

FLOOR SLAB REINFORCEMENT SCHEDULE				
Panel Mkd.	Thick (mm)	Bottom Reinforcement	Top Reinforcement over Contn. Suppt.	
		Short Span (2,3) Long Span (6,7)	Short Span (4,5) Long Span	
S1	120	8@150 c/c	8@200 c/c	8@200 c/c

TYPICAL FLOOR BEAM SCHEDULE								
Beam Mkd.	Beam Size		Reinf. Alth.		Reinforcement Extra		Vt. Stirrups - 2L	
	B	D	Top	Bottom	Top at Suppt.	Bottom Span	Suppt.	Span
TY-BX-1	250	400	2-16	2-16	3-16	1-16	8 @ 150/c	8 @ 200/c
TY-BX-2	250	300	2-12	2-12			8 @ 200/c	8 @ 200/c
TY-BY-1	250	350	2-16	2-16	2-16	1-16	8 @ 150/c	8 @ 200/c
TY-BY-2	250	350	2-16	2-16	1-16		8 @ 150/c	8 @ 200/c
TY-BY-3	250	350	2-12	2-12		1-12	8 @ 200/c	8 @ 200/c
TIE BEAM	250	400	3-16	3-16			8 @ 200/c	8 @ 200/c

SCHEDULE OF R.C.C. COL. FOOTING											
FD. MKD.	COL. MKD.	LEN	WID	DEPTH	MAIN REINF.			PEDESTAL		Column Mkd.	Column Size
					EDGE	FACE	SHOR	LONG	HEIG		
F1	C1, C2, C3, C13, C14, C19 TO C26	2500	2500	500	200	12 @ 175/C	12 @ 175/C	400	500x500	8-16 @ 200 C/C	250 x 450
F2	C2, C3, C17, C18	2700	2700	550	200	12 @ 175/C	12 @ 175/C	400	500x500	8-16 @ 200 C/C	250 x 450
F3	C5, C11, C12	3000	3000	550	200	12 @ 175/C	12 @ 175/C	400	500x500	8-16 @ 200 C/C	250 x 450
F4	C7	2600	3400	600	200	12 @ 175/C	12 @ 175/C	400	500x500	8-16 @ 200 C/C	250 x 450
F5	C6	2600	4000	600	200	12 @ 175/C	12 @ 175/C	400	500x500	8-16 @ 200 C/C	250 x 450
F6	C18	2500	1800	550	200	12 @ 175/C	12 @ 175/C	400	500x500	8-16 @ 200 C/C	250 x 450

SCHEDULE OF COMBINED FOOTING											
FD. MKD.	BEAM SIZE	COL. MKD.	SUPPORT		SPAN		SIDE REINF.	STIRRUP	FOOTING SLAB		
			TOP	BOTT.	TOP	BOTT.			THICK (MM)	SIZE	RIN.
F7	500(W) X 700(D)	C9, C10, C15, C16	2-16	3-16	3-16	2-16	2L-10 @ 75/C AT SUPP. & 2L-10 @ 150/C AT SPAN	300 AT FACE OF COLUMN & 200 AT EDGE	2600	12 @ 200 C/C	250 x 450

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 Metre. 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.

STRUCTURAL CONCRETE:

- Unless otherwise specified Grade of Concrete in structural members shall be as follows.
 - Base Slab, Equipment Fdn. etc.-M20
 - Columns/wall - As specified in col. schedule.
 - Slabs & Beams-M20 / M20 iv) R.C. wall-M20
 - P.C.C. under foundation-(1:4:8) v) P.C.C. under floor-(1:3:6)
- NOTE:- Any sub structure construction will have minimum M-20 grade of conc.
- For U/G Tank and O/H Tanks concrete grade shall be M-20 added with water proofing compound like 'CONPLAST X421C' or similar product as per manufacturer's specification approved by the consultants.

REINFORCEMENT:

- Unless otherwise specified all reinforcement to be used shall be TMT. of grade Fe-415 (for dia 8 & 10) conforming to IS-1786-1985 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 is 50 x D (where D = Dia of bars).
