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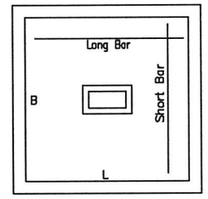
COLUMN DETAILS (M30-Fe500)

C1 375x2100	C2 300x1250	C3 300x900	C4 375x1500	C5 375x1050	C6 375x750	C7 375x600	C8 300x600	C9 230x900	C10 230x600
300 / 2100	300 / 1800	300 / 1500	375 / 1500	375 / 1050	375 / 750	375 / 600	300 / 600	230 / 900	230 / 600
• 20-25ϕ 8ϕ@150c/c	• 16-25ϕ 8ϕ@150c/c	• 16-25ϕ 8ϕ@150c/c	• 20-25ϕ 8ϕ@150c/c	• 20-25ϕ 8ϕ@150c/c	• 16-25ϕ 8ϕ@150c/c	• 12-25ϕ 8ϕ@150c/c	• 8-25ϕ 8ϕ@150c/c	• 12-25ϕ 8ϕ@150c/c	• 8-25ϕ 8ϕ@150c/c

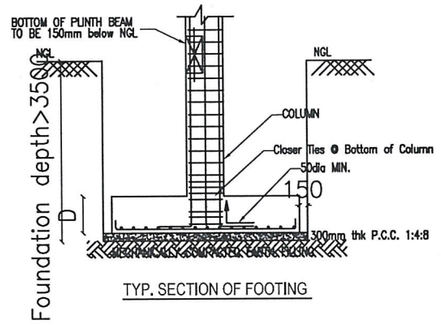
SC STUB COLUMN UP TO PLINTH BEAM

FOUNDATION DETAILS (M30-Fe500)

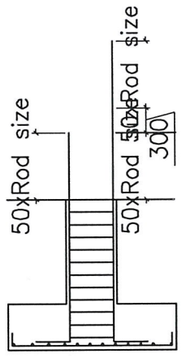
TYPE	LENGTH	BREADTH	D	LONG BAR	SHORT BAR
F1	4800	4800	1200	16ϕ @ 100c/c	16ϕ @ 100c/c
F2	4000	4000	1000	16ϕ @ 125c/c	16ϕ @ 125c/c
F3	3500	3500	900	16ϕ @ 150c/c	16ϕ @ 150c/c
F4	3000	3000	750	12ϕ @ 100 c/c	12ϕ @ 100 c/c
F5	2500	2500	600	12ϕ @ 150 c/c	12ϕ @ 150 c/c
SF	1000	1000	300	10ϕ @ 200 c/c	10ϕ @ 200 c/c
CF1	7500	4000	1000	16ϕ @ 125 c/c(T&B)	12ϕ @ 125 c/c(T&B)
CF2	9000	8000	1000	16ϕ @ 125 c/c(T&B)	16ϕ @ 125 c/c(T&B)
CF3	8000	6000	1000	16ϕ @ 125 c/c(T&B)	16ϕ @ 125 c/c(T&B)
CF4	9000	4000	900	16ϕ @ 150 c/c(T&B)	12ϕ @ 150 c/c(T&B)
CF5	9000	8000	750	12ϕ @ 100 c/c(T&B)	12ϕ @ 100 c/c(T&B)



