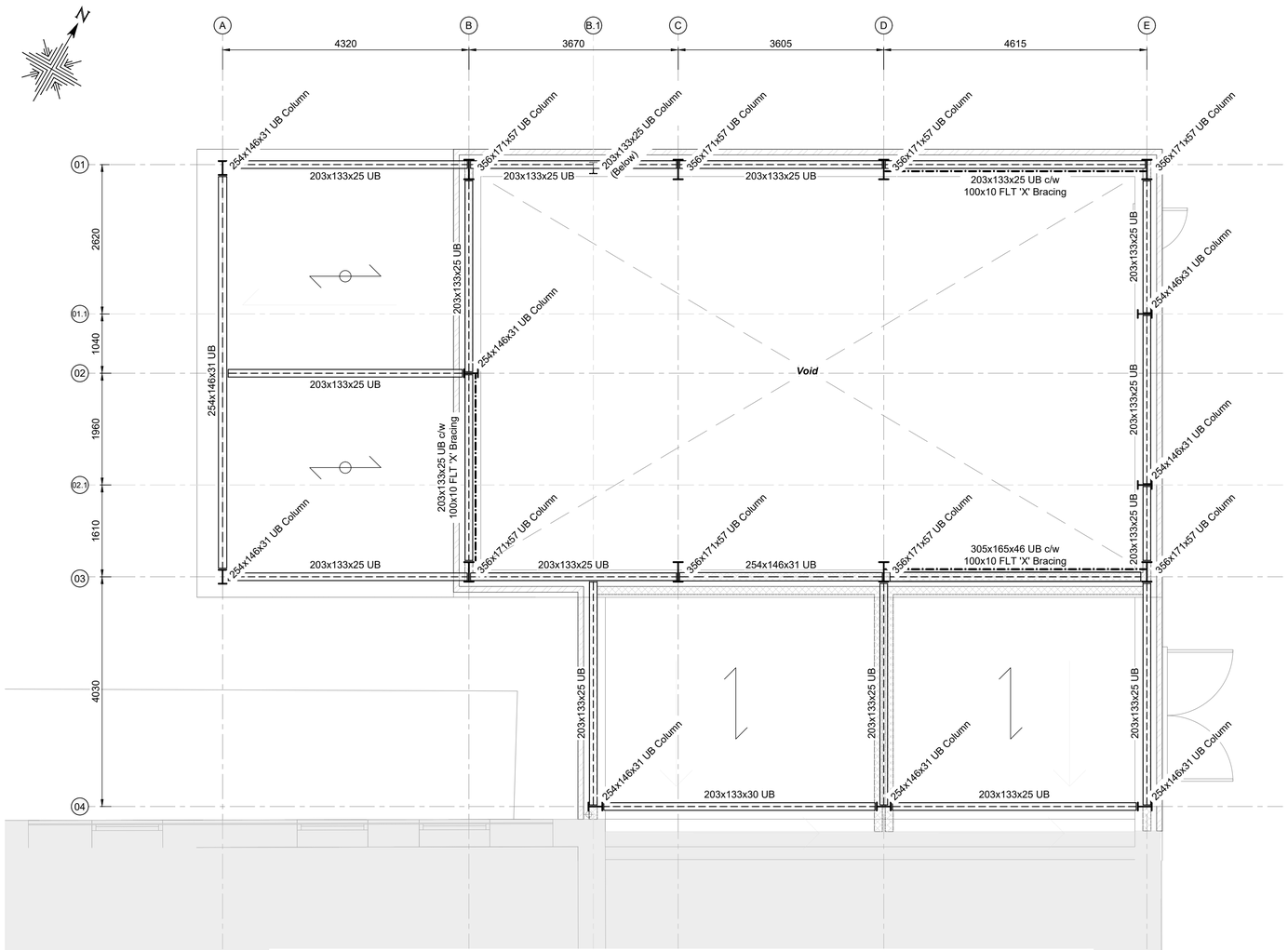
TO BE PRINTED IN COLOUR

A1



Proposed Extension Generator - 'Mid Frame' / Lower Level Roof General Arrangement

