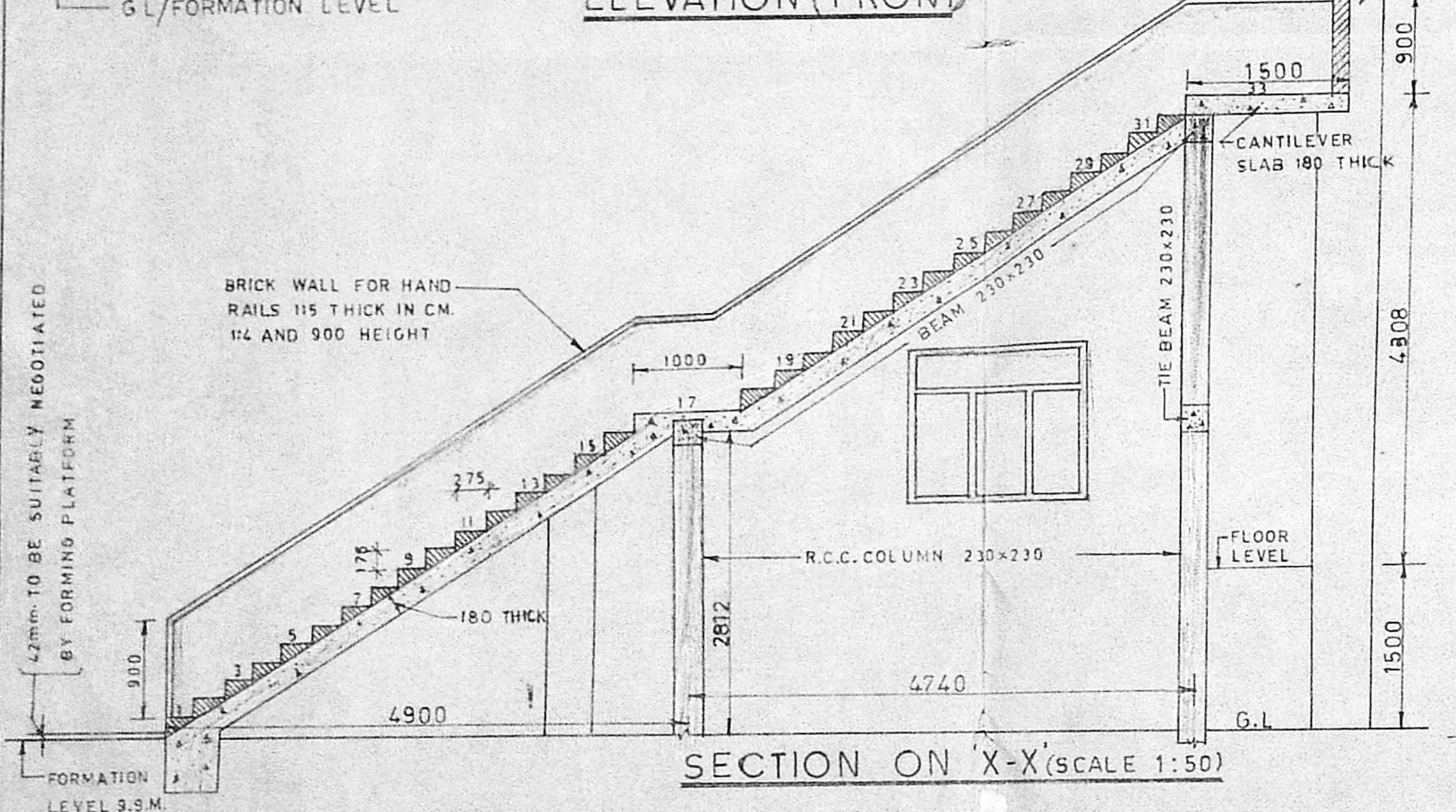
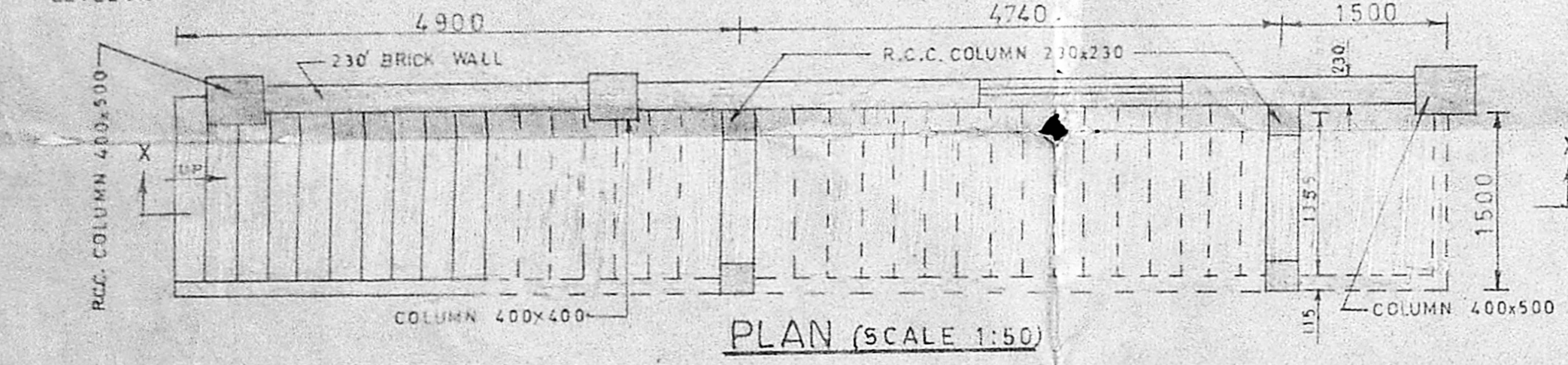