- Unless otherwise specified distribution reinforcement shall be 8 T @ 300 c/c

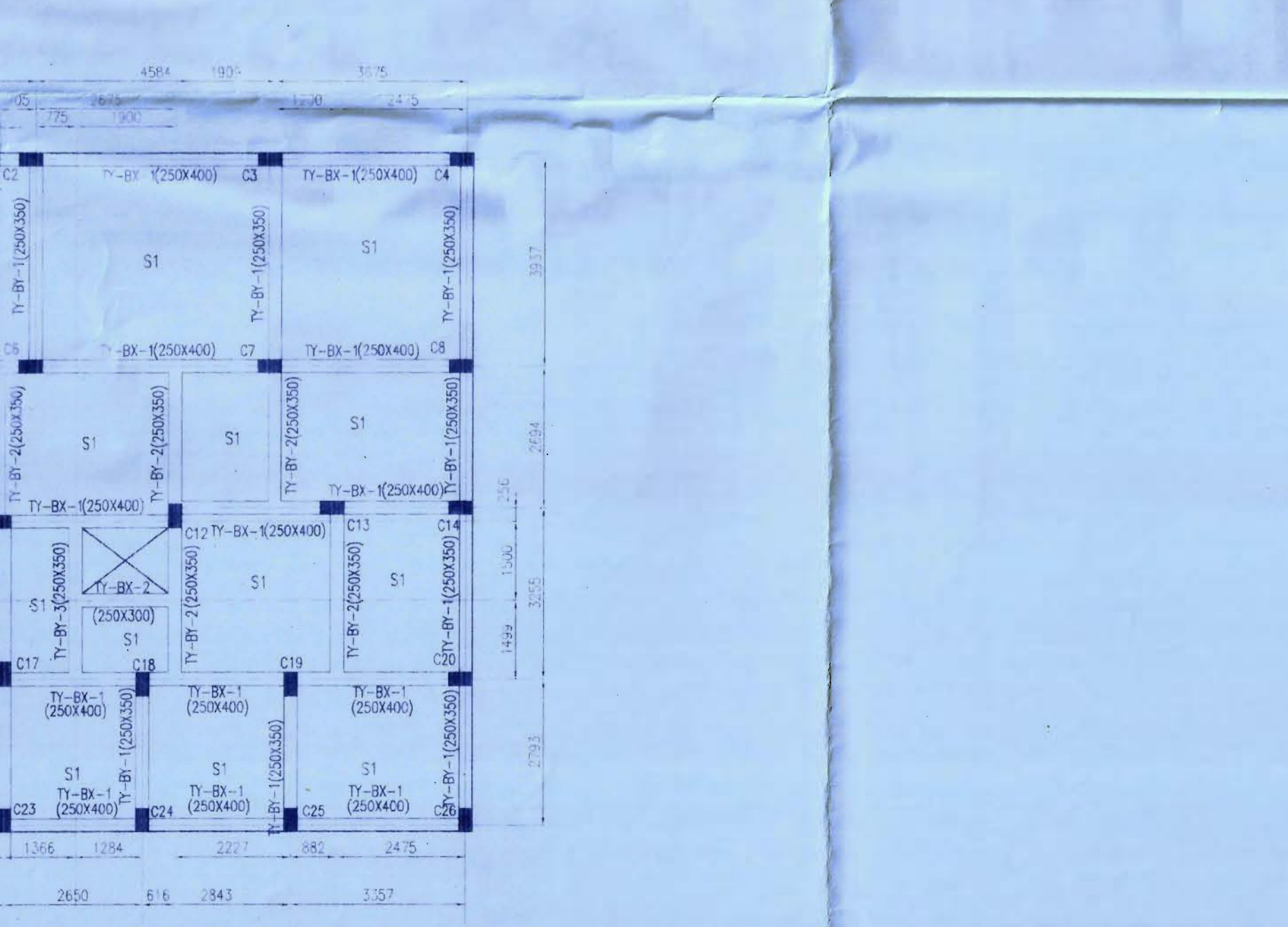