Scale 1:50

notes :

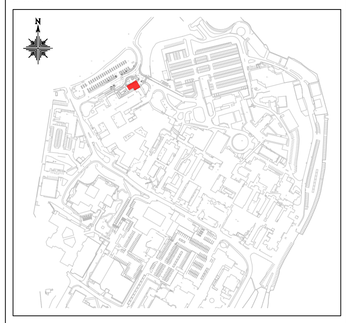
1. IF THIS DRAWING HAS BEEN RECEIVED ELECTRONICALLY IT IS THE RECIPIENTS RESPONSIBILTY TO PRINT THE DOCUMENT TO THE CORRECT SCALE
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. IT IS RECOMMENDED THAT INFORMATION IS NOT SCALED OFF THIS DRAWING
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS
4. ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

Legend

Denotes Span Direction of Proposed 215dp Kinsgspan Composite Metal Deck Slab - MD146 Decking (1.2mm Gauge) c/w 1 No. Layer A393 Mesh (Top). *Power Floated Finish TBC.*

Denotes Span Direction of Proposed Cold Formed Purlins c/w Metal Deck Roof (Mono-Pitched)

KEYPLAN



REV.	DESCRIPTION	DATE	DRW.	CHK.
P1	Preliminary Issue	31.10.22	JF	LDC

MASONRY - GENERAL

1. REFER TO ARCHITECTS DRAWINGS FOR SETTING OUT OF ALL MASONRY WALLS, FIXINGS AND SUPPORT DETAILS.
2. WHERE NOTED INTERNAL WALLS ARE TO BE FORMED WITH 140mm NWC BLOCKWORK WITH A MINIMUM COMPRESSIVE STRENGTH OF 7.3N/mm2.
3. ALL BLOCKWORK TO BE CONSTRUCTED WITH MORTAR TYPE M6 (II) UNO.
4. ALL BLOCKWORK BELOW DPC LEVEL IS TO BE DENSE SOLID BLOCK WITH NO VOIDS AND A MINIMUM COMPRESSIVE STRENGTH OF 7.3N/mm² AND A MAXIMUM WATER ABSORPTION RATE OF 7%.
5. ALL BRICKWORK BELOW DPC LEVEL IS TO BE A MINIMUM COMPRESSIVE STRENGTH OF 27N/mm² AND MAXIMUM WATER ABSORPTION OF 7%.
6. ALL MORTAR BELOW DPC LEVEL IS TO BE 1:3 CEMENT: SAND (GRADE 2). NO ADDITIVES WILL BE PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE ENGINEER.
7. ALL BRICKWORK ABOVE DPC LEVEL IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 27.0N/mm² AND A MAXIMUM ABSORPTION RATE OF 12%, UNO.
8. ALL BLOCKWORK ABOVE DPC LEVEL IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7.3N/mm², UNO.
