

GRADE OF CONCRETE	M 25	Ld = DEVELOPMENT LENGTH	Fe-500D 60 X db
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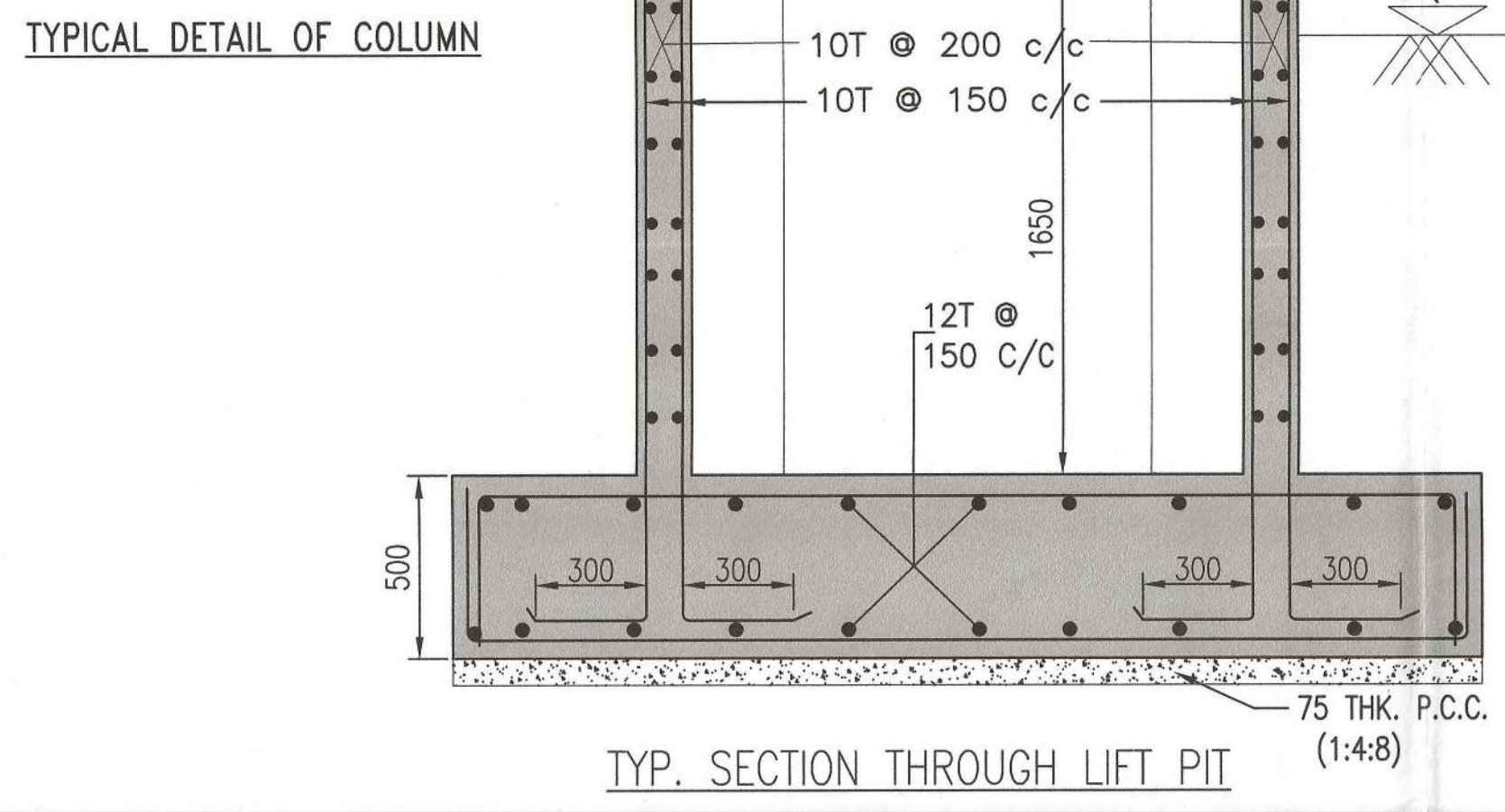
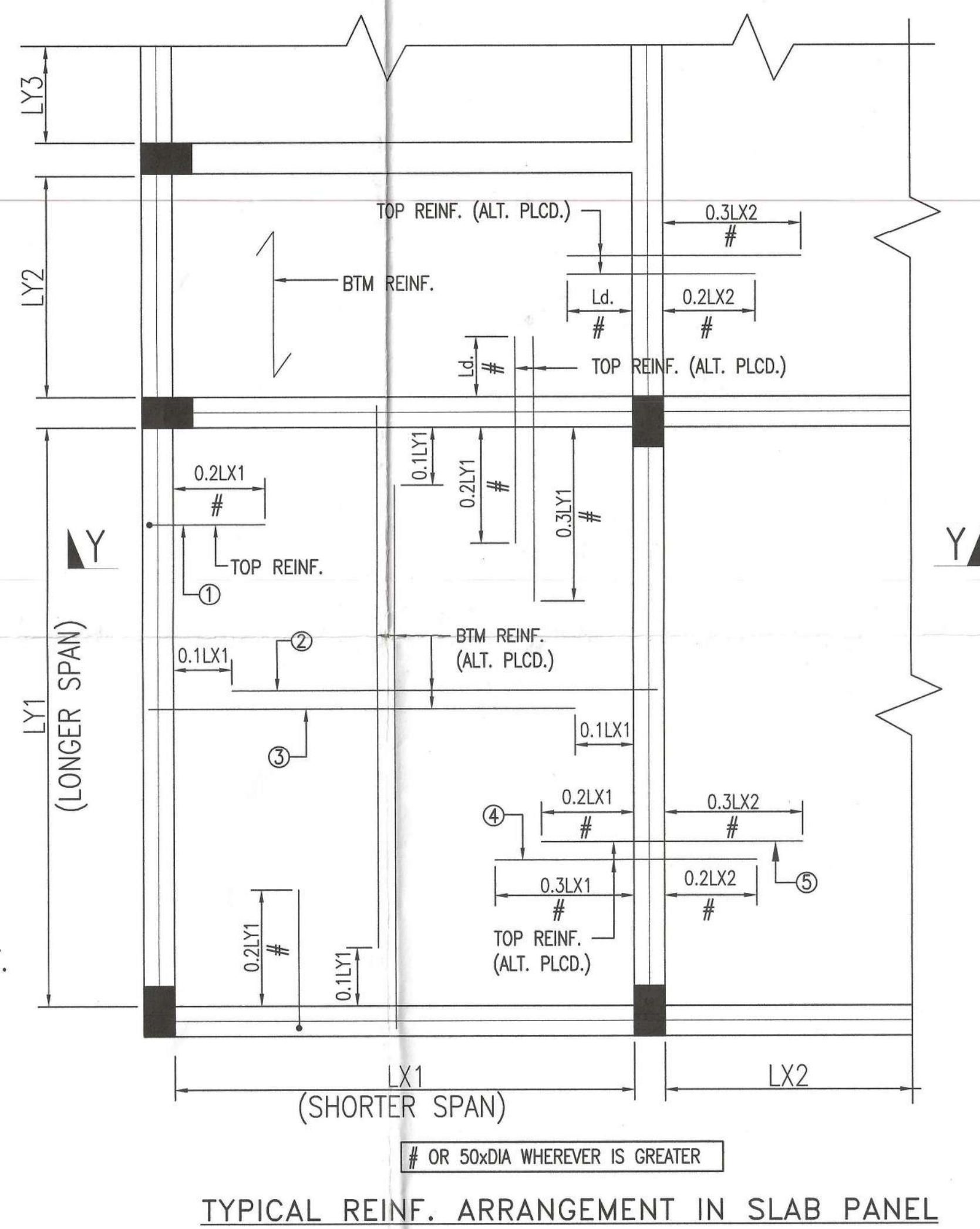
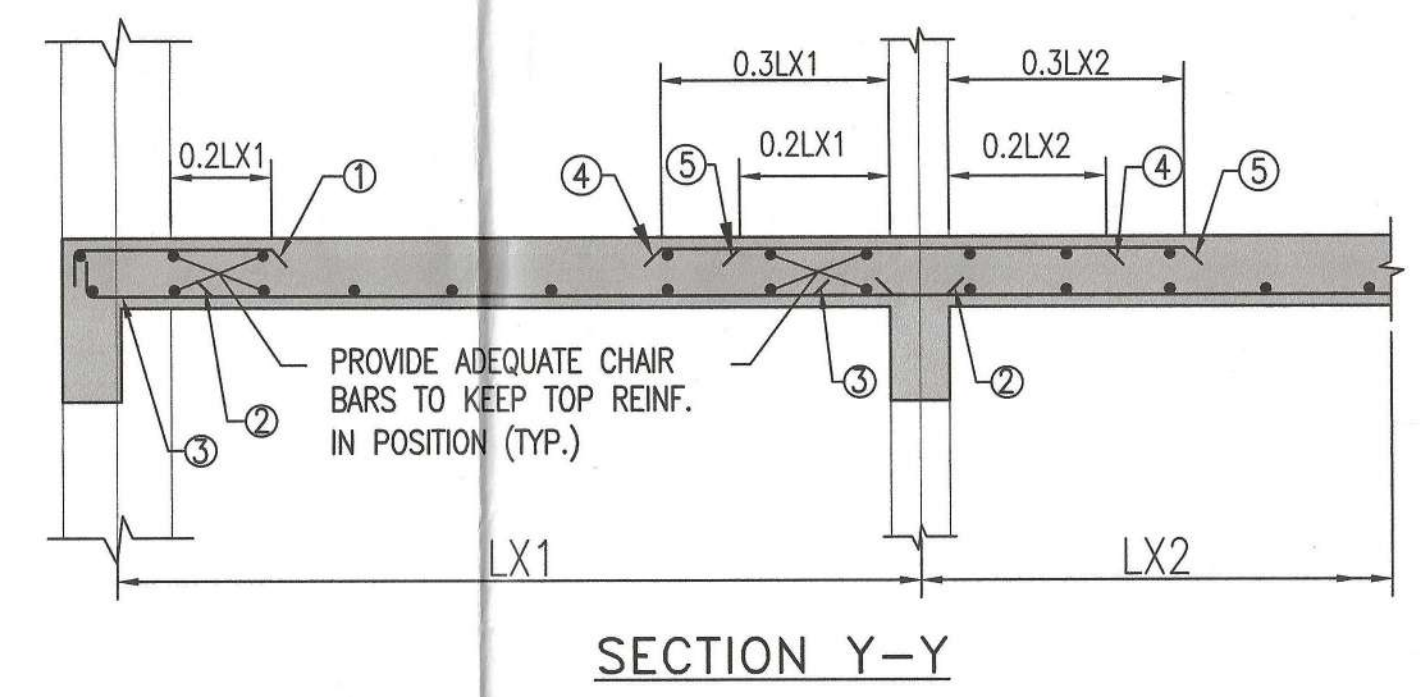