TYP.PLAN OF FOOTING

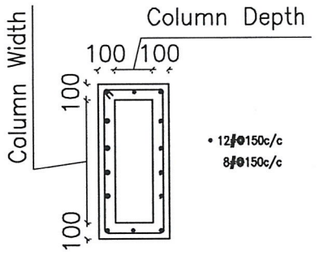


TYP. SECTION OF FOOTING



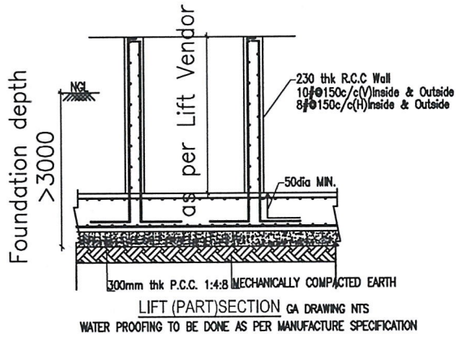
SECTION OF COLUMN FOR LAP

GA DRAWING NTS



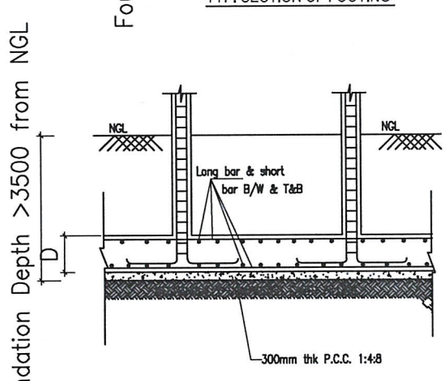
TYP SECTION OF PEDESTAL FOR ALL COLUMN EXCEPT STUB COLUMN

GA DRAWING NTS



LIFT (PART)SECTION GA DRAWING NTS

WATER PROOFING TO BE DONE AS PER MANUFACTURE SPECIFICATION

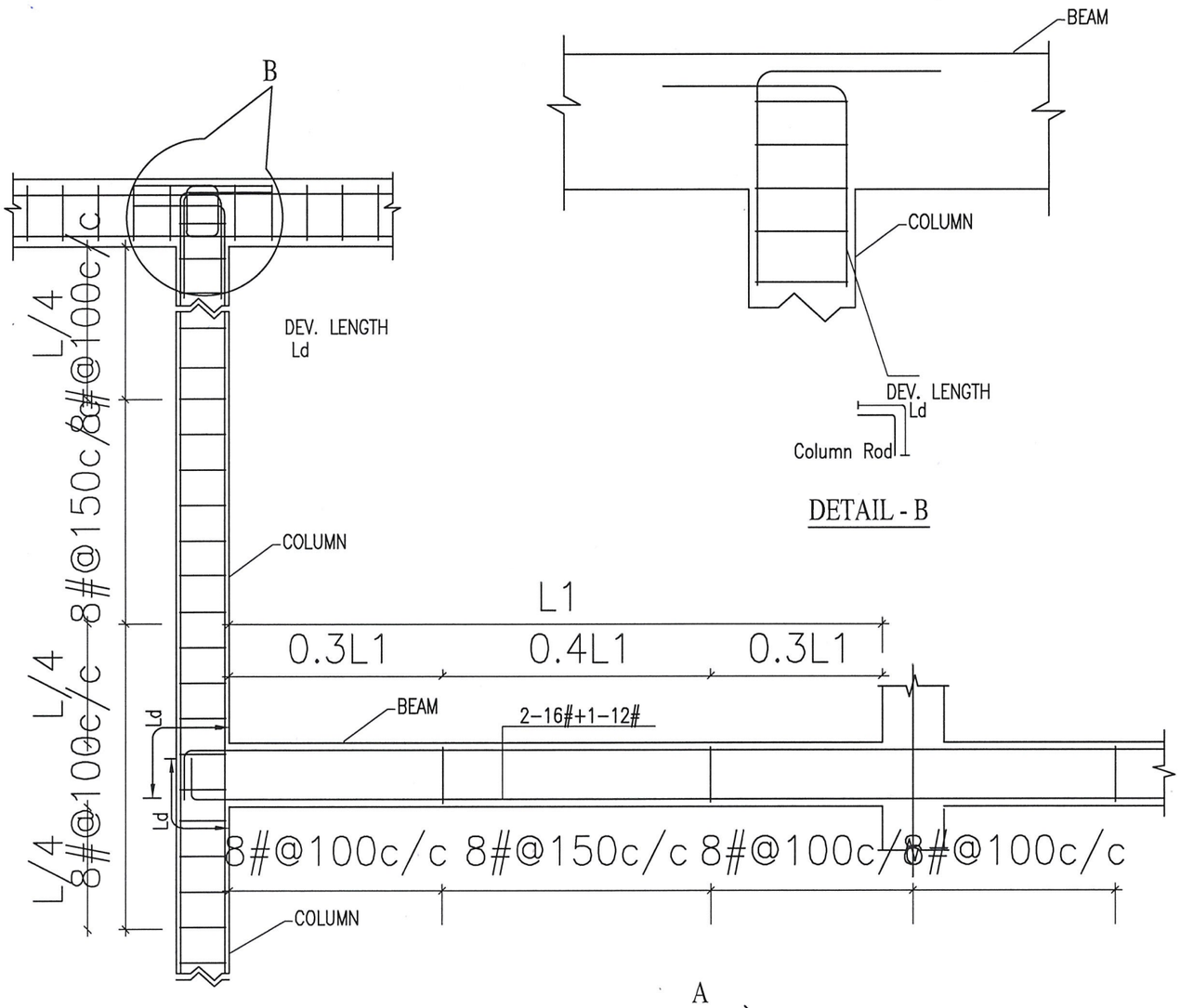


C.S. OF COMBINED FOOTING CF3 (TYP)

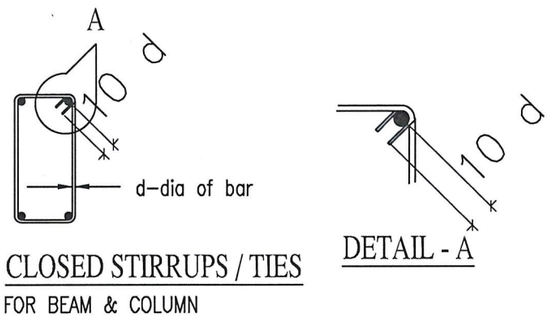
For THE NEST

Managing Partner

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DETAIL - B



CLOSED STIRRUPS / TIES
FOR BEAM & COLUMN

DETAIL - A

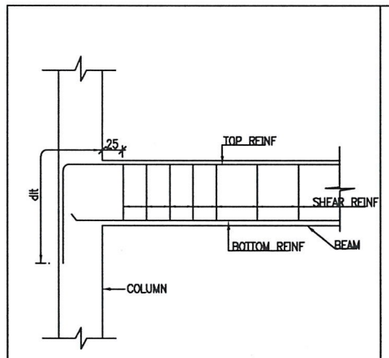
SEISMIC DETAILING

For THE NEST

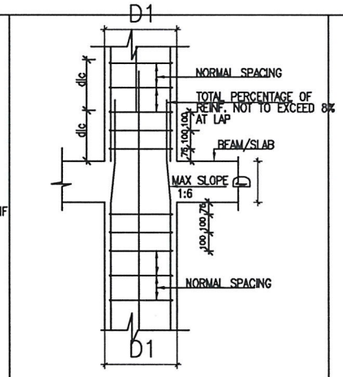
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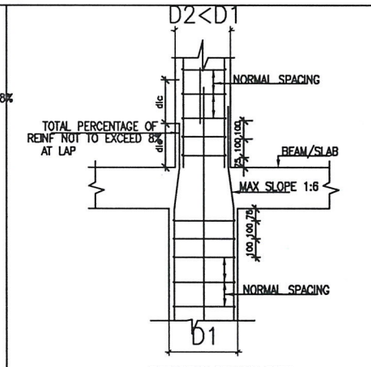
GENERAL DRAWING



