

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
  - DO NOT SCALE FROM THIS DRAWING OR THE COMPUTER DIGITAL DATA, ONLY FIGURED DIMENSIONS ARE TO BE USED, IF IN DOUBT ASK.
  - WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH ALL RELEVANT AND STATUTORY AUTHORITY REQUIREMENTS, BRITISH STANDARDS, CODES OF PRACTICE AND ASSOCIATED AMENDMENTS.

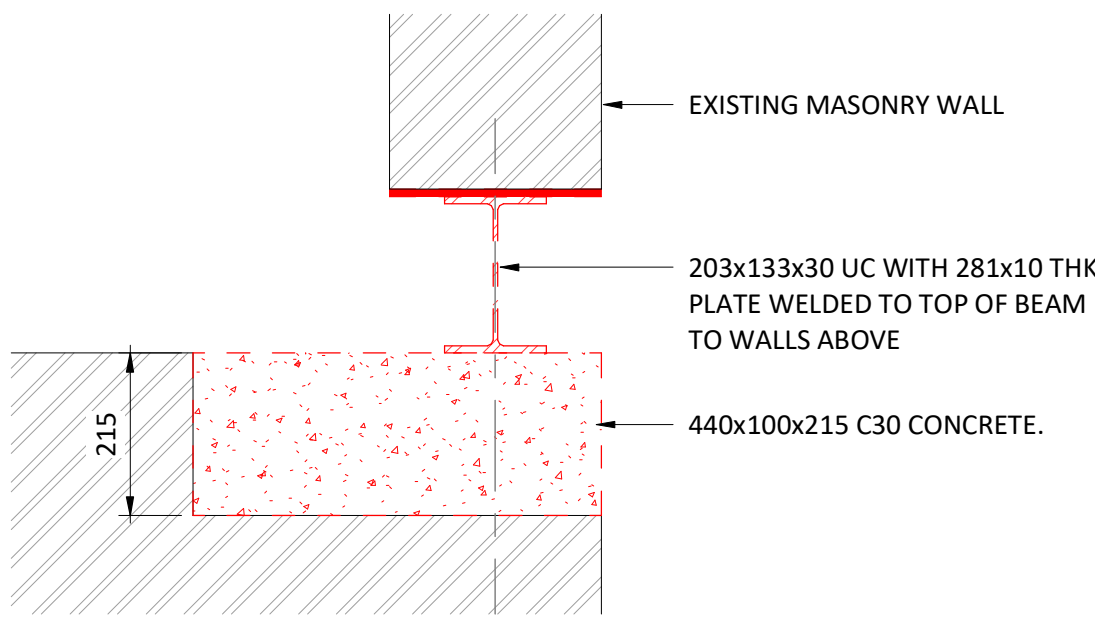
**NETWORK RAIL KEY:**

- DENOTES PROPOSED ELEMENTS.
- DENOTES EXISTING ELEMENTS MODIFIED.
- DENOTES EXISTING ELEMENTS REMOVED.
- DENOTES EXISTING ELEMENTS.
- DENOTES 440x100x215 C30 CONCRETE PADSTONE