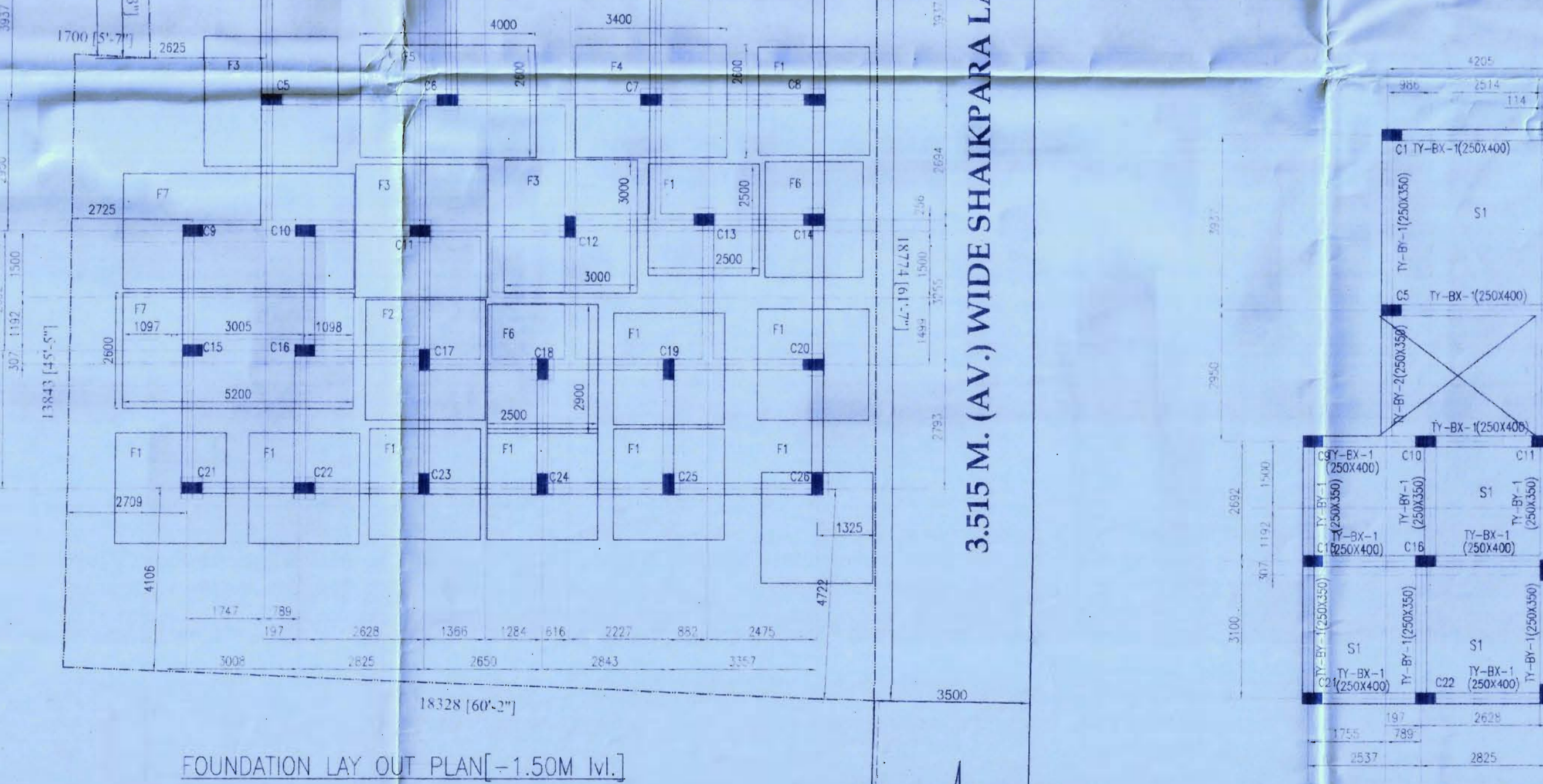
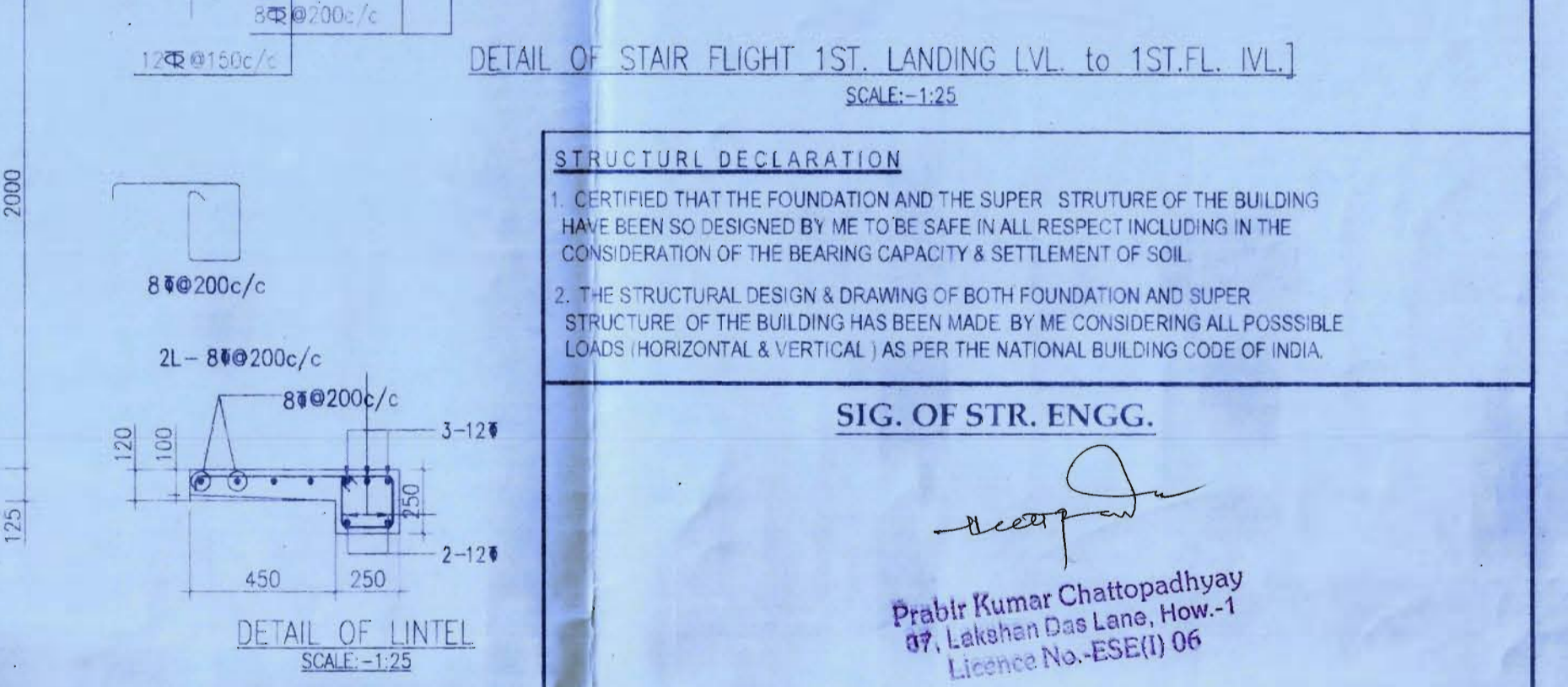