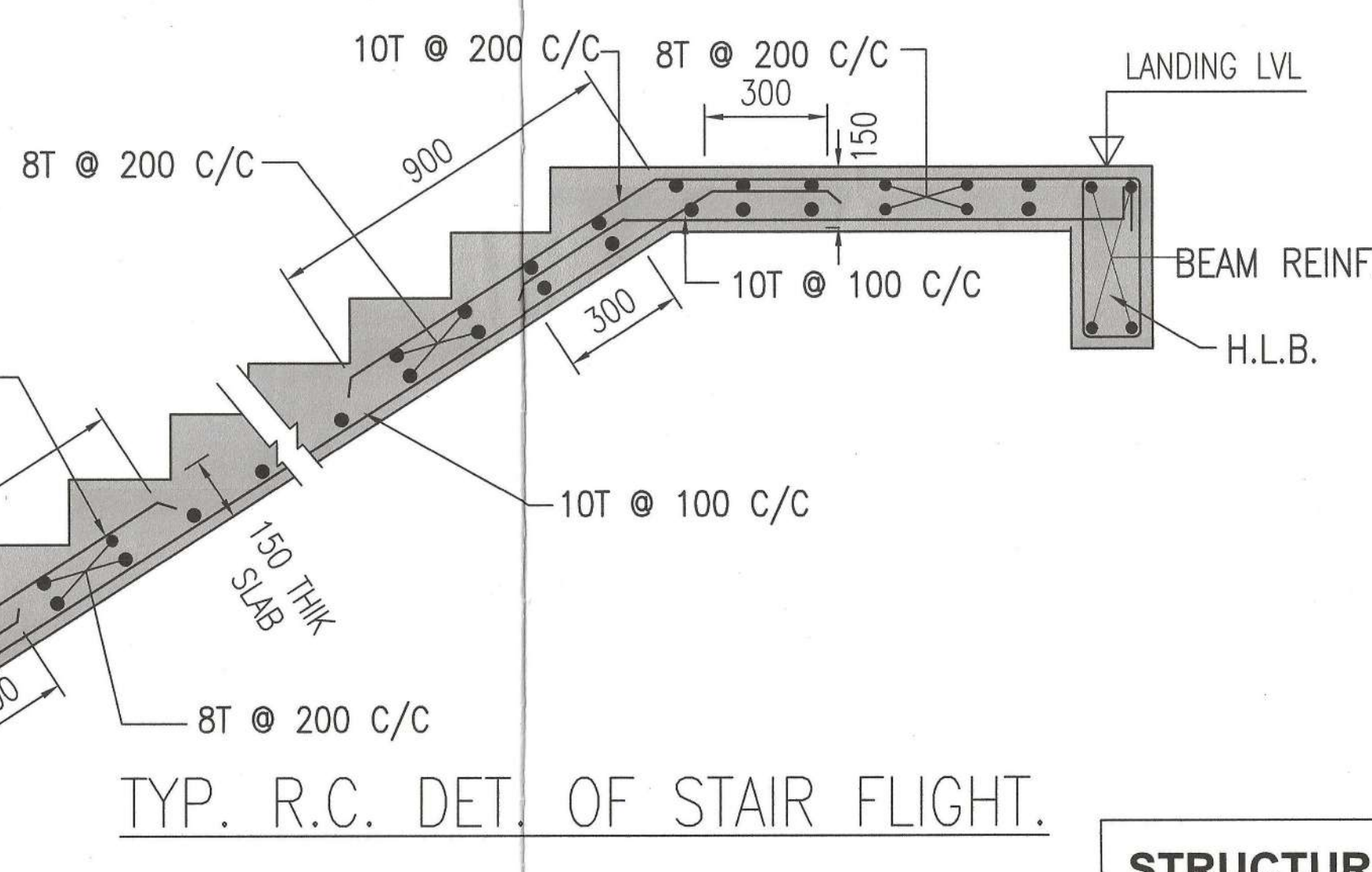
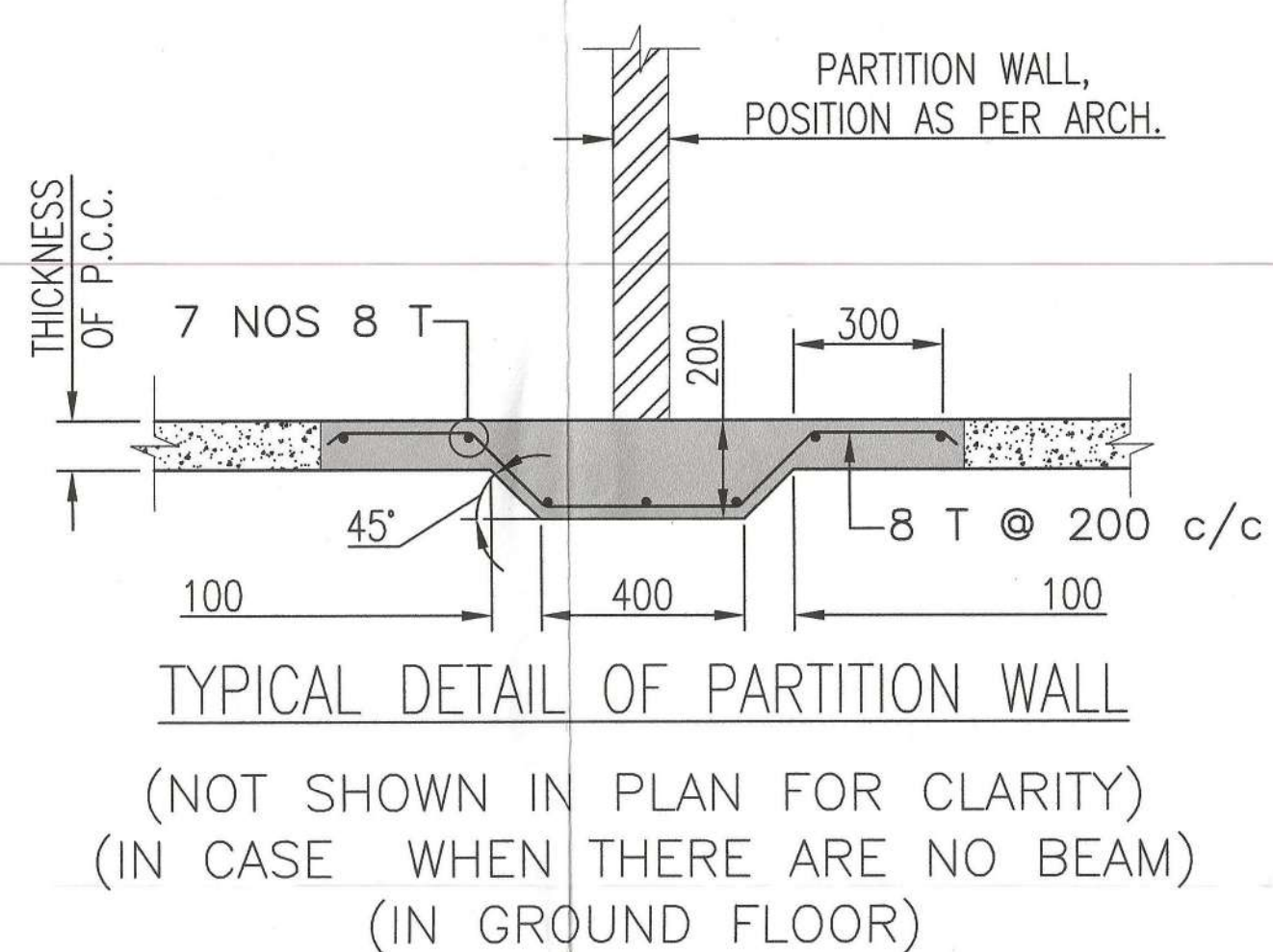
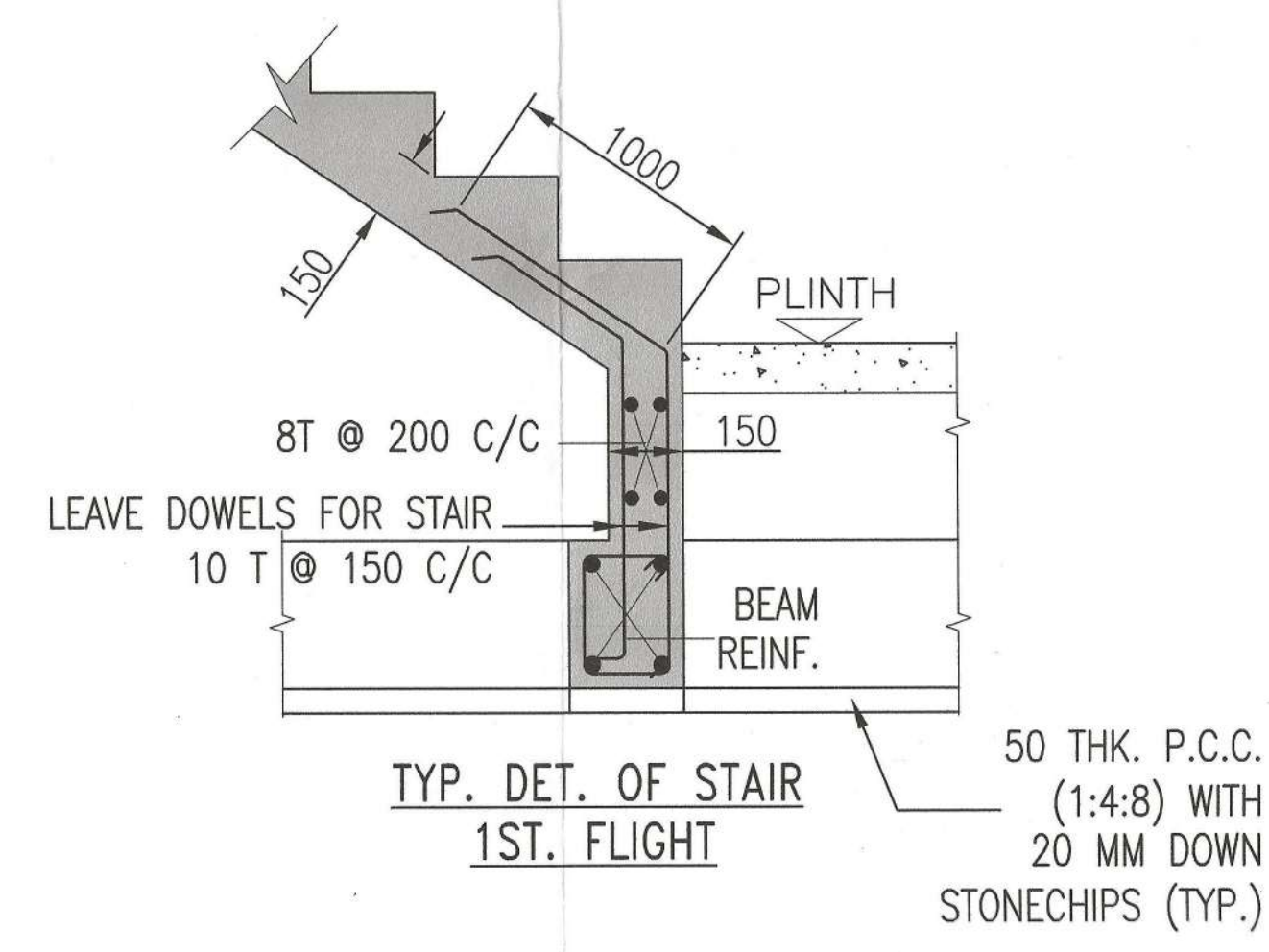
- A. Reinforcement:**
- Unless otherwise specified all reinforcement to be used shall be TMT. bars of grade Fe-500D conforming to IS-1786-2008 and elongation shall be minimum 14.5 percent.
 - Adequate chair bars to be provided to keep the top reinforcement in proper position.
 - Unless otherwise stated lap length of bars shall be development length.
 - Unless otherwise specified distribution reinforcement shall be 8 T @ 300 c/c.
 - Unless otherwise stated concrete cover to main reinforcement shall be as follows:

GRADE SLAB	: 20MM	TIE BEAM	: 25MM
COLUMNS	: 40MM	FLOOR BEAMS	: 25MM
FDN OR STITCHING SLAB	: 50MM	FLOOR SLABS	: 20MM
STAIR WALL	: 40MM	STAIR CASE	: 20MM
WATER TANK	NEAR WATER FACE : 45MM AWAY FROM WATER FACE : 25MM		

- B. STRUCTURAL CONCRETE**
- Unless otherwise specified Grade of Concrete in structural members shall be M25
 - COMPACTION OF CONCRETE SHALL BE DONE BY MECHANICAL VIBRATOR. PROPER CARE SHALL BE TAKEN TO AVOID SEGREGATION AND HONEYCOMING.
