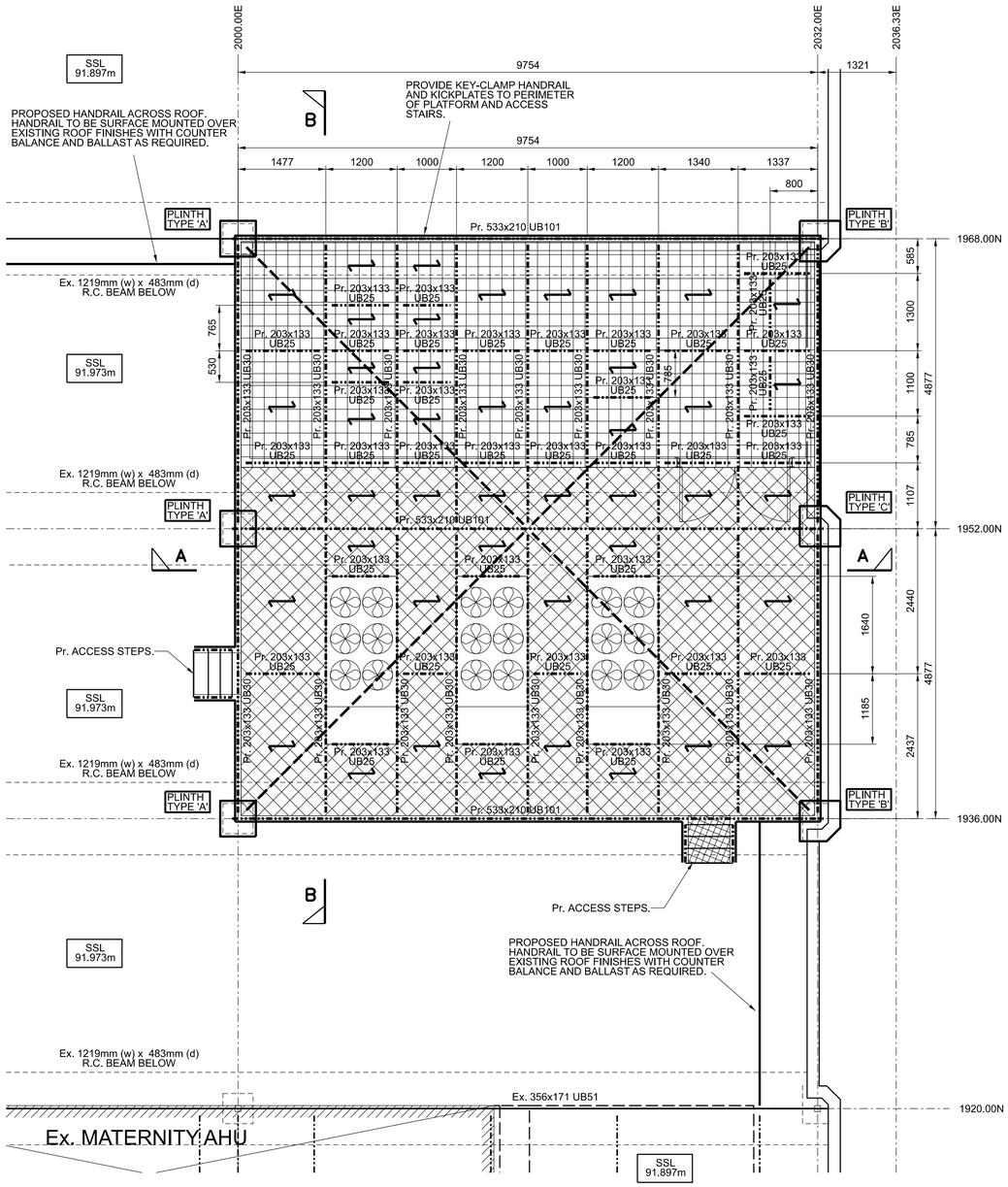
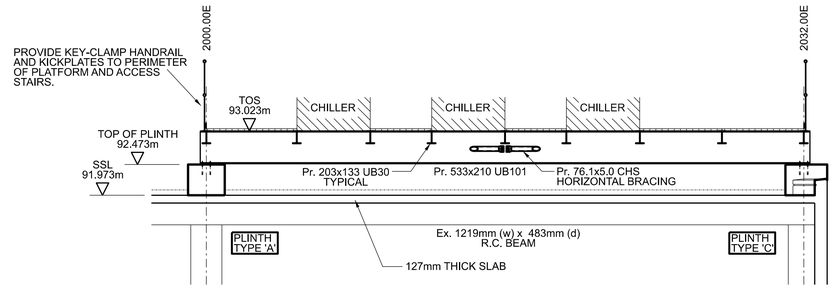
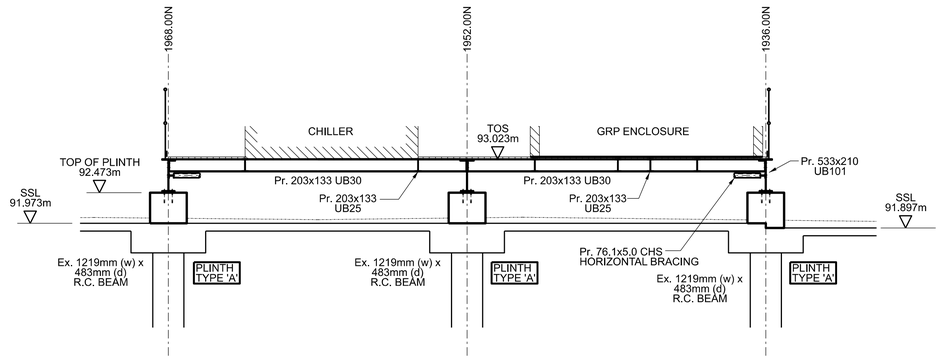