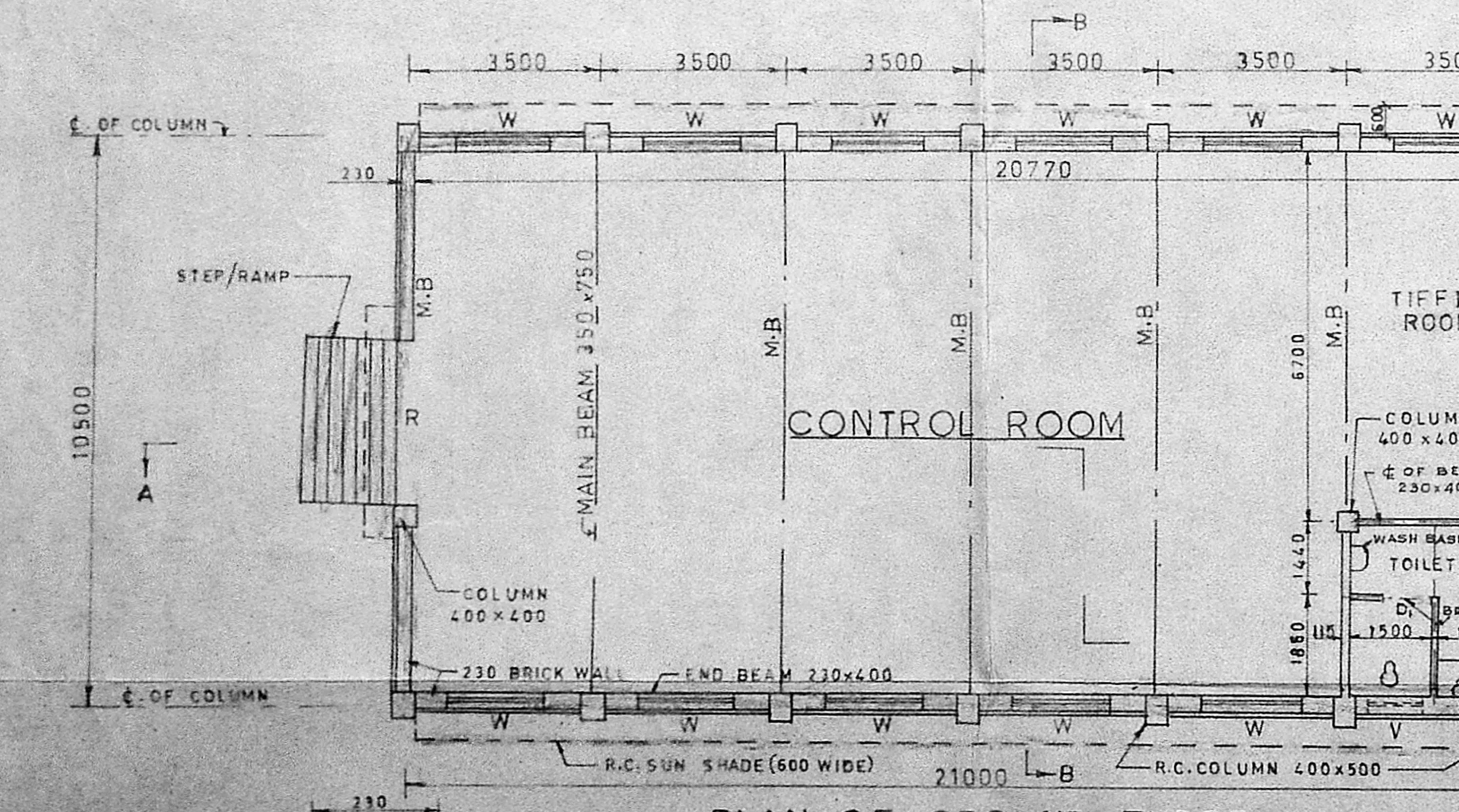
ELEVATION (FRONT)



