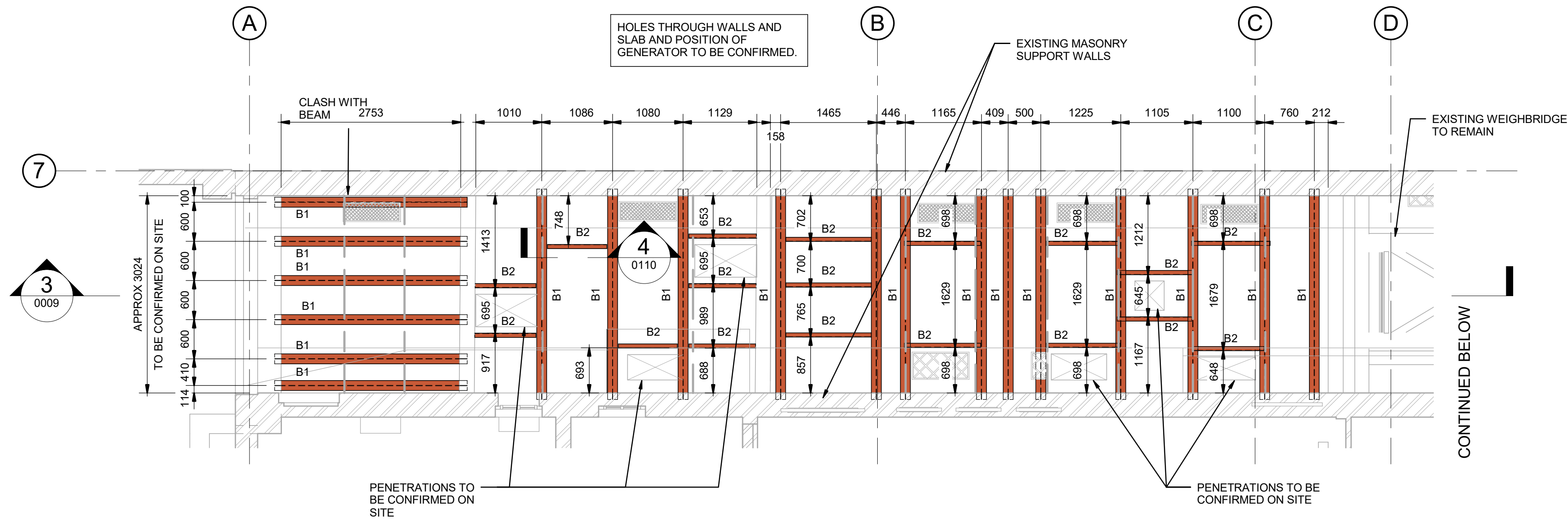


100
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Millimetres

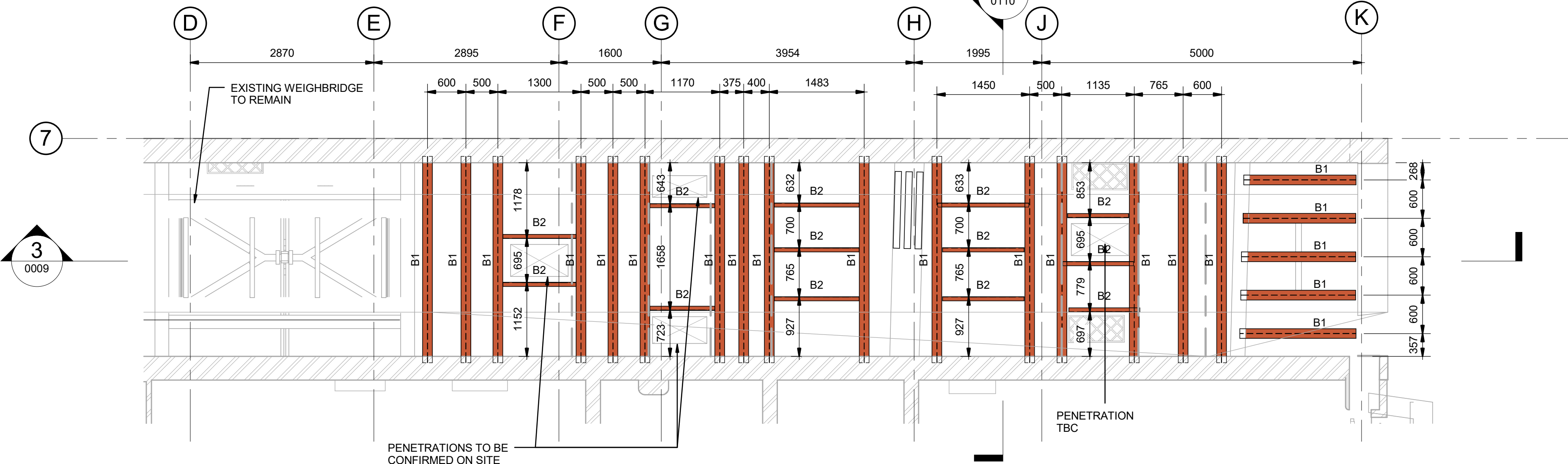


1 GINNEL FLOOR PLAN (1 OF 2)
SCALE 1 : 50

ALL SETTING OUT DIMENSIONS TO BE CONFIRMED ON SITE BEFORE FABRICATION COMMENCES

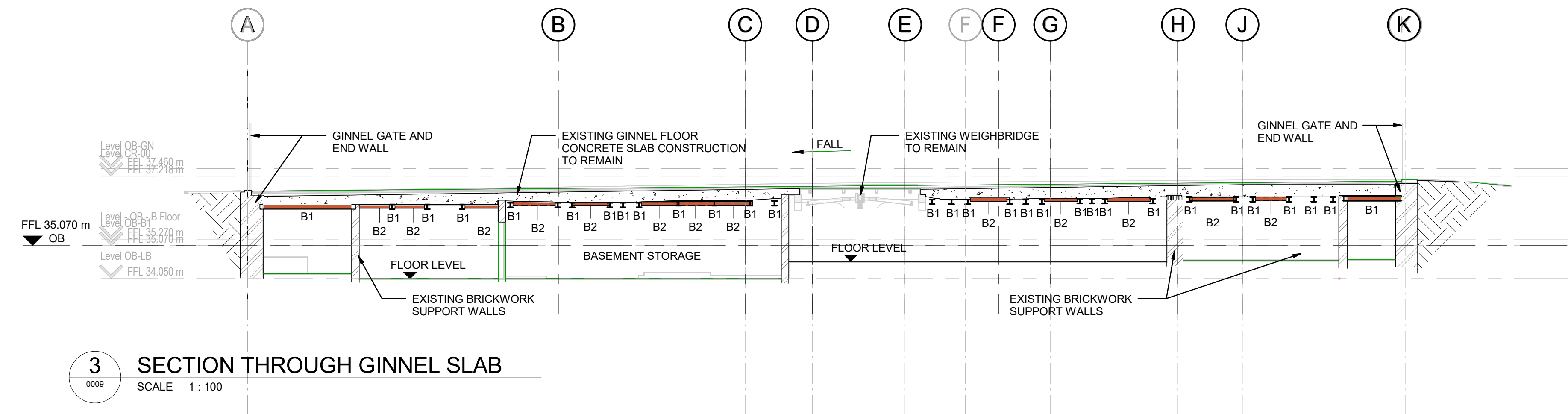
STRUCTURAL FRAMING SCHEDULE	
REF	SIZE
B1	UC152x152x23
B2	PFC125x65x15

ALL STEELWORK TO BE SHOT BLASTED TO SA 21/2, CHEMICALLY CLEANED AND GALVANISED TO A MINIMUM COATING THICKNESS OF 85 MICRONS. ALL FIXINGS TO BE GALVANISED. NO SITE WELDING ALLOWED.



2 GINNEL FLOOR PLAN (2 OF 2)
SCALE 1 : 50

! DURING INSTALLATION OF NEW BEAMS TEMPORARY PROPPING IS REQUIRED TO SUPPORT FLOOR AREA ABOVE NEW BEAM.