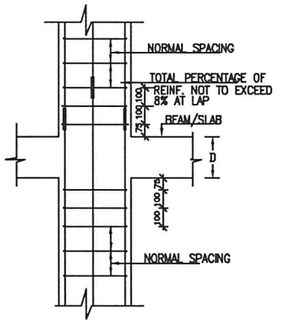
TYPICAL REINF. DETAILING
OF COLUMN-BEAM JUNCTION
dlt - DEVELOPMENT LENGTH IN TENSION



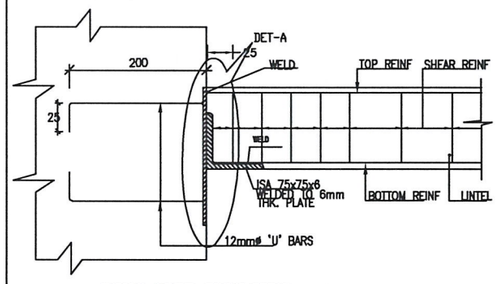
SAME COLUMN SIZE
dlc - DEVELOPMENT LENGTH



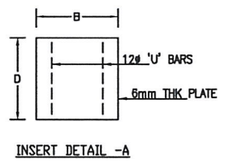
REDUCING COLUMN SIZE
TYPICAL COLUMN SPLICING DETAIL
AT FLOOR LEVEL



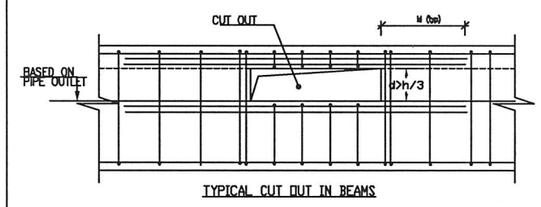
MECHANICAL SPLICING DETAIL



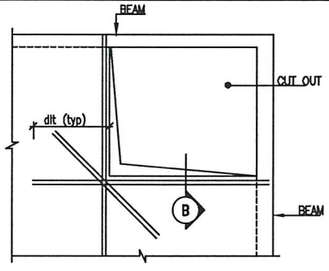
TYPICAL LINTEL FIXING DETAIL



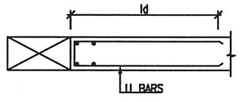
INSERT DETAIL -A



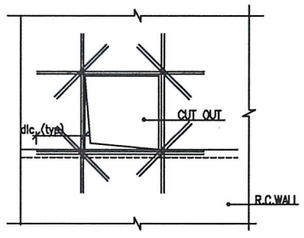
TYPICAL CUT OUT IN BEAMS



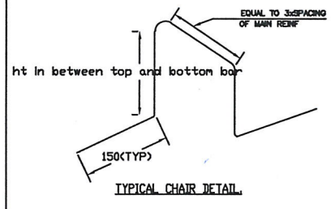
TYPICAL CUT OUT DETAIL IN SLABS



SECTION B-B



TYPICAL CUT OUT DETAIL IN R.C.WALLS



TYPICAL CHAIR DETAIL

GENERAL NOTES

1. GENERAL

1.1 ALL DIMENSIONS ARE IN MM.

1.2 WORK TO FIGURED DIMENSIONS AND DO NOT SCALE THE DRAWING.

1.3 ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS.

1.4 ANY DISCREPANCY IN THE DRAWING SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE COMMENCING THE WORK.

1.5 THE STRUCTURE IS DESIGNED FOR :
AS PER PLAN

2. DESIGN CRITERIA

2.0 STANDARDS AND LOADS.

2.1 THE CONCRETE DESIGN IS BASED ON IS: 456-2000.

2.2 LIVE LOADS ARE BASED ON IS:875 PART II:

a) GENERATORS

b) LIVE,ELECTRICAL PANNEL. EQIPMENT: 300 Kg/Sq.m
: AS PER ACTUALS

c) STAIRS

d) TERRACES : 400Kg/Sq.m

2.3 SHUTTERING FOR FOOTING AND PEDESTAL/ 200KG/SQ.M
SHUTTERING FOR COLUMN AND BEAMS BY STEEL/ PLYWOOD SHEETING.
SHUTTERING FOR SLABS BY STEEL/PLYWOOD SHEETING.

3. CONCRETE

3.1 ALL CONCRETE SHALL BE OF DESIGN MIX AND ARE TO BE OBTAINED FROM REPUTEDTESTING LABORATORIES AND APPROVED BY CONSULTANTS, THE MATERIALS THAT ARE PROPOSED TO BE USED IN THE PROJECT SHALL BE TESTED AND TEST CERTIFICATE TO BE FURNISHED BEFORE USE OF MATERIAL AT SITE.

