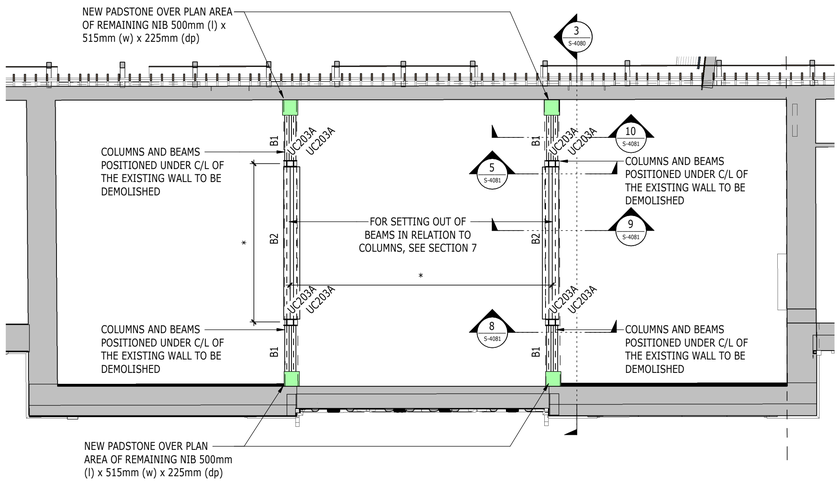
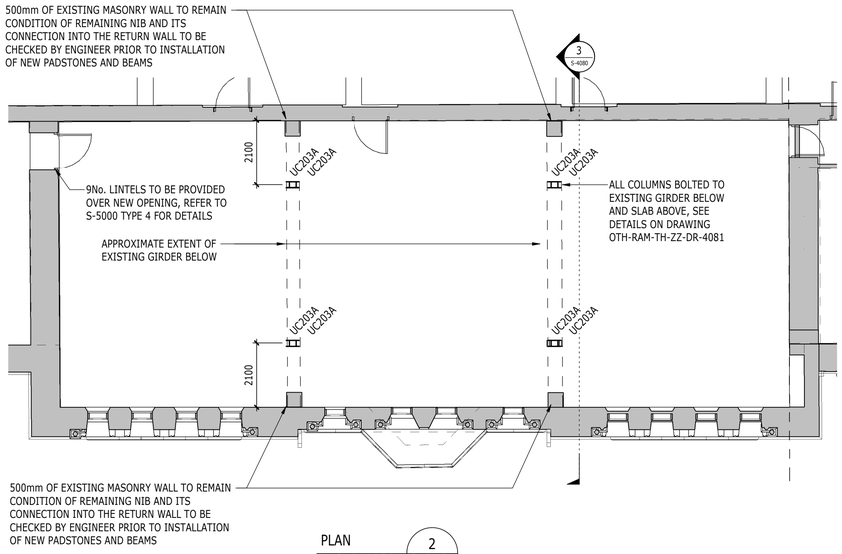


PLAN 1 : 100 — 1 S-4054

LEVEL 04 - JURY COURT (HIGHER LEVEL)

*** FOR SETTING OUT DIMENSIONS FROM EXISTING STRUCTURE REFER TO PURCELL DRAWINGS AND FOR SETTING OUT PRINCIPLES FROM EXISTING STRUCTURES REFER TO PURCELL SETTING OUT PRINCIPLES REPORT.**



PLAN 1 : 100 — 2 S-4054

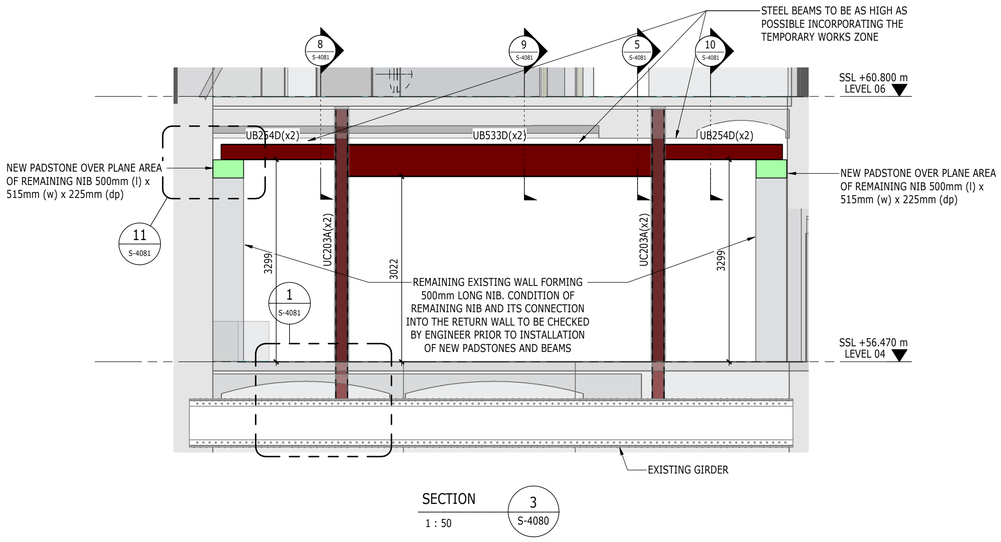
LEVEL 04 - JURY COURT (LOWER LEVEL)