3 SECTION THROUGH GINNEL SLAB
SCALE 1 : 100

DO NOT SCALE

STRUCTURAL STEELWORK NOTES

- ALL STRUCTURAL STEELWORK SHALL BE IN ACCORDANCE WITH BS EN1993, BS EN 10025 AND/OR BS EN 10210 AND NATIONAL STRUCTURAL STEELWORK SPECIFICATION (N3SS) FOR BUILDING CONSTRUCTION 5TH EDITION CE MARKING VERSION.
- ALL STEEL TO BE GRADE S355 U.N.O.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL STEELWORK CONNECTIONS.
- UNLESS NOTED OTHERWISE, ALL FILLET WELDS SHALL HAVE A MINIMUM 6mm LEG LENGTH. TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE SPECIFICATION. WELD SYMBOLS ARE TO BS 499. ALL WELDS SHALL BE FULL PROFILE, UNLESS NOTED OTHERWISE.
- ALL WELDS ON ANY VISIBLE STEELWORK TO BE FULL PENETRATION BUTT WELDS, GROUND FLUSH IN ACCORDANCE WITH THE ARCHITECT'S REQUIREMENTS, BUT NOT TO THE DETRIMENT OF THE WELD STRENGTH.
- STEELWORK SHALL BE PROTECTED/PAINTED IN ACCORDANCE WITH THE SPECIFICATION AND AS STATED ON THE RELEVANT DRAWING.
- ALL BOLTS TO BE GRADE 8.8. MINIMUM 16mm DIAMETER WITH A MINIMUM OF TWO BOLTS PER CONNECTION AND SHERADISED TO BS 4921, CLASS 1, UNLESS NOTED OTHERWISE. BOLTS TO BE PAINTED ON SITE WITH COMPATIBLE PAINT SYSTEM.
- ALL HOLDING DOWN BOLTS AND BOLTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- HOLDING DOWN BOLTS TO BE IN ACCORDANCE WITH BS 7419 AND GRADE 8.8 U.N.O.
- ALL END PLATES/CAPPING PLATES ARE TO BE FILET WELDED OR F.S.B.W. TO RHS/SHS/CHS WITH PLATE EDGES PREPARED.
- ALL CAPPING PLATES TO BE PROFILED TO THE SHAPE OF SECTION.
- ALL END PLATES TO BE A LAMINAR-FREE MATERIAL WHERE THE THICKNESS OF THE PLATE IS IN DIRECT TENSION.
- ALL HOLLOW MEMBERS SHALL, UNLESS NOTED OTHERWISE, BE SEALED AT EACH END WITH A 6mm CAP PLATE CONNECTED BY FILLET WELD.
- AT BEAM TO COLUMN CONNECTIONS, THE CENTRELINE OF THE COLUMN SHALL COINCIDE WITH THE CENTRELINE OF THE BEAM UNLESS NOTED OTHERWISE.
- BEAM CONNECTIONS ARE TO BE LOCATED NO GREATER THAN 30mm ABOVE TOP OF COLUMNS. THE PROJECTION OF BEAM CONNECTION PLATES BEYOND THE BEAMS EXTREMITIES SHOULD BE KEPT TO A MINIMUM.
- FOR BRACING MEMBERS AND LATTICE GIRDER MEMBERS, NO ECCENTRICITY OF THE MEMBER CENTROIDAL AXES MEETING AT A NODE SHALL BE ALLOWED, UNLESS SHOWN OTHERWISE ON THE DRAWING.
- FIXINGS TO STRUCTURAL STEELWORK TO BE TO AN AGREED METHOD. SUB-CONTRACTORS SHALL SUPPLY DETAILS TO THE STRUCTURAL ENGINEER FOR COMMENTS.
- GROUT TO BASEPLATES TO BE PROPRIETARY CEMENTITIOUS NON-SHRINK, AND TO ATTAIN A MINIMUM STRENGTH OF 25N/mm² BEFORE WORKING LOADS ARE REALISED. FINAL GROUT STRENGTH TO BE AT LEAST AS STRONG AS THE CONCRETE USED IN THE UNDERLYING FOUNDATION.
- COLUMNS ARE TO BE MACHINE FLAME CUT, SAWN OR PLANED AT CONNECTION TO BASEPLATE. IN ACCORDANCE WITH BS EN 1090-2 BUILDING EXECUTION CLASS = EXC2
- ALL CROSS BRACED PLATS ARE TO BE BOLTED TOGETHER WHERE THEY CROSS WITH MIN 1no M12 GRADE 8.8 BOLT.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

! DURING INSTALLATION OF NEW BEAMS TEMPORARY PROPPING IS REQUIRED TO SUPPORT FLOOR AREA ABOVE NEW BEAM.

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

GENERAL NOTES

- ALL DIMENSIONS IN MILLIMETRES UNO.
- ALL DIMENSIONS TO BE CONFIRMED ON SITE BY THE CONTRACTOR.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS AND ARCHITECTS DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY PROPPING.
- FOR STEELWORK NOTES REFER TO DRAWING No. 5152354-ATK-OB-00-DR-S-0009

REFERENCE DRAWINGS

5152354-ATK-OB-B1-DR-S-0005 BASEMENT PLAN SH 1 OF 4
5152354-ATK-OB-B1-DR-S-0006 BASEMENT PLAN SH 2 OF 4
5152354-ATK-OB-B1-DR-S-0007 BASEMENT PLAN SH 3 OF 4
5152354-ATK-OB-B1-DR-S-0008 BASEMENT PLAN SH 4 OF 4
5152354-ATK-OB-00-DR-S-0110 GINNEL SLAB SUPPORT DETAILS

Rev	Date	Description	By	Chk'd	App'd
C1	13.09.2019	CONSTRUCTION ISSUE	GH	DW	IB

Drawing Status **FOR CONSTRUCTION** Suitability **A**

ATKINS
Chadwick House
Birchwood Park
Warrington, Cheshire
WA3 6AE
United Kingdom
Tel: +44 (0) 1925 238000
Fax: +44 (0) 1925 238500
www.atkinsglobal.com

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Client **Manchester Metropolitan University**

Project Title **ORMOND BUILDING**

Drawing Title **GINNEL SLAB PLAN STEELWORK LAYOUT**

Scale	Designed	Drawn	Checked	Authorised
As indicated	RM	JS	RM	SA
Original Size	Date	Date	Date	Date
A1	JAN 17	JAN 17	JAN 17	JAN 17

Drawing Number **5152354-ATK-OB-00-DR-S-0009** Revision **C1**