9. VERTICAL MOVEMENT JOINTS SHOULD BE PROVIDED IN CLAY MASONRY WALLS AT MAXIMUM 12m c/c.
10. VERTICAL MOVEMENT JOINTS SHOULD BE PROVIDED IN CONCRETE BLOCK WALLS AT MAXIMUM 6m c/c.
11. MOVEMENT JOINT LOCATIONS AND SPACINGS SHOULD BE CONFIRMED BY THE SUB-CONTRACTOR TO ENSURE JOINT SPACING AND LAYOUT SHOWN IS SUITABLE WITH THE BLOCK TYPE USED. FINAL DESIGN OF THE JOINT SPACING IS THE RESPONSIBILITY OF THE SUB-CONTRACTOR.
12. REFER TO ARCHITECTS DRAWINGS FOR SETTING OUT OF ALL MASONRY WALLS.
13. REFER TO THE ARCHITECTS DRAWINGS FOR FINAL DETAILS AND LOCATIONS OF MASONRY TIES, FIXINGS, SUPPORT DETAILS, HEAD RESTRAINTS AND MOVEMENT JOINTS.
14. WHERE SINGLE LEAF BLOCKWORK WALLS ARE SHOWN BY THE ARCHITECT, ALLOW FOR PROPRIETARY COLD ROLLED WINDPOSTS AT 3.5m MAX c/c. ANCON WP2 150x70x6 OR EQUAL APPROVED.
15. ALL WALL TIES TO BE STAINLESS STEEL AND SHALL BE IN ACCORDANCE WITH BS.1243 OR MEET WITH THE REQUIREMENTS OF DD140 PART 2.
16. WALL TIES TO BE AT 450mm VERTICAL AND 900mm HORIZONTAL CENTRES. AROUND OPENINGS AND VERTICAL UN-BONDED OR RETURNED EDGES, TIES SHALL BE PROVIDED AT 225mm VERTICAL CENTRES AND WITHIN 225mm OF THE EDGE.
17. ALL MASONRY WALLS ARE TO HAVE A VERTICALLY SLOTTED HEAD RESTRAINT TO THE FULL LENGTH OF THE WALL. UNO THE FOLLOWING STANDARD DETAIL SHOULD BE ADOPTED: ANCON IHR-B OR EQUAL APPROVED @ 450mm c/c.
18. MASONRY TIES BETWEEN THE MASONRY AND ANY RESTRAINING WINDPOSTS OR RC STRUCTURE SHOULD BE PROVIDED AT 225mm VERTICAL CENTRES.
19. THE FINAL SELECTION OF ALL PROPRIETARY MASONRY RESTRAINT PRODUCTS SPECIFIED ON THE CCS CONSULTING DRAWINGS IS THE RESPONSIBILITY OF THE MASONRY SUB-CONTRACTOR BASED ON THE MANUFACTURER/SUPPLIER SELECTED AND THE APPROPRIATE DESIGN LOADING.
20. MINIMUM BEARING OF OTHER STRUCTURAL ELEMENTS ONTO MASONRY TO BE (UNLESS NOTED OTHERWISE) :-