3.2 IRRESPECTIVE OF WHAT MENTIONED ON DRAWING THE PCC MIX SHALL BE AS FOLLOWS.

I). PCC FOR PILE CAP / PLINTH BEAM / RAFT SLAB MIX 1:4:8

3.3 CANTILEVERED SLAB/BEAMS SHALL BE PROPPED TILL COUNTER BALANCING WEIGHT BECOMES EFFECTIVE.

For THE NEST
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GENERAL DETAILS

4. REINFORCING STEEL/DEVELOPMENT AND ANCHORAGE LENGTHS

4.1 ALL REINFORCEMENT STEEL SHALL CONFORM TO IS:1786 –1985 HIGH STRENGTH DEFORMED STEEL BARS,PRODUCED BY THE THERMO–MECHANICAL TREATMENT PROCESS, OF GRADE Fe500, HAVING ELONGATION MORE THAN 14.5% CAN BE USED

4.4 COUPLER CAN BE PROVIDED INSTEAD OF LAPPING.

Developed Length & Anchorage length

FOR Fe500 in mm	BAR IN TENSION M25	BAR IN COMPRESSION M25
10	485	388
12	583	466
16	777	621
20	971	777
25	1214	971

5. SOIL DATA & WATER TABLE

5.1 FOOTING CARRYING CAPACITY IS BASED ON SOIL REPORT.
5.2 MINIMUM DEPTH OF EXCAVATION SHALL BE AS INDICATED IN DRAWINGS.
5.3 FOR LIME SAND COMPACTION FILLING REFER ARCH DWG.
5.4 GROUND WATER LVL AS PER SOIL REPORT.

6. CONCRETE CLEAR COVER TO MAIN REINFORCEMENT

6.1 CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 75MM.

6.2 PILE --- 50MM (BOTTOM), 50MM (SIDES)
PILE CAP 75MM (BOTTOM), 75MM (TOP)
FOOTING 50MM (BOTTOM & SIDES)
LINTELS 20MM
BEAMS 30MM
COLUMNS 40MM >12#Rod & 25MM≤12#Rod
SLABS 20MM
RCC WALLS 40MM ON EARTH SIDE/WATER SIDE
20MM ON ATMOSPHERE SIDE

6.3 COVER BLOCKS SHALL BE USED TO GIVE CORRECT COVER TO REINFORCEMENT.

7. WATER PROOFING

7.1 WATER PROOFING SHALL BE DONE FOR : SUMP TANKS, OVERHEAD TANK, TOILET SLABS, TERRACE, LIFT RCC WALL, AS PER STANDARD SPECIFICATIONS.

8. CURING

8.1 CURING BY WATER SHALL BE DONE FOR ALL RCC STRUCTURE FOR A MINIMUM PERIOD OF 10 DAYS FOR OPC AND 12 DAYS FOR PPC CONCRETE.

9. DESHUTTERING TIME

9.1 TYPE OF FORM WORK FOR : — MINIMUM PERIOD BEFORE STRIKING (EXCLUDING THE DAY OF CASTING)

a. SLABS — 14 DAYS
b. BEAMS UPTO 6.0M — 14 DAYS
OVER 6.0M — 21 DAYS
c. WALL/COLUMN VERTICAL FACES — 1 DAY

9.2 SHUTTERING CAN BE RELEASED EARLIER THAN SPECIFIED ABOVE PROVIDED THE PROPS ARE RETAINED AT REASONABLE SPACINGS AND CONCRETE ATTAINS THE FULL STRENGTH AT THE TIME OF DESHUTTERING AS PER IS 456 – 2000. DESHUTTERING SHALL BE DONE BY PROVIDING DAMPENING MATERIAL BELOW IN ORDER TO REDUCE THE IMPACT AT THE LOWER LEVEL.

9.3 SIMPLY SUPPORTED AND CONTINUOUS SPANS SHALL BE DESHUTTERED FROM MID SPAN TOWARDS SUPPORTS.

CANTILEVERS SHALL BE DESHUTTERED FROM FREE END TOWARDS SUPPORTS

9.4 SLAB/BEAMS SHALL BE REPROPPED UNTIL THE NEXT LEVEL SLAB IS CAST AND DESHUTTERED.

10. CONSTRUCTION JOINTS

10.1 SLABS : AT MIDDLE ONE THIRD OF THE SPAN.
10.2 BEAMS : AT MIDDLE ONE THIRD OF THE SPAN. IF ANY CROSS BEAMS ARE LOCATED IN THIS REGION THE JOINT SHALL BE LOCATED TWO TIMES THE WIDTH OF THE BEAM AWAY FROM THE BEAM.
10.3 RETAINING WALL : AT THE JUNCTION OF THE WALL AND FOOTING WITH A KEY JOINT AND AT MIDDLE OF VERTICAL SPAN, VERTICAL JOINTS TO BE AVOIDED.
10.4 RAFT SLAB : AT MIDDLE ONE THIRD OF THE SPAN.