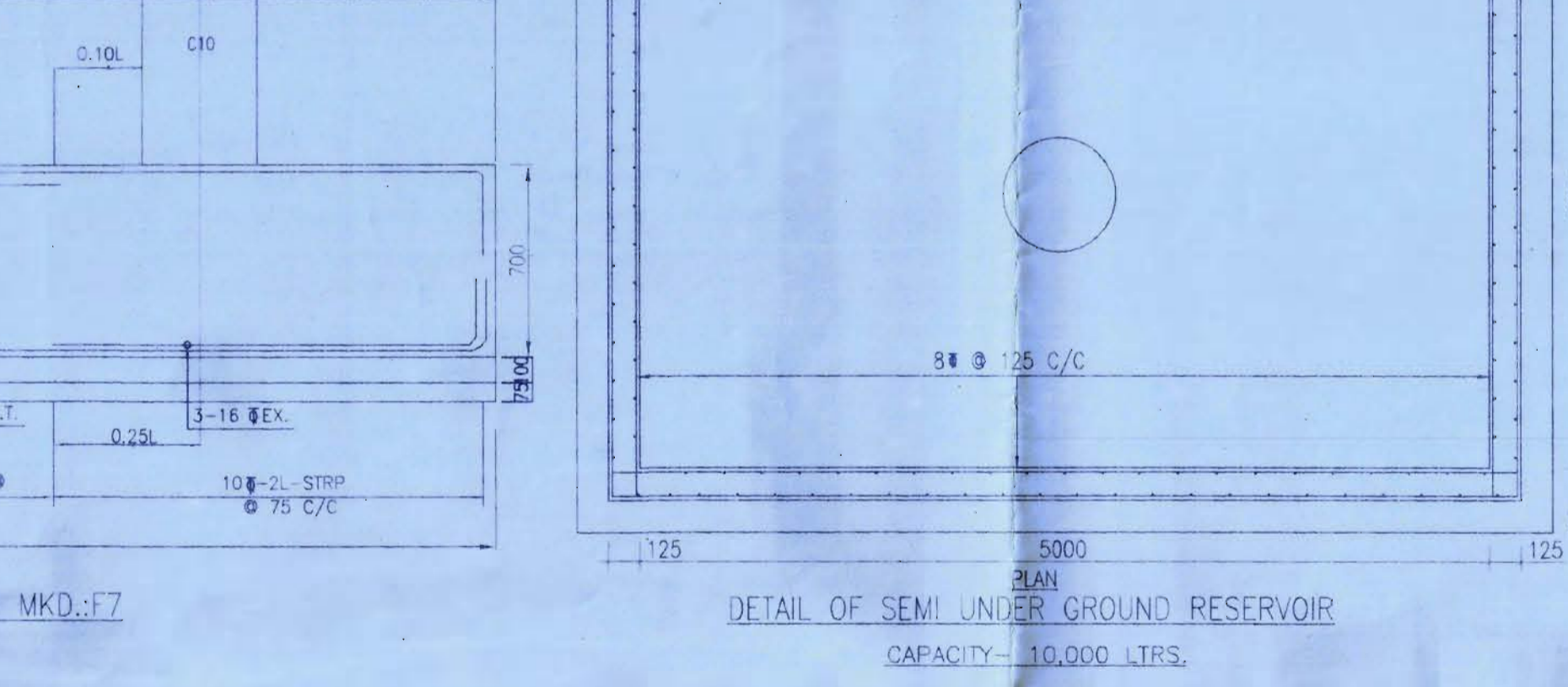