BEAM SUMMARY SCHEDULE				
BEAM REFERENCE	BEAM DETAILS	NEEDLE PROPPING LOADS (SLS)	MEMBER CONNECTION FORCE (ULS)	
			V	F
B1	PAIR OF 254x146x31 UB's. 10mm THICK PLATE TO TOP FLANGE OF BEAMS, FOR BEARING OF WALL/SLAB ABOVE. ALL BEAM END BEARING PLATES TO BE 200mm WIDE, LENGTH AS SHOWN ON PADSTONE DETAILS ON DRAWINGS S-5001	REFER TO S-4081 SECTION 10 FOR PROPPING REQUIREMENTS	285kN	285kN
B2	PAIR OF 533x210x109 UB's. 10mm THICK PLATE TO TOP FLANGE OF BEAMS, FOR BEARING OF WALL/SLAB ABOVE.	REFER TO S-4081 SECTION 10 FOR PROPPING REQUIREMENTS	1000kN	1000kN

V - DENOTES VERTICAL SHEAR FORCE (END REACTION)
F - DENOTES AXIAL FORCE IN MEMBER (TIE FORCE)

CONSTRUCTION SEQUENCE

1. OPEN UP GIRDER AND CONFIRM DIMENSIONS.
2. LOCATE ALL BEAMS/COLUMNS INSITU, BEFORE TEMPORARY PROPPING IS INSTALLED
3. INSTALL TEMPORARY WORKS
4. WHEN TEMPORARY WORKS HAVE ALL BEEN INSTALLED, REMOVE WALL UNDER PROPPING AS DEFINED ON PURCELL DRAWINGS, LEAVING NIBS FOR PADSTONES AT EITHER END.
5. LOCALLY BREAKOUT REMAINING WALL TO SLAB SOFFIT LEVEL IN COLUMN LOCATIONS TO ENABLE COLUMN INSTALLATION
6. LOCALLY BREAKOUT APPROX 500x500 POCKET CUT TO LOCATE TOP OF GIRDER BELOW TO ENABLE COLUMN INSTALLATION
7. INSTALL NEW 200X100 RHS STIFFENER STUB, PACKED TIGHTLY BETWEEN EXISTING IRON FLANGES WITH STEEL SHIMS (1NR EITHER SIDE OF WEB) TO STIFFEN EXISTING GIRDER, INCLUDING GIRDER SEPARATION MEMBRANE BETWEEN DISSIMILAR METALS.
8. INSTALL COLUMNS WITH STEEL SHIMS TO ENSURE EVEN BEARING BETWEEN COLUMN BASE PLATE AND TOP OF EXISTING GIRDER. GIRDER SEPARATION MEMBRANE BETWEEN DISSIMILAR METALS IS REQUIRED. *CAPTIVE NUTS ARE TO BE WELDED TO COLUMNS PRIOR TO INSTALLATION.*
9. REINSTATE SLAB WITH MASS CONCRETE DOWELLED INTO SURROUNDING SLAB
10. GROUT BETWEEN TOP OF HEAD PLATE AND UNDERSIDE OF EXISTING SLAB PROFILE TO ENSURE LOAD TRANSFER. DRY PACK BETWEEN COLUMN AND UNDERSIDE OF WALL
11. INSTALL CENTRE-SPAN STEEL BEAMS TO UNDERSIDE OF REMAINING EXISTING STRUCTURE. *BEAM 1 (THE CONCENTRIC BEAM) IS TO BE INSTALLED FIRST TO GIVE ACCESS TO ALL BOLTS, THEN BEAM 2 (THE ECCENTRIC BEAM). UC152A STUBS ARE TO BE WELDED TO BEAM 1 AND CAPTIVE NUTS ARE TO BE WELDED TO THE BEAM 2 END PLATES PRIOR TO INSTALLATION.*
12. BREAKOUT AT THE TOP OF THE NIBS BACK TO THE FACE OF THE WALL CONTRACTOR TO CONFIRM THAT REMAINING NIB/CROSS WALL IS CROSS-BONDED INTO ROOM PERIMETER WALL AND REPORT TO ENGINEER
13. MAKE GOOD NIBS UP TO PADSTONE LEVEL
14. INSTALL PADSTONES, BEARING PLATES AND END-SPAN STEEL BEAMS AS HIGH AS POSSIBLE INCORPORATING THE TEMPORARY WORKS ZONE. *BEAM 1 IS TO BE INSTALLED FIRST TO GIVE ACCESS TO ALL BOLTS, THEN BEAM 2.*
15. REINSTATE MASONRY REMOVED TO ALLOW FOR BEAM INSTALLATION AND PACK TIGHTLY AROUND NEW BEAM WITH MORTAR
16. DRY PACK BETWEEN TOP OF STEEL AND WALL TO ENSURE EVEN BEARING
17. REMOVE NEEDLES AND MAKE GOOD WALL