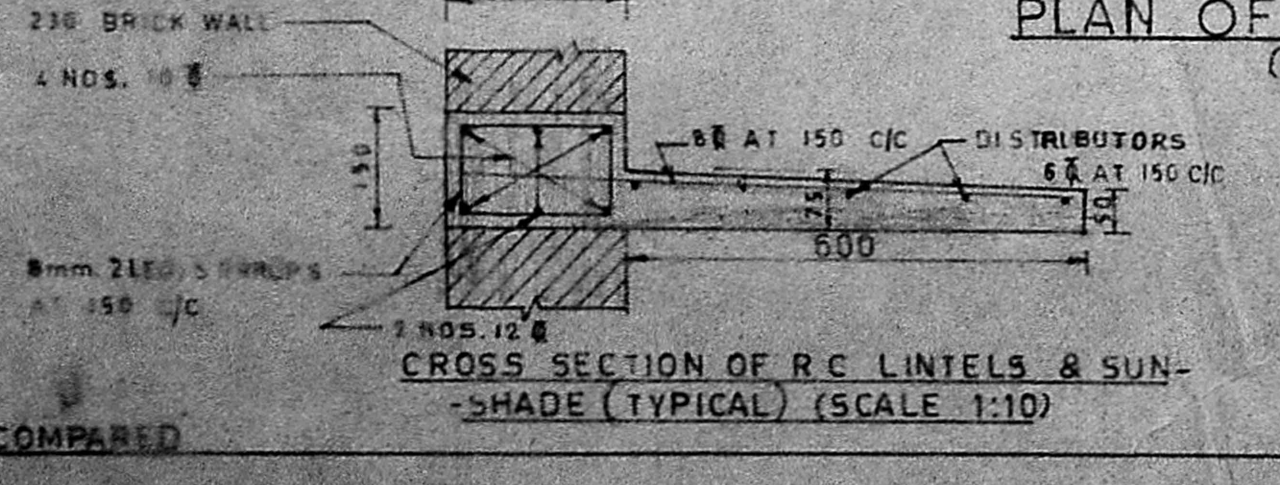
SECTION ON X-X (SCALE 1:50)