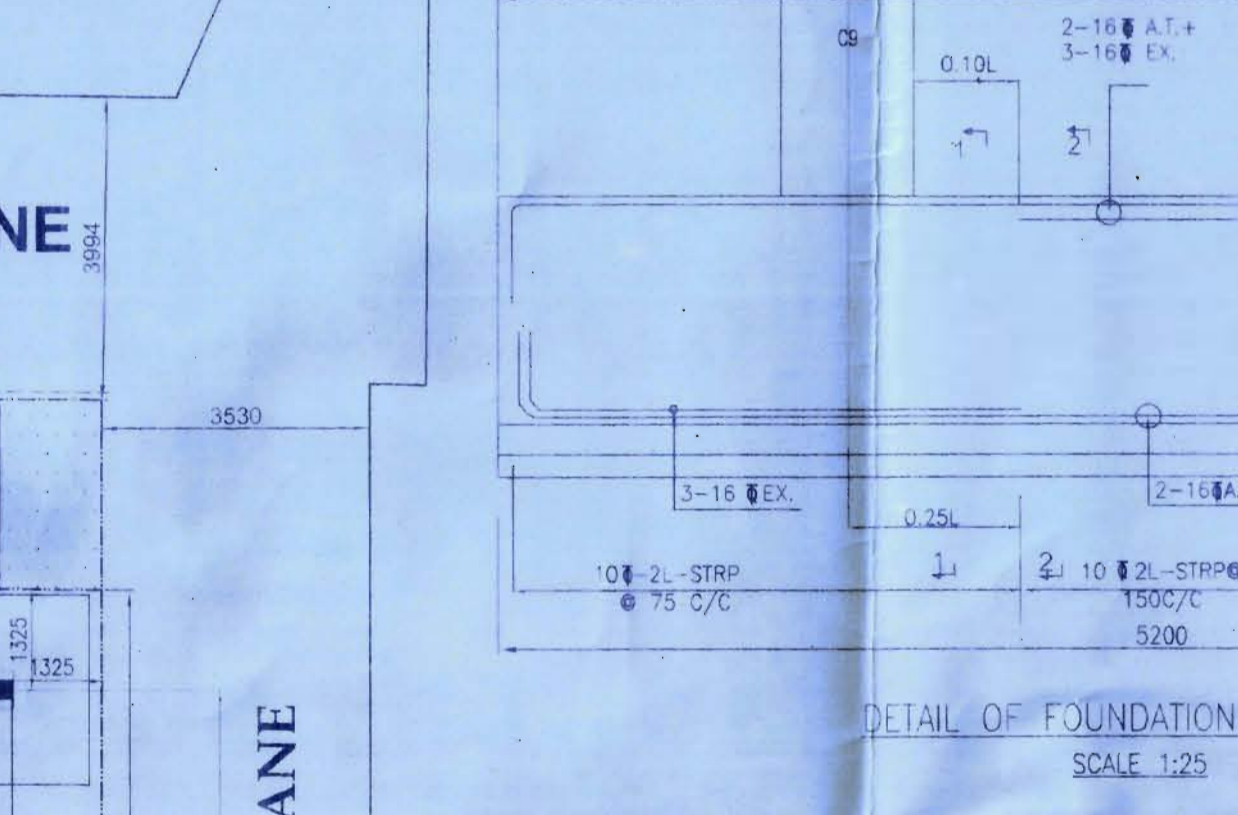
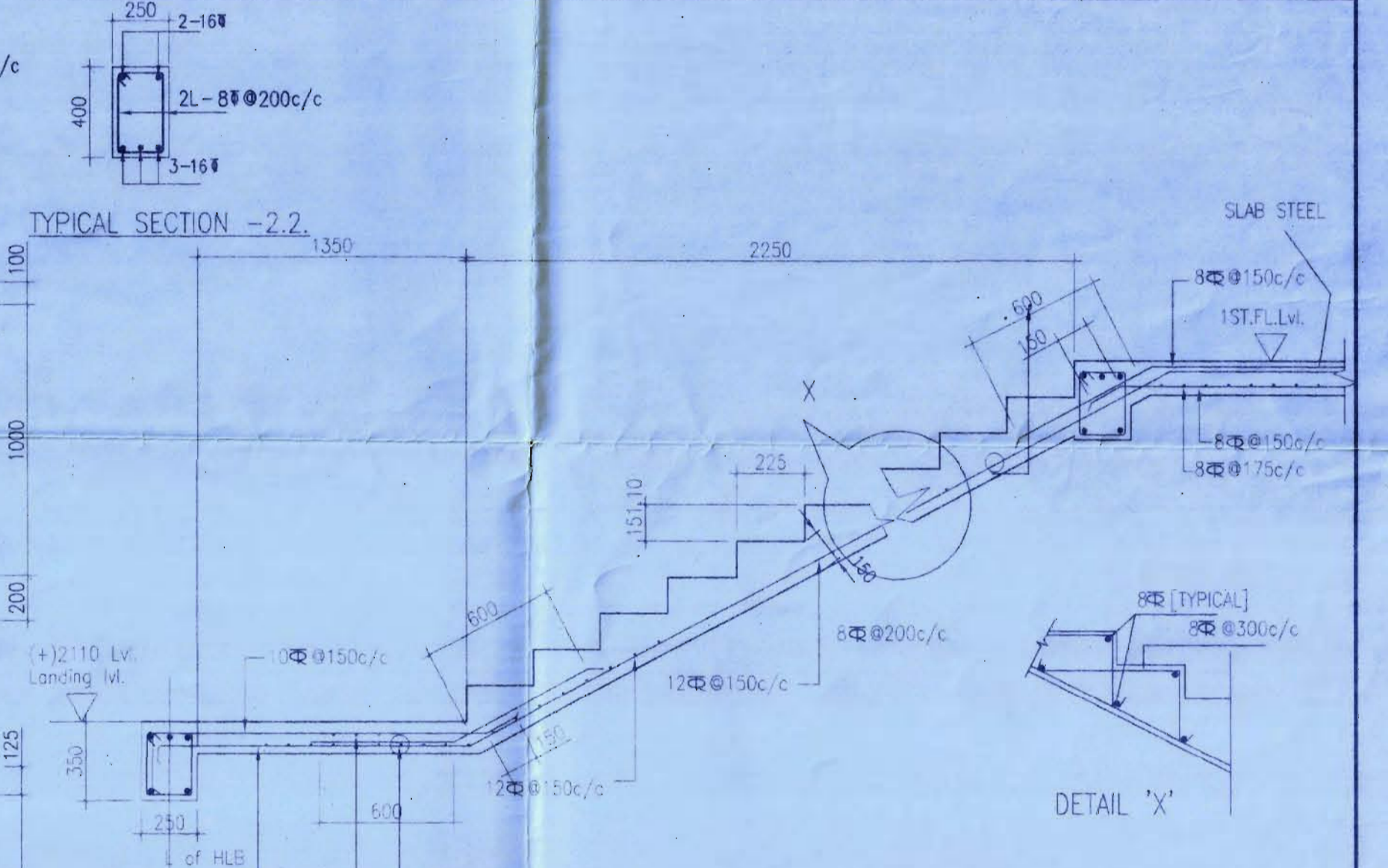