SECTION 1 : 50 — 3 S-4080

HEALTH & SAFETY INFORMATION (JURY COURT PACKAGE)

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING HEALTH & SAFETY HAZARDS WHICH ARE TO BE READ IN CONJUNCTION WITH THE RAMBOLL CDM RISK ASSESSMENT OTH-RAM-TH-XX-RSK-S-0002

- WORKING IN RESTRICTED SPACES (LIMITING MANOEUVRABILITY OF PLANT AND MATERIALS)
- LIMITED ACCESS (DOOR WIDTHS)
- EXISTING STRUCTURAL ARRANGEMENT ONCE FINISHES STRIPPED, BEING DIFFERENT THAN SHOWN ON DRAWINGS
- EXISTING FLOOR LOADING RESTRICTIONS (2.5kN/m² SUSPENDED FLOORS IN ROOMS, 4.0kN/m² SUSPENDED FLOORS IN CORRIDORS/STAIR)

Scale Bars to be used as guidance only - refer to sheet size below

1:100	mm	1000	3000	5000	7000		
1:200	mm	5000	8000	12000	16000		
1:500	M	5	15	25	35		
1:1250	M	10	30	50	70	90	

NOTES

1. FOR GENERAL NOTES, SEE DRAWING S-00010
2. FOR STEEL AND PADSTONE REFERENCES, SEE SCHEDULES ON DRAWINGS S-00015/S-00016
3. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTS DRAWINGS AND M&E ENGINEERS DRAWINGS
4. DRAWING TO BE READ IN CONJUNCTION WITH STRUCTURAL SPECIFICATION
5. ALL LEVELS AND SETTING OUT TO BE CONFIRMED BY ARCHITECT
6. ALL REINFORCED CONCRETE TO BE C30/37 UNO.
7. ALL CONCRETE BLINDING TO BE GEN 1 AND BULK MASS FILL TO BE GEN 3 UNO
8. ALL REINFORCEMENT TO BE GRADE 500 TO BS4449
9. STEELWORK:
   INTERNAL: GENERAL SECTIONS AND PLATES S275JR, HOLLOW SECTIONS S355JRH
   EXTERNAL: GENERAL SECTIONS AND PLATES S275J0, HOLLOW SECTIONS S355J0H
   ALL EXTERNAL STEELWORK TO BE GALVANISED. ALL INTERNAL STEELWORK TO BE PAINTED, AND SUITABLE FOR ENVIRONMENT CATEGORY C2, UNO (SEE STRUCTURAL SPECIFICATION)
10. REFER TO RAMBOLL BWIC SCHEDULE OTH-RAM-TH-ZZ-SCH-S-1000 & S-1001 FOR WHERE BWIC ARE APPLIED.
11. FOR MASONRY NOTES, SEE DRAWING S-0010
12. FOR NEW LINTEL DETAILS, REFER TO LINTEL SCHEDULE OTH-RAM-TH-ZZ-SCH-S-1000 & 1001

KEY

DENOTES LOCATION OF PADSTONE. REFER TO DRAWING S-0015 FOR SIZES. STEEL BEAMS FIXED INTO PADSTONES WITH PAIR OF M16 CAST IN BOLTS, UNLESS NOTED OTHERWISE

SPLICING
IF STEEL SPLICING IS BEING CONSIDERED BY THE FABRICATOR AS PART OF THE DETAIL DESIGN, THEN LOCATIONS TO BE PROPOSED BY FABRICATOR TO ALLOW RAMBOLL TO PROVIDE CONNECTION LOADS AT EACH INSTANCE. THE CONNECTION DESIGN IS THE RESPONSIBILITY OF THE FABRICATOR.

PROPPING LOADS
TEMPORARY WORKS PROPPING LOADS GIVEN INCLUDE AN ALLOWANCE FOR AN IMPOSED CONSTRUCTION LOADING OF 1.5kN/m² (**NOT** FULL FLOOR DESIGN IMPOSED LOADS).

ISSUE	DATE	APPROVED	DRAWN	DESCRIPTION
C01	18/12/ 2020	PM	JP	STAGE 5 CONSTRUCTION ISSUE
T02	14/02/ 2020	PM	JP	GENERAL NOTES UPDATE, AS CLOUDED
T01	30/08/ 2019	PM	JP	STAGE 4 ISSUE

OUR TOWN HALL PROJECT
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PROJECT STATUS	STAGE 5
CLIENT	MANCHESTER CITY COUNCIL
PROJECT	OUR TOWN HALL PROJECT
DRAWING TITLE	JURY COURT
SIZE & SCALE	A1: VARIES
DRAWING STATUS	S4 - CONSTRUCTION
JOB NUMBER	1620003165
DRAWING NO.	OTH-RAM-TH-04-DWG-S-4080
REV	C01