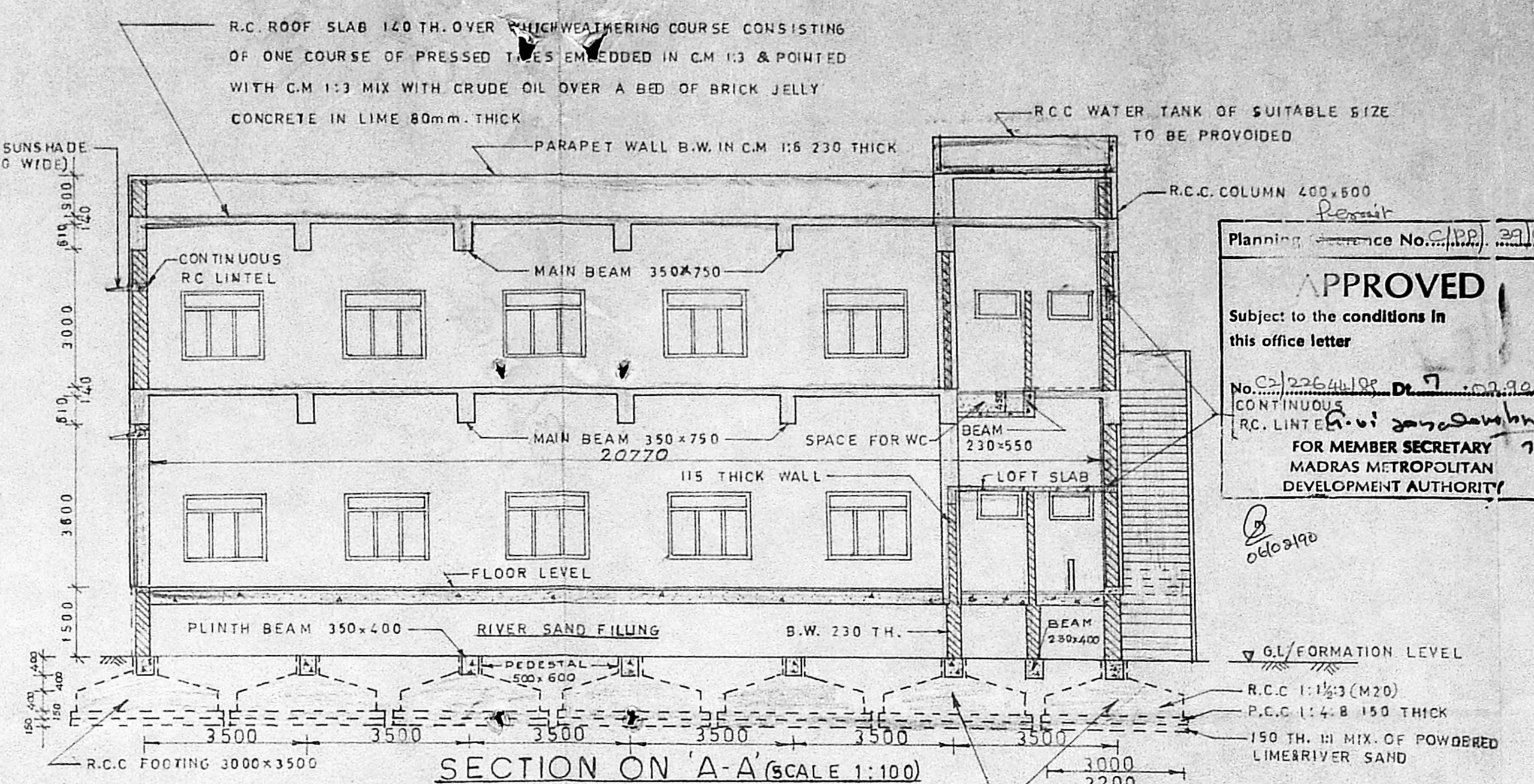
PLAN (SCALE 1:50)