- C. NOTES FOR SLAB:**
- All small cutouts (size maximum 300x400) are not shown in plan. coordinate with arch & services dig. for the same. Trimmer bar should be provided (2x2)T0T ext.
 - For cutouts exceeding above mention size, trimmer bars should be provided as shown in respective slab rein. dig.
 - SUPPORT REINFORCEMENT IN SLAB FOR ADJACENT PANELS :- provide greater of the two (L.e. rein. with lesser spacing) unless specified otherwise.
 - Support reinforcement in slab shall be 0.2l / 0.3l Or development length L.e 50 x dia of bar, whichever is greater from the face of support.
 - Distribution steel not shown in drawing for clarity, provide 8 T @ 300 c/c.
 - DEVELOPMENT OF BOTTOM REIN. :- No curtailment of bars, rest shall be done for bars having spacing 200 c/c or more.

- D. GENERAL NOTES:**
- Unless otherwise stated all construction activities shall be carried out conforming to relevant (Indian) standard codes of practice.
 - All dimensions are in millimeters & levels are in Meter. Except otherwise mentioned only written dimensions shall be followed. All levels given in structural drawings are in accordance with architectural drawings, and indicates structural level only (without finish). However architectural drawing to be coordinated for all levels.
 - All structural drawing shall be read along with this drawing as well as relevant architectural drawings.
 - Any discrepancy in the structural and architectural drawings shall be brought to the notice of design office before execution of work.

- OTHERS NOTES:**
- Read this drawing along with architectural & structural drawing.
 - Do not scale, follow written dimensions only.
 - All dimensions & levels shall be checked & co-related with relevant architectural & structural drawing & in case of ambiguity the matter shall be brought to the notice of the consultant before starting the work.
 - Grade of concrete to be used - M25 [As per IS:10262-2009]
 - Not more than 50% of bars shall be lapped at any section. Lap length shall not be less than 60 times the dia. of smaller bar.
 - Lap should be avoided in following cases :-
Top bars - near support
Bottom bars - near mid span
 - Wherever necessary sufficient chairs @ 75mm. shall be provided to support the top reinforcement.
 - Thickness of slab panels are 120mm unless noted otherwise.
 - Water curing must be done at least for 21 days.
 - All concrete shall be machine mixed and machine vibrated.
 - Binders for extra top of slab rein. shall be @ 300 c/c.
 - 2nos. 12# bars are to be placed at bottom of slab where 125mm. brickwork are directly proposed on slab.
 - ALL CONCRETE MIX SHALL BE MACHINE MIXED AND MACHINE VIBRATED. Sufficient cube strength Test shall be performed to confirm the strength for all concrete batches.
 - All levels are to be fixed with respect to benchmark established at site.
 - Reinforcements are to be of grade Fe 500 D TMT bars conforming to IS:1786.
 - Lap length should not be less than 50 x dia of lesser dia bar except otherwise mentioned.
 - All main steel shall be embedded to support with suitable development length (80dia of bar) except otherwise mentioned.
 - All works are to be carried out as per technical specifications, NT stipulation & relevant codes.
 - Hook length of stirrup and link should be 65mm.(minimum).
 - Reinforcement detailing of all structural members must conform to IS-13920:2016.



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SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE L.B.S

SIGNATURE OF STRUCTURAL REVIEWER

SIGN. OF OWNER

STRUCTURAL DRAWING OF 'SAMAIRA APARTMENT' OF B+G+IV RESIDENTIAL BUILDING OF R.S. DAG NO.- 1951, 1957, 1958, J.L. NO.- 106, L.R. KHATIAN NO.- 4819, 4820, 4821, 4822, 4837 & 4838, MOUZA - KARIDHYA, P.S. - SURI, DIST.- BIRBHUM, UNDER KARIDHYA GRAM PANCHAYET, SURI, BIRBHUM.

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