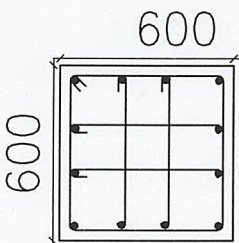
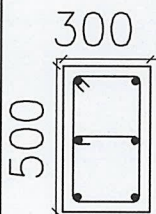
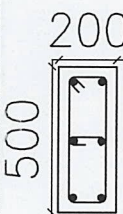
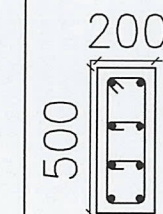
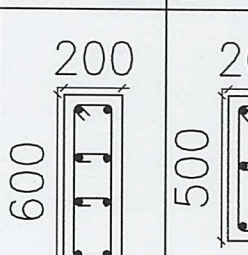
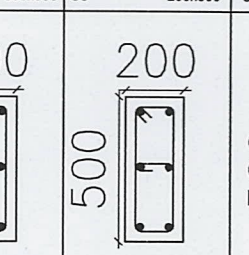
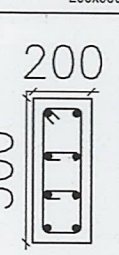
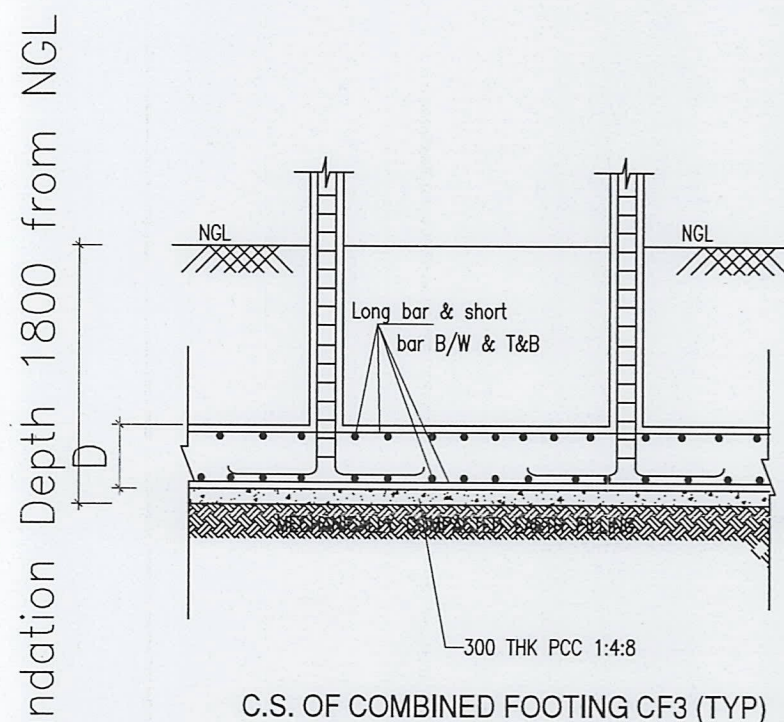
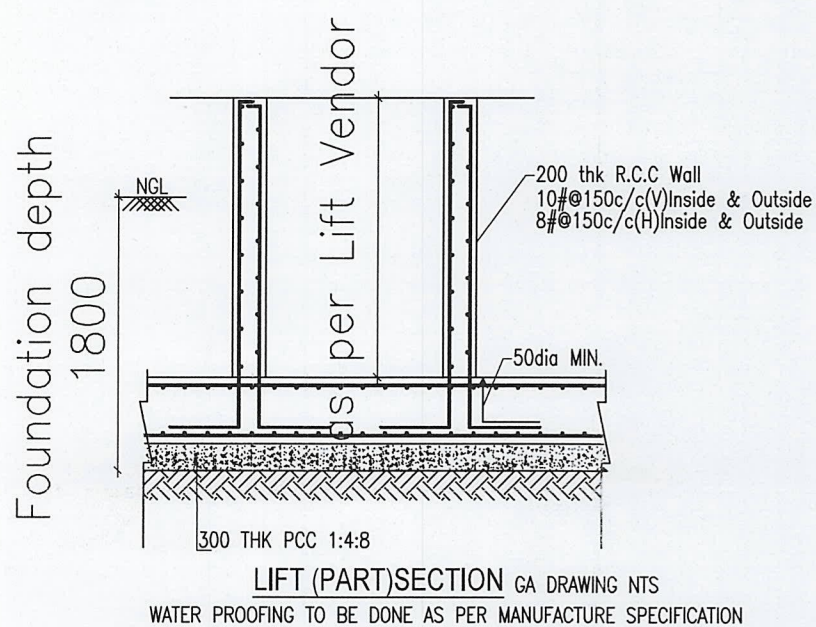