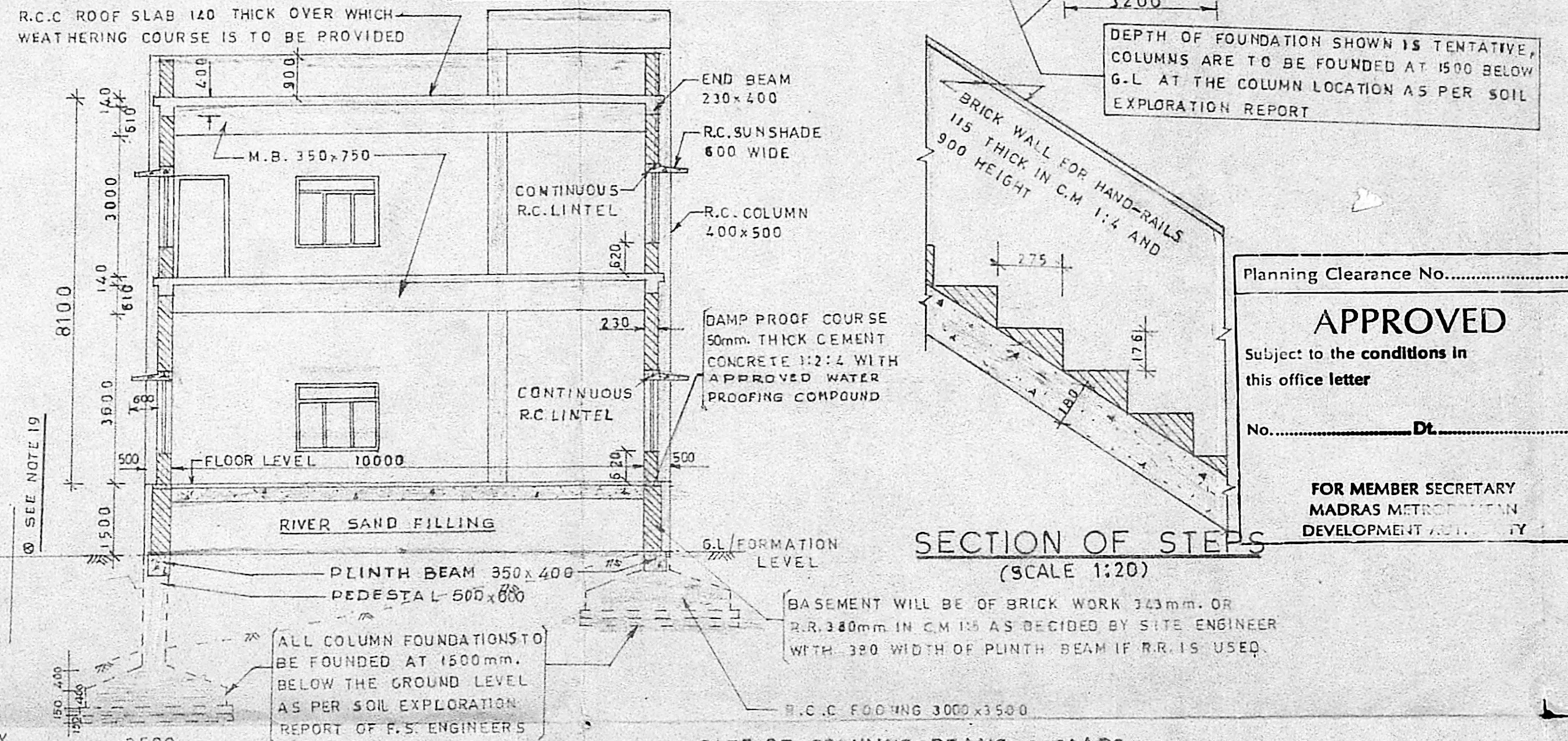
PLAN OF GROUND FLOOR (SCALE 1:100)



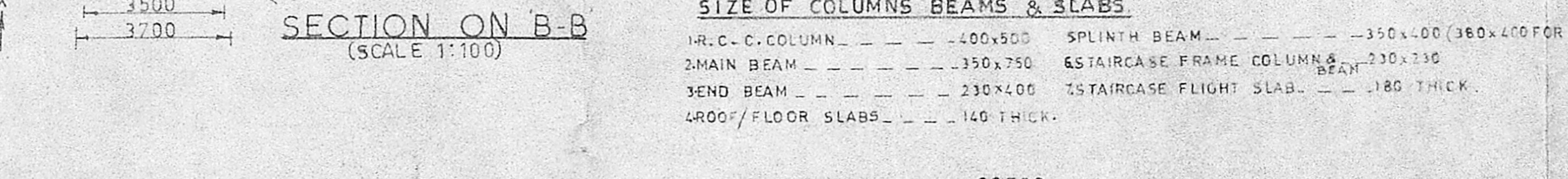
CROSS SECTION OF R.C. LINTELS & SUNSHADE (TYPICAL) (SCALE 1:10)



SECTION ON A-A (SCALE 1:100)