10.5 CANTILEVERS : CONSTRUCTION JOINT SHALL NOT BE PROVIDED IN CANTILEVERS.

10.6 AT CONSTRUCTION JOINTS OF WATER RETAINING STRUCTURES AND BASEMENTS: PRE FORMED PLASTIC WATER STOP (SYNKOFLEX OR EQUIVALENT) SHALL BE PROVIDED.

11. SLUMP OF CONCRETE

11.1 SLUMP OF CONCRETE SHALL RANGE BETWEEN 100 TO 180MM DEPENDING ON THE MANNER OF CONCRETING.

THE TABLE BELOW GIVE THE GENERAL GUIDANCE:

PILING	SLUMP(in mm) Min.	Max.	
A	100	180	POURING IN TO WATER–FREE UNLINED BORE HAVING WIDELY SPACED REINFORCEMENT. WHERE REINFORCEMENT IS NOT SPACED WIDELY ENOUGH, CUT–OFF LVL OF PILE IS WITHIN THE CASTING AND DIAMETER OF PILE IS LESS THAN OR EQUAL TO 600MM, HIGHER ORDER OF SLUMP WITH IN THIS RANGE MAY BE USED.
B	150	180	WHERE CONCRETE IS TO BE PLACED UNDER WATER OR DRILLING MUD BY TREMIE OR BY PLACER.

12. MISCELLANEOUS

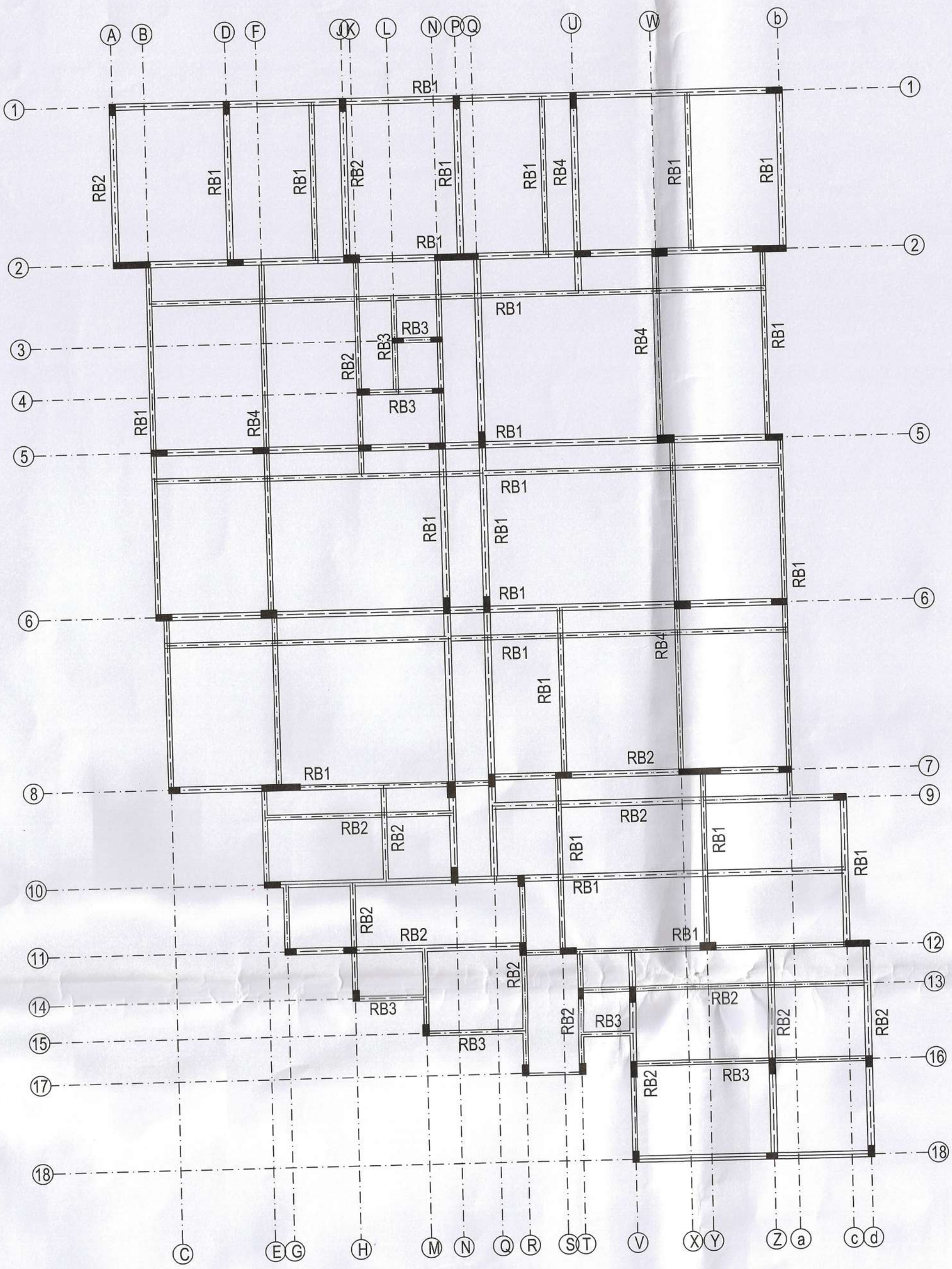
12.1 ROD EQUAL AND ABOVE 20mm DOUBLE BINDING TO BE DONE.
12.2 CHAIR ROD TO BE PROVIDED AT PROPER SPACING NOT MORE THAN 3'0".
12.3 AT CONSTRUCTION JOINTS A COAT OF SBR–LATEX TO BE APPLIED BEFORE CONCRETING
12.4 COLUMN CAN BE RAISED AFTER 1 COMPLETE DAY FOR CONCRETING.

