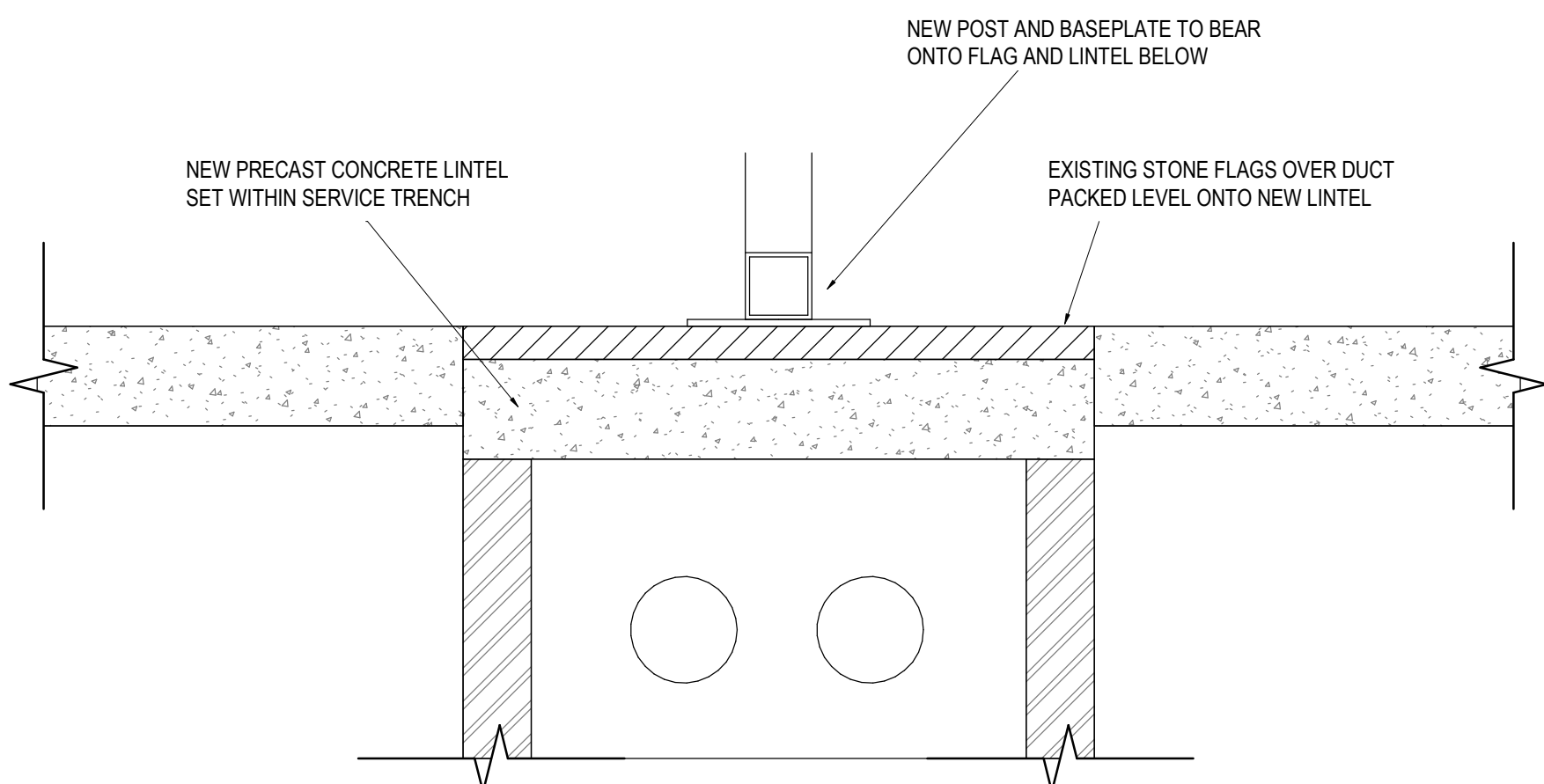
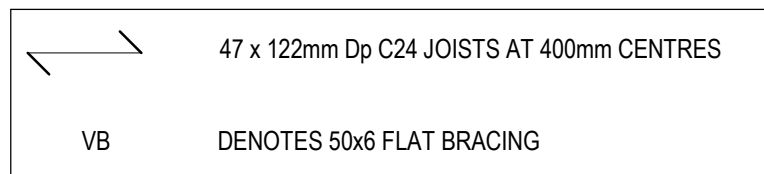
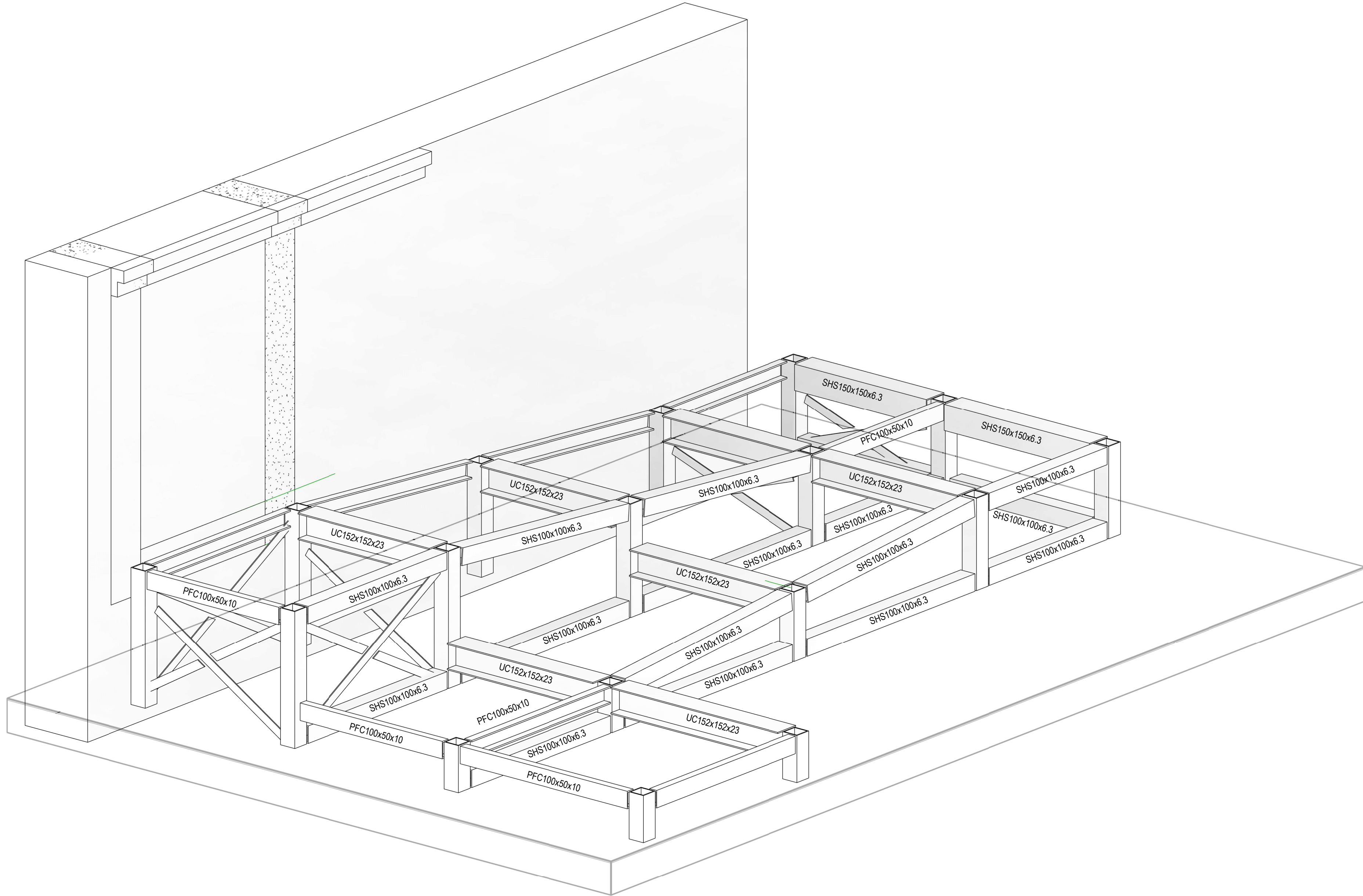
WML CONSULTING
Civil, Structural & Geotechnical Engineers
No. 8 Oak Green
Earl Road
Stanley Green Business Park
Cheadle Hulme
Cheshire SK9 6QL
Tel: 0161 482 0600
Fax: 0161 486 9210
email: info@wmiconsulting.com
www.wmiconsulting.com

Drawing No.						
Project ID	Originator	Functional Breakdown	Special Breakdown	Form	Discipline	Number
JRL	-	WML	-	ZZ	-	01B - D - S - 3110

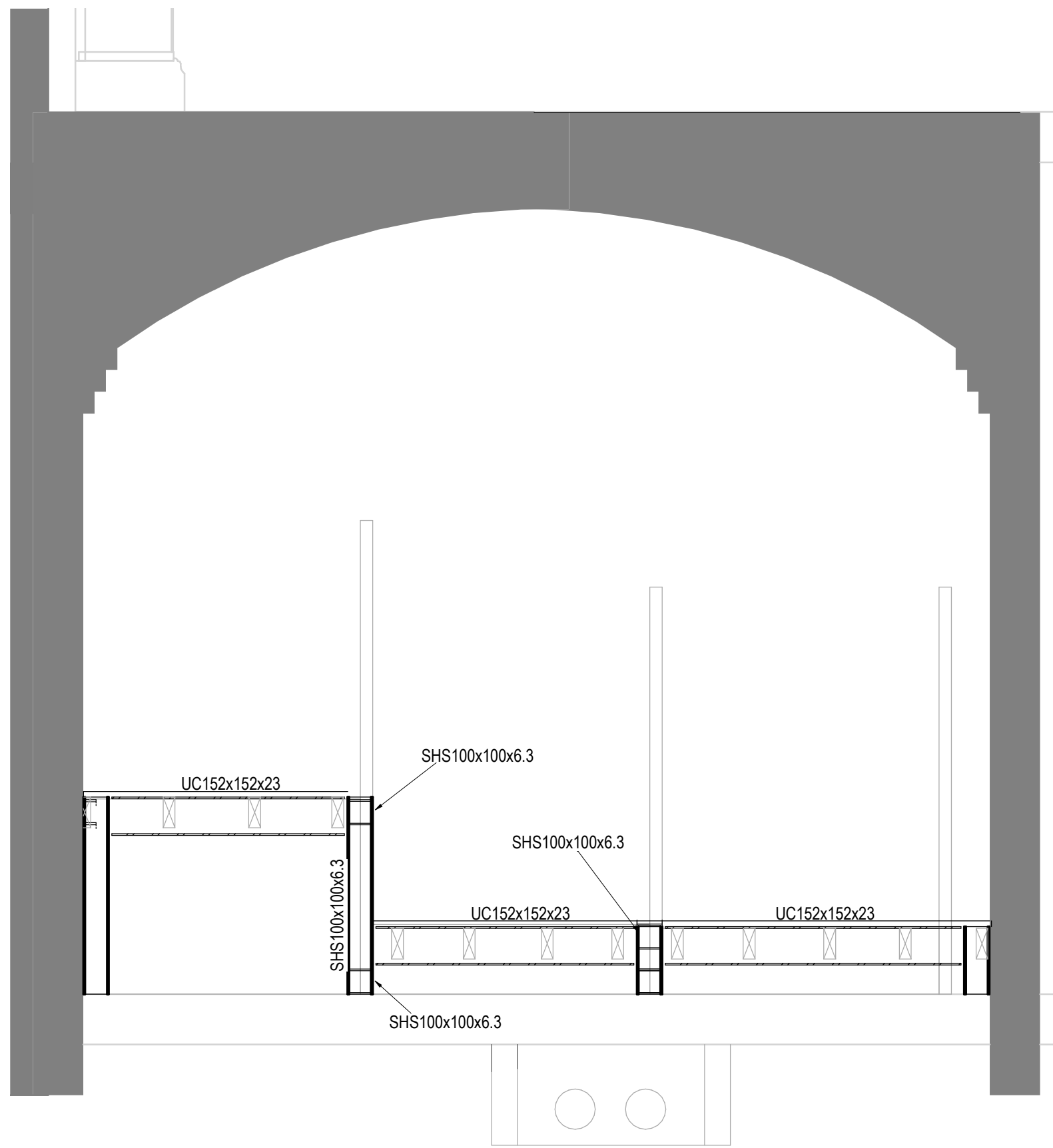
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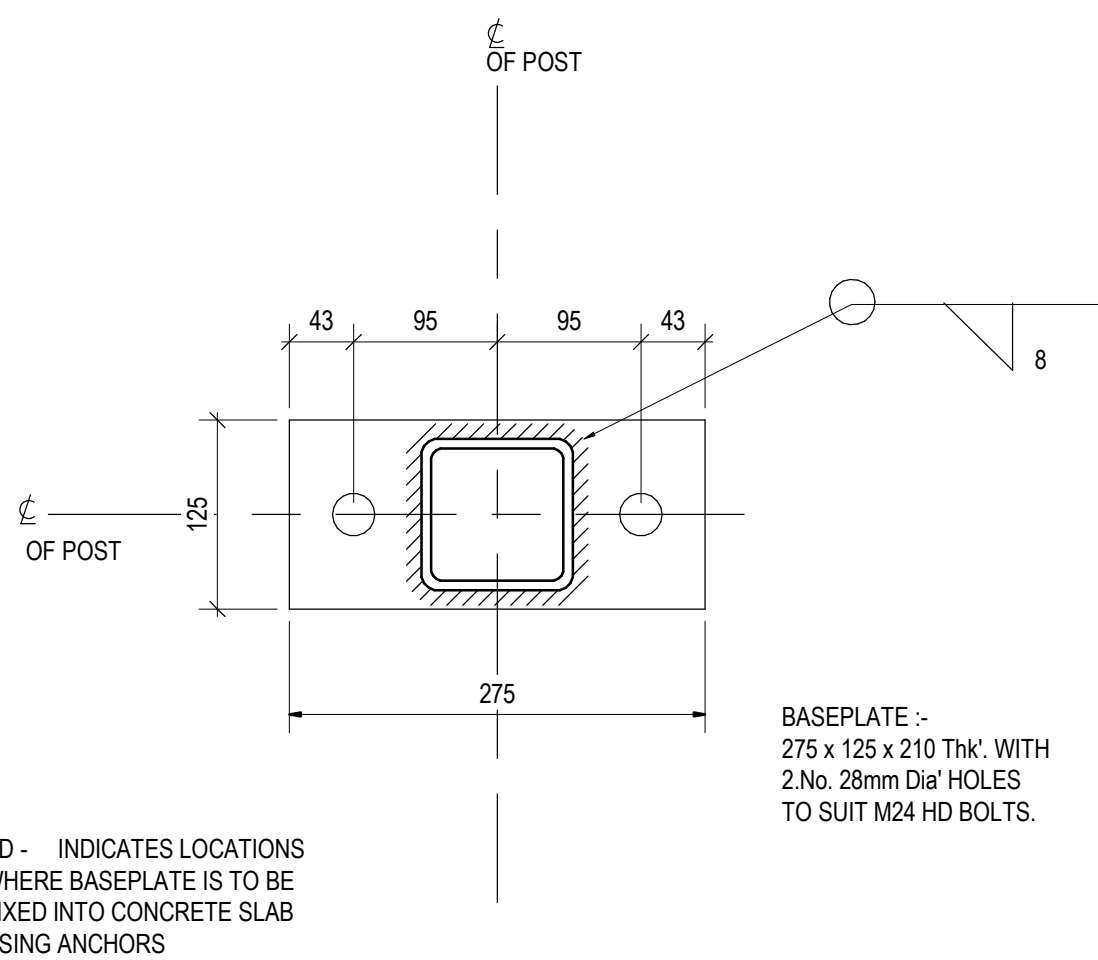
BASEMENT ACCESS RAMP STEELWORK PLAN
(SCALE 1:20)



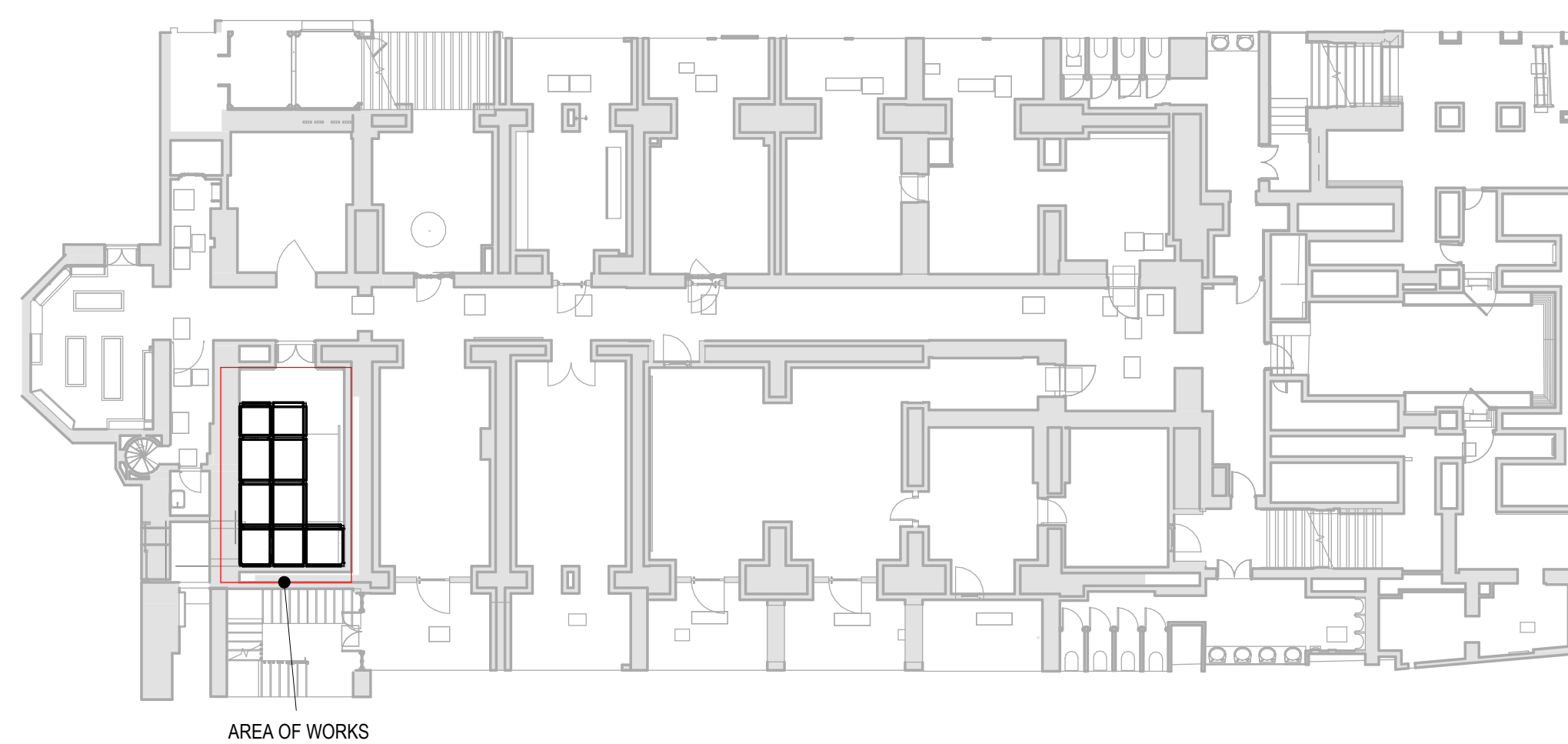
SECTION THROUGH SERVICE TRENCH
(SCALE 1:10)



SECTION 1-1
(SCALE 1:20)



SHS BASEPLATE DETAIL
(SCALE 1:5)



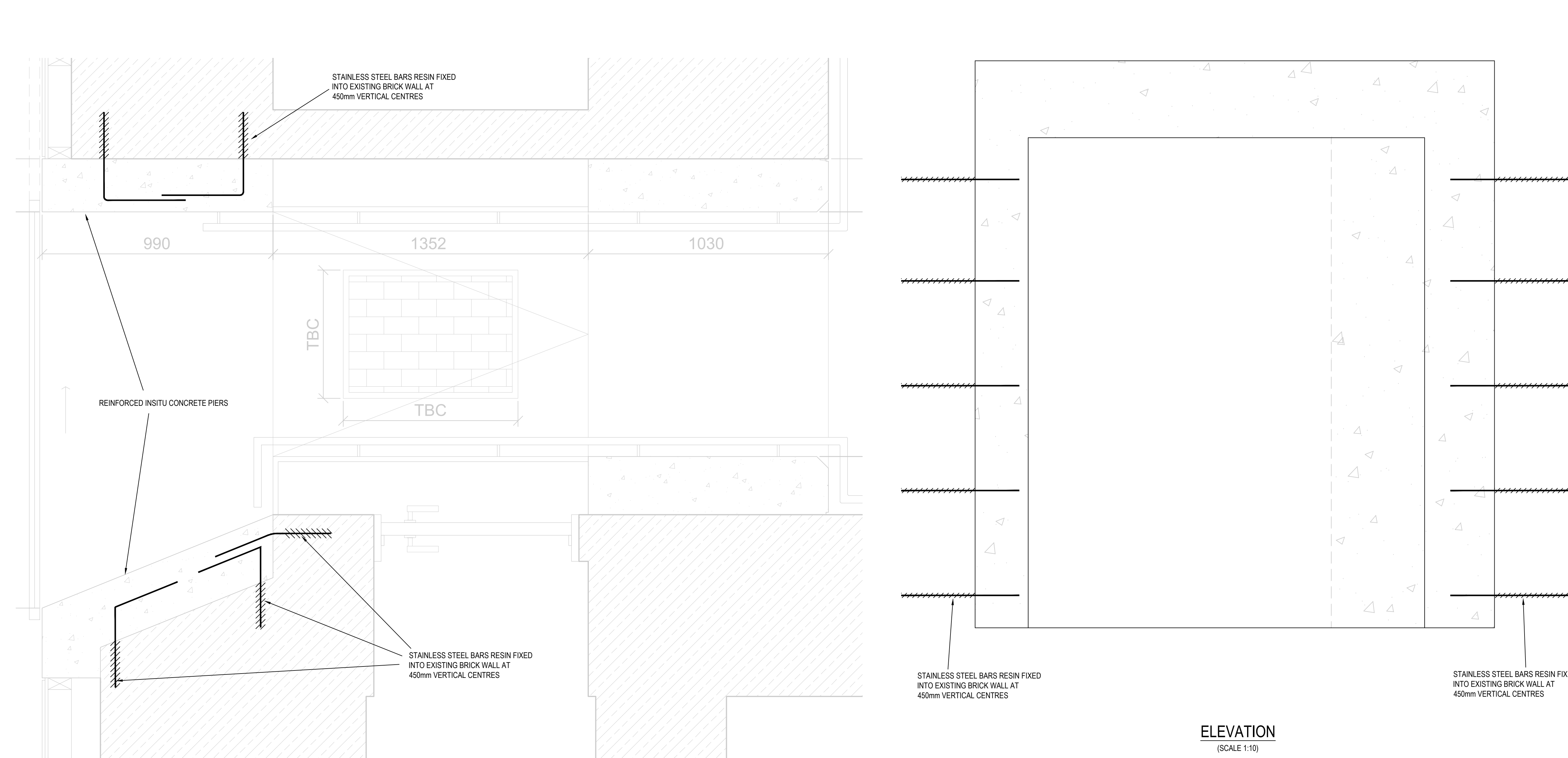
AREA PLAN
(SCALE 1:200)