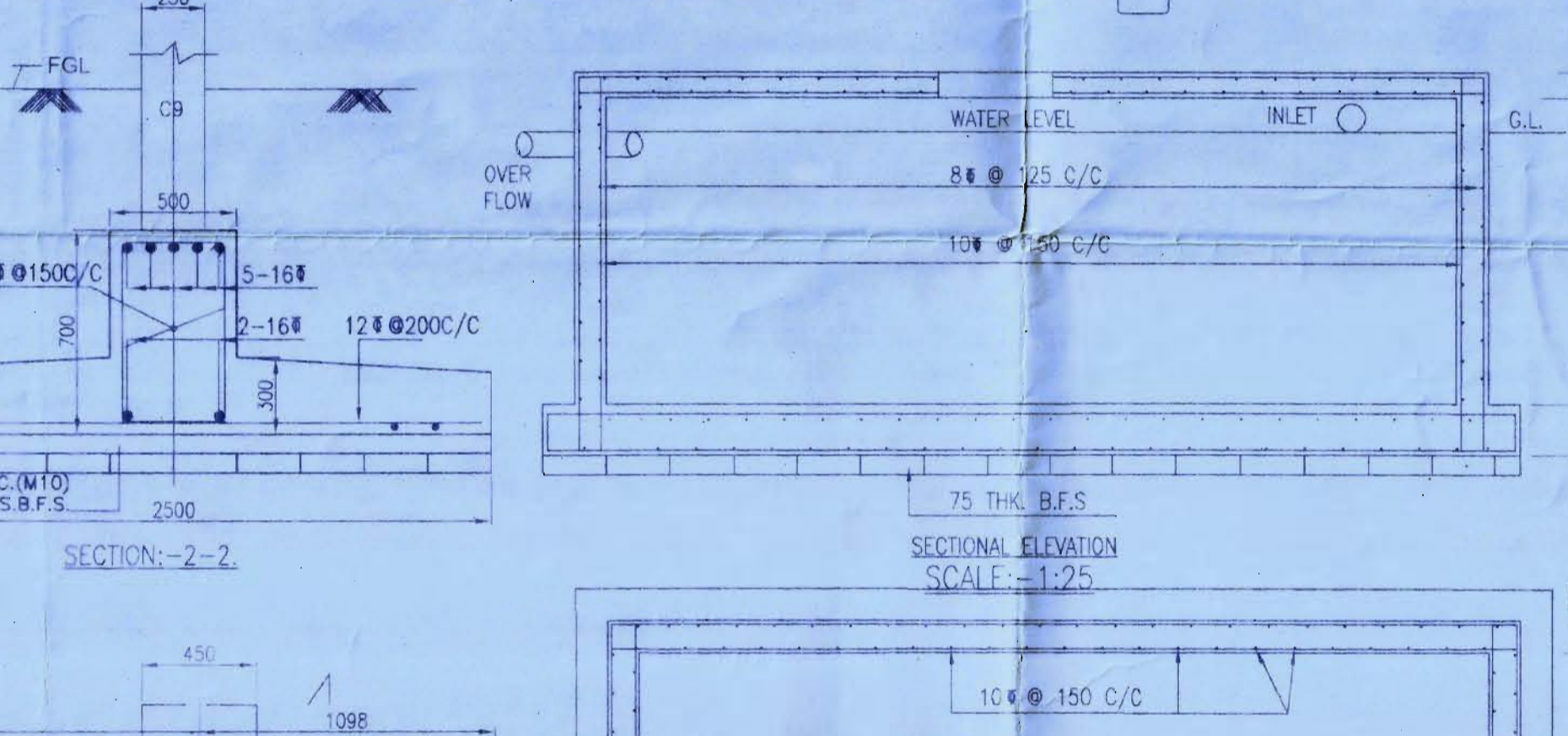