For THE NEST
Managing Partner

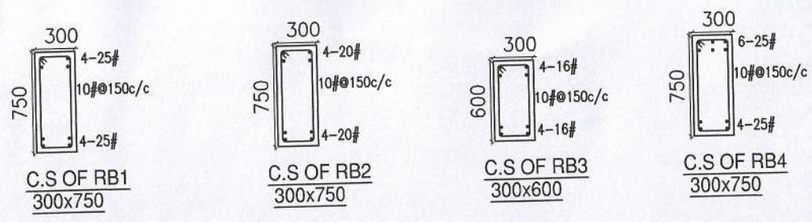
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NOTES

1. All dimensions are in mt.
2. Dimensions to be read, not scaled, Check in arch. dwg
3. Clear cover to the main reinf. as follows
   a) Col 25mm for 12mm bars & 40mm for >12mm
   b) Slab 20mm
   c) Beams 30mm
4. Use M25 Conc & Fe500 unless specified otherwise.
5. Slab thickness 125mm unless specified otherwise.
6. Crank length 0.2L of span.
7. Top rod extn. 0.3L of span.
8. Sunk the slab as per arch dwg.
9. Roof Levels refer to Arch. Drg.
10. Leave dowels/Sleeves wherever necessary.



FINAL ROOF LAYOUT

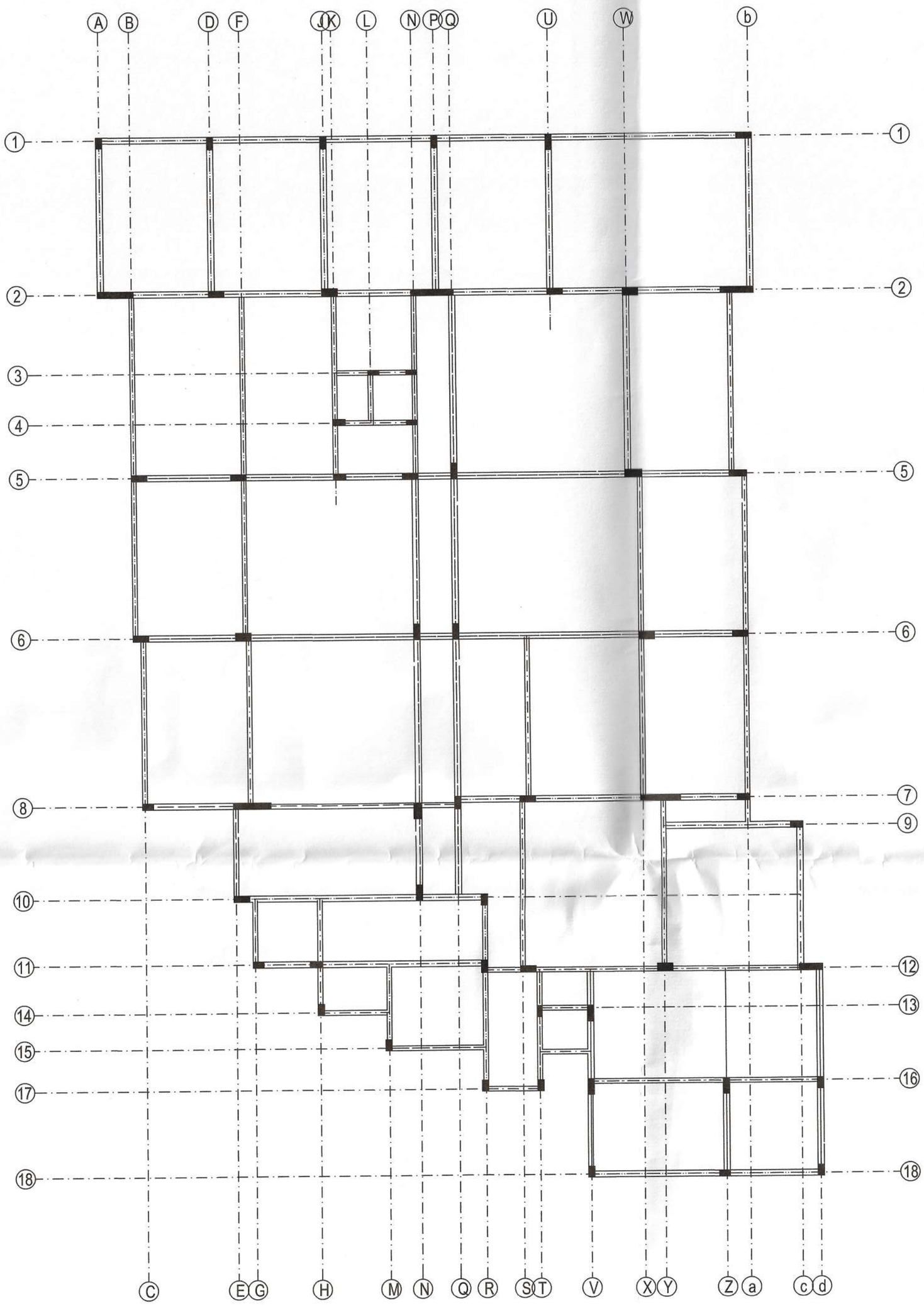


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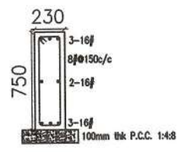
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NOTES

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2. Dimensions to be read, not scaled, and to be Checked with arch. dwg only.
3. Clear cover to the main reinf. as follows
   a) Col 25mm for 12mm bars & 40mm for >12mm
   b) Plinth beam 30mm
4. Use M30 Conc & Fe500 Steel.
5. Leave dowels wherever necessary.