GENERAL NOTES

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- NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS ALLOWED WITHOUT PRIOR PERMISSION IN WRITING.
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- THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH & SAFETY PLAN.
- STEELWORK FABRICATOR MUST TAKE ACCURATE SITE DIMENSIONS, CHECKING VERTICAL ALIGNMENT, PLUMB AND ALL LEVELS OF THE EXISTING STRUCTURE PRIOR TO ANY FABRICATION. ANY DISCREPANCY BROUGHT TO THE ENGINEERS ATTENTION.
- ALL CONNECTIONS (UNLESS DETAILED) ARE TO BE DESIGNED BY STEELWORK CONTRACTOR TO B.S. EN 1993 EUROCODE 3. CONNECTIONS TO BE DESIGNED FOR A MINIMUM SHEAR LOAD OF 100kN AND 75kN AXIAL U.N.O. THESE FORCES SHOULD BE CONSIDERED CO-EXISTENT WITH ANY MOMENTS INDICATED.
- STEELWORK TO BE GRADE S355 UNLESS NOTED OTHERWISE. G10130A, & 135A.
- MINIMUM BOLTED CONNECTION: 2No. M20 BOLTS GRADE 8.8 UNLESS NOTED OTHERWISE. G10132A.
- ALL WELDING IS TO BE IN ACCORDANCE WITH SPECIFICATIONS G10255, 270, 271A & 280A. MINIMUM SIZE OF FILLET WELD TO BE 6mm CONTINUOUS UNLESS NOTED OTHERWISE.
- BRACING MEMBER CONNECTIONS TO HAVE 2No. M20 BOLTS GRADE 8.8 UNLESS NOTE OTHERWISE. G1018507.
- PAINING
- STEELWORK TO BE PAINTED IN ACCORDANCE WITH THE SPECIFICATION AS FOLLOWS, UNLESS NOTED OTHERWISE.
INTERNAL STEELWORK IN HEATED ACCESSIBLE AREAS. SEMI DECORATIVE. C1 ENVIRONMENT. G10 WM 6403
INTERNAL STEELWORK IN HEATED ACCESSIBLE AREAS. DECORATIVE. C1 ENVIRONMENT. G10 WM 6406
REFER TO ARCHITECTS DETAILS FOR LOCATIONS REQUIRING DECORATIVE FINISH.
- FOR FIRE PROTECTION DETAILS TO STEELWORK REFER TO ARCHITECTS DETAILS AND SPECIFICATION.
- STEELWORK NOTED AS CONCRETE CASED IS TO BE LEFT UNPAINTED. CONCRETE CASING TO BE 50mm MINIMUM WITH DAB WRAPPING FABRIC.
- VB - DENOTES VERTICAL BRACING.

PRELIMINARY DRAWING

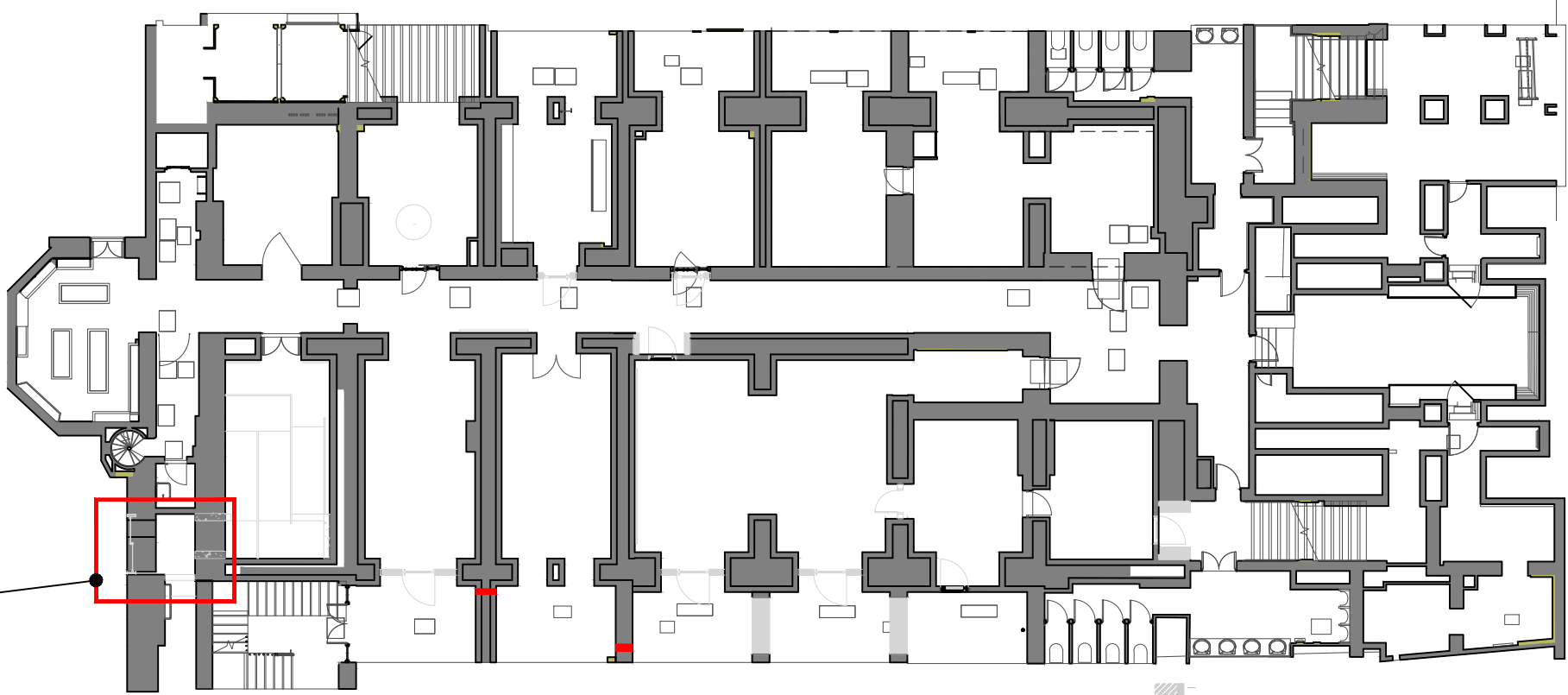
P01	PRELIMINARY ISSUE	JUN '23	OC	AJWL
Rev	Amendment	Date	By	Chkd
Project				
JOHN RYLANDS LIBRARY THE NEXT CHAPTER				
Client				
THE UNIVERSITY OF MANCHESTER				
Title				
BASEMENT ACCESS RAMP STEELWORK DETAILS				
WML Job No.	Drawn	Checked	Date	Scale
10696	OC	AJWL	JUN '23	As indicated @ A0
WML CONSULTING Civil, Structural & Geotechnical Engineers				
No. 3 Oak Green Earl Road Stanley Green Business Park Cheshire SK6 6QL Tel: 0161 482 6900 Fax: 0161 486 9210 email: info@wmiconsulting.com www.wmiconsulting.com				
Drawing No.	Originator	Functional Breakdown	Special Breakdown	Form Breakdown
JRL	-	WML - ZZ - 01B - D	-	S - 3112
P01				Rev



PLAN
(SCALE 1:10)

ELEVATION
(SCALE 1:10)

SECTION
(SCALE 1:10)



AREA PLAN
(SCALE N.T.S.)

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RESIDUAL RISK REGISTER -

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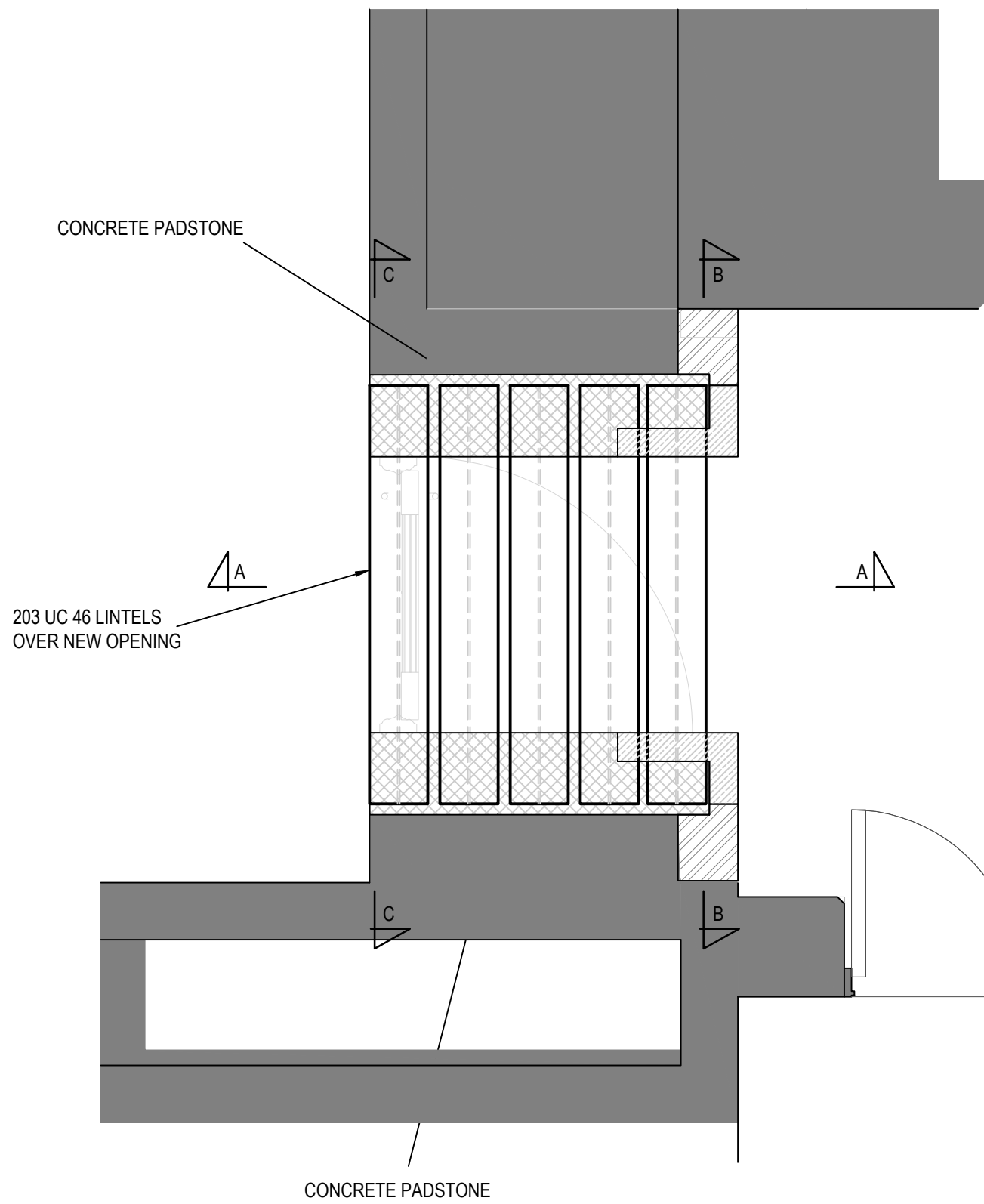
IMPOSED LOAD CAPACITIES OF FLOORS TO SUPPORT EQUIPMENT IS UNKNOWN AND WILL REQUIRE CONSIDERATION WITH THE CONTRACTOR TO ENSURE THAT LARGE POINT LOADS ARE ADEQUATELY DISTRIBUTED

DRAWINGS TO BE READ IN CONJUNCTION WITH WML REPORT 10696-WML-ZZ-XX-RP-S-1003

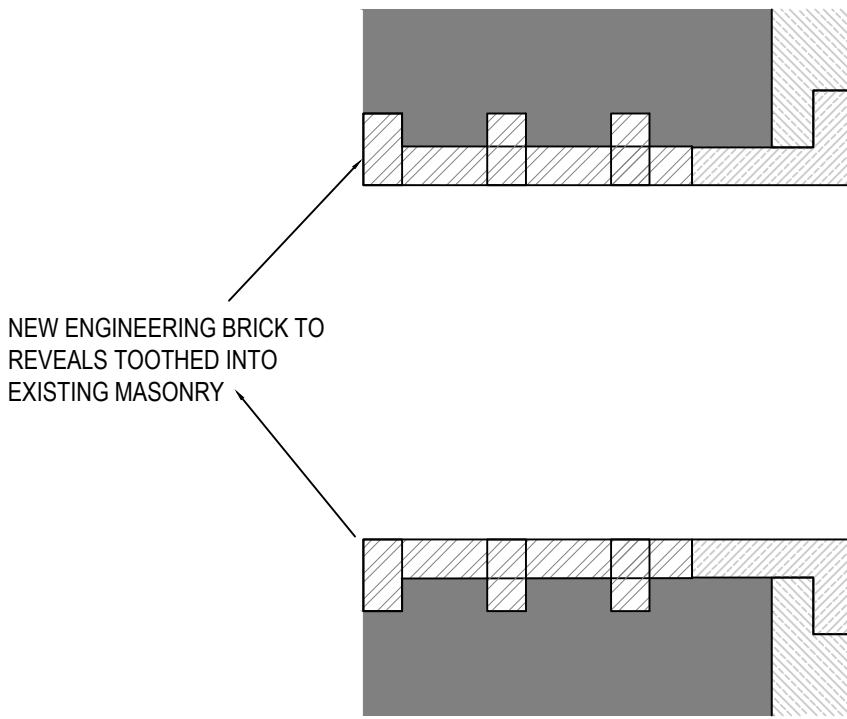
REFER TO STRUCTURAL CONDITION SURVEY MARK UP FOR LOCATIONS WHERE REPAIR WORKS ARE RECOMMENDED

PRELIMINARY DRAWING

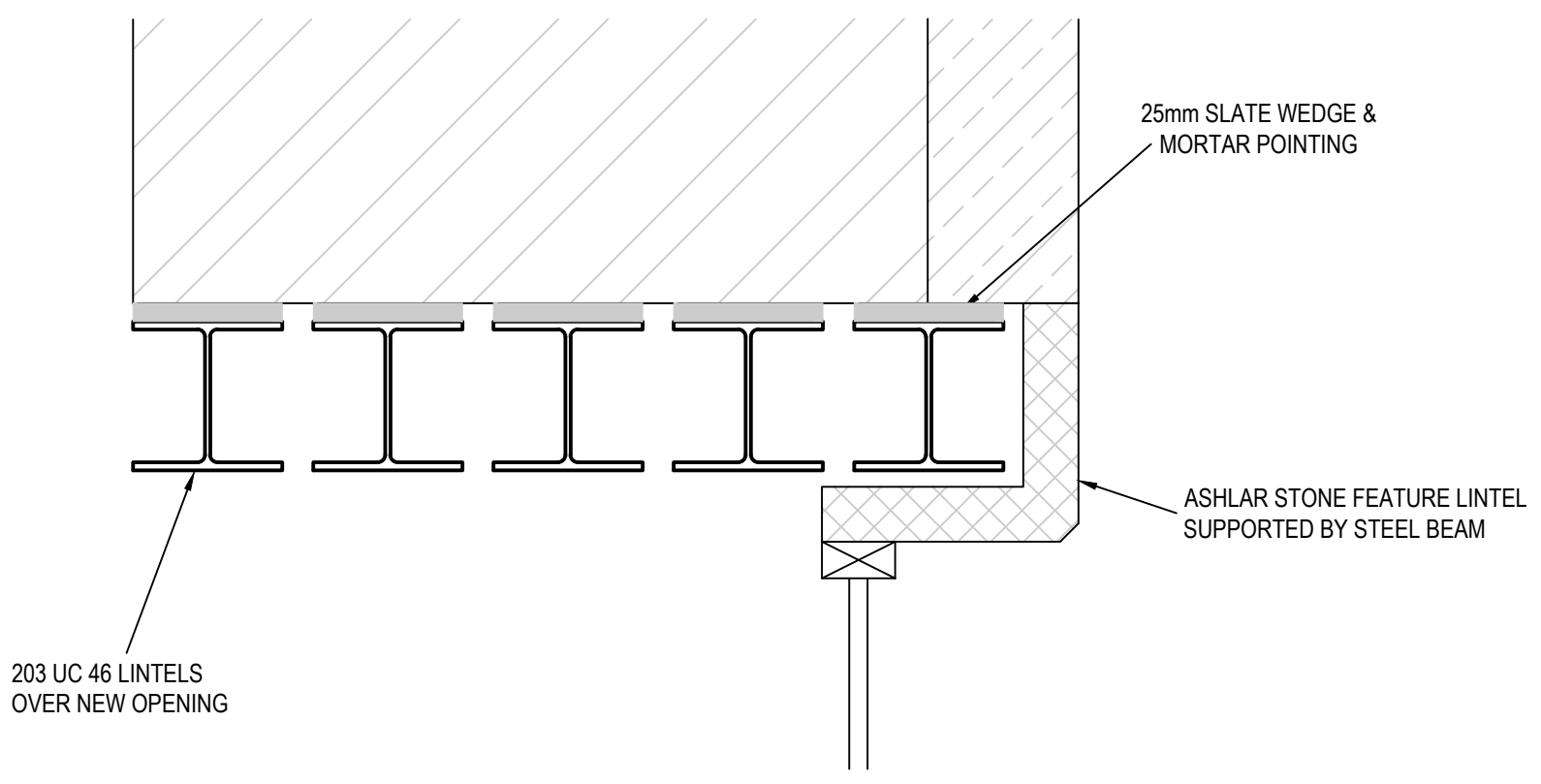
P01	PRELIMINARY ISSUE			JUN '23	OC	AJWL	
Rev.	Amendment			Date	By	Chkd	
Project							
JOHN RYLANDS LIBRARY							
THE NEXT CHAPTER							
Client							
THE UNIVERSITY OF MANCHESTER							
Title							
BASEMENT CORRIDOR ACCESS DETAILS							
ZONE B							
WML Job No.		Drawn	Checked	Date	Scale		
10696		OC	AJWL	APR '23	@A1		
WML CONSULTING				No.8 Oak Green Earl Road Stanley Green Business Park Cheshire Hulme Cheshire SK9 6QL Tel 0161 482 0600 Fax 0161 486 9210 e-mail info@wmlconsulting.com www.wmlconsulting.com			
Civil, Structural & Geotechnical Engineers							
Drawing No.							
Project ID	Originator	Functional Breakdown	Special Breakdown	Form	Discipline	Number	Rev
JRL	- WML	- ZZ	- 01B	- D	- S	- 3115	P01



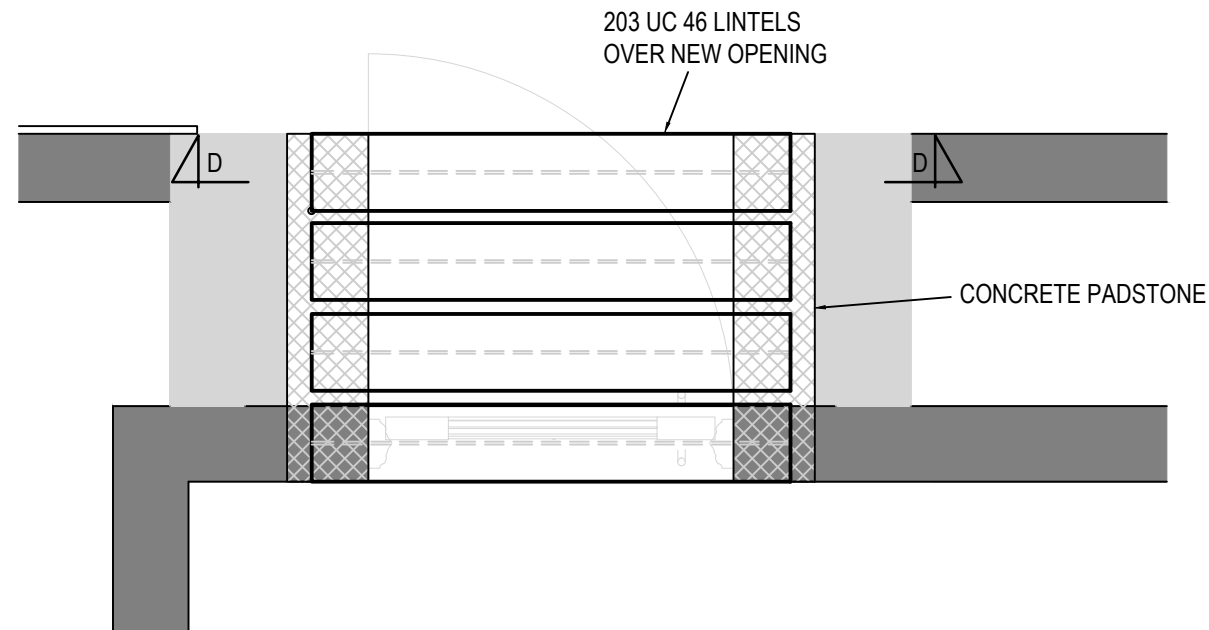
PLAN ON LINTELS
DOOR 1
(SCALE 1:20)