COLUMN DETAILS (M40-Fe550) UP TO STILT ROOF							
C1	600x600	C2	300x500	C3	200x500	C4	200x500
							
• 12-25# 8#@150c/c		• 6-25# 8#@150c/c		• 6-25# 8#@150c/c		• 8-12# 8#@150c/c	

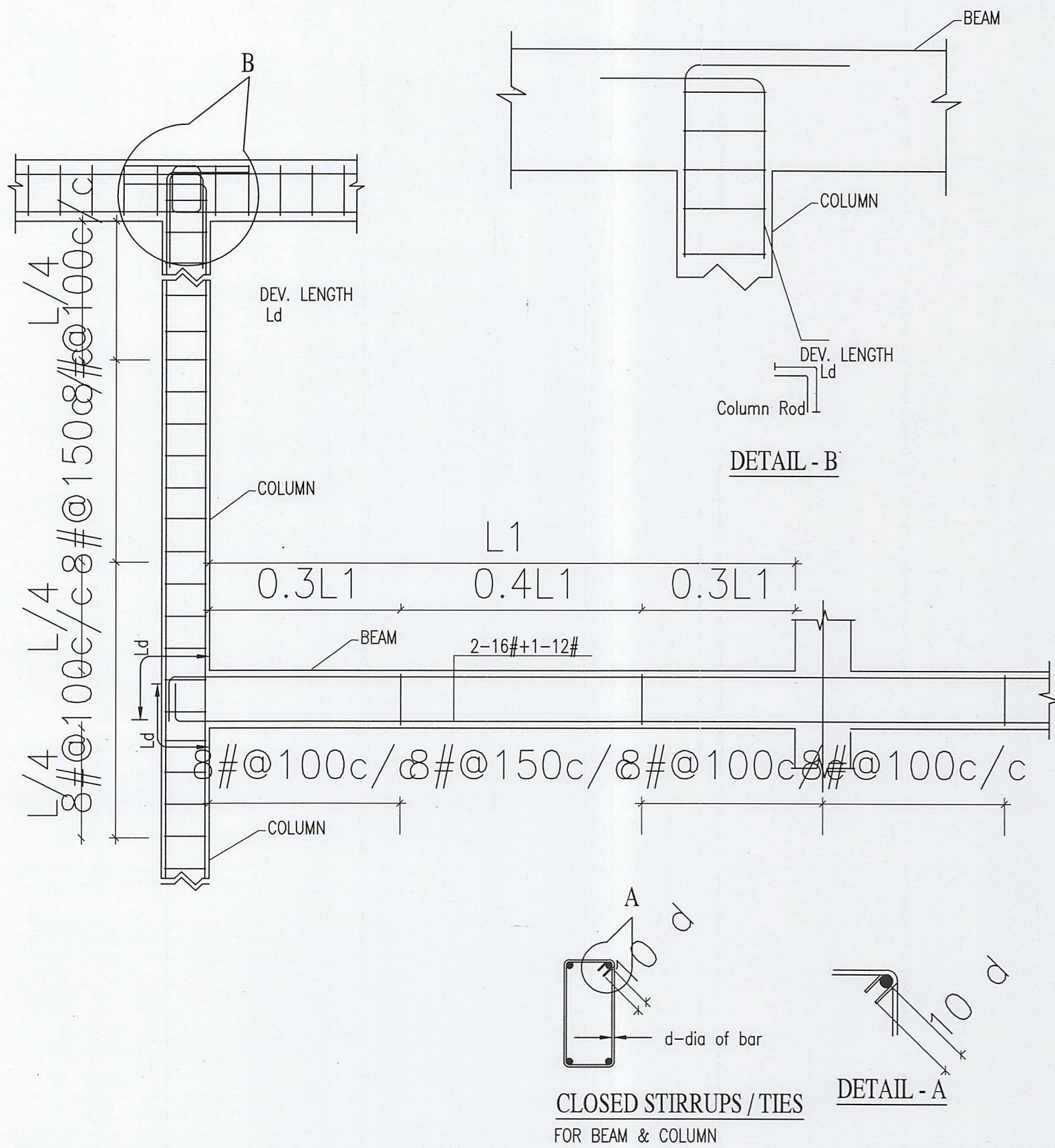
COLUMN DETAILS (M40-Fe550) ABOVE STILT ROOF							
C1	300x600	C2	300x500	C3	200x500	C4	200x500
							
• 8-25# 8#@150c/c		• 6-25# 8#@150c/c		• 6-25# 8#@150c/c		• 8-12# 8#@150c/c	



NOTES

- All dimensions are in mm.
- Dimensions to be read, not scaled, and to be Checked with arch. dwg only.
- Clear cover to the main reinf. as follows
 - Col 25mm for 12mm bars & 40mm for >12mm
 - Footings 50mm
- Use M40 Conc & Fe500 Steel.
- SBC- taken as 25 T/sqm
- Foundation depth -1800mm as per soil test report.
- Foundation designed for Stilt+5 Flrs. only.
- Leave dowels wherever necessary.