PLINTH BEAM LAYOUT



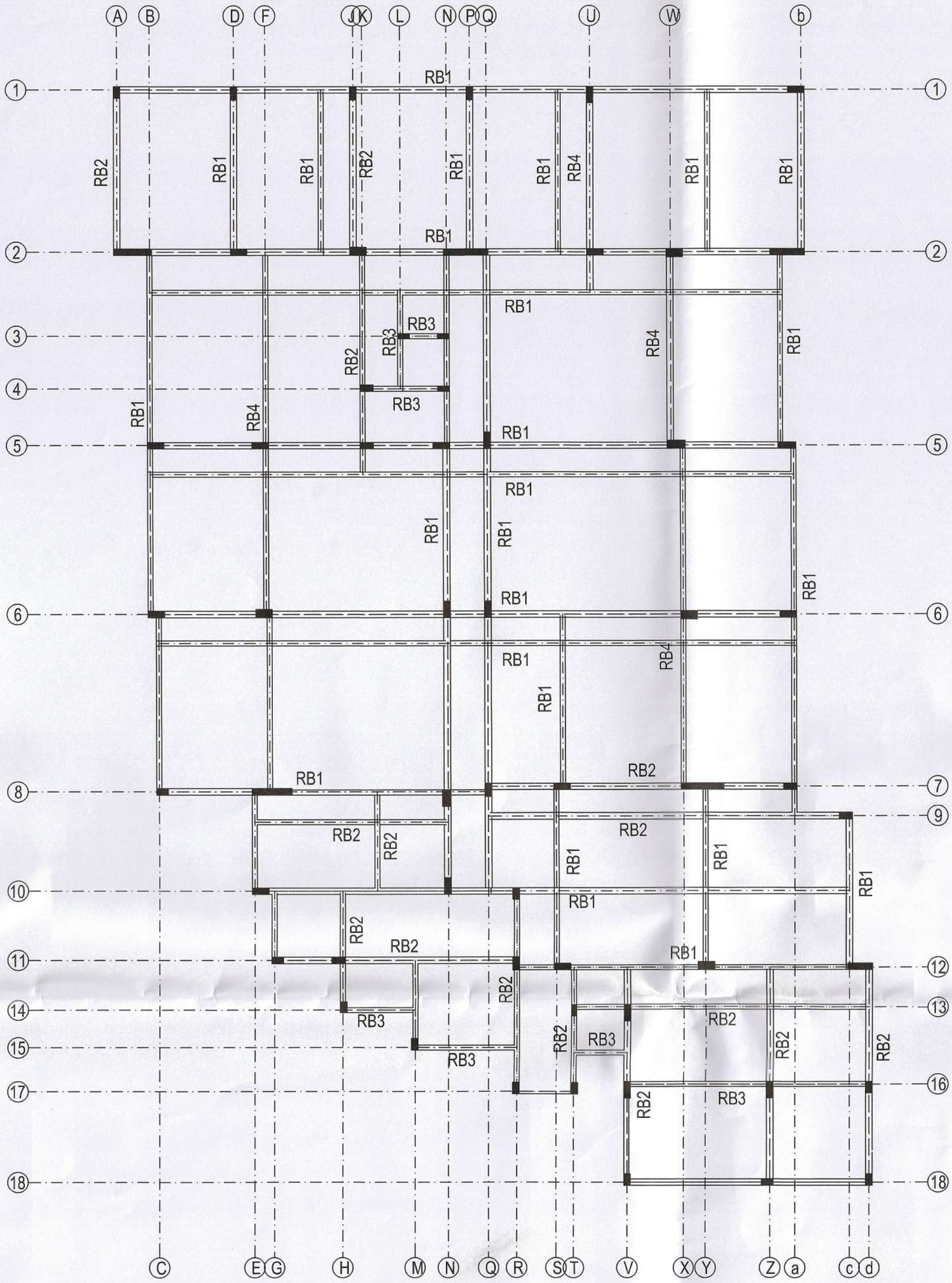
C.S OF PLINTH BEAM
230x750
(USE M30-Fe500)

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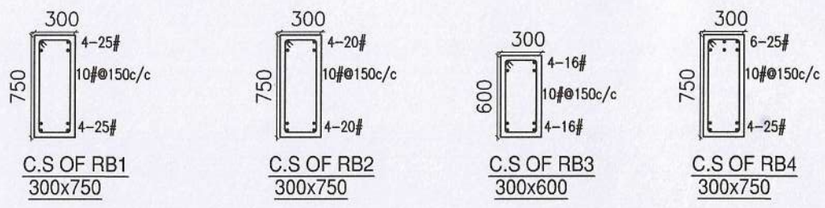
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NOTES

1. All dimensions are in mt.
2. Dimensions to be read, not scaled, Check in arch. dwg
3. Clear cover to the main reinf. as follows
   a) Col 25mm for 12mm bars & 40mm for >12mm
   b) Slab 20mm
   c) Beams 30mm
4. Use M25 Conc & Fe500 unless specified otherwise.
5. Slab thickness 125mm unless specified otherwise.
6. Crank length 0.2L of span.
7. Top rod extn. 0.3L of span.
8. Sunk the slab as per arch dwg.
9. Roof Levels refer to Arch. Drg.
10. Leave dowels/Sleeves wherever necessary.