SECTION A - A



SECTION B - B

STEELWORK NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL THE RELEVANT CIVIL, STRUCTURAL, ARCHITECTURAL AND M&E DRAWINGS AND SPECIFICATIONS.
2. ALL STRUCTURAL STEELWORK AND WORKMANSHIP TO BE IN ACCORDANCE WITH BS5950.
3. ALL STRUCTURAL STEELWORK SHALL BE:
   GENERAL SECTIONS - GRADE S355JO TO BS EN10025
   HOLLOW SECTIONS - GRADE S355JOH TO BS EN10210
4. ALL BOLTS, NUTS AND WASHERS TO BE GRADE 8.8 AND SHALL COMPLY WITH: -
   BOLTS TO BS EN ISO4017
   WASHERS TO BS EN ISO4032
   NUTS TO BS EN ISO7091
5. ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS (AND/OR FULL PENETRATION BUTT WELDS) MINIMUM, UNLESS NOTED OTHERWISE
6. CENTROIDAL AXIS OF COLUMN, BEAM AND/OR BRACING MEMBERS TO BE CENTRED ON GRIDLINES, UNLESS NOTED OTHERWISE.
7. CENTROIDAL AXIS OF INTERSECTING COLUMN, BEAM AND/OR BRACING MEMBERS TO BE COINCIDENT AT CONNECTING NODES, UNLESS NOTED OTHERWISE.
   VERTICAL BRACING ELEMENTS AND ASSOCIATED CONNECTION DETAILS SHALL NOT EXTEND BELOW STRUCTRAL SLAB LEVEL (SSL).
8. DIMENSIONS ARE TO CENTRELINE OF COLUMNS AND BEAMS, UNLESS NOTED OTHERWISE.
9. LEVELS REFER TO TOP OF STEEL (TOS), UNLESS NOTED OTHERWISE.
10. CONTRACTOR TO PREPARE STEEL FABRICATION DRAWINGS FOR REVIEW BY W&A PRIOR TO THE FABRICATION OF ANY STEELWORK.
11. CONTRACTOR TO DESIGN AND FABRICATE ALL STEELWORK CONNECTIONS IN ACCORDANCE WITH THE SPECIFICATION.
12. CROSS-BRACING CONNECTIONS TO TO COMPRISE 2no. M16 BOLTS (GRADE 8.8) THROUGH 10mm THICK CONNECTION PLATES, UNLESS NOTED OTHERWISE.
13. ALL OTHER BOLTED CONNECTIONS TO COMPRISE 4no. M16 BOLTS (GRADE 8.8) THROUGH 10mm THICK CONNECTION PLATES, UNLESS NOTED OTHERWISE. BOLT CONNECTIONS THROUGH COATED STEEL MEMBERS TO HAVE WASHERS UNDER HEAD AND NUT.
14. MINUMUM PLATE THICKNESS TO BE 10mm UNO.
15. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM SHEAR LOAD OF 30kN (FACTORED), UNLESS NOTED OTHERWISE. WHERE FIGURES ARE SHOWN AT THE ENDS OF MEMBERS, THEY INDICATE DESIGN RECTION AND AXIAL LOAD IN kN (FACTORED) AND DESIGN MOMENTS IN kNm (FACTORED) AND ARE INDICATED THUS:
    M=BENDING MOMENTS (+ OR -)
    V=SHEAR (+ OR -)
    A=AXIAL LOAD (+ OR -)
    ALL MEMBER FORCES ARE ULTIMATE (FACTORED) LOADS
16. BEAM BEARINGS ON PLINTHS TO BE DESIGNED FOR A FACTORED DOWNWARD LOAD OF 90kN.
17. ALL DRYPACK/GROUT UNDER BASE PLATES SHALL BE 'SikaGrout 212', OR SIMILAR APPROVED, MIXED AND INSTALLED IN ACCORANCE WITH THE MANUACTURERS RECOMMENDATIONS.
18. ALL EXPOSED STEELWORK TO BE HOT DIP GALVANISED.
19. ALL STRUCTURAL STEELWORK TO COMPLY WITH THE NATIONAL STRUCTURAL STEELWORK SPECIFICATION. ALL EXPOSED INTERNAL STEELWORK SHALL BE SITE PAINTED WITH FINISHING COATS BY MAIN CONTRACTOR IN ACCORDANCE WITH THE ARCHITECTS SPECIFICATIONS. WHERE AN INTUMESCENT PAINT IS REQUIRED, COMPATIBILITY OF THE PRIMER PROPOSED BY THE FABRICATOR SHALL BE AGREED BETWEEN THE ARCHITECT AND THE FABRICATOR.
20. THE STEELWORK CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY OF THE STRUCTURE DURING ALL STAGES OF ERECTION.