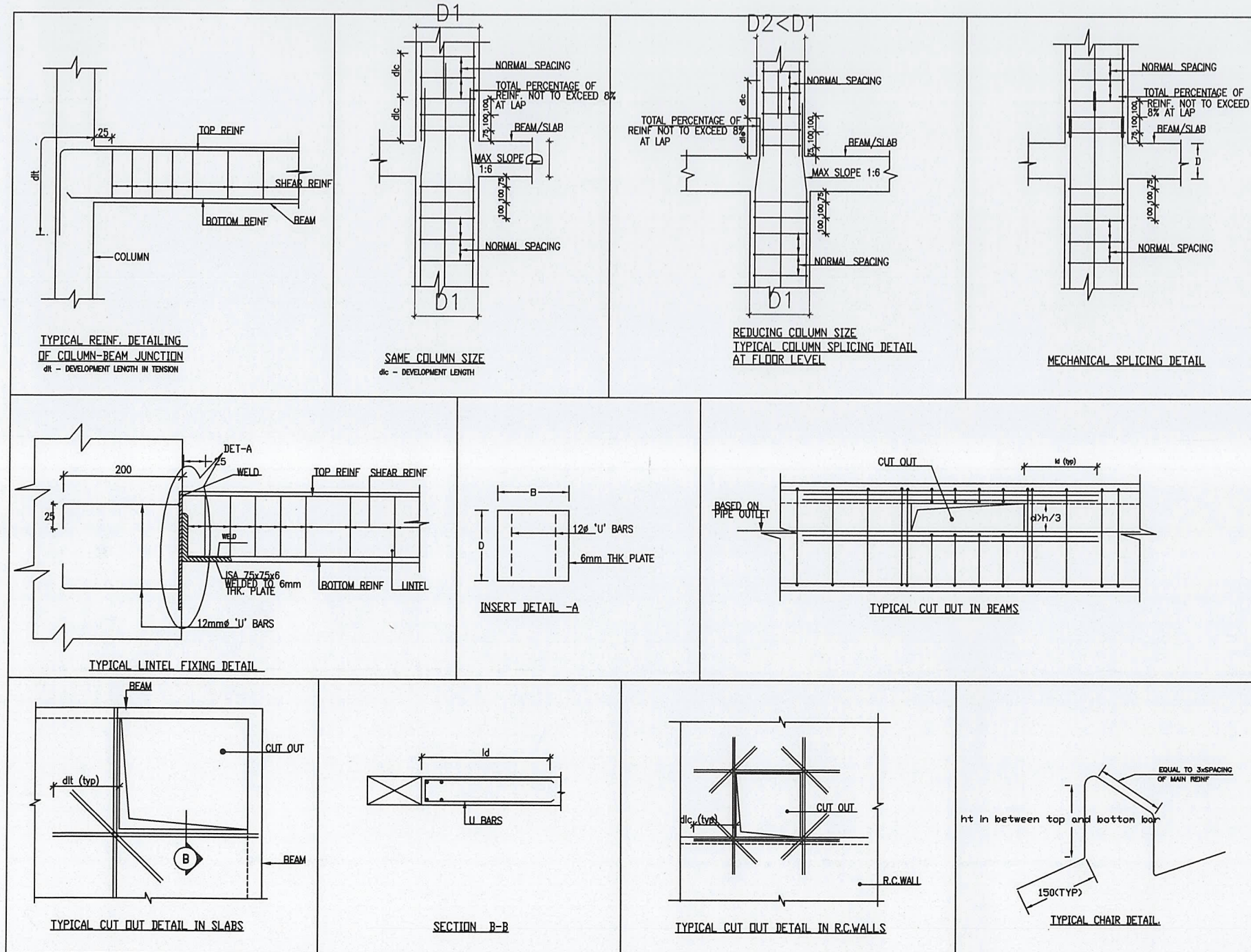
B.S.
B.SRINIVASAN, B.E., A.M.I.E., C.Engg.,
Structural Engineer Grade - II
CMDA Reg No.S.E/GR-II/19/08/152
176/311, ARCOT ROAD,
KODAMBAKKAM, CHENNAI-600 024



SEISMIC DETAILING

BS
B.SRINIVASAN, B.E., A.M.I.E., C.Engg.,
Structural Engineer Grade - II
CMDA Reg No. S.E./GR-II/19/08/152
176/311, ARCOT ROAD,
KODAMBAKKAM, CHENNAI-600 024

GENERAL DRAWING



GENERAL DETAILS

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, EQUIPMENT: 300 Kg/Sq.m
AS PER ACTUALS
 - c) STAIRS
 - d) TERRACES : 400Kg/Sq.m
- 2.3 SHUTTERING FOR FOOTING 200KGS/Sq.m, PLYWOOD SHEETING.
SHUTTERING FOR COLUMN AND BEAMS BY DRCEL/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 REPUTED TESTING 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.

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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 OVER 6.0M	14 DAYS 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)		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.
	Min.	Max.	
A	100	180	
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.

Bh
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