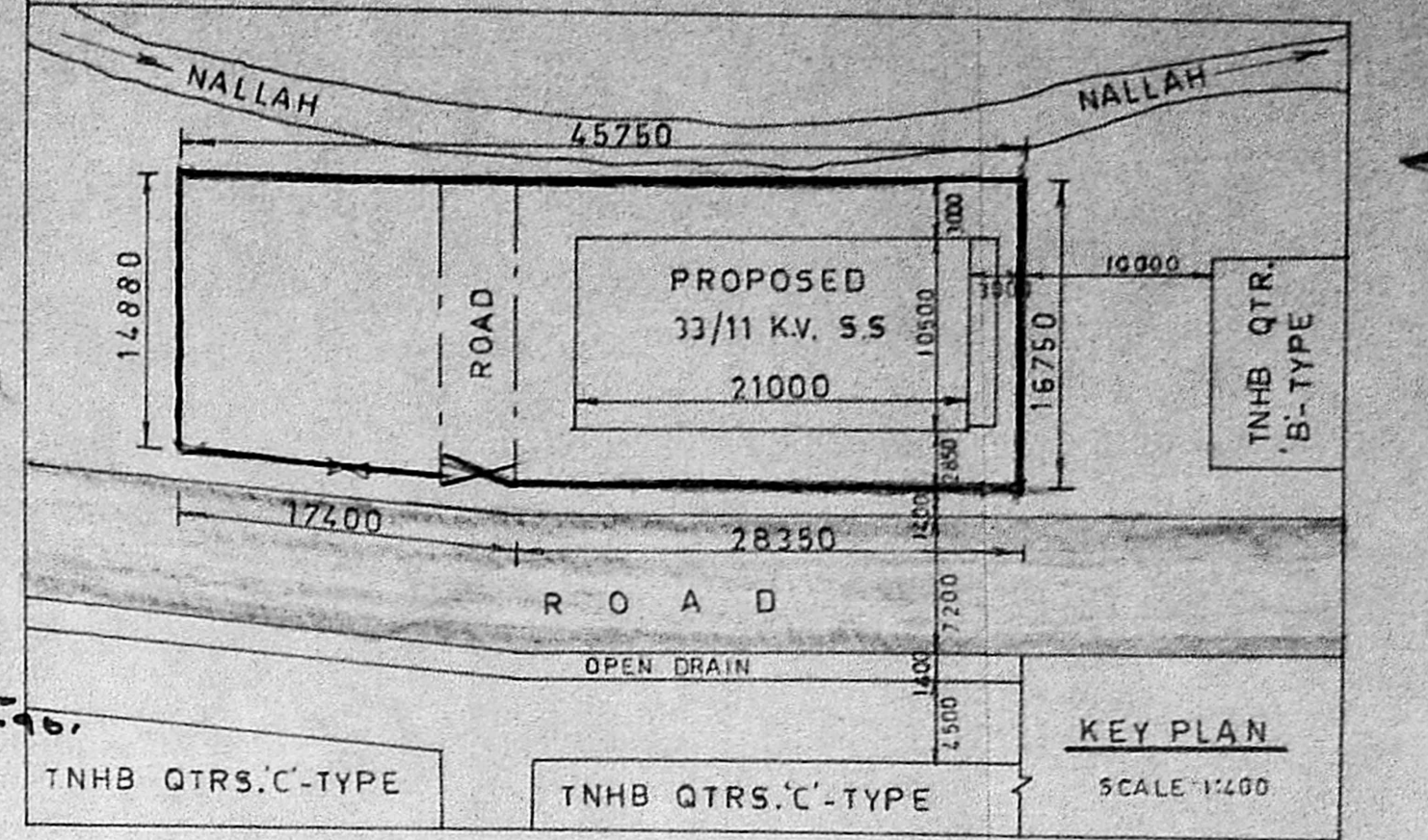
SECTION OF STEPS (SCALE 1:20)



SECTION ON B-B (SCALE 1:100)

SIZE OF COLUMNS BEAMS & SLABS

R.C.C. COLUMN	400x500	PLINTH BEAM	350x400 (360x400 FOR RR)
MAIN BEAM	350x750	STAIRCASE FRAME COLUMN	230x230
END BEAM	230x400	STAIRCASE FLIGHT SLAB	180 THICK
FLOOR/FLOOR SLABS	140 THICK		



KEY PLAN SCALE 1:200

Planning Clearance No. 226/4198
APPROVED
 Subject to the conditions in this office letter
 No. 226/4198 Dt. 7.11.87
 FOR MEMBER SECRETARY
 MADRAS METROPOLITAN
 DEVELOPMENT AUTHORITY

Planning Clearance No.
APPROVED
 Subject to the conditions in this office letter
 No. Dt.
 FOR MEMBER SECRETARY
 MADRAS METROPOLITAN
 DEVELOPMENT AUTHORITY