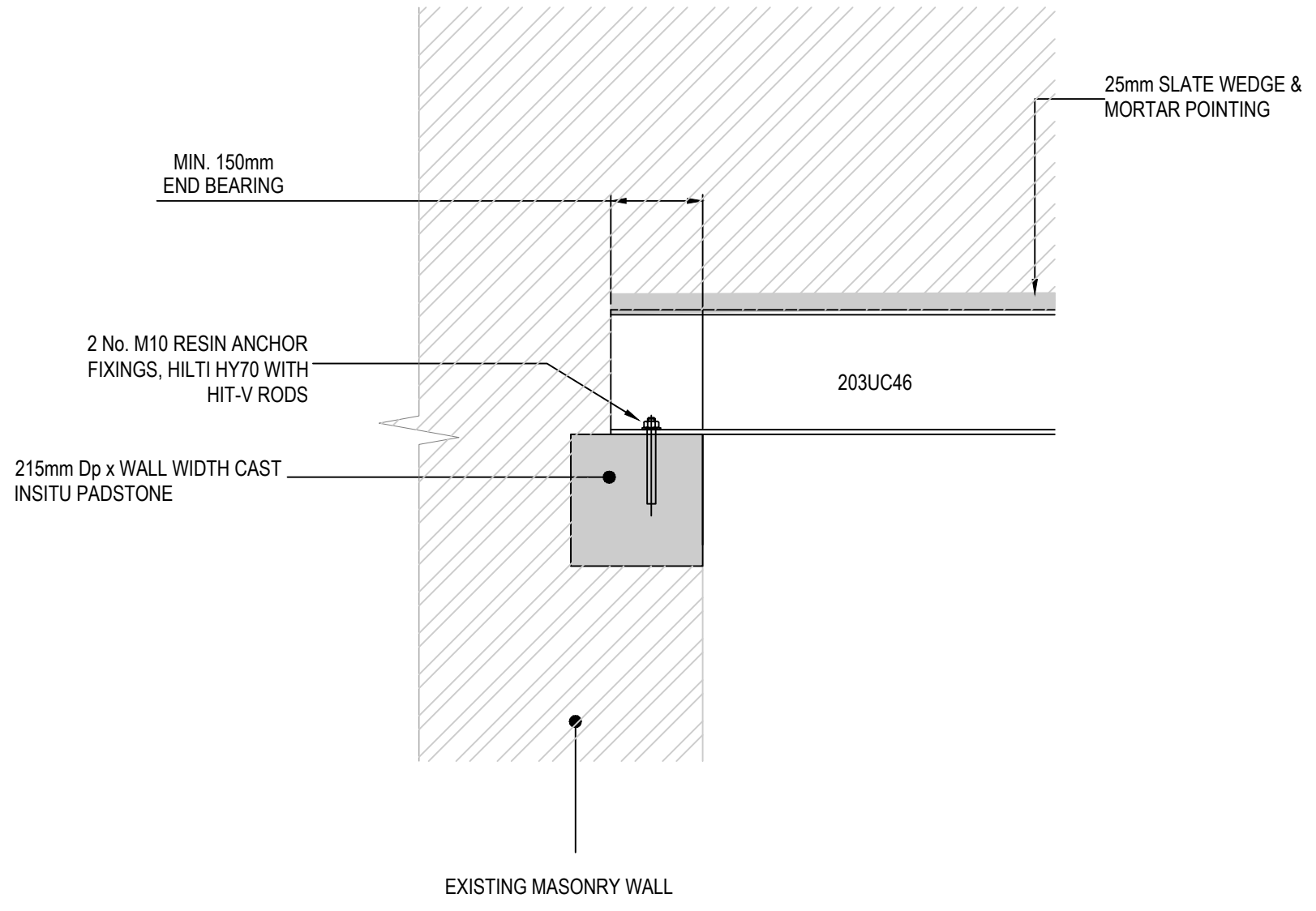
MID-LEVEL PLAN
DOOR 1
(SCALE 1:20)



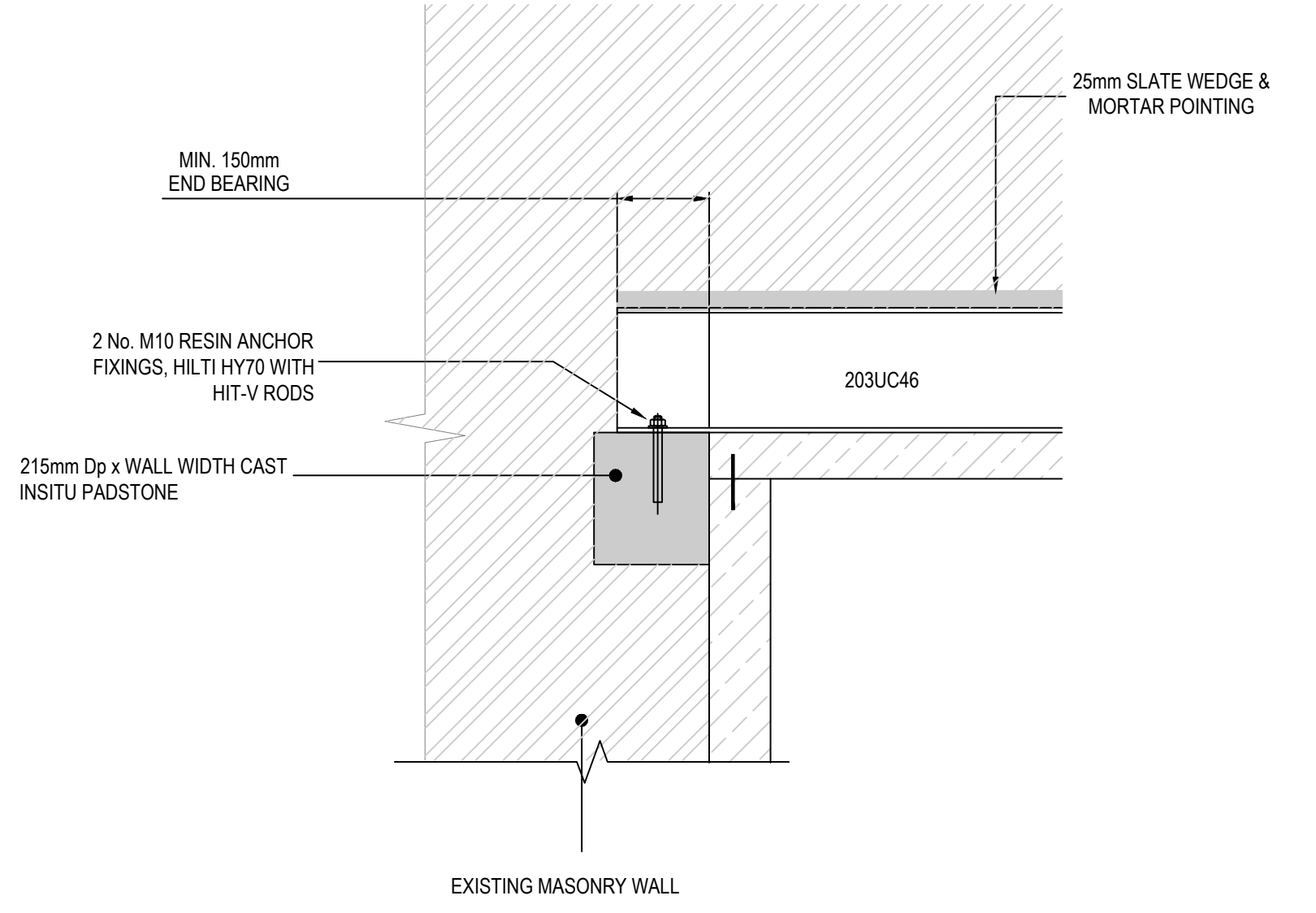
SECTION A-A
(SCALE 1:10)



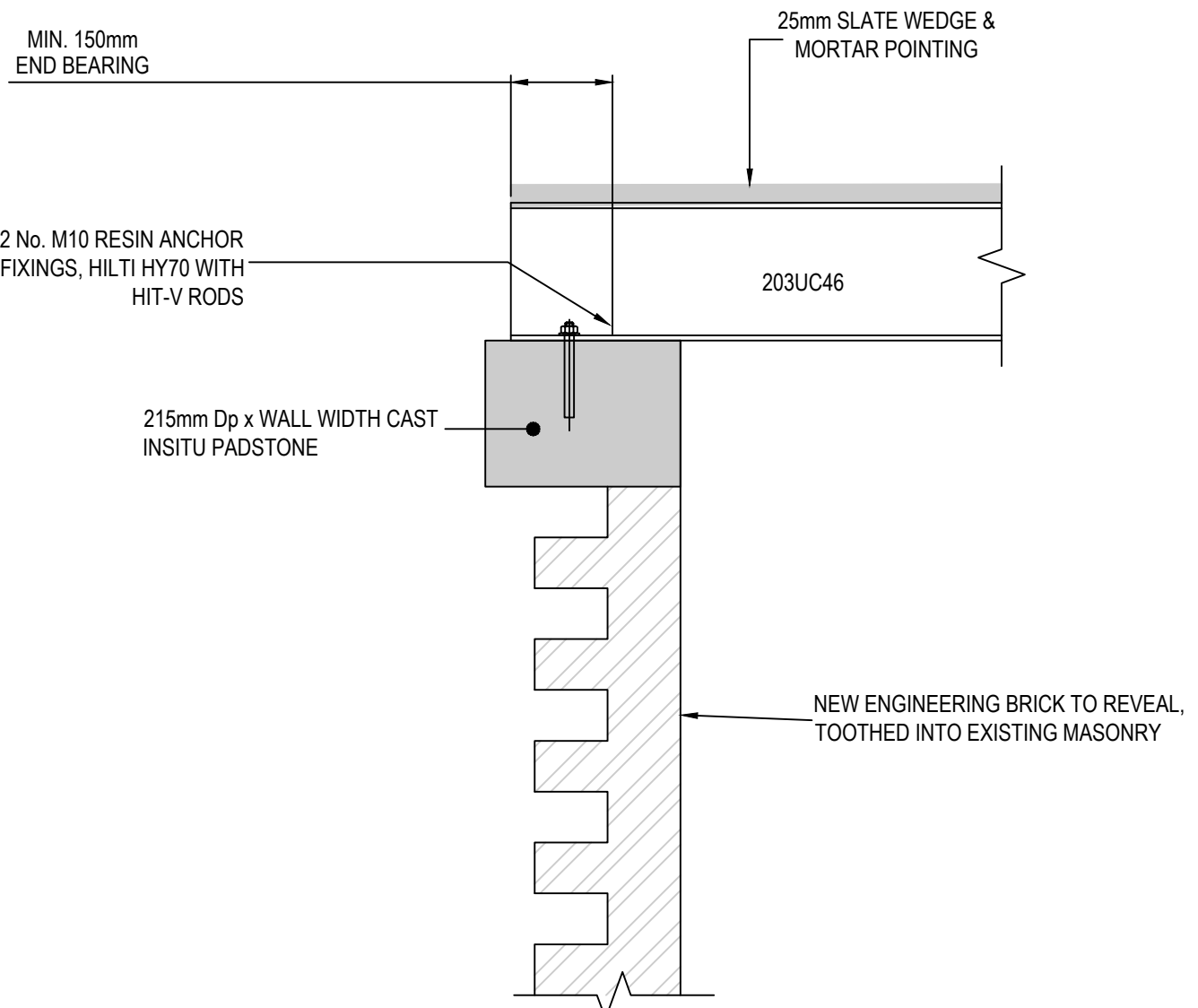
PLAN ON LINTELS
DOOR 2
(SCALE 1:20)



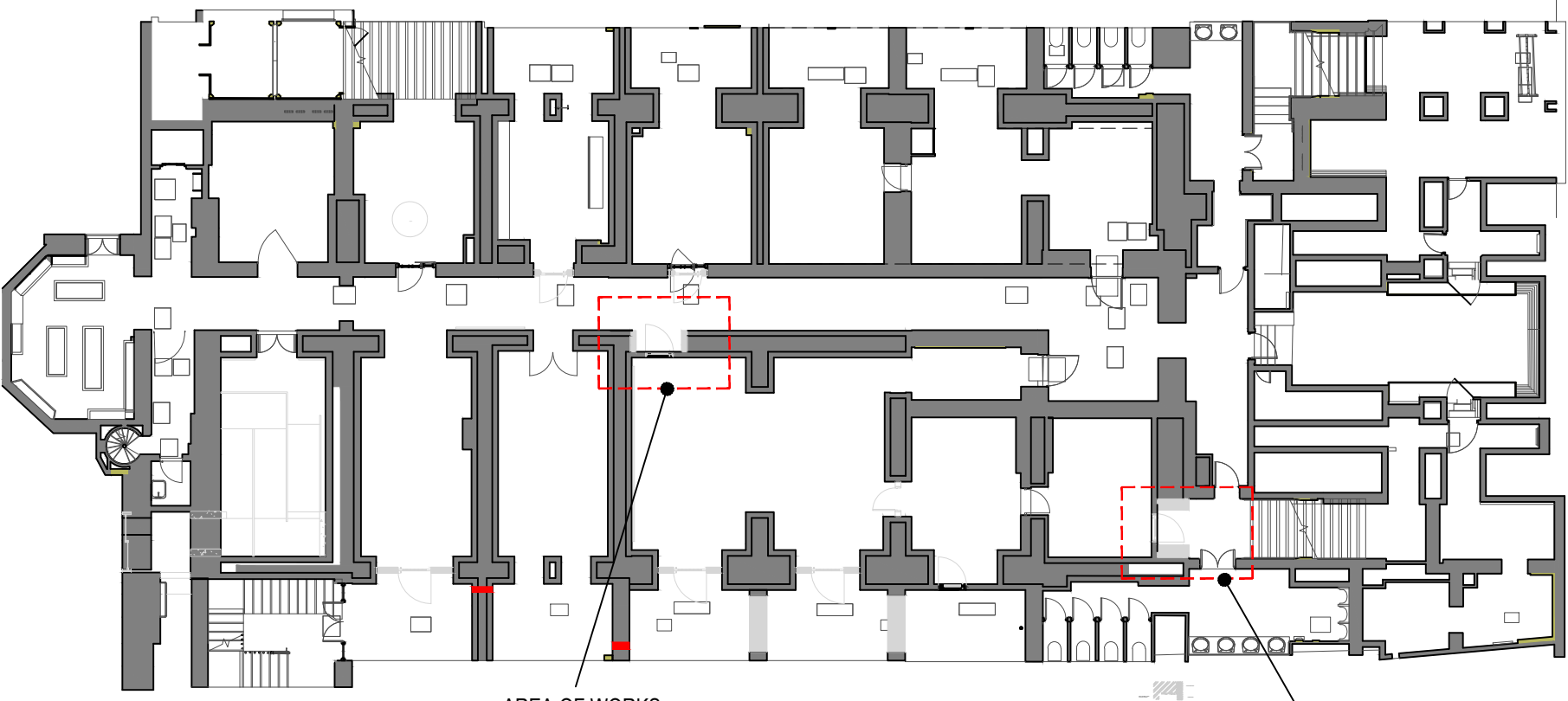
SECTION D-D
(SCALE 1:10)



SECTION B-B
(SCALE 1:10)



SECTION C-C
(SCALE 1:10)



AREA PLAN
(SCALE N.T.S.)

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DRAWINGS TO BE READ IN CONJUNCTION WITH WML REPORT
10696-WML-ZZ-XX-RP-S-1003

REFER TO STRUCTURAL CONDITION SURVEY MARK UP FOR LOCATIONS WHERE REPAIR WORKS ARE RECOMMENDED

PRELIMINARY DRAWING

P03	PLAN ON DOOR 1 UPDATED, MID LEVEL PLAN ADDED, PLAN ON DOOR 2 SECTIONS A, B, C & D ADDED.	JUN '23	OC	AJWL
P02	DRAWING SHEET 'FORM' REFERENCE UPDATED	APR '23	OC	AJWL
P01	PRELIMINARY ISSUE	APR '23	OC	AJWL

Rev.	Amendment	Date	By	Chkd
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Project
**JOHN RYLANDS LIBRARY
THE NEXT CHAPTER**

Client
THE UNIVERSITY OF MANCHESTER

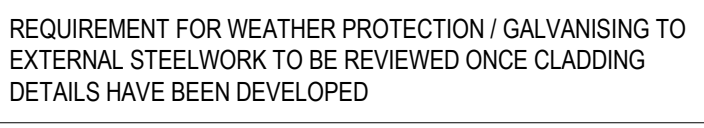
Title
**BASEMENT FIRE ESCAPE DETAILS
ZONE B**

WML Job No. 10696	Drawn OC	Checked AJWL	Date APR 23	Scale @A1
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WML CONSULTING
Civil, Structural & Geotechnical Engineers

No.8 Oak Green
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Cheshire SK9 6QL
Tel 0161 482 0600
Fax 0161 486 9210
e-mail info@wmlconsulting.com
www.wmlconsulting.com

Drawing No.									
Project ID	Originator	Functional Breakdown	Special Breakdown	Form	Discipline	Number	Rev		
JRL	- WML	- ZZ	- 01B	- D	- S	- 3120	P03		



NOTE:
REQUIREMENT FOR PRIMARY AND
SECONDARY SUPPORT TO THE EXTERNAL
CLADDING PANEL IS TO BE CONFIRMED
AFTER CONSULTATION WITH SPECIALIST

PAINTING

- | | | |
|-----|--|--------------|
| 12. | STEELWORK TO BE PAINTED IN ACCORDANCE WITH THE SPECIFICATION AS FOLLOWS, UNLESS NOTED OTHERWISE. | |
| | STEELWORK IN CAVITIES | G10 WM 660/3 |
| | EXTERNAL STEELWORK (FUNCTIONAL) | G10 WM 610/1 |
| | REFER TO ARCHITECTS DETAILS FOR LOCATIONS REQUIRING DECORATIVE FINISH. | |
| 13. | FOR FIRE PROTECTION DETAILS TO STEELWORK REFER TO ARCHITECT'S DETAILS AND SPECIFICATION. | |
| 14. | VB - DENOTES VERTICAL BRACING. | |
| 15. | CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE PRIOR TO COMMENCING FABRICATION DRGS. | |

FORCE NOTATION:-

100kN	-	SHEAR FORCE
25kNm	-	MOMENT
<15kN>	-	AXIAL (TO BE TAKEN + OR -)

ALL LOADS ARE FACTORED IN ACCORDANCE WITH THE EURO

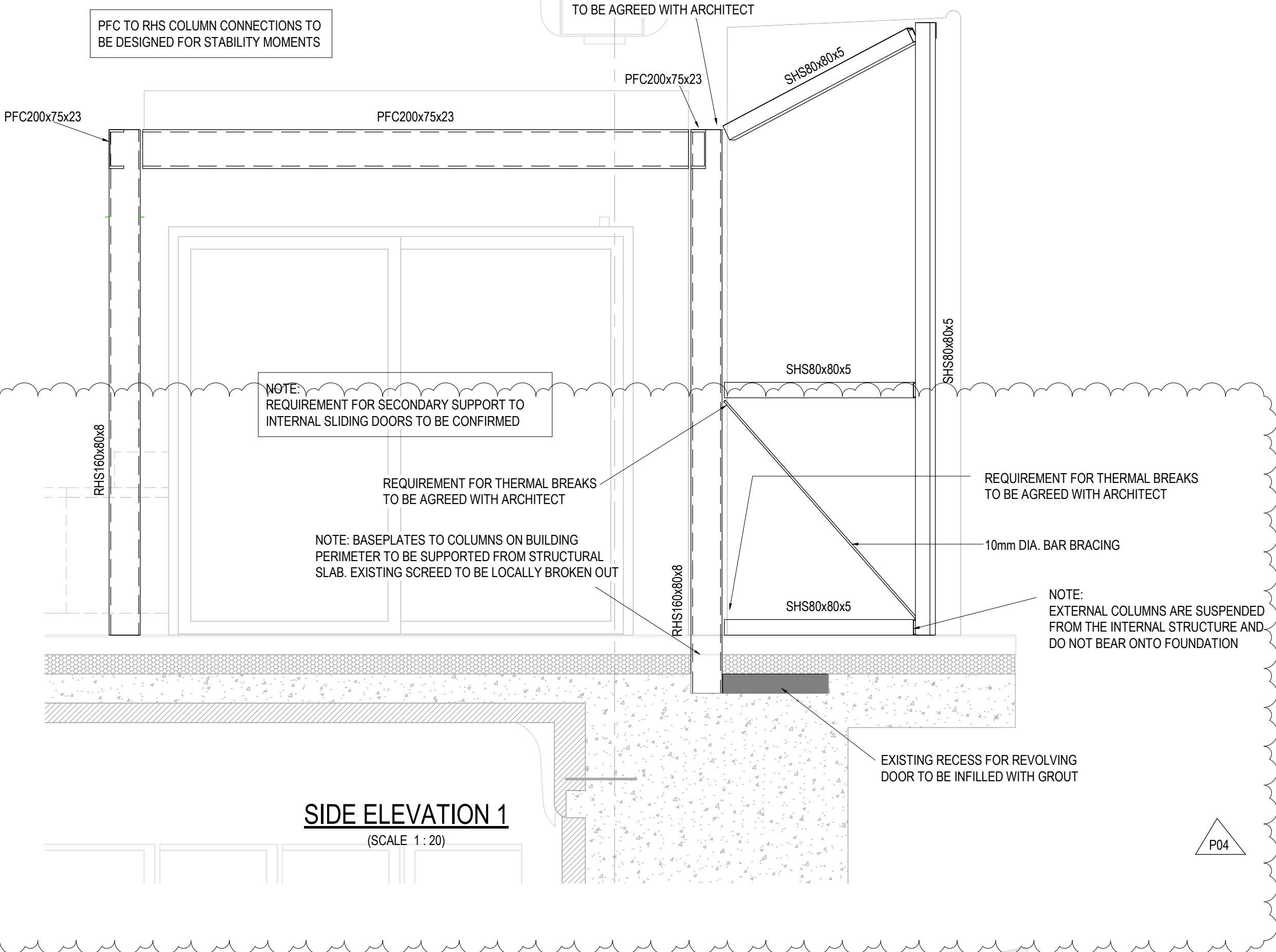
COM NOT

16. ALL STEEL ROOF RAFTERS ARE TO RECEIVE PRE-DRILLED HOLES TO THE BOTTOM FLANGE TO RECEIVE FIXINGS TO ALLOW THE INSTALLATION OF SAFETY NETTING.
17. DETAILED CONNECTIONS ARE TO BE FABRICATED STRICTLY IN ACCORDANCE WITH THE DRAWING NO DEVIATION WILL BE ACCEPTED WITHOUT PRIOR APPROVAL.
18. CONTRACTOR DESIGNED VERTICAL AND HORIZONTAL BRACING TO BE PROVIDED, AS REQUIRED, IN THE TEMPORARY CONDITION, TO MAINTAIN STABILITY DURING CONSTRUCTION OF STEEL FRAME, COMPOSITE FLOOR DECKS AND PERMETE CAVITY WALLS. CONTRACTOR TO PROVIDE METHOD STATEMENT FOR ENGINEER APPROVAL PRIOR TO COMMENCEMENT OF THESE WORKS ON SITE.
19. FOR SETTING OUT OF INTERNAL WALLS, PARTITIONS, DOOR OPENINGS, DISCARPACES, DUCT OPENINGS, LIFT, EXTERNAL WALLS, WINDOWS ETC. AND DETAILS OF GLAZING, GUTTERS DOWN PIPES ETC., REFER TO ARCHITECTS DETAILS.