CEILING TO BE CHECKED PRIOR TO STUD WALL REMOVAL

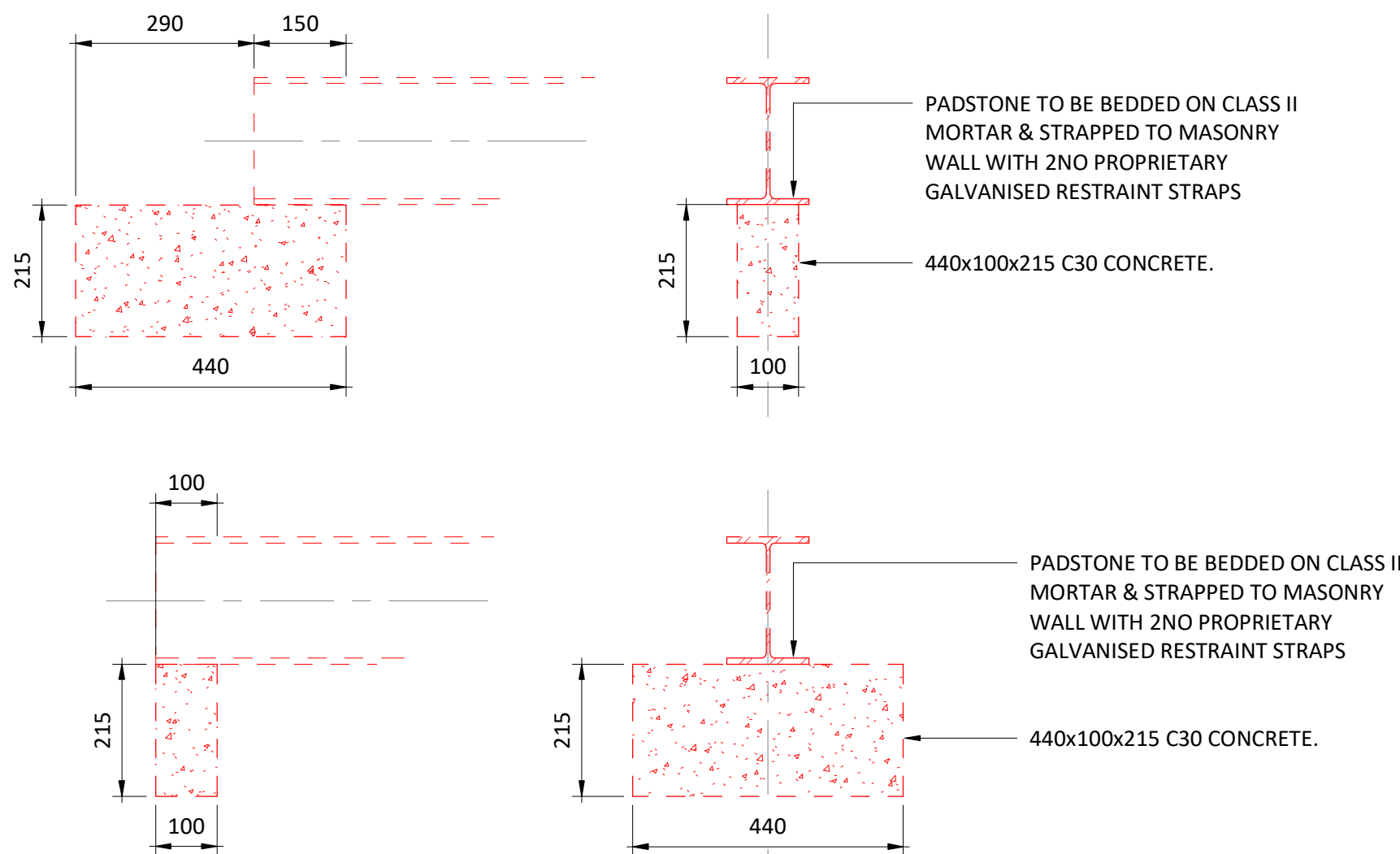
**KINGS CROSS - STRUCTURAL ALTERATIONS LAYOUT 2 OF 3**