- SPECIFICATION**
- BEAMS, SLABS: MIX 1:2:4 (M15) USING B.G. METAL OF SIZE 12 TO 20mm.
 - COLUMNS & FOOTINGS M20 WITH 12 TO 20mm B.G. METAL.
 - SUPERSTRUCTURE WILL BE BRICK WORK IN C.M. 1:5 PLASTERED OVER WITH C.M. 1:5 12mm THICK INSIDE AND 15mm THICK OUTSIDE.
 - FLOORING: a) GROUND FLOOR: FOR CONTROL ROOM GRANULITIC FLOORING 40 THICK OVER C.C. 1:4:8 100 THICK b) FIRST FLOOR: FOR OFFICE GRANULITIC FLOORING 20 THICK OVER SLAB c) FOR BATTERY ROOM ACID PROOF PAINT FOR FLOORING AND WALLS. d) FOR TOILET MOSAIC FLOORING.
 - WHITE WASHING: APPLY 3 COATS OF SLAKED LIME INSIDE & OUTSIDE ONE COAT OF WHITE CEMENT AND TWO COATS OF SUPERCEM COLOUR CEMENT PAINT.
 - HAND RAILS FOR THE STAIRCASE WILL BE OF BRICK WORK 114 THICK IN C.M. 1:4 PLASTERED WITH C.M. 1:4.
 - THE SAFE BEARING CAPACITY FOR THE SOIL IS TAKEN AS 77/m² (0.7 kg/cm²) AS RECOMMENDED IN THE SOIL EXPLORATION REPORT NO. 1267/D/11-5-87 OF F.S. ENGINEERS P.L. AND AS CONFIRMED BY PLATE LOAD TEST REPORT NO. 13248 Dt. 30.9.87 OF F.S. ENGINEERS.
 - THE BASEMENT WILL BE OF HEIGHT 1500 ABOVE THE G.L. FORMATION LEVEL (9.9m AS CONFIRMED BY THE E.E./MDC) AND WILL BE OF BRICK WORK 230 OR R.R. 380mm THICK IN C.M. 1:5 THE INTERIOR WILL BE FILLED WITH RIVER SAND CONSOLIDATED IN LAYERS OF 150mm.
 - DAMP PROOF COURSE: 50mm THICK CEMENT CONCRETE 1:2:4 WITH APPROVED WATER PROOFING COMPOUND ANTIMETERMITE TREATMENT WILL BE PROVIDED FOR THE ENTIRE BUILDING FOUNDATION AS PER IS 6313 (PART-3) IF REQUIRED.
 - 6-NOS. A.C. DOWN FALL PIPES OF 100 Ø FOR RAIN WATER SHALL BE FIXED AS DECIDED BY THE ENGINEER AT SITE (3 ON EACH SIDE OF THE CONTROL ROOM).
 - FLOOR SLAB IN THE WATER CLOSET PORTION WILL BE OF DEEPRESSED BY 450mm TO ACCOMMODATE I.W.C.
 - PARTITION WALLS 114 TH IN THE FIRST FLOOR AREA SHALL NOT BE RAISED ABOVE 1000mm IF IT IS NECESSARY. THE GAP BETWEEN THE ROOF AND THE TOP OF WALLS SHALL BE COVERED WITH LIGHT PARTITIONS. THE DETAILS OF PARTITION FOR OFFICES, ELECTRIFICATION & WATER SUPPLY SHALL BE DECIDED BY THE FIELD.
 - AS RECOMMENDED IN THE SOIL EXPLORATION REPORT, THE FOLLOWING PRECAUTIONS SHOULD BE TAKEN WHILE FILLING THE PLINTH AREA AND BEFORE PLACING THE SHALLOW FOUNDATION, FLOORING AND SKIRTING THE EXPANSIVE SILTY CLAY LAYER IS PRESENT ON TOP AT SOME LOCATIONS. THIS LAYER SHOULD NOT BE USED FOR THE FILLING OF THE PLINTH AREA. WHILE PLACING THE FLOORING OR SKIRTING AND BEFORE FILLING THE PLINTH AREA A LAYER OF 15cm THICK MIXTURE OF POWDERED LIME AND RIVER SAND SHOULD BE GIVEN ABOVE THE EXPANSIVE SOIL. THIS SHOULD ALSO BE GIVEN UNDER SHALLOW FOUNDATIONS. THIS WILL REDUCE THE SWELLING CHARACTERISTICS OF THE SOIL.
 - THE TOILET FLOOR LEVELS TO BE DEEPRESSED BY 50mm.
 - LINTELS ARE CONTINUOUS ON THE LONG SIDE & ON THE EASTERN SIDE IN G.F. AND ON ALL SIDES IN FIRST FLOOR. SUNSHADE IS CONTINUOUS IN THE LONGER SIDE.
 - THE SIDE OPENING SPACE INDICATED ARE AS PER THE SKETCH BY C.E./TRAN. & GRID. OPERATION IN Lr No. MDC/13/F305/D147/87 Dt. 12-10-87 HOWEVER PLAN APPROVAL FOR THE BUILDING IS TO BE OBTAINED BEFORE TAKING UP THE CONSTRUCTION.
 - CARE SHOULD BE TAKEN TO SEE THAT THE BOTTOM OF THE FOUNDATION TRENCHES ARE NOT DISTURBED BY OVER EXCAVATION. OVER EXCAVATIONS SHOULD BE REFILLED BY RIVER SAND COMPACTED IN LAYER BY FLOODING.
 - THE BUILDING IS DESIGNED FOR GROUND FLOOR & FIRST FLOOR ONLY.
 - FIRST FLOOR HAS BEEN DESIGNED FOR A LIVE LOAD OF 400kg/m² AND A PARTITION LOAD OF 100kg/m².
 - FLOOR SLAB HAS BEEN DESIGNED FOR A LIVE LOAD OF 150kg/m².
 - ALL STEEL REINFORCEMENT WILL BE OF RIBBED TORSION STEEL TO SPECIFICATION FE 415.
 - NECESSARY CURTAIN WALL WITH ITS FOUNDATION BELOW THE BED LEVEL OF NALLAH ON THE NORTHERN SIDE COVERING THE ENTIRE LENGTH OF THE BUILDING AS A PROTECTION TO PREVENT EROSION/SCOURING OF THE FOUNDATION IS TO BE PROVIDED.