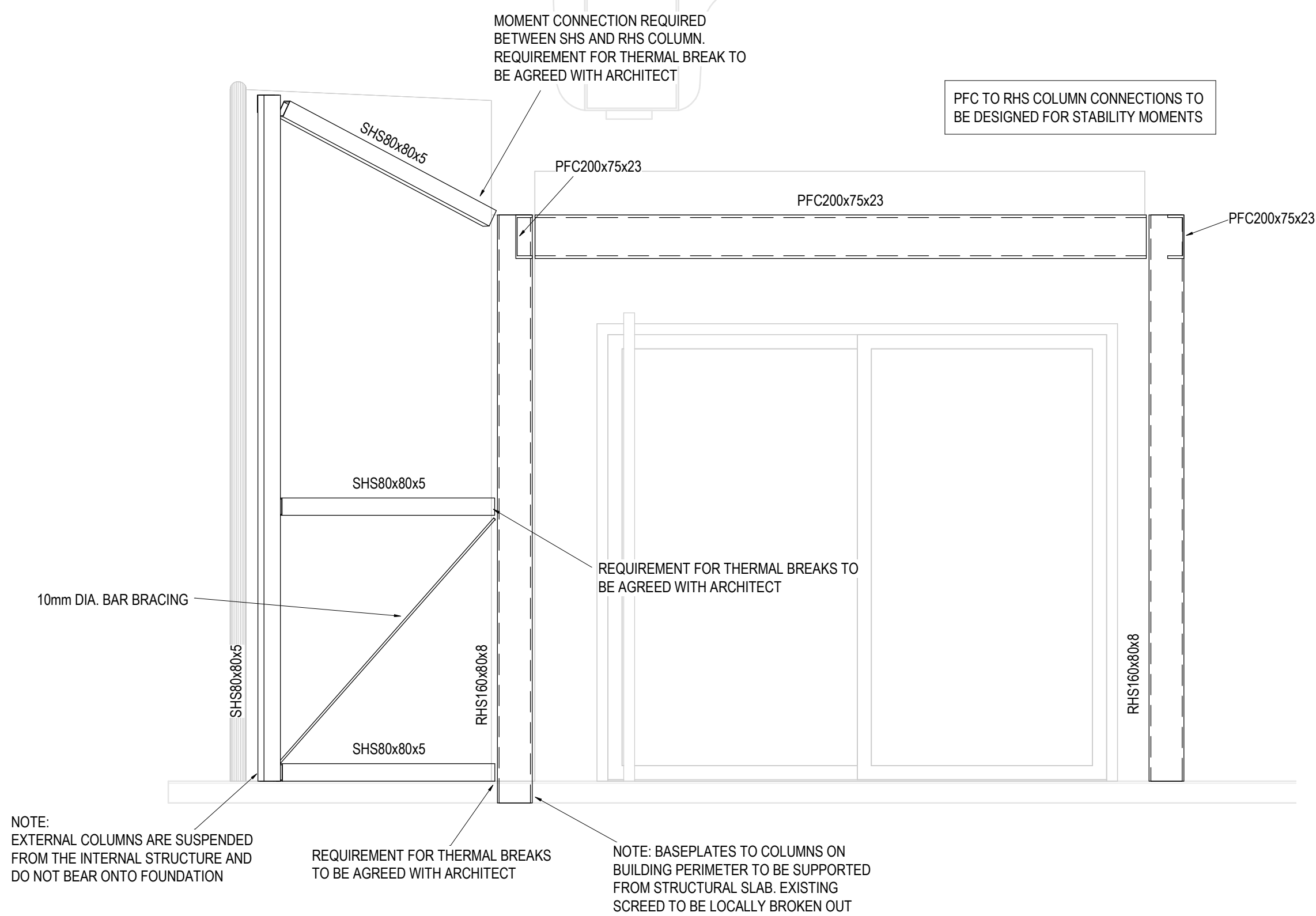
GENERAL NOTES

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4. THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STATE HEALTH & SAFETY PLAN.
5. THE STEELWORK FABRICATOR MUST TAKE ACCOUNT SITE DEMANDS, CHECKING VERTICAL ALIGNMENT, PLUMBE AND ALL ASPECTS OF THE EXISTING STRUCTURE PRIOR TO ANY FABRICATION. ANY DISCREPANCY BROUGHT TO THE ENGINEERS ATTENTION.
6. THE STEELWORK FABRICATOR WILL RECEIVE CONSTRUCTION INFORMATION IN TWO STAGES:-
STAGE 1
APPROX. 85% COMPLETE AND WILL COMPRISE OF THE MAIN STRUCTURE IN FRAME ELEMENTS.
STAGE 2
REMAINING INFORMATION INCLUDING THE SECONDARY STRUCTURE.
GLAZING/CLOUDBAND SUPPORTS ETC. THE CONTRACTOR SHALL TAKE ACCOUNT OF THIS PHASED RELEASE OF INFORMATION IN HIS PRICING AND PROGRAMME.
7. **STEELWORK CONNECTIONS**
ALL CONNECTIONS (UNLESS DETAILLED) ARE TO BE DESIGNED BY THE STEELWORK CONTRACTOR TO B.S. EN 1993 EUROCODE 3 CONNECTIONS TO BE DESIGNED FOR A MINIMUM SHEAR LOAD OF 100KN AND 75KN AXIAL, U.N.O. THESE FORCES SHALL BE CONSIDERED CO-EXISTENT WITH ANY MOMENTS INDICATED, WHERE CONNECTIONS ARE DETAILLED THESE ARE TO BE FABRICATED STRICTLY IN ACCORDANCE WITH THE DRAWING. NO VARIATION WILL BE ACCEPTED WITHOUT PRIOR APPROVAL.
8. STEELWORK TO BE GRADE S355 UNLESS NOTED OTHERWISE 1013/30A, & 135A.
9. MINIMUM BOLT CONNECTION 2x6. M20 BOLTS GRADE 8.8 UNLESS NOTED OTHERWISE. M1013/2A.
10. ALL WELDING IS TO BE IN ACCORDANCE WITH SPECIFICATIONS 010/255, 270, 271a AND 290/4. MINIMUM SIZE OF WELD TO BE HELD TO BE 25mm CONTINUOUS UNLESS NOTED OTHERWISE.
11. BRACING MEMBER CONNECTIONS TO HAVE 2x6 M20 BOLTS GRADE 8.8 UNLESS NOTE OTHERWISE. M1018/57.

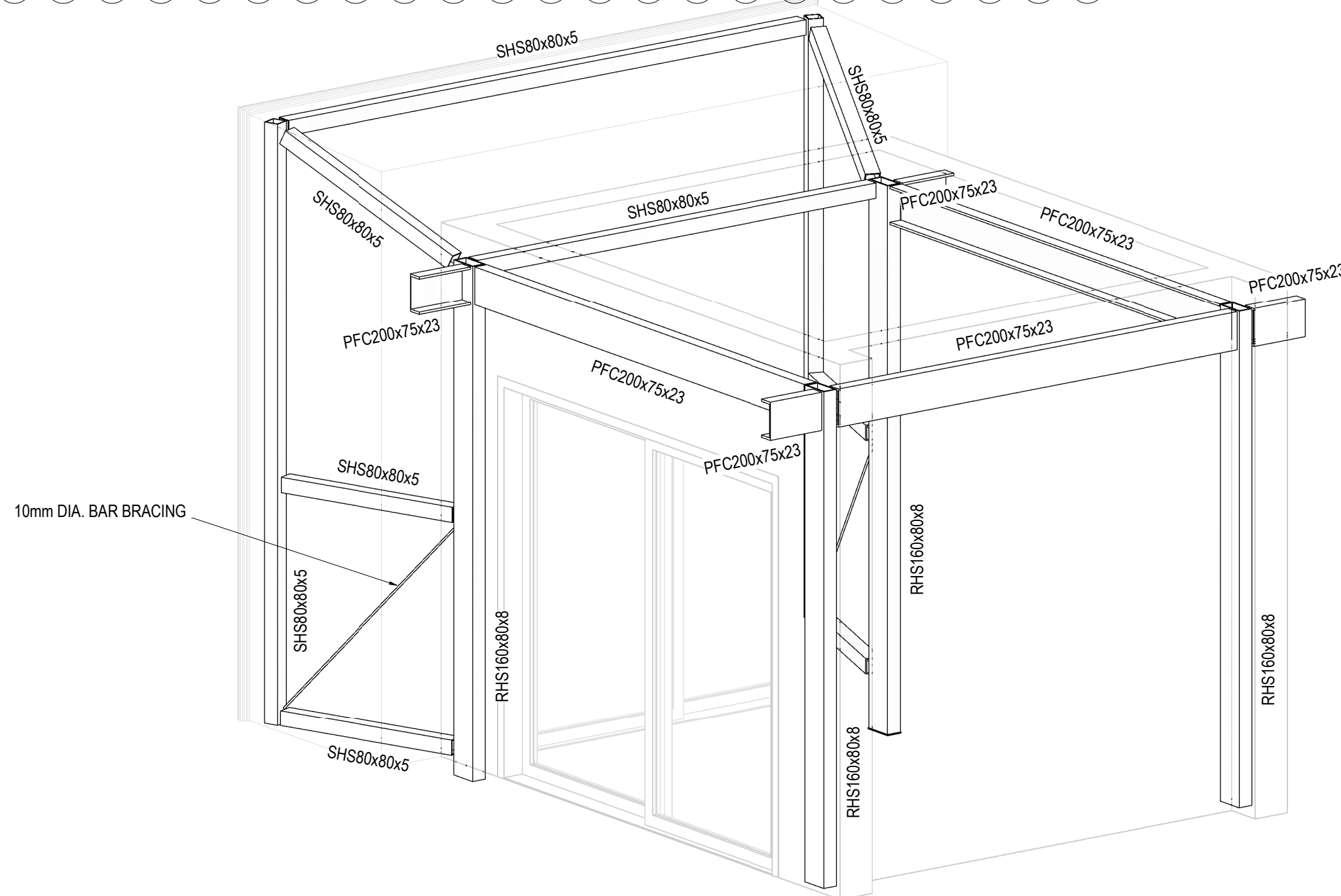
NOTE:
REQUIREMENT FOR PRIMARY AND SECONDARY
SUPPORT TO THE EXTERNAL CLADDING PANEL IS TO BE
CONFIRMED AFTER CONSULTATION WITH SPECIALIST



SIDE ELEVATION 1

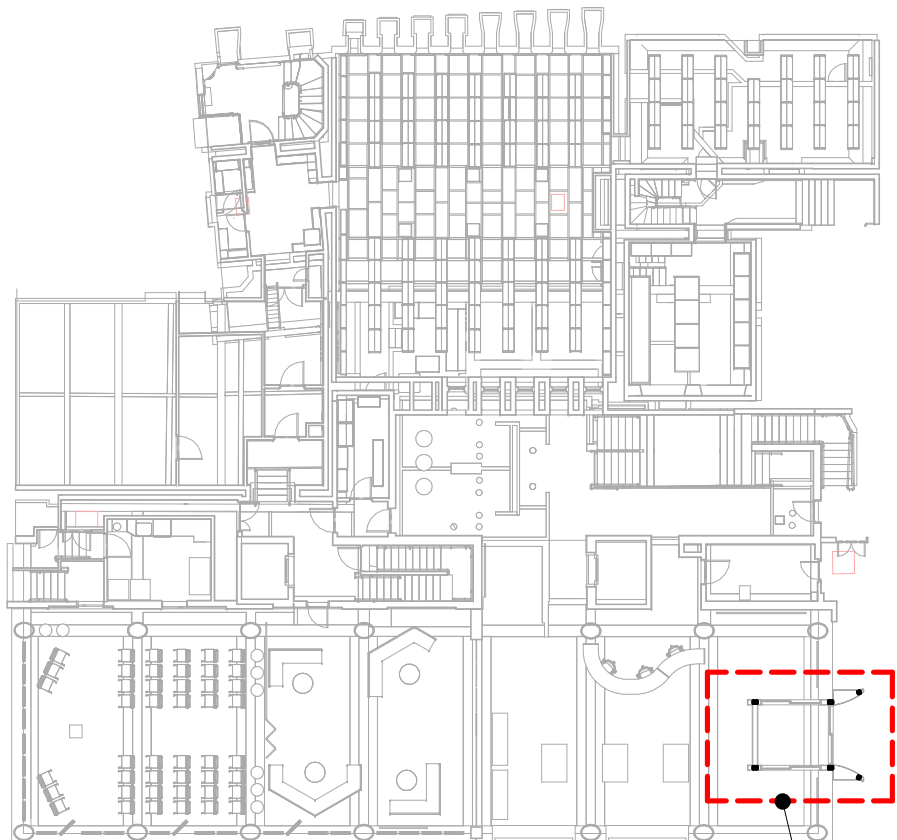


SIDE ELEVATION 2
(SCALE 1 : 20)



FRONT 3D VIEW

REAR 3D VIEW



AREA PLAN

PRELIMINARY DRAWING

P04	PRELIMINARY ISSUE	JUN '23	OC	AJWL
P03	200x75 PFC CANTILEVERED STUBS ADDED.	MAY '23	OC	AJWL
P02	DRAWINGS SHEET FORM REFERENCE UPDATED	APR '23	OC	AJWL
P01	PRELIMINARY ISSUE	APR '23	OC	AJWL
Rev	Amendment	Date	By	Chk

Project

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THE NEXT CHAPTER**

Client **THE UNIVERSITY OF MANCHESTER**

Title **MODERN ENTRANCE STEELWORK DETAILS**

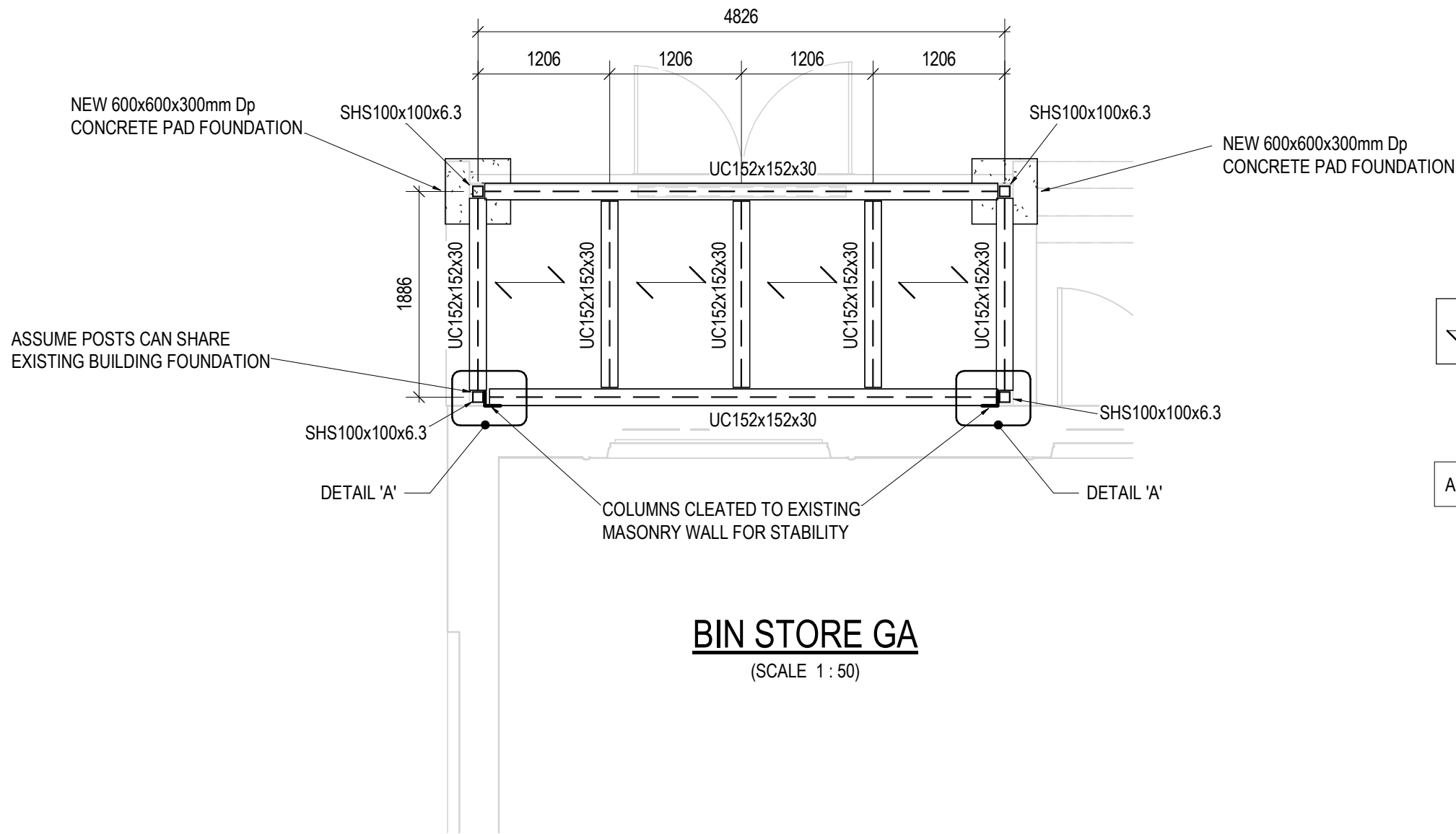
WML Job No. 10696	Drawn OC	Checked AJWL	Date APR '23	Scale 1:20 @ A0
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WML CONSULTING
Civil, Structural & Geotechnical Engineers

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Earl Road
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Drawing No.