STEEL	100mm
PRECAST UNITS	90mm
TIMBER	70mm

21. CONCRETE PADSTONES WHERE SHOWN ARE TO BE A MINIMUM 440mm LONG x 215mm DEEP UNLESS NOTED OTHERWISE. ALL PADSTONES TO STEEL BEAMS SHOULD COME COMPLETE WITH 2No. M16 DIAMETER RAGE BOLTS FOR POSITIVE CONNECTION.

STEELWORK - GENERAL

1. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS, SPECIFICATIONS.
2. ALL MATERIALS, FABRICATION AND ERECTION TO CONFORM WITH THE CURRENT EDITION OF THE BCSA PUBLICATION ENTITLED 'NATIONAL STRUCTURAL STEELWORK SPECIFICATION FOR BUILDING CONSTRUCTION'.
3. ALL STEELWORK TO BE FABRICATED AND INSTALLED TO RELEVANT BRITISH STANDARDS, EUROCODES AND QUALITY ASSURANCE DOCUMENTS.
4. ALL STEELWORK TO BE GRADE S355 TO BS EN 10 025 AND FABRICATED IN ACCORDANCE WITH BS5950 UNO.
5. ACTUAL SERIAL SIZES OF SECTIONS ARE SHOWN BUT THEY DO NOT TAKE INTO ACCOUNT ROLLING TOLERANCES.
6. ALL STEELWORK WHICH IS TO BE ENCLOSED WITHIN CAVITIES IS TO BE PAINTED WITH TWO COATS OF 2 PACK HIGH BUILD COAL TAR EPOXY BY GENERAL CONTRACTOR. MINIMUM DFT 125 MICRONS PER COAT.
7. FABRICATION DRAWINGS TO BE SUBMITTED IN GOOD TIME TO THE ENGINEER AND ARCHITECT FOR INSPECTION PRIOR TO COMMENCEMENT OF FABRICATION WORKS. COMMENTS WILL BE PROVIDED BY THE ENGINEER, HOWEVER THE STEELWORK CONTRACTOR IS RESPONSIBLE FOR QUALITY CONTROL AND ACCURACY OF THE FABRICATION/ INSTALLATION DRAWINGS.
8. WHERE SPECIFIED, BRICKWORK RESTRAINTS TO HAVE SLOTTED HOLES IN END CONNECTIONS TO ALLOW VERTICAL MOVEMENT. TOLERANCE OF MOVEMENT TO BE BETWEEN -0mm AND +75mm.
9. AFTER THE STEELWORK HAS BEEN LINED, LEVELED AND PLUMBED BY THE STEELWORK CONTRACTOR THE GENERAL CONTRACTOR IS TO GROUT THE STEELWORK BASES IN ACCORDANCE WITH ALL RELEVANT CODES OF PRACTICE.
10. THE MAIN CONTRACTOR IS RESPONSIBLE FOR SETTING OUT AND CHECKING OF ALL EXISTING DIMENSIONS. ANY DISCREPANCIES ARE TO BE NOTIFIED TO THE ENGINEER PRIOR TO MANUFACTURE.
11. STEELWORK TO BE SHOTBLASTED TO SA2.5 AND PAINTED WITH 1 COAT 2 PACK HIGH BUILD EPOXY ZINC PHOSPHATE PRIMER GREY. MINIMUM DFT 100 MICRONS.
12. STEELWORK ENCASED IN CONCRETE IS TO BE COMMERCIALLY SHOT BLASTED AND IS TO REMAIN UNPAINTED.
13. STEELWORK CONTRACTOR TO INCLUDE FOR WIRE BRUSHING ANY DAMAGED AREAS OF STEEL BACK TO BRIGHT METAL. FEATHER EDGES OF DAMAGED PAINTWORK AND MAKE GOOD WITH 2 PACK HIGH BUILD ZINC PHOSPHATE PRIMER GREY, MINIMUM DFT 100 MICRONS.
14. ALL SUSPENDED FLOOR SLAB STEELWORK TO BE COATED USING MAGNELIS COATING SPECIFICATION AS PER CONTRACTORS REQUIREMENTS. COATING TO BE APPLIED FOLLOWING MANUFACTURES SPECIFICATION & GUIDANCE.
15. ALL EXPOSED STEELWORK TO BE HOT DIP GALVANISED TO EN 150 1461. MINIMUM DFT 85 MICRONS.
16. ALL WELDING TO BE A MINIMUM OF 6mm CONTINUOUS FILLET WELD WHERE POSSIBLE U.N.O.
14. ALL STEELWORK CONNECTION DESIGN & DETAILING TO BE THE RESPONSIBILITY OF THE STEELWORK FABRICATOR. FABRICATION DRAWINGS TO BE SUBMITTED IN GOOD TIME TO THE ENGINEER FOR COMMENTS FOR INSPECTION PRIOR TO COMMENCEMENT OF FABRICATION WORKS.
15. MINIMUM BEARING OF OTHER STRUCTURAL ELEMENTS ONTO STEEL TO BE (UNLESS NOTED OTHERWISE) :-

PRECAST UNITS	75mm
TIMBER	70mm

Preliminary Issue - For Discussion Purposes Only

NHS
Manchester University
NHS Foundation Trust

APPOINTED PARTY LOGO/INFORMATION

ccs consulting
MANCHESTER • LONDON • LEEDS

PROJECT
North Manchester General Hospital - Extension Generator

TITLE
Proposed 'Mid Frame'/ Lower Level Roof Plan (Option H)

STATUS	PURPOSE OF ISSUE
S1	For Information

DRAWN BY	CHECKED BY	DATE
JF	LDC	Oct. '22

SCALE (@A1)	PROJECT NUMBER
As Shown	21-2135

FILE DRAWING NUMBER	REV.
212135 - CCS - S1 - 01 - DR - S - 0421	P1