TRUE COPY

SD/ C.F. BENEDICT/DT. 23-11-87
 C.E./ CIVIL DESIGNS.

M. Man
 SUPERINTENDING ENGINEER,
 MADRAS DEVELOPMENT CIRCLE,
 TAMIL NADU ELECTRICITY BOARD,
 ELECTRICITY AVENUE, MADRAS-600 002.

R. Anand
 RESIDENTIAL ENGINEER / CIVIL,
 MDC / T.N.E.B.,
 LICENSED SURVEYOR,
 CLASS I No. 355,
 ELECTRICITY AVENUE, ANNA SALAI,
 MADRAS-600 002.

REVISION: 1
 1. THE SIZE OF COLUMN FOOTINGS REVISED AS PER DRO. NO. CD/49 SH.1/2
 2. THE THICKNESS OF THE CANTILEVER STAIR CASE LANDING SLAB REVISED TO 180mm.
 SD/P5 SD/S5 SD/R5 SD/C.F.B. DT. 23-11-87
 A.E. A.E.S. E.E-3 C.E./C.D.

GENERAL
 1. ALL DIMENSIONS ARE IN mm.
 2. THE ALIGNMENT OF CABLE DUCT INSIDE THE BUILDING IS TO BE SO ARRANGED THAT IT WILL NOT FOUL WITH THE COLUMN FOUNDATION AND DEPTH OF CABLE DUCT SHOULD NOT EXCEED 1500 BELOW FLOOR LEVEL.
REFERENCE DRAWINGS: SKETCH NO. 411-DT. 7-10-87 SENT AS ENCLOSURE TO Lr No. MDC/13/F305/D147/87 Dt. 12-10-87 OF C.E./TRANSMISSION AND GRID OPERATION.
 1) SOIL EXPLORATION REPORT DONE BY E.S. ENGINEERS RECEIVED IN SE/MDC S.L.R. DT. 23-5-87
 2) PLATE LOAD TEST REPORT DONE BY F.S. ENGINEERS RECEIVED IN C.E./T & G S.L.R. DT. 12-10-87

DRAWN D.V. D'MAN CHECKED 10/RS/10/SS A.E. (A.E.-3)	TAMIL NADU ELECTRICITY BOARD	PLAN NO. CD/45.RI.
PASSED 10/RS/10/SS E.E-3	33/11-KV. SUB STATION AT TOD-HUNTER NAGAR SAIDAPET	DATE 23-11-87
TRACED D.V. D'MAN	PROPOSED 33/11KV. SUB-STATION GENERAL ARRANGEMENT - RI	SCALE AS NOTED