SCALE 1 : 100



**SECTION THROUGH PROPOSED SUPPORT FOR STRUCTURE**

ABOVE  
SCALE 1 : 10



**DETAIL 1-1 - TYPICAL PADSTONE**

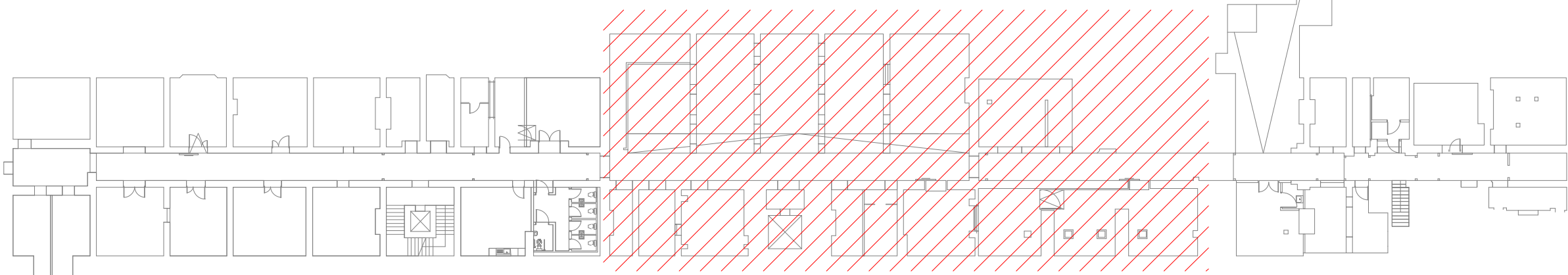
DETAILS  
SCALE 1 : 10

**STEELWORK NOTES**



- GENERALLY INTERNAL STRUCTURAL STEELWORK IS TO BE OF GRADE S355JR, AND EXTERNAL STRUCTURAL STEELWORK TO BE OF GRADE S355JO WELDABLE STRUCTURAL STEELS TO BS EN 10025-2, BS EN 10113 AND BS EN 10210 AS APPLICABLE. ALL STEELWORK HAS BEEN DESIGNED TO BS5950:2000.
- ALL BOLTS ARE TO BE GRADE 8.8 TO BS 4190 AND SHERADIZED OR SPUN GALANISED AND ARE TO COMPLY WITH TABLE 2 OF BS5950: PART 2.
- ALL WELDS TO BE MIN. 6mm FILLET WELDS UNLESS NOTED OTHERWISE. ALL WELDS TO BE CONTINUOUS.
- UNLESS NOTED OTHERWISE ALL CONNECTIONS ARE TO BE DESIGNED BY THE STEELWORK CONTRACTOR TO BS 5950: PART 1 FOR A MINIMUM REACTION OF 75kN (ULS). ALL BEAM TO COLUMN CONNECTIONS ARE TO BE DESIGNED FOR A TIE FORCE OF 75kN (ULS) CONSIDERED SEPERATELY TO ALL OTHER FORCES
- ALL NEW STEELWORK TO BE SHOT BLASTED TO COMMERCIAL GRADE ( SWEDISH STANDARD 2.5 BEFORE FABRICATION) ALL IN ACCORDANCE WITH BS 4232, INCLUDING ALL ADDITIONAL FITMENTS. IMMEDIATELY AFTER SHOT BLASTING STEELWORK IS TO BE COATED WITH ONE COAT OF AN APPROVED PRE-FABRICATION PRIMER. AFTER FABRICATION ALL STEELWORK TO BE FINISHED IN ACCORDANCE WITH SPECIFICATION.
- UNLESS NOTED OTHERWISE ALL INTERNAL STRUCTURAL STEELWORK IS TO HAVE 75 µm OF HIGH BUILD ZINC PHOSPHATE. UNDERCOAT AND TOP COAT FINISH TO ARCHITECT'S DETAILS.
- ALL STEELWORK CONTAINED PARTIALLY OR TOTALLY IN BRICKWORK/BLOCKWORK CAVITIES TO HAVE 125µm OF HIGH BUILD ZINC PHOSPHATE. PRIMED STEELWORK IN CAVITIES OR ENCASED IN BRICK IS TO BE FURTHER PROTECTED WITH 2 COATS OF BITUMEN PAINT.
- ALL EXTERNAL STEELWORK TO HAVE 275µm OF HIGH BUILD ZINC PHOSPHATE.
- WHERE REQUIRED STEELWORK TO BE FIRE PROTECTED TO A RATING OF AT LEAST 60 MINUTES BY MEANS OF INTUMESCENT PAINTING. WHERE SPRAYED FIRE PROTECTION SYSTEMS ARE TO BE USED, THEN THE CONTRACTOR IS TO ENSURE COMPATIBILITY WITH THE PAINT SYSTEMS. FOR FIRE PROTECTION DETAILS REFER TO THE ARCHITECTS DRAWINGS AND DETAILS.
- ALL STEELWORK FABRICATORS DRAWINGS, DETAILS AND CALCULATIONS ARE TO BE FORWARDED TO THE ENGINEER FOR COMMENTS AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF FABRICATIONS. DRAWINGS AND DETAILS ARE ALSO TO BE FORWARDED TO THE ARCHITECT FOR DIMENSION CLEARING. ALL RELEVANT DIMENSIONS AND LEVELS ARE BASED ON ARCHITECTS DRAWINGS. TO BE CHECKED ON SITE AND CONFIRMED BY THE ARCHITECT PRIOR TO FABRICATION.
- ALL FINAL STEELWORK DIMENSIONS SHALL BE DERIVED FROM THE ARCHITECTS FULLY COORDINATED DIMENSIONED DRAWINGS.
- ALL WORK IS TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT BS CODES OF PRACTICE, APPROVED BUILDING REGULATIONS AND THE SPECIFICATIONS ISSUED BY STRUKTURA STRUCTURES.
- AFTER ALL STEELWORK HAS BEEN LINED, LEVELLED AND PLUMBED BY THE STEELWORK CONTRACTOR AND ACCEPTED BY THE GENERAL CONTRACTOR, THE GENERAL CONTRACTOR WILL GROUT UP IN ACCORDANCE WITH BS 8110. AFTER ERECTION ALL DAMAGED AREAS OF STEELWORK TO BE TOUCHED UP BY THE ERECTOR WITH AN APPROVED PRIMER TO THE SATISFACTION OF THE ENGINEER.
- STRUCTURE IS DESIGNED FOR THE FINAL CONDITION. THE CONTRACTOR IS RESPONSIBLE FOR STABILITY OF THE STRUCTURE AND ADJACENT STRUCTURES IN THE TEMPORARY CONDITION DURING CONSTRUCTION. TEMPORARY STABILITY OF THE STEELWORK FRAME IS THE RESPONSIBILITY OF THE STEELWORK CONTRACTOR AND IS TO BE ADDRESSED IN THE STEELWORK SUB-CONTRACTORS ERECTION METHOD STATEMENT.