Project ID	Originator	Functional Breakdown	Special Breakdown	Form	Discipline	Number	Rev
JRL	- WML	- ZZ	- 10A	D	S	- 0010	P04

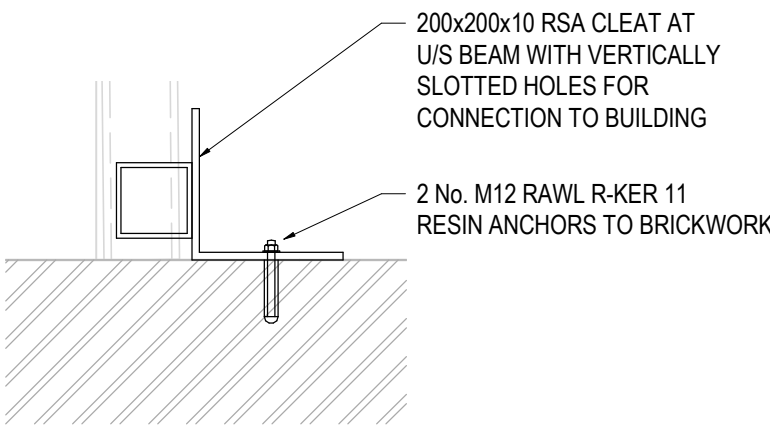


BIN STORE GA
(SCALE 1:50)

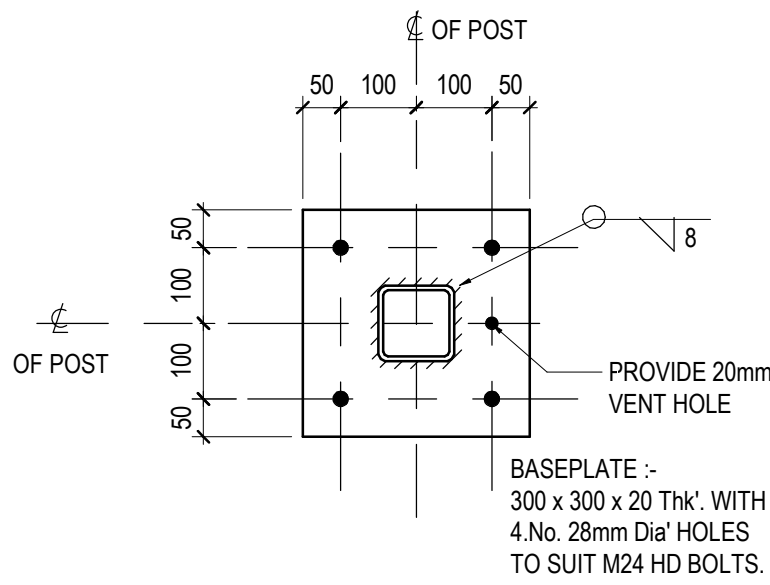
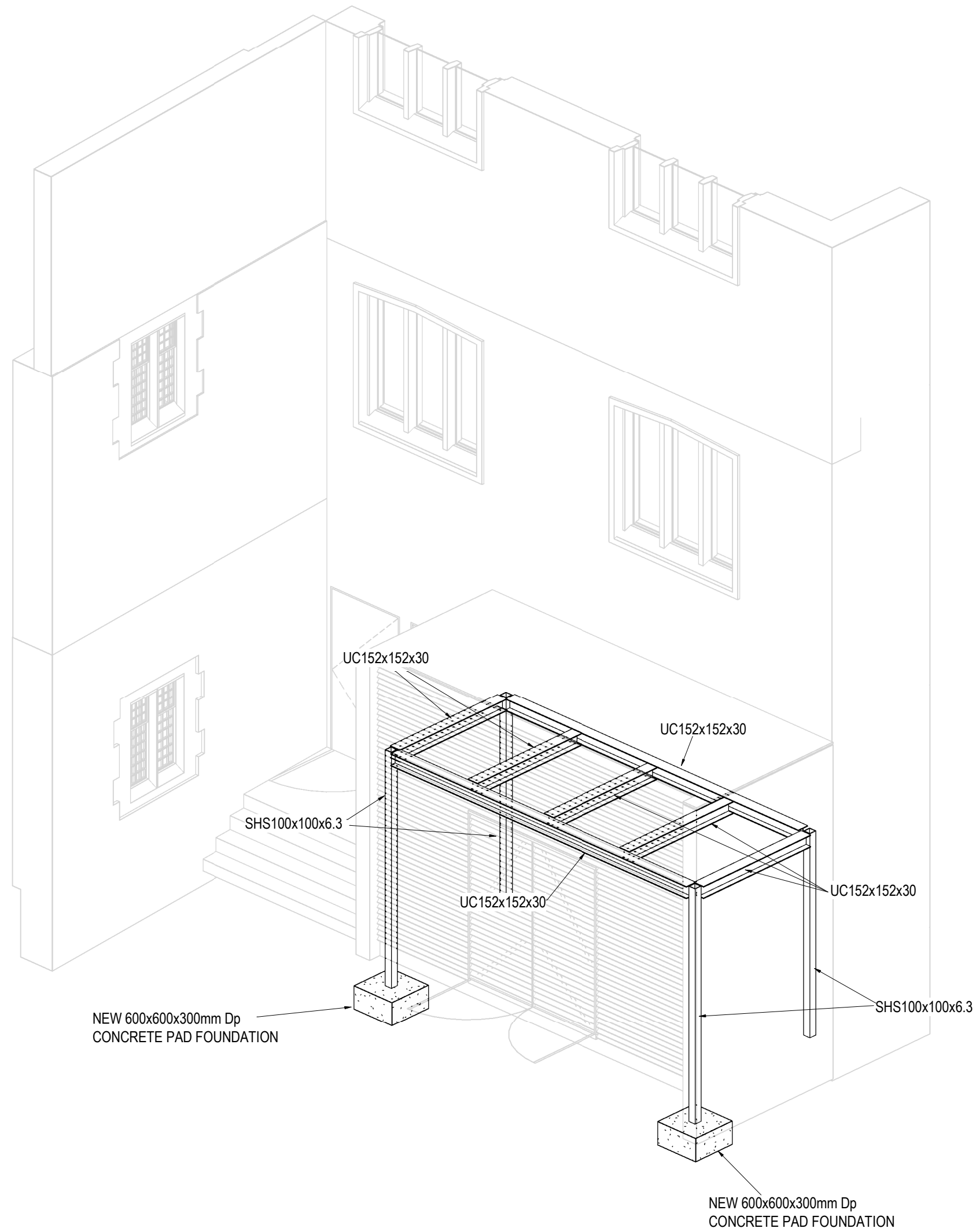
POSITION AND SETTING OUT OF BIN STORE TO BE CONFIRMED

INDICATES SPAN OF OPEN MESH FLOOR

ALL STEELWORK TO BE GALVANISED



DETAIL 'A'
(SCALE 1:10)



TYPICAL SHS BASEPLATE DETAIL
(SCALE 1:10)

CDM NOTE

- ALL STEEL ROOF RAFTERS ARE TO RECEIVE PRE-DRILLED HOLES TO THE BOTTOM FLANGE TO RECEIVE FIXINGS TO ALLOW THE INSTALLATION OF SAFETY NETTING.
- DETAILED CONNECTIONS ARE TO BE FABRICATED STRICTLY IN ACCORDANCE WITH THE DRAWING NO DEVIATION WILL BE ACCEPTED WITHOUT PRIOR APPROVAL.
- CONTRACTOR DESIGNED VERTICAL AND HORIZONTAL BRACING TO BE PROVIDED, AS REQUIRED, IN THE TEMPORARY CONDITION, TO MAINTAIN STABILITY DURING CONSTRUCTION OF STEEL FRAME, COMPOSITE FLOOR DECKS AND PERIMETER CAVITY WALLS. CONTRACTOR TO PROVIDE METHOD STATEMENT FOR ENGINEER APPRAISAL PRIOR TO COMMENCEMENT OF THESE WORKS ON SITE.
- FOR SETTING OUT OF INTERNAL WALLS, PARTITIONS, DOOR OPENINGS, STAIRCASES, DUCT OPENINGS, LIFT, EXTERNAL WALLS, WINDOWS ETC. AND DETAILS OF GLADDING, GUTTERS, DOWN PIPES ETC..., REFER TO ARCHITECTS DETAILS.

PAINTING

- STEELWORK TO BE PAINTED IN ACCORDANCE WITH THE SPECIFICATION AS FOLLOWS, UNLESS NOTED OTHERWISE.

STEELWORK IN CAVITIES G10 WM 660/3

EXTERNAL STEELWORK (FUNCTIONAL) G10 WM 610/1

REFER TO ARCHITECTS DETAILS FOR LOCATIONS REQUIRING DECORATIVE FINISH.

- FOR FIRE PROTECTION DETAILS TO STEELWORK REFER TO ARCHITECTS DETAILS AND SPECIFICATION.

VB - DENOTES VERTICAL BRACING.

- MAIN PURLINS AND RAILS ONLY ARE DETAILED ON THESE DRAWINGS. ADDITIONAL GUTTER SUPPORTS, SAG RODS, CLEADER RAILS, AND FASCIA SUPPORTS ETC. ARE TO BE DETAILED BY THE STEELWORK CONTRACTOR. THE STEELWORK CONTRACTOR IS RESPONSIBLE FOR THE CO-ORDINATION OF CLADDING SUPPORT DETAILS TO COMPLY WITH ARCHITECT'S REQUIREMENTS.

- REFER TO SERVICES ENGINEERS DRAWINGS FOR DETAILS OF SERVICE PENETRATIONS. STEELWORK CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, DETAIL AND CO-ORDINATION OF TRIMMING, AND SECONDARY SUPPORT STEELWORK FOR SERVICES.

- CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE PRIOR TO COMMENCING FABRICATION DRGS.

FORCE NOTATION:-

100kN	-	SHEAR FORCE
25kNm	-	MOMENT
<15kN>	-	AXIAL (TO BE TAKEN + OR -)

ALL LOADS ARE FACTORED IN ACCORDANCE WITH THE EUROCODE

GENERAL NOTES

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- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND THE SPECIFICATION.

- THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH & SAFETY PLAN.

- STEELWORK FABRICATOR MUST TAKE ACCURATE SITE DIMENSIONS, CHECKING VERTICAL ALIGNMENT, PLUMB AND ALL LEVELS OF THE EXISTING STRUCTURE PRIOR TO ANY FABRICATION. ANY DISCREPANCY BROUGHT TO THE ENGINEERS ATTENTION.

- THE STEELWORK FABRICATOR WILL RECEIVE CONSTRUCTION INFORMATION IN TWO STAGES:-
STAGE 1
APPROX. 85% COMPLETE AND WILL COMPRISE OF THE MAIN STRUCTURAL FRAME ELEMENTS.
STAGE 2
REMAINING INFORMATION INCLUDING SECONDARY STEELWORK ie MASONRY RESTRAINT POSTS, GLAZING/CLADDING SUPPORTS etc. THE CONTRACTOR SHALL TAKE ACCOUNT OF THIS PHASED RELEASE OF INFORMATION IN HIS PRICING AND PROGRAMME.

STEELWORK CONNECTIONS

- ALL CONNECTIONS (UNLESS DETAILED) ARE TO BE DESIGNED BY STEELWORK CONTRACTOR TO B.S. EN 1993. EUROCODE 3. CONNECTIONS TO BE DESIGNED FOR A MINIMUM SHEAR LOAD OF 100kN AND 75kN AXIAL U.N.O. THESE FORCES SHOULD BE CONSIDERED CO-EXISTENT WITH ANY MOMENTS INDICATED. WHERE CONNECTIONS ARE DETAILED THESE ARE TO BE FABRICATED STRICTLY IN ACCORDANCE WITH THE DRAWING. NO DEVIATION WILL BE ACCEPTED WITHOUT PRIOR APPROVAL. CONNECTION DESIGNS MUST TAKE INTO ACCOUNT THE REQUIREMENTS OF ROBUSTNESS AND DISPROPORTIONATE COLLAPSE SET OUT IN BS 5950 PART 1.

- STEELWORK TO BE GRADE S355 UNLESS NOTED OTHERWISE. G10/130A, & 135A.

- MINIMUM BOLTED CONNECTION: 2No. M20 BOLTS GRADE 8.8 UNLESS NOTED OTHERWISE. G10/312A.

- ALL WELDING IS TO BE IN ACCORDANCE WITH SPECIFICATIONS G10/255, 270, 271A & 290A. MINIMUM SIZE OF FILLET WELD TO BE 6mm CONTINUOUS UNLESS NOTED OTHERWISE.

- BRACING MEMBER CONNECTIONS TO HAVE 2No. M20 BOLTS GRADE 8.8 UNLESS NOTE OTHERWISE. G10/18507.

PRELIMINARY DRAWING

P02	PRELIMINARY ISSUE	XXX'23	OC	AJWL
P01	PRELIMINARY ISSUE	MAR'23	OC	AJWL
Rev	Amendment	Date	By	Chkd

Project
**JOHN RYLANS RESEARCH INSTITUTE & LIBRARY
THE NEXT CHAPTER**

Client
THE UNIVERSITY OF MANCHESTER

Title
PLANT DECK OVER BIN STORE

WML Job No. 10696	Drawn OC	Checked AJWL	Date APR '23	Scale As indicated @ A1
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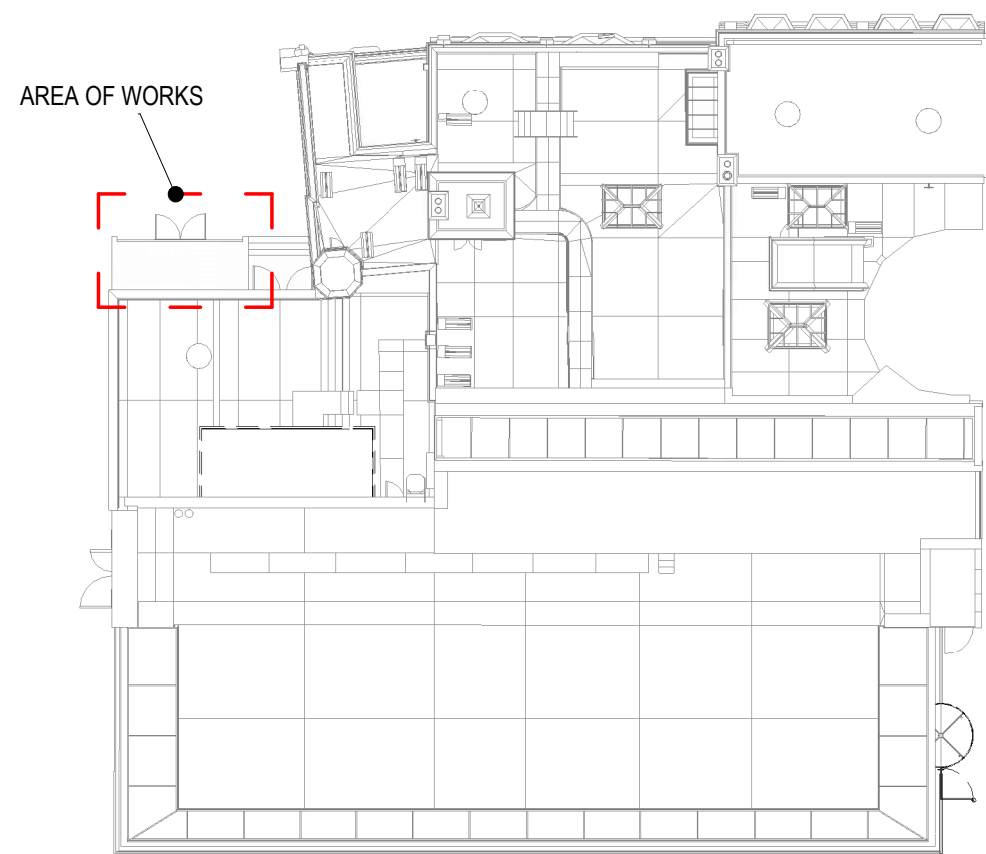
WML CONSULTING
Civil, Structural & Geotechnical Engineers

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Cheadle Hulme
Cheshire SK9 6QL
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Fax: 0161 486 9210
email:
info@wmiconsulting.com
www.wmiconsulting.com

Drawing No.

Project ID	Originator	Functional Breakdown	Special Breakdown	Form	Discipline	Number	Rev
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JRL - WML - ZZ - 10A - DR - S - 3300 P02



AREA PLAN

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- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALIST'S DRAWINGS AND THE SPECIFICATION.
- THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH & SAFETY PLAN.

RESIDUAL RISK REGISTER -

REFER TO WML CIVIL / STRUCTURAL DESIGN RISK REGISTER IN ADDITION TO THE WMLS RISK REGISTER FOR THE TYPE OF WORKS INDICATED ON THIS DRAWING. NOTE THE FOLLOWING:-

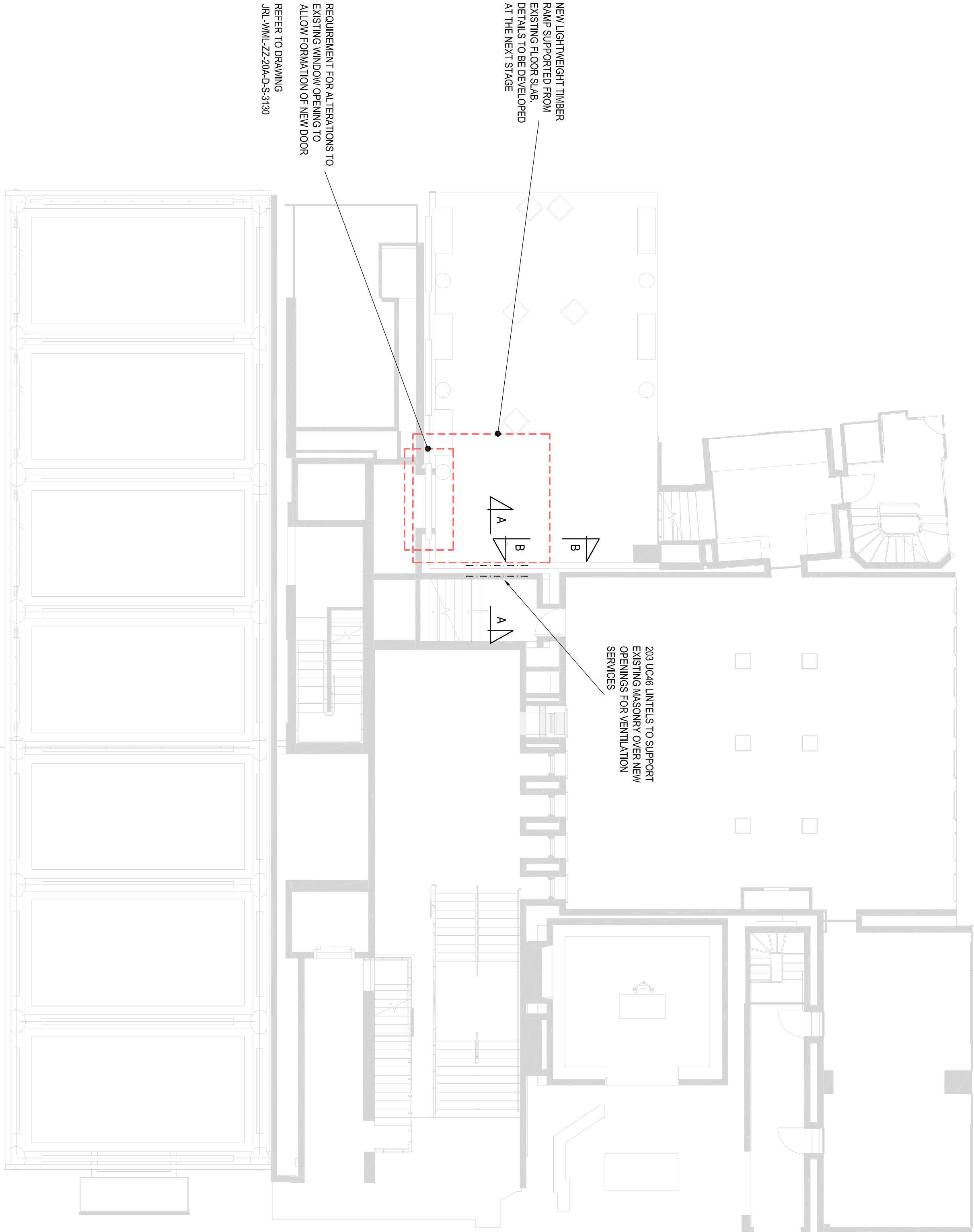
WORKS BEING CARRIED OUT IN EXISTING BUILDING. FULL RECORDS OF THE EXISTING BUILDING ARE NOT AVAILABLE AND THE EXISTING STRUCTURAL ARRANGEMENT MAY DIFFER FROM ASSUMPTIONS. STRUCTURAL ENGINEER TO BE INFORMED OF ANY DIFFERENCES IN DETAILING OR DEFECTS WHICH ARE UNCOVERED

TEMPORARY WORKS IN THE FORM OF PROPPING WILL BE REQUIRED TO FACILITATE NEW OPENINGS. TEMPORARY WORKS WILL NEED TO BE DESIGNED BY A SUITABLY QUALIFIED SPECIALIST

IMPOSED LOAD CAPACITIES OF FLOORS TO SUPPORT EQUIPMENT IS UNKNOWN AND WILL REQUIRE CONSIDERATION WITH THE CONTRACTOR TO ENSURE THAT LARGE POINT LOADS ARE ADEQUATELY DISTRIBUTED

DRAWINGS TO BE READ IN CONJUNCTION WITH WML REPORT 10696-WML-ZZ-XX-RP-S-1-003

REFER TO STRUCTURAL CONDITION SURVEY MARK UP FOR LOCATIONS WHERE REPAIR WORKS ARE RECOMMENDED



FIRST FLOOR GA - ZONE A

(SCALE 1:100)

PRELIMINARY DRAWING

P03	PRELIMINARY ISSUE	JUN 23	OC	AJWL
P02	DRAWING REFERENCE ADDED.	MAY 23	OC	AJWL
P01	PRELIMINARY ISSUE	APR 23	OC	AJWL
Rev.	Amendment	Date	By	Chkd

