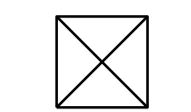

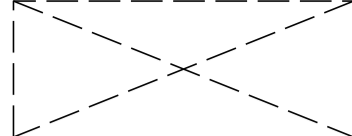
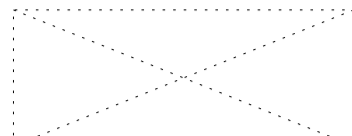
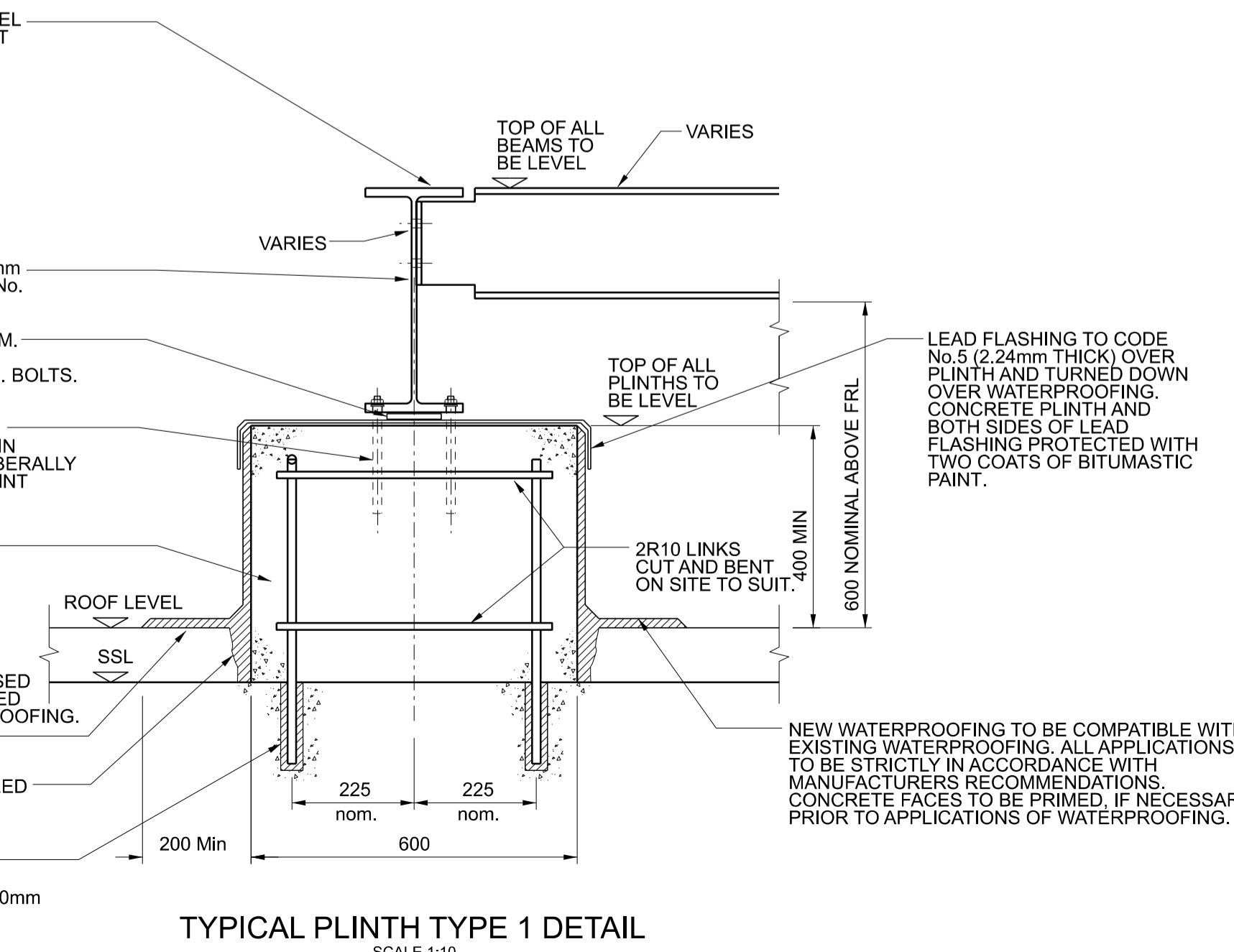
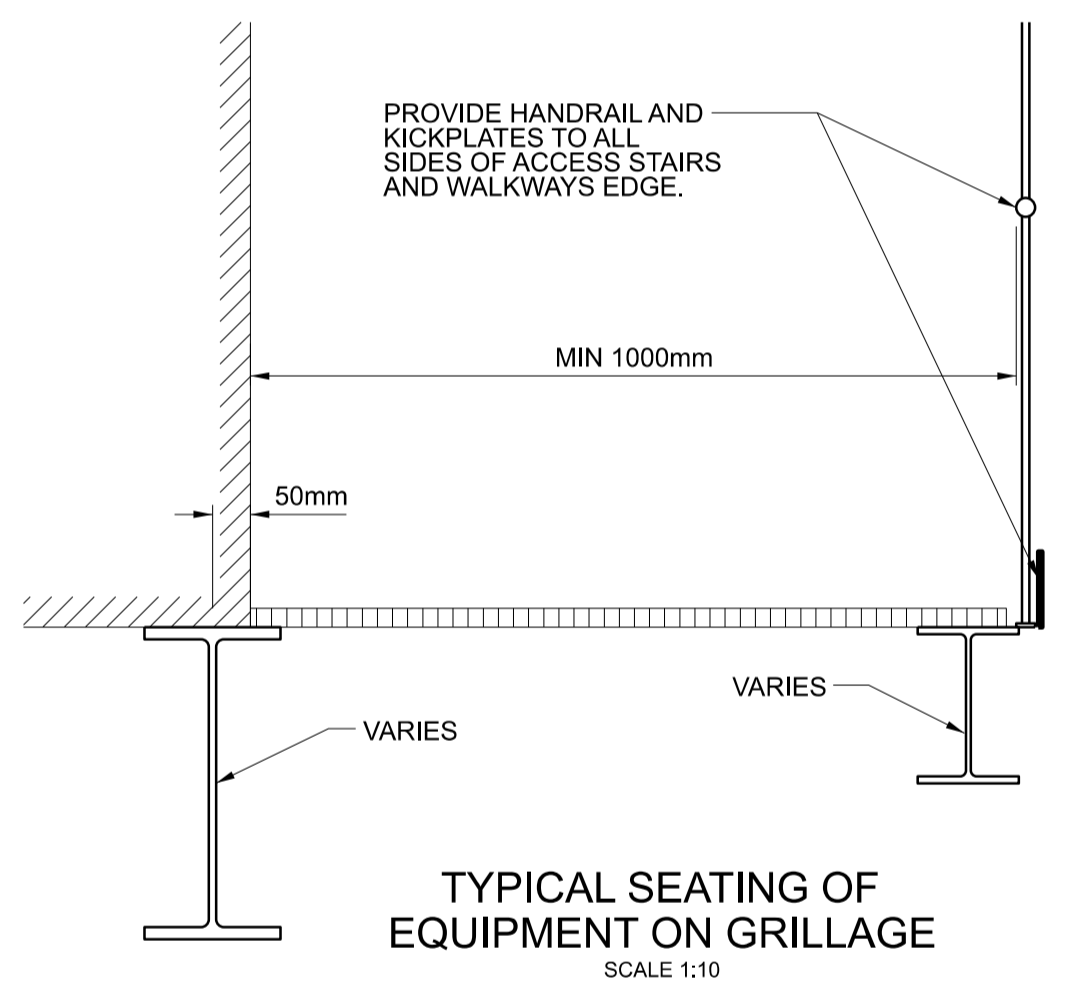
 DENOTES ORIENTATION OF SPAN OF LIONWELD SAFEGRID TYPE E. 35x5 E100 (33/100) PLAIN GALVANISED.
  DENOTES PLINTH TYPE A
  DENOTES POTENTIAL FUTURE PLINTH TYPE A (NOT TO BE CONSTRUCTED UNDER THESE WORKS)