**REFURBISHMENT NOTES**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF TEMPORARY WORKS AND FOR THE STRUCTURAL STABILITY AND INTEGRITY OF THE EXISTING BUILDING THROUGH THE WORKS.
- THE CONTRACTOR SHALL DESIGN AND PROVIDE ADEQUATE NEEDLE AND PROPPING OF WALLS, FLOORS AND ROOFS PRIOR TO THE REMOVAL OF ANY ELEMENTS OF STRUCTURE.
- NEW STEEL BEAMS TO BE PACKED TIGHT UNDER EXISTING WALL/FLOOR USING SLATE AND DRY PACK PRIOR TO THE REMOVAL OF THE NEEDLES AND PROPS.
- CONSTRUCTION MATERIALS TO BE DISTRIBUTED EVENLY OVER FLOOR AREA. DISTRIBUTED WEIGHT NOT TO EXCEED 1.5kN/m².



**KINGS CROSS - LOCATION PLAN**

|  |                              |             |  |             |    |              |          |
|--|------------------------------|-------------|--|-------------|----|--------------|----------|
|  |                              |             |  |             |    |              |          |
| P04  | ISSUED AS GRIP 5             |             |  | ARY         | AT | KH           | 24.10.22 |
| P03  | REVISED AS CLOUDED           |             |  | ARY         | AT | KH           | 15.08.22 |
| P02  | UPDATED ARCHITECTURAL LAYOUT |             |  | ARY         | AT | AT           | 22.06.22 |
| P01  | ISSUED AS PRELIMINARY        |             |  | ARY         | AT | AT           | 19.05.22 |
| REV  | MODIFICATIONS                |             |  | BY          | RE | AP           | DATE     |
| PURPOSE OF ISSUE   |                              |             |  |             |    |              | STATUS   |
| GRIP 5   |                              |             |  |             |    |              | S2       |
| CLIENT   |                              |             |  |             |    |              |          |
| S T R  A L A   architects |                              |             |  |             |    |              |          |
| PROJECT  |                              |             |  |             |    |              |          |
| LNER CATERING  |                              |             |  |             |    |              |          |
| TITLE  |                              |             |  |             |    |              |          |
| KINGS CROSS - PROPOSED<br>STRUCTURAL ALTERATIONS GENERAL<br>ARRANGEMENT - SHEET 2 OF 3                         |                              |             |  |             |    |              |          |
| DRAWN BY   |                              | REVIEWED BY |  | APPROVED BY |    | SCALE (@ A1) |          |
| AP   |                              | ARY         |  | ARY         |    | As indicated |          |
| DATE   |                              | JOB REF     |  | REVISION    |    |              |          |
| APRIL-2022   |                              | 1454        |  | P04         |    |              |          |
| DRAWING NUMBER   |                              |             |  |             |    |              |          |
| 1454-VEX-KC-XX-DR-S-1002   |                              |             |  |             |    |              |          |
|  VEXTRIX                  |                              |             |  |             |    |              |          |