Project
JOHN RYLANDS LIBRARY
THE NEXT CHAPTER

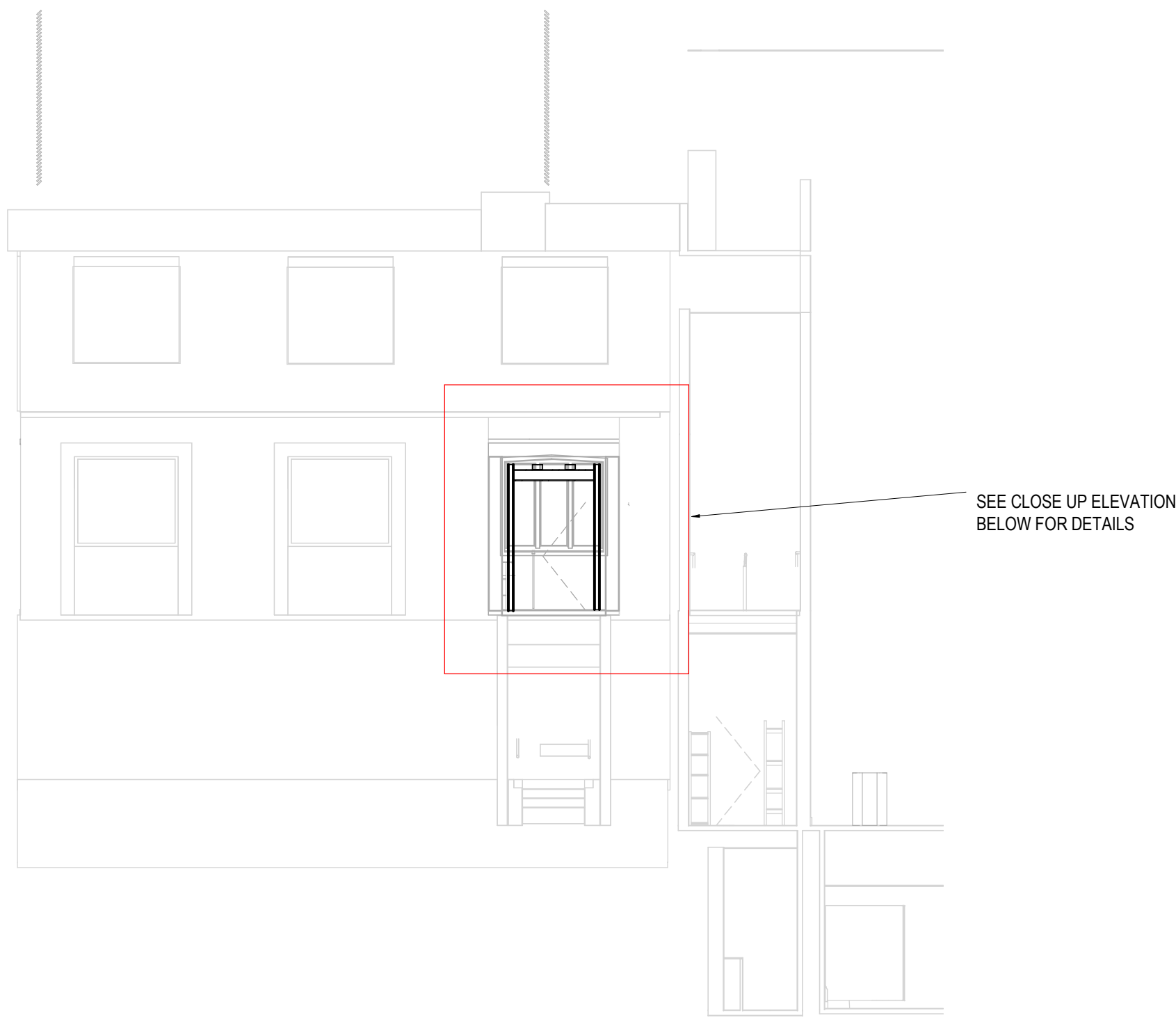
Client
THE UNIVERSITY OF MANCHESTER

Title
PROPOSED FIRST FLOOR PLAN
ZONE A

WML Job No.	Drawn	Checked	Date	Scale
10696	OC	AJWL	Apr 23	g/v1

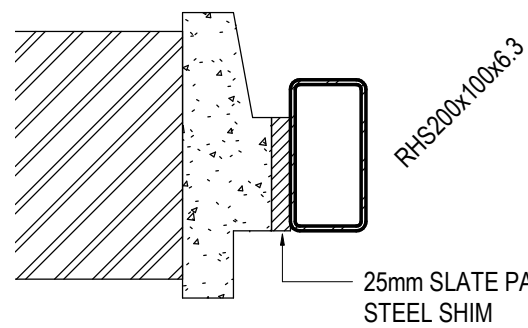
WML CONSULTING
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Drawing No.	Originator	Project/Revision	Sheet Number	Form	Discipline	Number	Rev
JRL	WML	ZZ	20A	D60	S	3002	P03

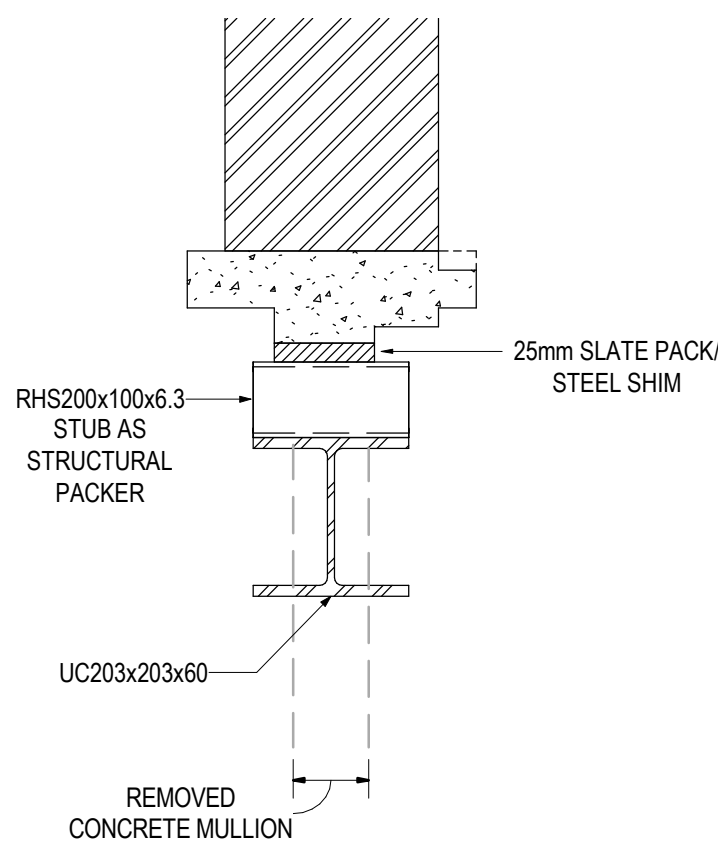


ELEVATION ON WINDOW ALTERATION
(SCALE 1 : 100)

P02



SECTION A-A
(SCALE 1 : 10)



SECTION B-B
(SCALE 1 : 10)

PAINTING

12. STEELWORK TO BE PAINTED IN ACCORDANCE WITH THE SPECIFICATION AS FOLLOWS, UNLESS NOTED OTHERWISE.
- STEELWORK IN CAVITIES G10 WM 660/3
- EXTERNAL STEELWORK (FUNCTIONAL) G10 WM 610/1
- REFER TO ARCHITECTS DETAILS FOR LOCATIONS REQUIRING DECORATIVE FINISH.
13. FOR FIRE PROTECTION DETAILS TO STEELWORK REFER TO ARCHITECTS DETAILS AND SPECIFICATION.
14. VB - DENOTES VERTICAL BRACING.
15. CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE PRIOR TO COMMENCING FABRICATION DRGS.

FORCE NOTATION:-

100kN	-	SHEAR FORCE
25kNm	-	MOMENT
<15kN>	-	AXIAL (TO BE TAKEN + OR -)

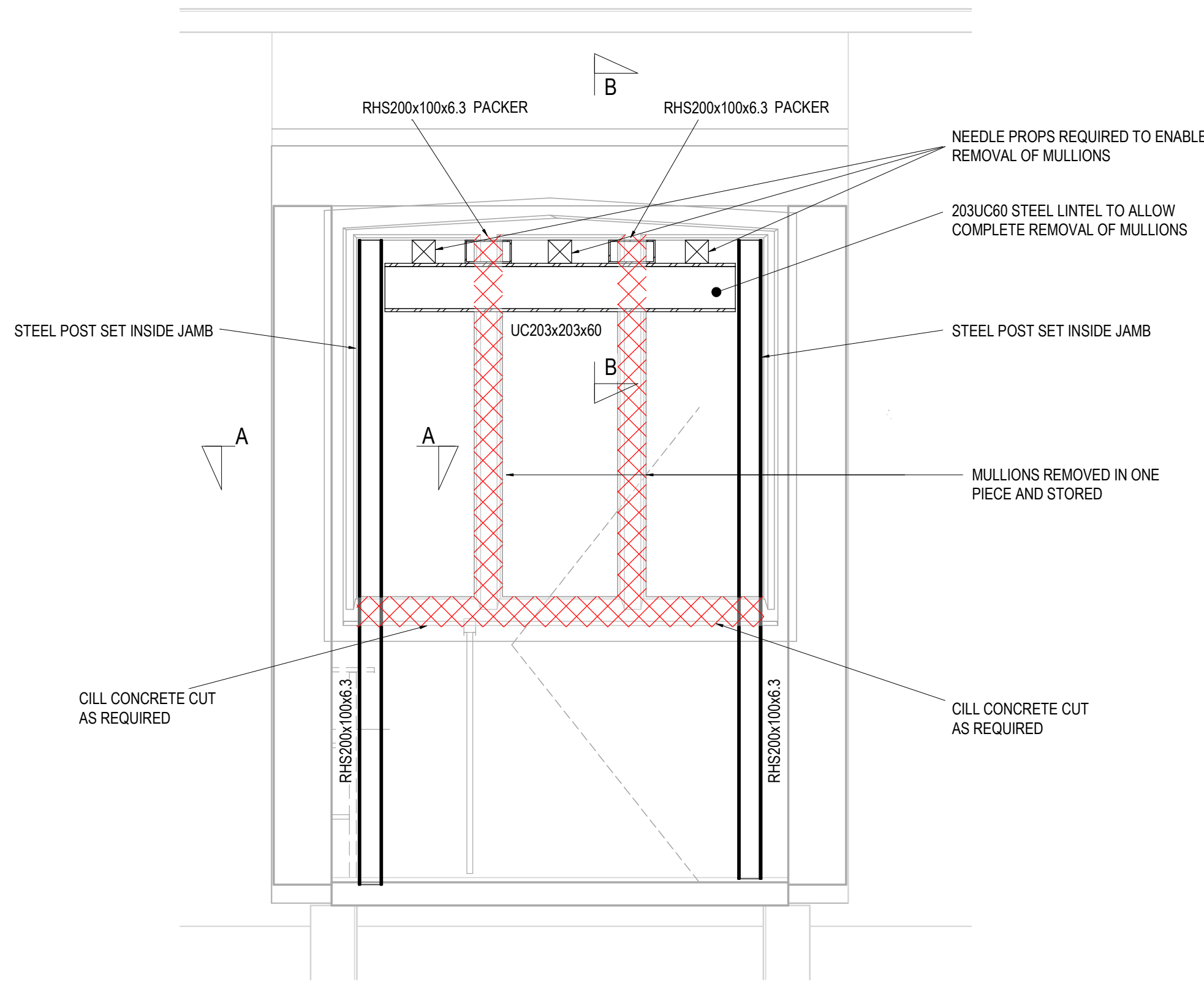
ALL LOADS ARE FACTORED IN ACCORDANCE WITH THE EUROCODE

CDM NOTE

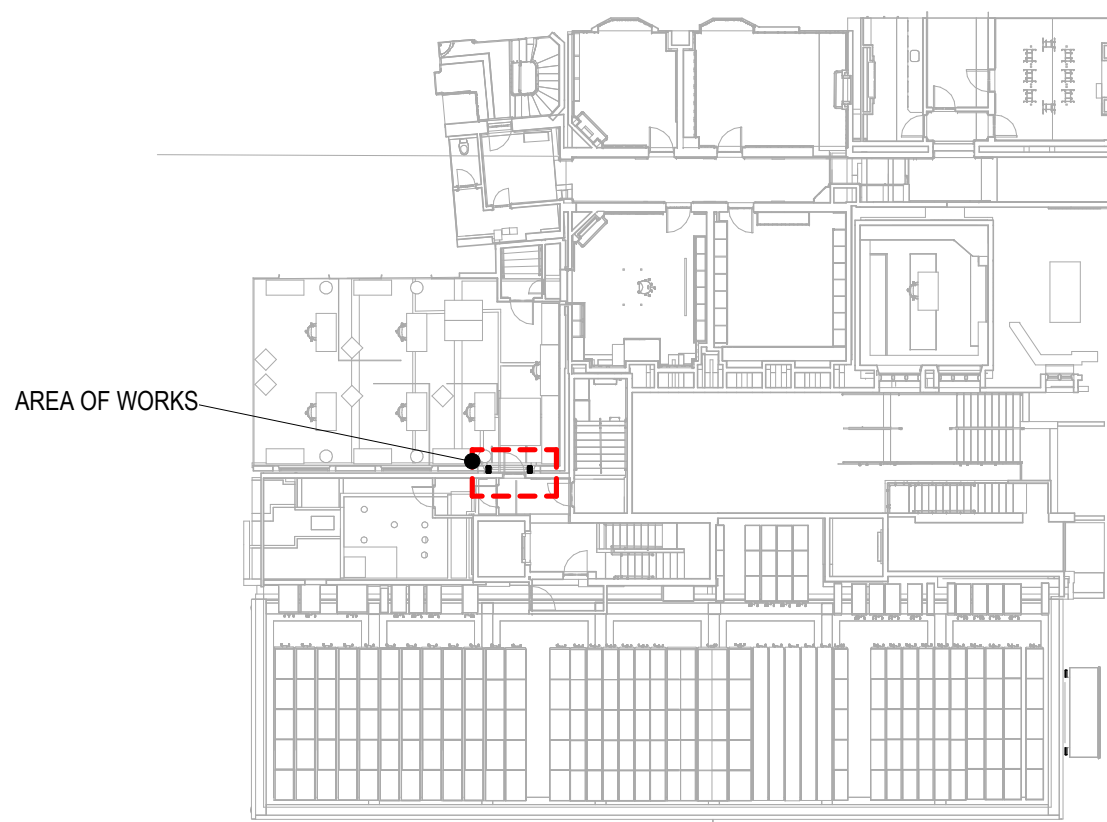
16. ALL STEEL ROOF RAFTERS ARE TO RECEIVE PRE-DRILLED HOLES TO THE BOTTOM FLANGE TO RECEIVE FIXINGS TO ALLOW THE INSTALLATION OF SAFETY NETTING.
17. DETAILED CONNECTIONS ARE TO BE FABRICATED STRICTLY IN ACCORDANCE WITH THE DRAWING NO DEVIATION WILL BE ACCEPTED WITHOUT PRIOR APPROVAL.
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19. FOR SETTING OUT OF INTERNAL WALLS, PARTITIONS, DOOR OPENINGS, STAIRCASES, DUCT OPENINGS, LIFT, EXTERNAL WALLS, WINDOWS ETC; AND DETAILS OF GLAZING, GUTTERS, DOWN PIPES ETC..., REFER TO ARCHITECTS DETAILS.

GENERAL NOTES

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2. NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS ALLOWED WITHOUT PRIOR PERMISSION IN WRITING.
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5. STEELWORK FABRICATOR MUST TAKE ACCURATE SITE DIMENSIONS, CHECKING VERTICAL ALIGNMENT, PLUMB AND ALL LEVELS OF THE EXISTING STRUCTURE PRIOR TO ANY FABRICATION. ANY DISCREPANCY BROUGHT TO THE ENGINEERS ATTENTION.
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APPROX: 85% COMPLETE AND WILL COMPRISE OF THE MAIN STRUCTURAL FRAME ELEMENTS.
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GLAZING/GLADDING SUPPORTS etc. THE CONTRACTOR SHALL TAKE ACCOUNT OF THIS PHASED RELEASE OF INFORMATION IN HIS PRICING AND PROGRAMME.
- STEELWORK CONNECTIONS**
7. ALL CONNECTIONS (UNLESS DETAILED) ARE TO BE DESIGNED BY STEELWORK CONTRACTOR TO B.S. EN 1993: EUROCODE 3. CONNECTIONS TO BE DESIGNED FOR A MINIMUM SHEAR LOAD OF 100kN AND 75kN AXIAL U.N.O. THESE FORCES SHOULD BE CONSIDERED CO-EXISTENT WITH ANY MOMENTS INDICATED. WHERE CONNECTIONS ARE DETAILED THESE ARE TO BE FABRICATED STRICTLY IN ACCORDANCE WITH THE DRAWING. NO DEVIATION WILL BE ACCEPTED WITHOUT PRIOR APPROVAL.
8. STEELWORK TO BE GRADE S355 UNLESS NOTED OTHERWISE. G10/130A, & 135A.
9. MINIMUM BOLTED CONNECTION: 2No. M20 BOLTS GRADE 8.8 UNLESS NOTED OTHERWISE. G10/312A.
10. ALL WELDING IS TO BE IN ACCORDANCE WITH SPECIFICATIONS G10/255, 270, 271A & 290A. MINIMUM SIZE OF FILLET WELD TO BE 6mm CONTINUOUS UNLESS NOTED OTHERWISE.
11. BRACING MEMBER CONNECTIONS TO HAVE 2No. M20 BOLTS GRADE 8.8 UNLESS NOTE OTHERWISE. G10/18507.



CLOSE UP ELEVATION ON WINDOW ALTERATION
(SCALE 1 : 20)



AREA PLAN

PRELIMINARY DRAWING

P02	PRELIMINARY ISSUE	JUN '23	OC	AJWL
P01	PRELIMINARY ISSUE	MAY '23	OC	AJWL
Rev	Amendment	Date	By	Chkd

Project
**JOHN RYLANDS LIBRARY
THE NEXT CHAPTER**

Client
THE UNIVERSITY OF MANCHESTER

Title
IMAGING SUITE DOOR ACCESS DETAILS

WML Job No. 10696	Drawn OC	Checked AJWL	Date MAY '23	Scale As indicated @ A1
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Drawing No.	Project ID	Originator	Functional Breakdown	Special Breakdown	Form	Discipline	Number	Rev
JRL	-	WML	-	ZZ	-	20A	-	D - S - 3130 P02

GENERAL NOTES

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RESIDUAL RISK REGISTER -

REFER TO WML CIVIL / STRUCTURAL DESIGN RISK REGISTER IN ADDITION TO THE HAZARDOUS RISKS REGISTER. THE TYPE OF WORKS INDICATED ON THIS DRAWING, NOTE THE FOLLOWING:-

WORKS BEING CARRIED OUT IN EXISTING BUILDING, FULL RECORDS OF THE EXISTING BUILDING ARE NOT AVAILABLE AND THE EXISTING STRUCTURAL ARRANGEMENT MAY DIFFER FROM ASSUMPTIONS. STRUCTURAL ENGINEER TO BE INFORMED OF ANY DIFFERENCES IN DETAILING OR DEFECTS WHICH ARE UNCOVERED

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DRAWINGS TO BE READ IN CONJUNCTION WITH WML REPORT 10596-WML-ZZ-XX-RP-S-1003

REFER TO STRUCTURAL CONDITION SURVEY MARK UP FOR LOCATIONS WHERE REPAIR WORKS ARE RECOMMENDED

PRELIMINARY DRAWING

P02	PRELIMINARY ISSUE	JUN 23	OC	AJWL
P01	PRELIMINARY ISSUE	SEP22	OC	AJWL
Rev.	Amendment	Date	By	Chkd