 DENOTES 2250mm (l) x 900mm (w) MODULAR CHILER UNIT.
  DENOTES SPACE FOR POTENTIAL FUTURE DENOTES 2250mm (l) x 900mm (w) MODULAR CHILER UNIT. (NOT TO BE INSTALLED UNDER THESE WORKS)

- ### STEELWORK NOTES
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL THE RELEVANT CIVIL, STRUCTURAL, ARCHITECTURAL AND M&E DRAWINGS AND SPECIFICATIONS.
 - ALL STRUCTURAL STEELWORK AND WORKMANSHIP TO BE IN ACCORDANCE WITH BS5950.
 - ALL STRUCTURAL STEELWORK SHALL BE: GENERAL SECTIONS - GRADE S355JR TO BS EN10025 HOLLOW SECTIONS - GRADE S355JH TO BS EN10210
 - 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 ISO7081
 - ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELDS (AND/OR FULL PENETRATION BUTT WELDS) MINIMUM, UNLESS NOTED OTHERWISE
 - CENTROIDAL AXIS OF 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 STRUCTURAL SLAB LEVEL (SSL).
 - DIMENSIONS ARE TO CENTRELINE OF COLUMNS AND BEAMS, UNLESS NOTED OTHERWISE.
 - LEVELS REFER TO TOP OF STEEL (TOS), UNLESS NOTED OTHERWISE.
 - CONTRACTOR TO PREPARE STEEL FABRICATION DRAWINGS FOR REVIEW BY W&A PRIOR TO THE FABRICATION OF ANY STEELWORK.
 - CONTRACTOR TO DESIGN AND FABRICATE ALL STEELWORK CONNECTIONS IN ACCORDANCE WITH THE SPECIFICATION.
 - CROSS-BRACING CONNECTIONS TO COMPRISE 2no. M16 BOLTS (GRADE 8.8) THROUGH 10mm THICK CONNECTION PLATES, UNLESS NOTED OTHERWISE.
 - 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.
 - MINIMUM PLATE THICKNESS TO BE 10mm UNO.
 - 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
 - BEAM BEARINGS ON PLINTHS TO BE DESIGNED FOR A FACTORED DOWNWARD LOAD OF 90kN.
 - ALL DRYPACK/GROUT UNDER BASE PLATES SHALL BE 'SikaGROUT 212', OR SIMILAR APPROVED, MIXED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
 - ALL EXPOSED STEELWORK TO BE HOT DIP GALVANISED.
 - 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.
 - THE STEELWORK CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY OF THE STRUCTURE DURING ALL STAGES OF ERECTION.



T1	04/10/2019	TENDER ISSUE.	MDG
Rev:	Date:	Description:	Initials:

Client: THE ROYAL FREE NHS FOUNDATION TRUST
 Project: 4TH FLOOR 'H' WEST CHILLER SUPPORT
 Drawing Title: PROPOSED CHILLER FRAME LAYOUT AND DETAILS

Scale: 1:50 @ A1 UOS
 Originated: MDG Date: Sept 2019
 Checked: DW Date: Sept 2019
 Drawing Number: 19-1633-SL-005
 Revisions: T1 Status: TENDER