TYP ROOF LAYOUT



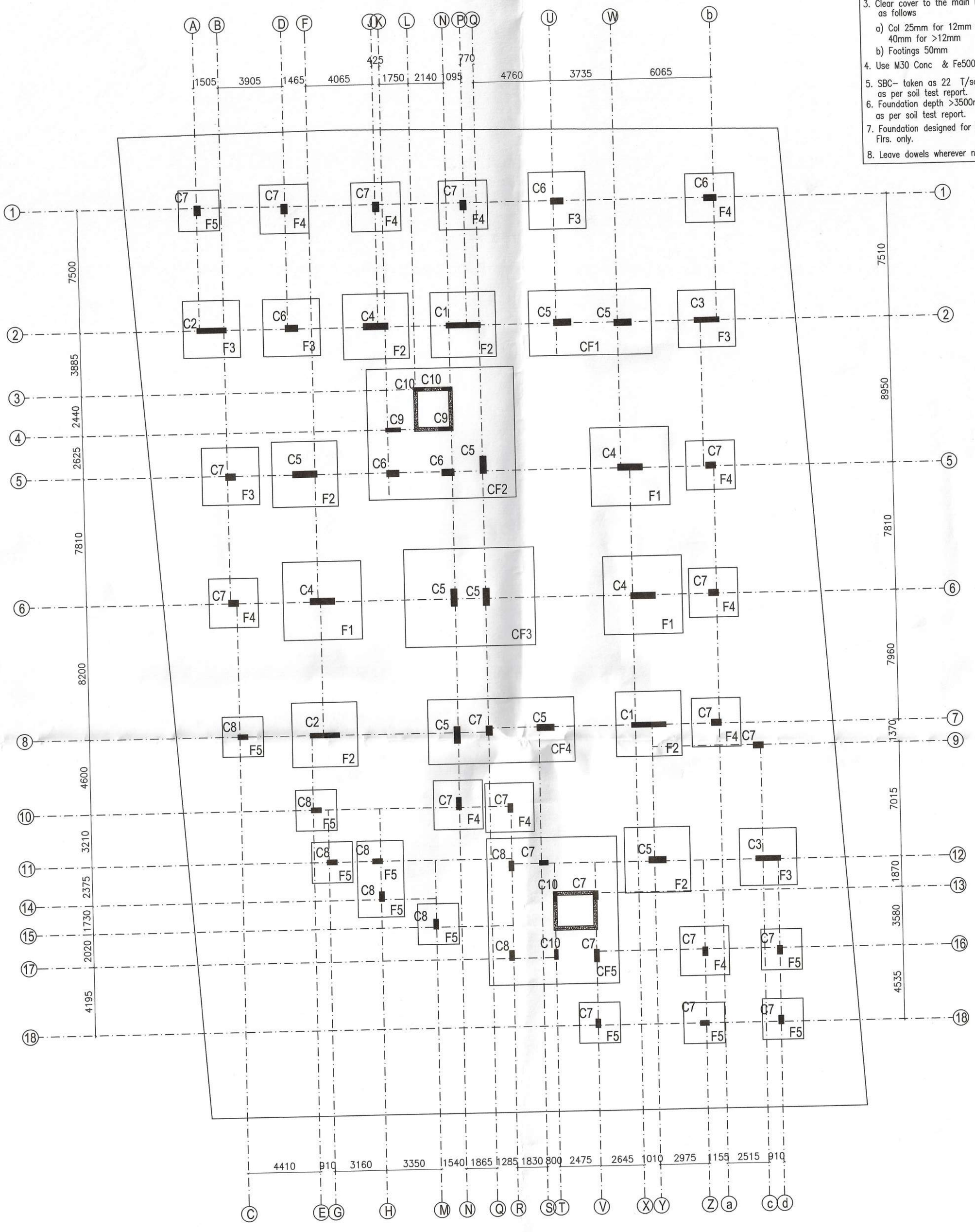
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NOTES

1. All dimensions are in mm.
2. Dimensions to be read, not scaled, and to be Checked with arch. dwg only.
3. Clear cover to the main reinf. as follows
   a) Col 25mm for 12mm bars & 40mm for >12mm
   b) Footings 50mm
4. Use M30 Conc & Fe500 Steel.
5. SBC– taken as 22 T/sqm as per soil test report.
6. Foundation depth >3500mm as per soil test report.
7. Foundation designed for Stilt+5 Flrs. only.
8. Leave dowels wherever necessary.



FOOTING LAYOUT

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Smarter Tools, Stronger Decisions

Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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