Project
JOHN RYLANDS LIBRARY
THE NEXT CHAPTER

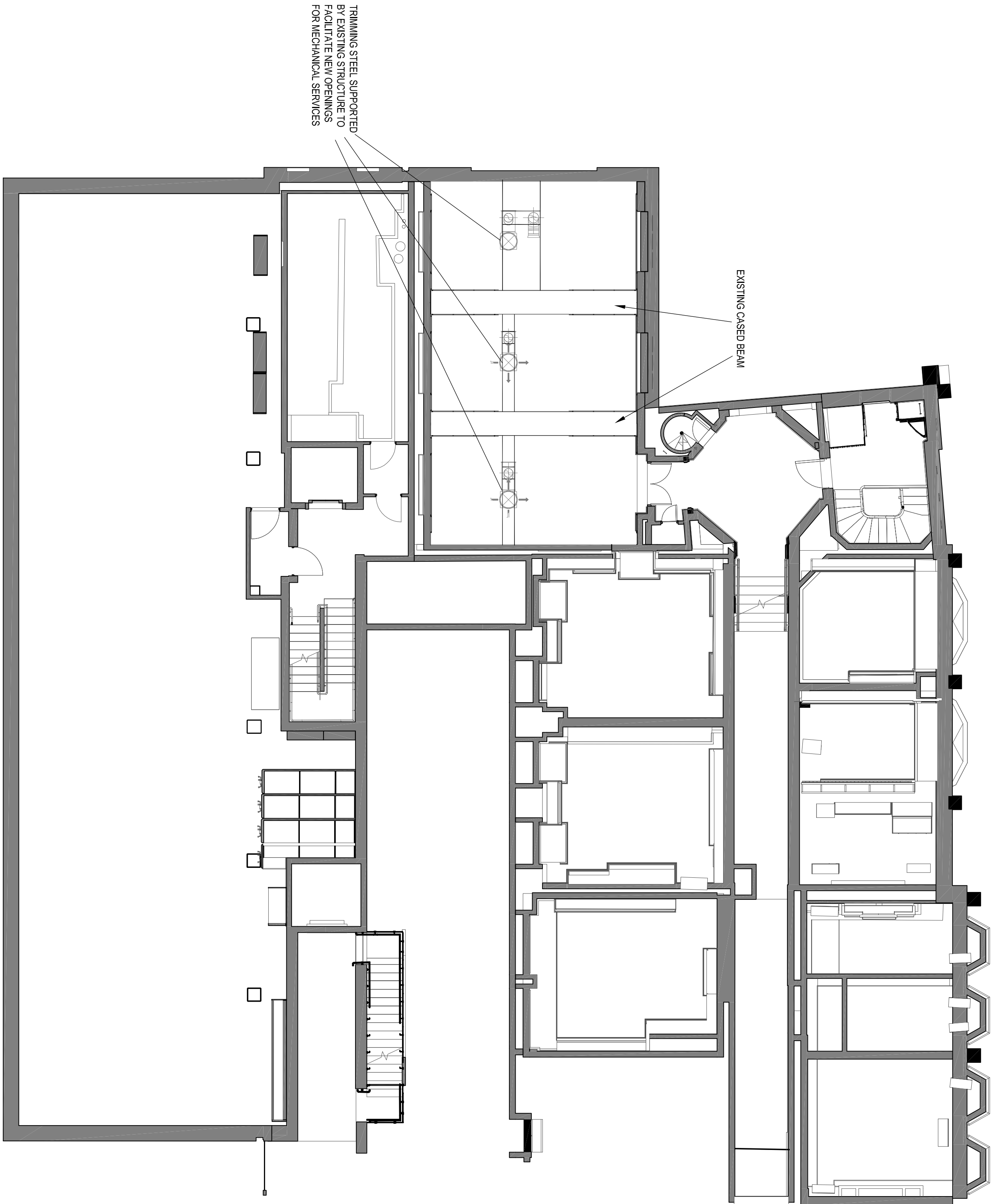
Client
THE UNIVERSITY OF MANCHESTER

Title
PROPOSED THIRD FLOOR GA
ZONE A

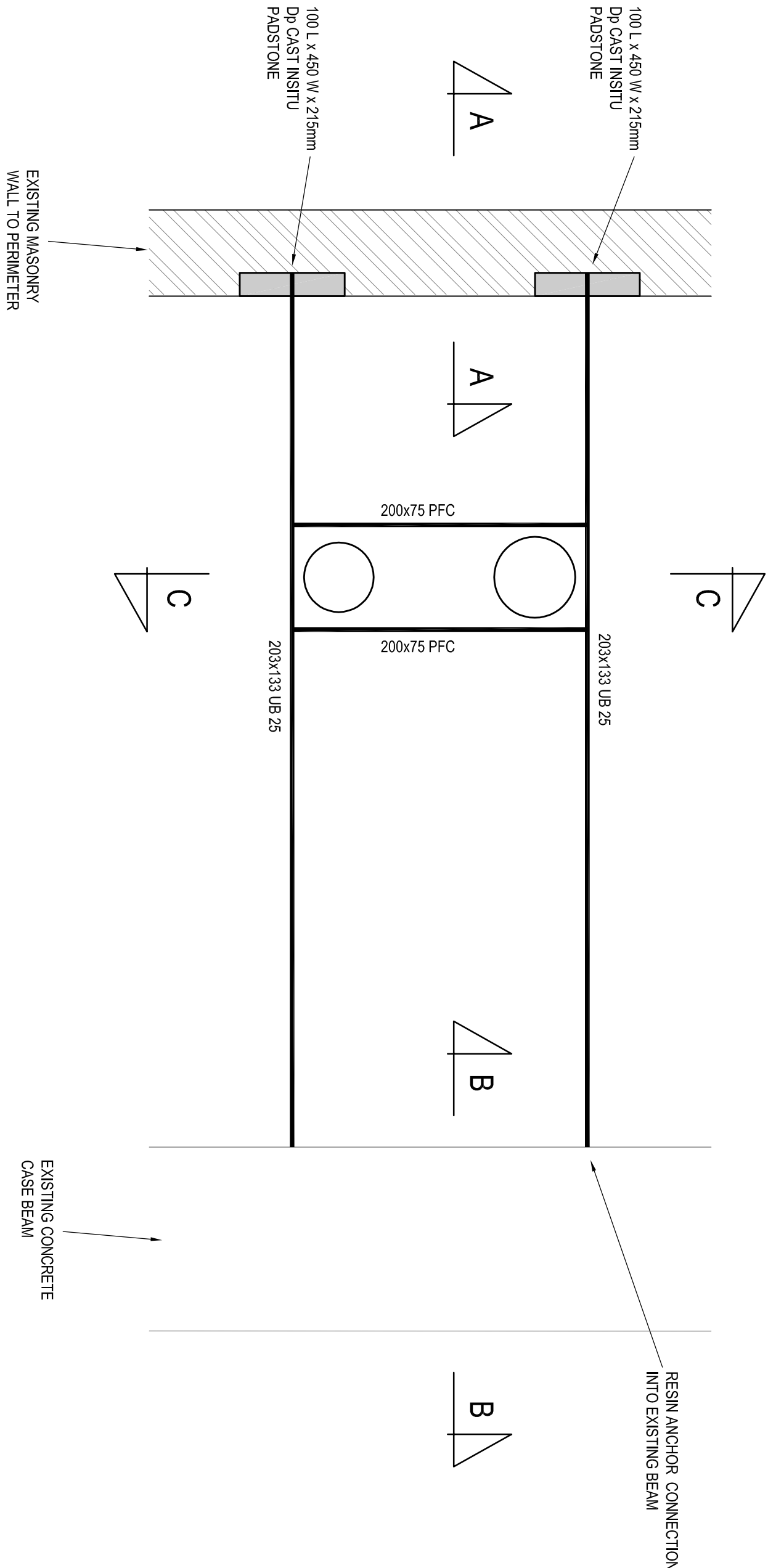
WML Job No.	Drawn	Checked	Date	Scale
10696	OC	AJWL	Apr 23	gvt

WML CONSULTING
Civil, Structural & Geotechnical Engineers
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www.wmlconsulting.com

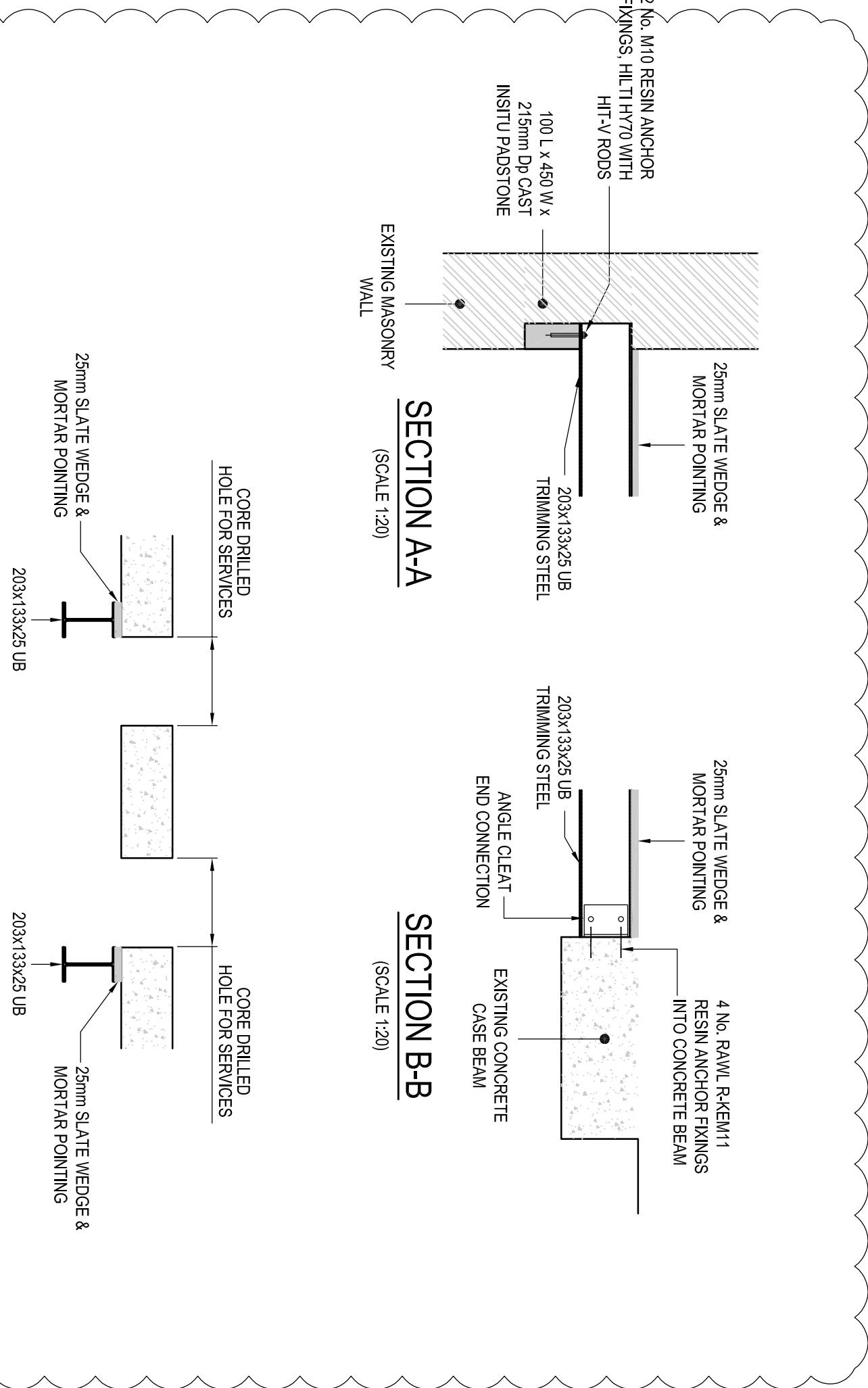
Drawing No.	Original	Revised Drawings	Stand Drawings	Form	Discipline	Number	Rev
JRL	WML	ZZ	40A	D60	S	3004	P02



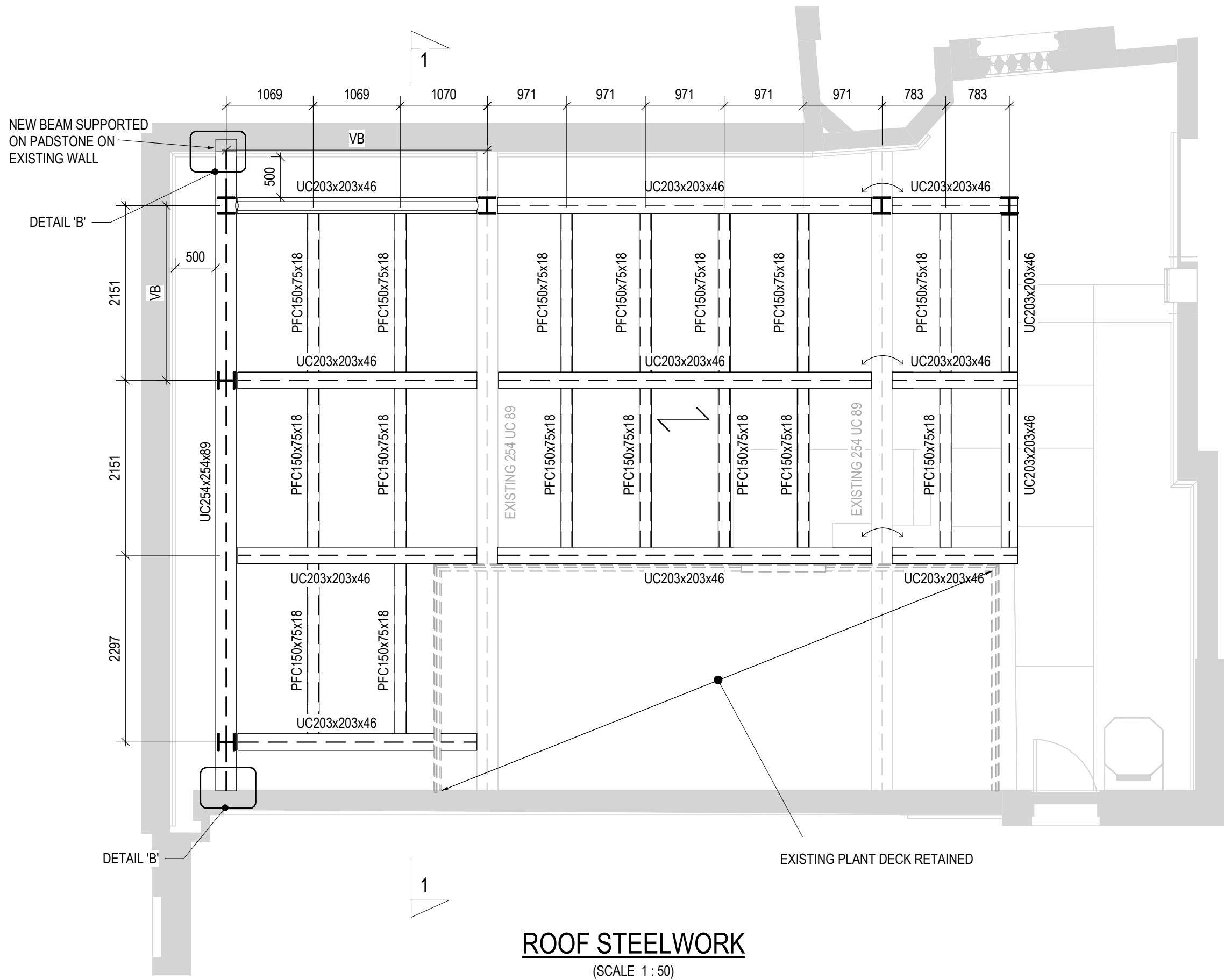
THIRD FLOOR GA - ZONE A
(SCALE 1:100)



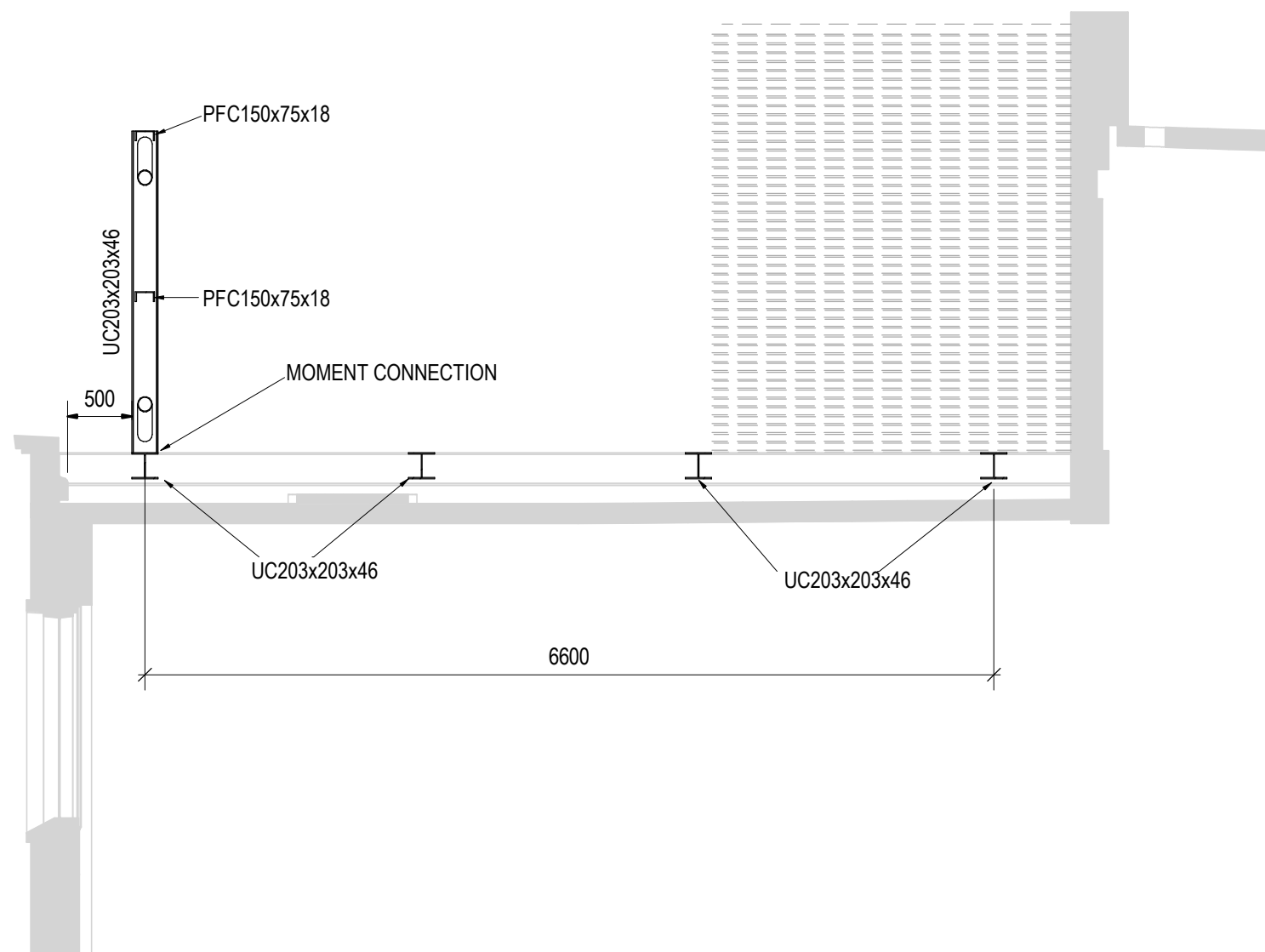
TYPICAL TRIMMING STEEL DETAIL
(SCALE 1:20)



1/20



ROOF STEELWORK
(SCALE 1 : 50)



SECTION 1-1
(SCALE 1 : 50)

POSITION AND SETTING OUT OF PLANT DECK AND SCREEN TO BE CONFIRMED

INDICATES SPAN OF OPEN MESH FLOOR

VB DENOTES 114.3x5.09 CHS DIAGONAL BRACING

ALL STEELWORK TO BE GALVANISED

CDM NOTE

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PAINING

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STEELWORK IN CAVITIES G10 WM 660/3
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FORCE NOTATION:-

100kN	-	SHEAR FORCE
25kNm	-	MOMENT
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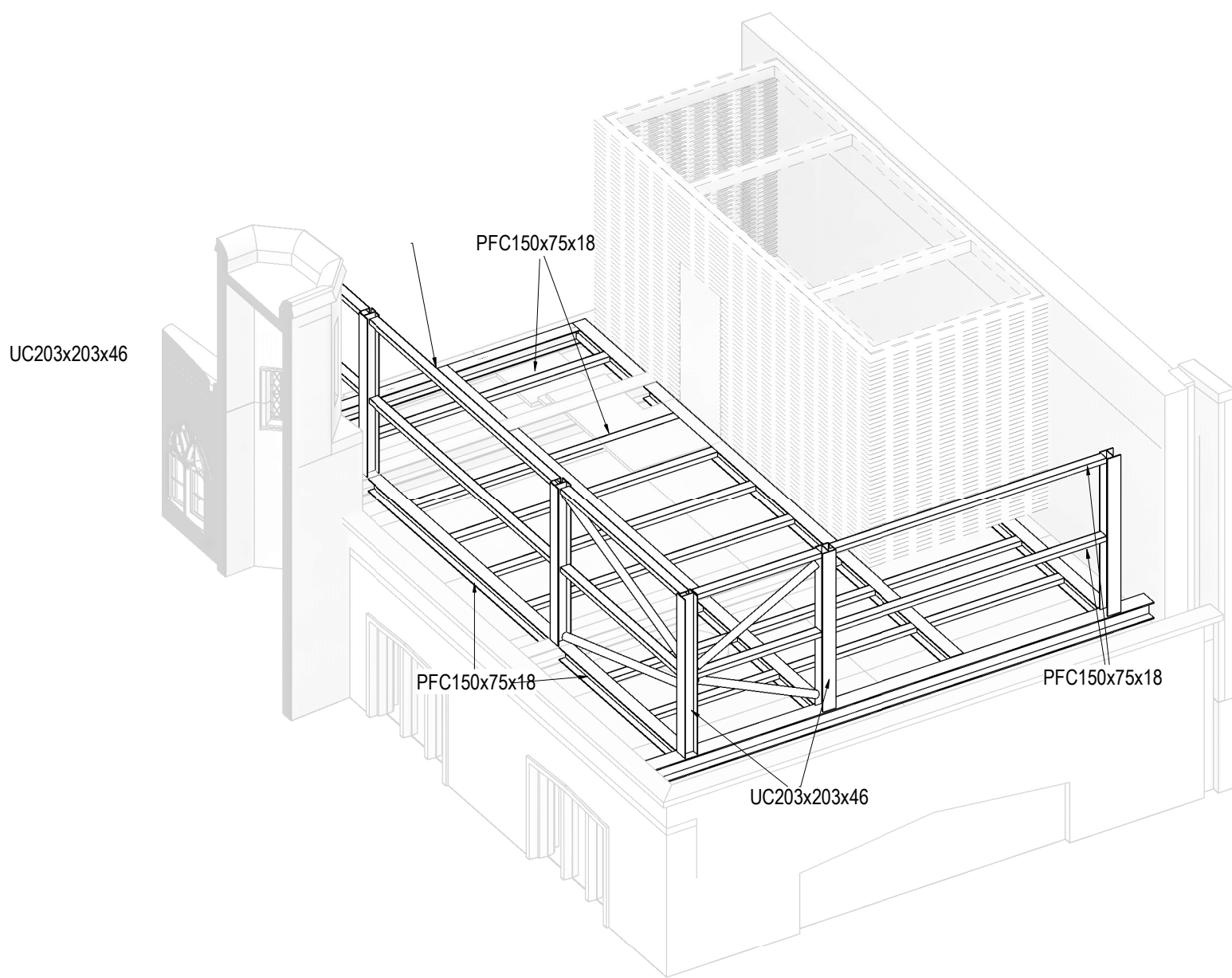
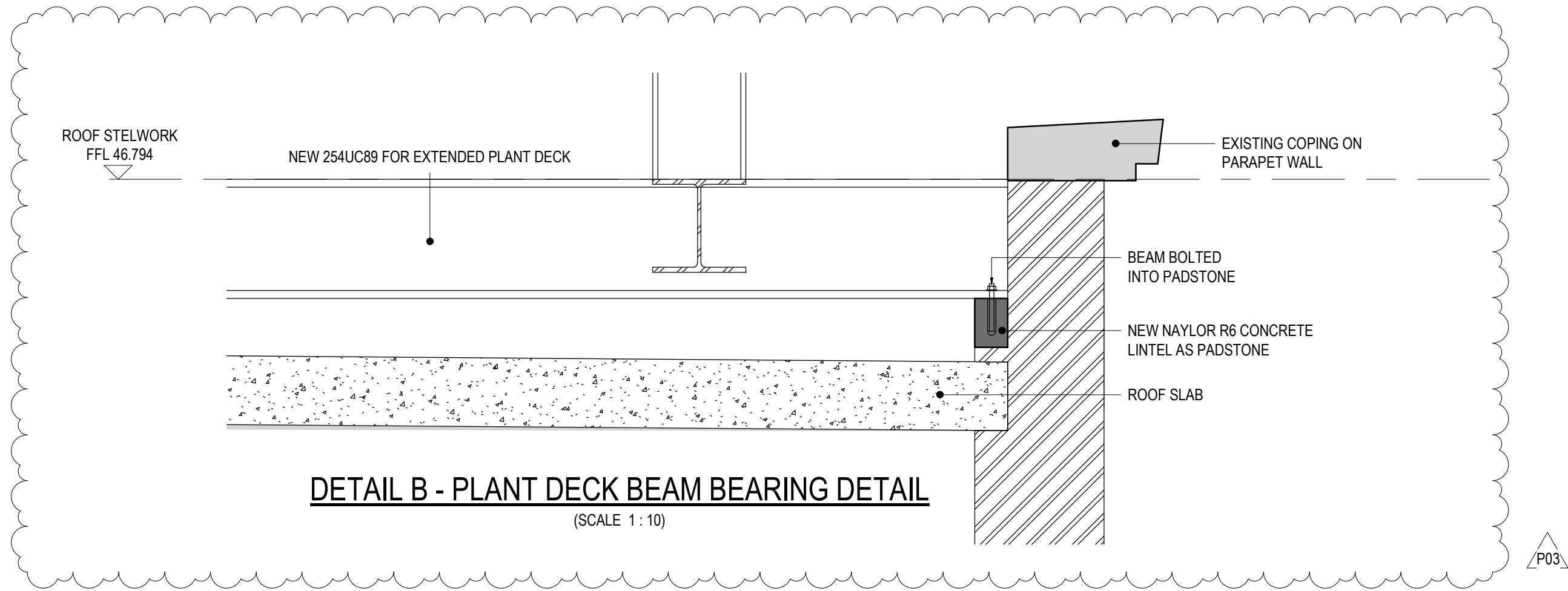
ALL LOADS ARE FACTORED IN ACCORDANCE WITH THE EUROCODE

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STEELWORK CONNECTIONS

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- BRACING MEMBER CONNECTIONS TO HAVE 2No. M20 BOLTS GRADE 8.8 UNLESS NOTE OTHERWISE. G10/18507.