CONCRETE NOTES

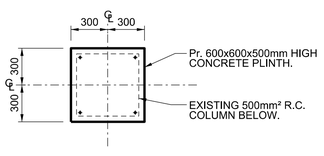
PADSTONES TO BE C30 CONCRETE, CONNECTED TO BEAMS WITH 4No. H12 DOWEL BARS.

DENOTES ORIENTATION OF SPAN OF LIONWELD SAFEDECK 35x5 (41/100) PLAIN GALVINISED WITH 3mm DURBAR PLATE SURFACE.

DENOTES ORIENTATION OF SPAN OF LIONWELD SAFEGRID 35x5 (41/100) PLAIN GALVINISED.

DENOTES Pr. HORIZONTAL BRACING ALL BRACING TO BE 76.1x5.0 CHS.

PLATFORM DESIGNED FOR IMPOSED LOAD = 5 KPa.



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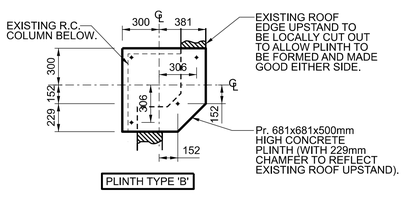

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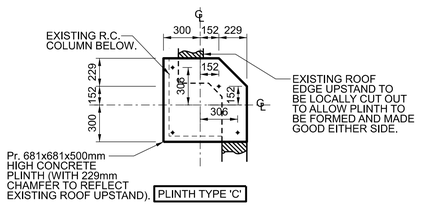

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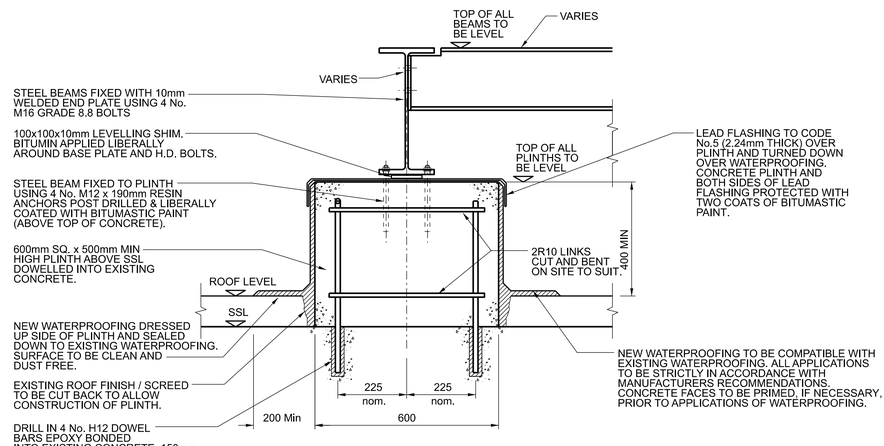

TYPICAL PLINTH TYPE 1 DETAIL

SCALE 1:10

Rev:	Date:	Description:	Initials:
P1	11/04/2022	PRELIMINARY ISSUE.	CGM

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Client :
ROYAL FREE LONDON NHS FOUNDATION TRUST

Project :
ROYAL FREE HOSPITAL IMAGING REPLACEMENT

Drawing Title :
NEW PLANT PLATFORM

Scales :	1:50 @ A1 UOS		
Originated :	CGM	Date :	MAR 2022
Checked :	W&A	Date :	MAR 2022
Drawing Number :	21-2121-ST-011		
Revisions :	P1	Status :	PRELIMINARY