3D VIEW 1

PRELIMINARY DRAWING

P03	PRELIMINARY ISSUE	XXX '23	OC	AJWL
P02	STEELWORK SIZES, SETTING OUT & NOTES UPDATED.	APR '23	OC	AJWL
P01	PRELIMINARY ISSUE	MAR '23	OC	AJWL
Rev	Amendment	Date	By	Chkd

Project
**JOHN RYLANS RESEARCH INSTITUTE & LIBRARY
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Client
THE UNIVERSITY OF MANCHESTER

Title
WOLFSON BUILDING ROOF PLANT AREA GA

WML Job No. 10696	Drawn OC	Checked AJWL	Date MAR '23	Scale As indicated @ A1
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email:
info@wmiconsulting.com
www.wmiconsulting.com

Drawing No.

Project ID	Originator	Functional Breakdown	Special Breakdown	Form	Discipline	Number	Rev
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JRL - WML - ZZ - 50A - D60 - S - 4001 P03

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- DO NOT SCALE FROM THIS DRAWING WORK TO FIGURED DIMENSIONS ONLY.
- NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS ALLOWED WITHOUT PRIOR PERMISSION IN WRITING.
- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS AND THE SPECIFICATION.
- THE CONTRACTOR SHALL INCORPORATE ALL THE REQUIREMENTS OF THE PRE-TENDER STAGE HEALTH & SAFETY PLAN.

RESIDUAL RISK REGISTER -

REFER TO WML CIVIL / STRUCTURAL DESIGN RISK REGISTER IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORKS INDICATED ON THIS DRAWING. NOTE THE FOLLOWING:-

WORKS BEING CARRIED OUT IN EXISTING BUILDING, FULL RECORDS OF THE EXISTING BUILDING ARE NOT AVAILABLE AND THE EXISTING STRUCTURAL ARRANGEMENT MAY DIFFER FROM ASSUMPTIONS. STRUCTURAL ENGINEER TO BE INFORMED OF ANY DIFFERENCES IN DETAILING OR DEFECTS WHICH ARE UNCOVERED

TEMPORARY WORKS IN THE FORM OF PROPPING WILL BE REQUIRED TO FACILITATE NEW OPENINGS. TEMPORARY WORKS WILL NEED TO BE DESIGNED BY A SUITABLY QUALIFIED SPECIALIST

IMPOSED LOAD CAPACITIES OF FLOORS TO SUPPORT EQUIPMENT IS UNKNOWN AND WILL REQUIRE CONSIDERATION WITH THE CONTRACTOR TO ENSURE THAT LARGE POINT LOADS ARE ADEQUATELY DISTRIBUTED

DRAWINGS TO BE READ IN CONJUNCTION WITH WML REPORT 10696-WML-ZZ-XX-4P2-S-1003

REFER TO STRUCTURAL CONDITION SURVEY MARK UP FOR LOCATIONS WHERE REPAIR WORKS ARE RECOMMENDED

PRELIMINARY DRAWING

P02	PRELIMINARY ISSUE	JUN 23	OC	AJWL
P01	PRELIMINARY ISSUE	MAY 23	OC	AJWL
Rev.	Amendment	Date	By	Chkd

Project
JOHN RYLANDS LIBRARY
THE NEXT CHAPTER

Client

THE UNIVERSITY OF MANCHESTER

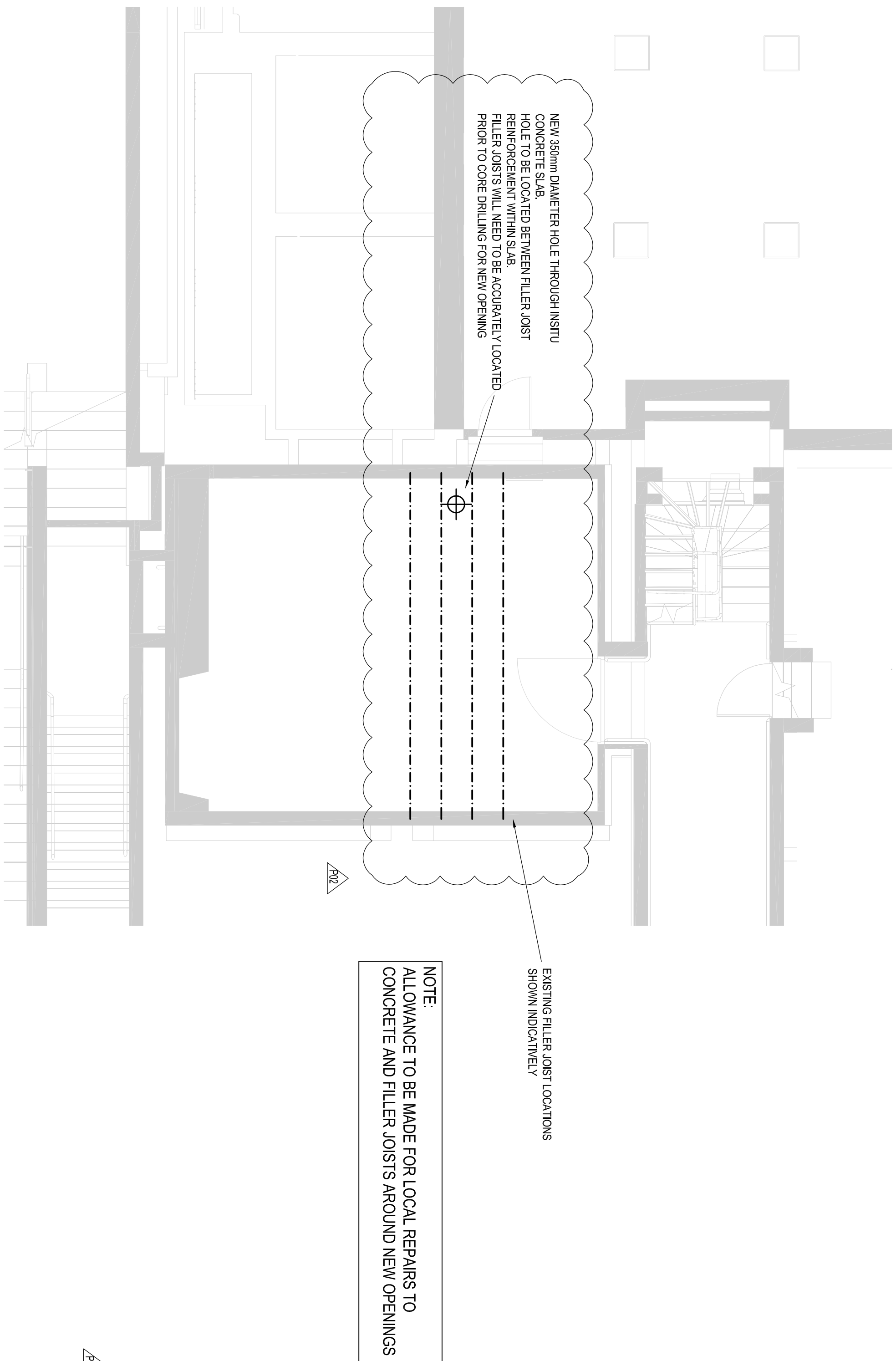
Title

SERVICES OPENINGS TO DANTE ROOM

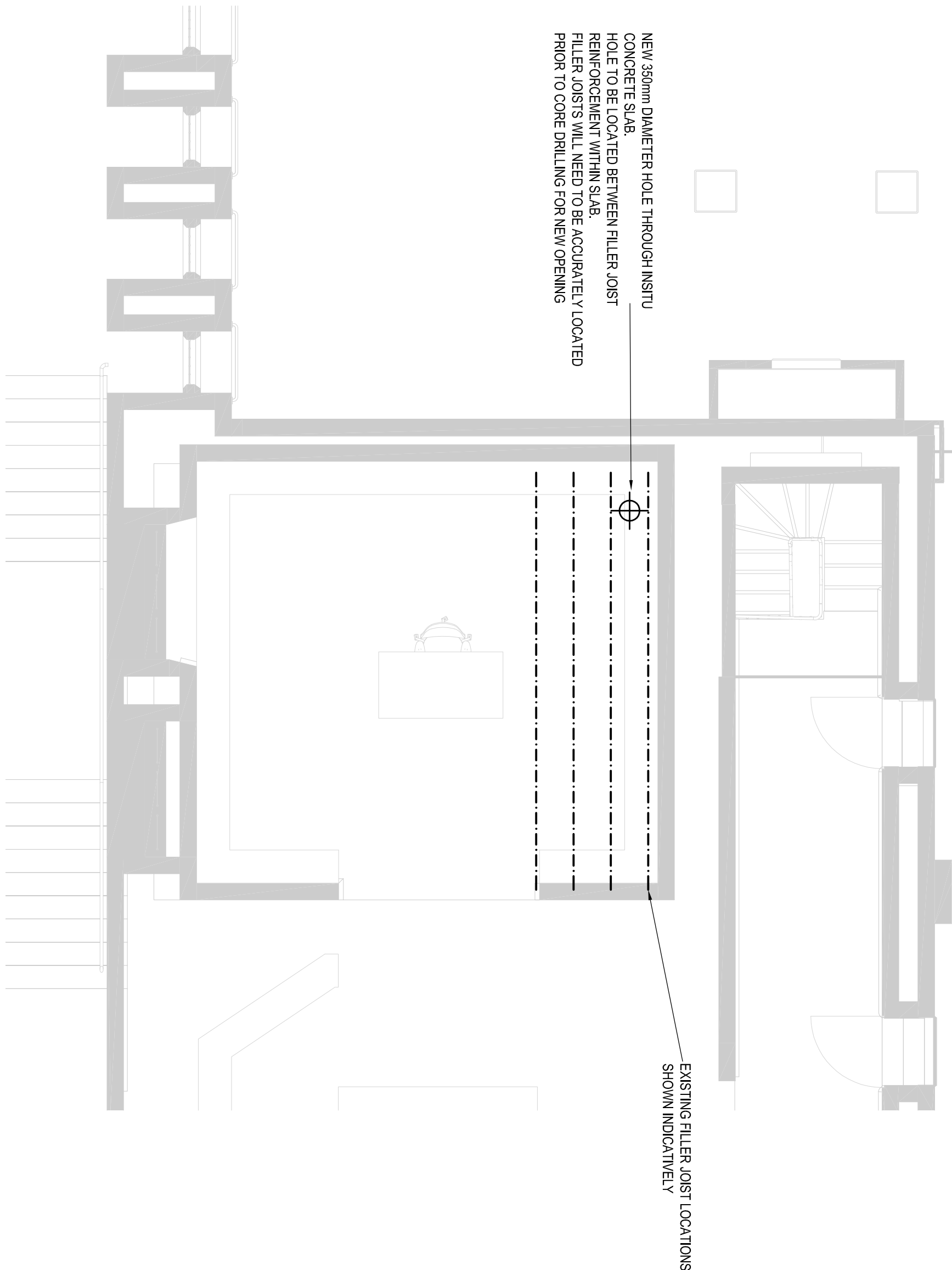
WML Job No.	Drawn	Checked	Date	Scale
10696	OC	AJWL	MAY 23	g/v1

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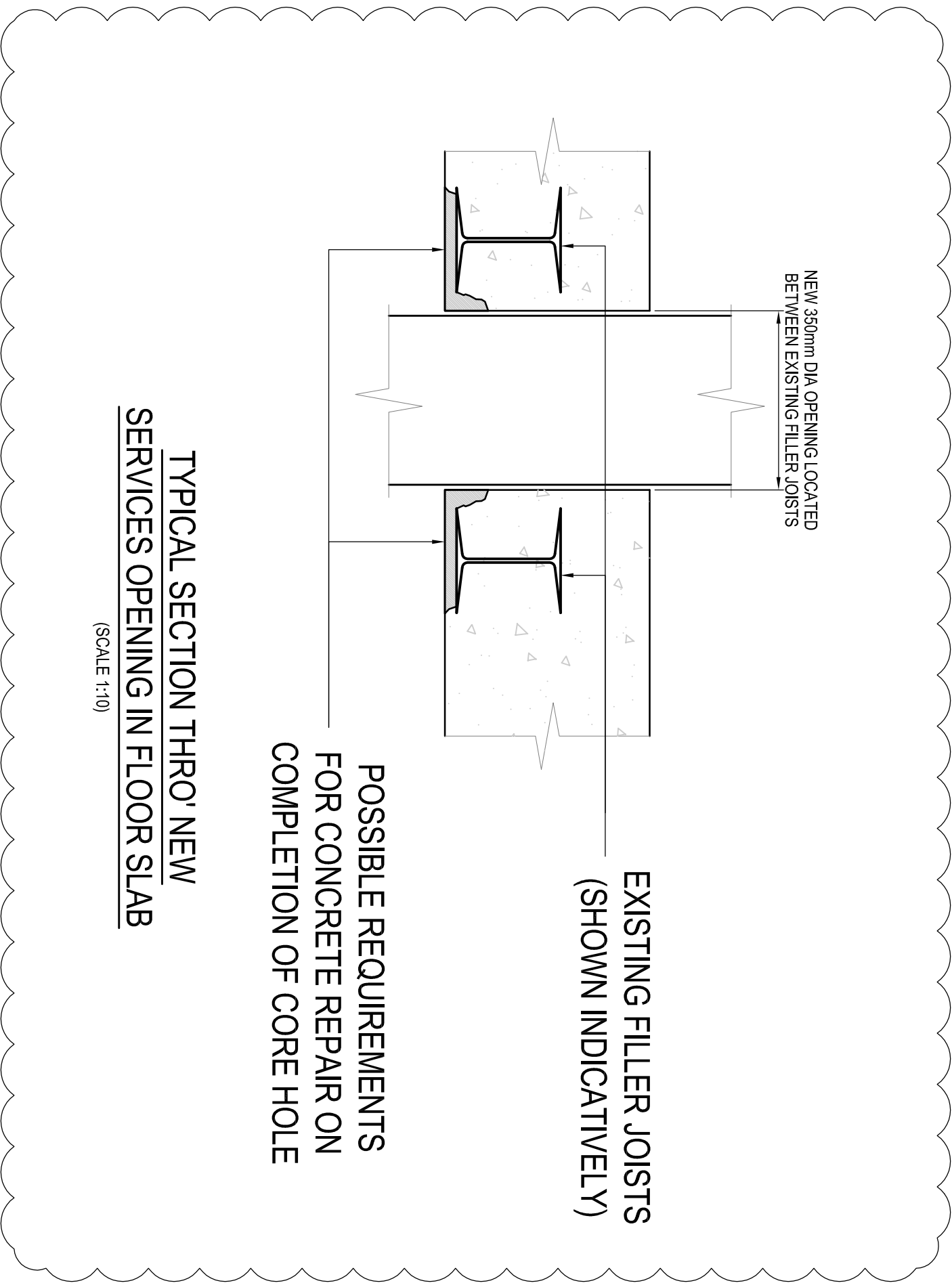
Drawing No.	Project	Originator	Project/Revision	Serial/Revision	Form	Discipline	Number	Rev
JRL	WML	ZZ	ZA	D60	S	3140	P02	



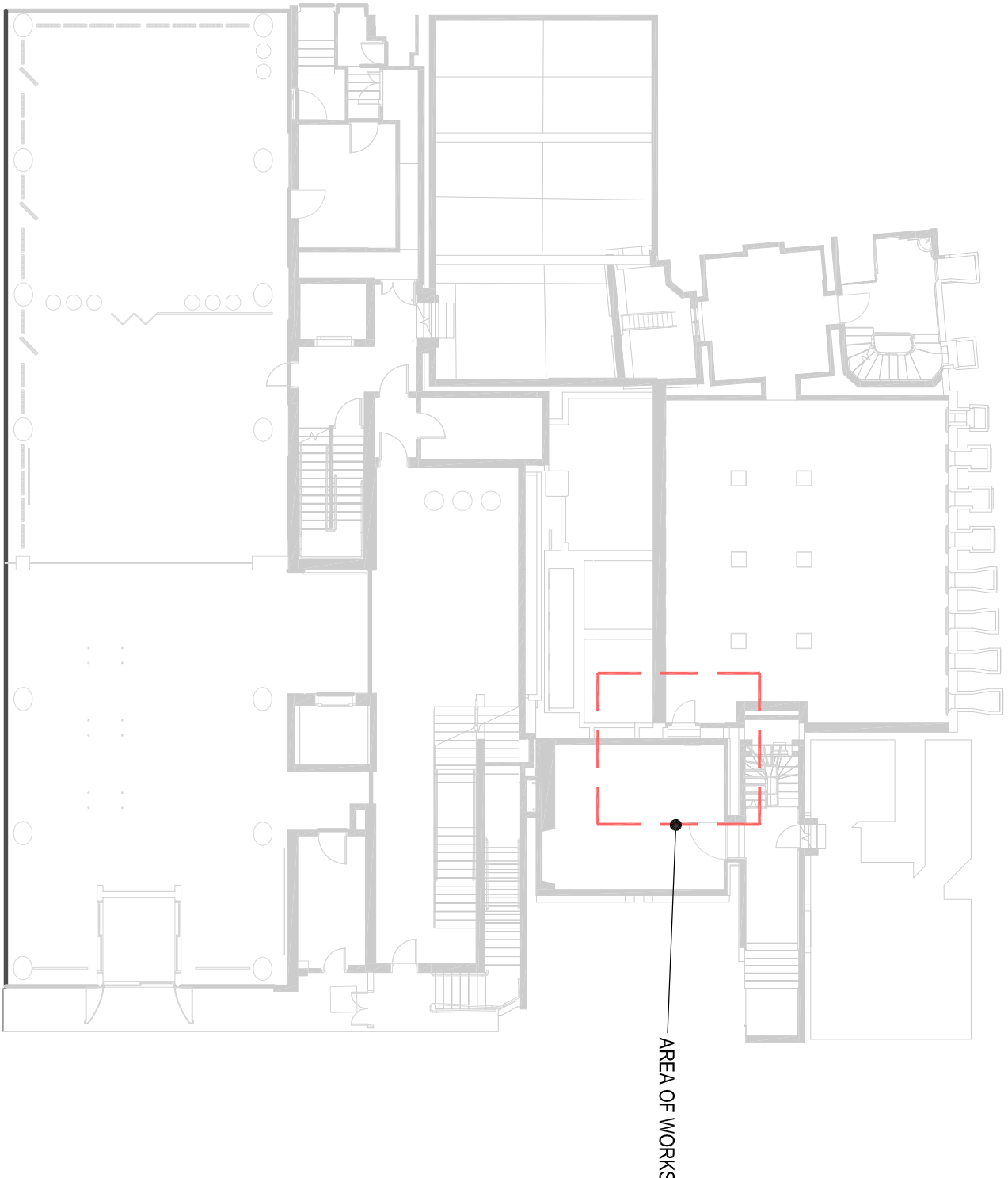
GROUND FLOOR GA - ZONE A
(SCALE 1:50)



FIRST FLOOR GA - ZONE A
(SCALE 1:50)



TYPICAL SECTION THRO' NEW
SERVICES OPENING IN FLOOR SLAB
(SCALE 1:10)



AREA OF WORKS