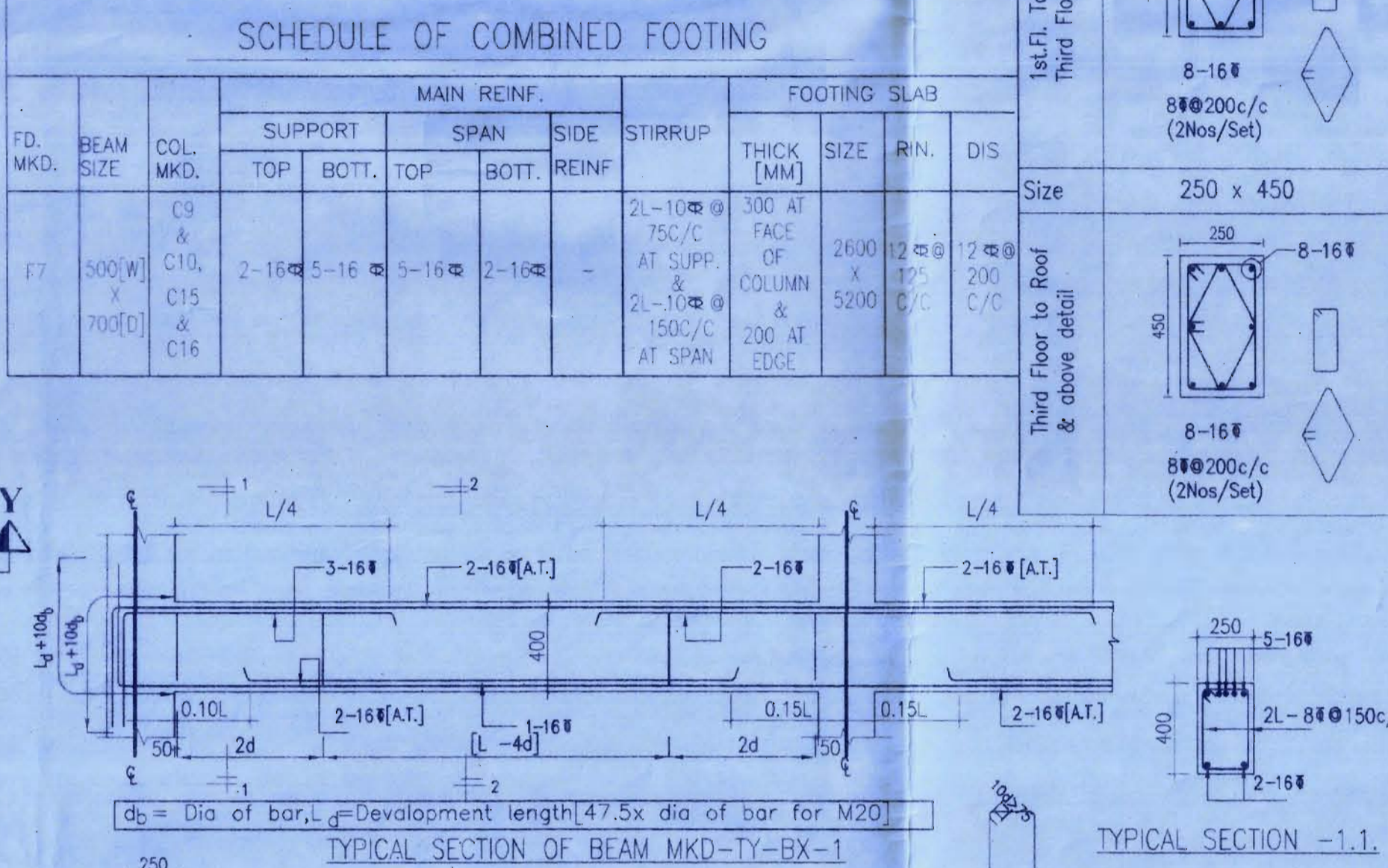
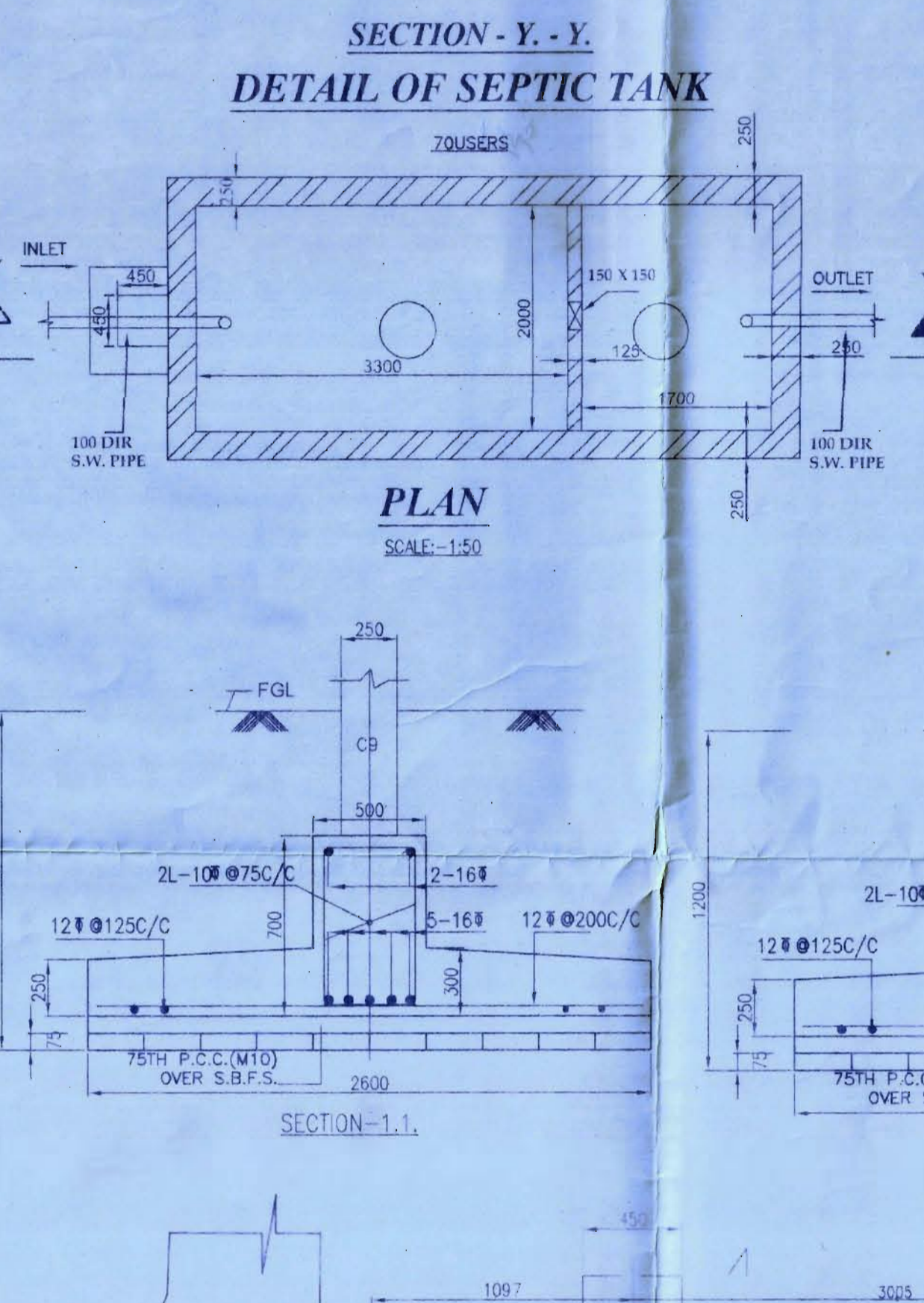
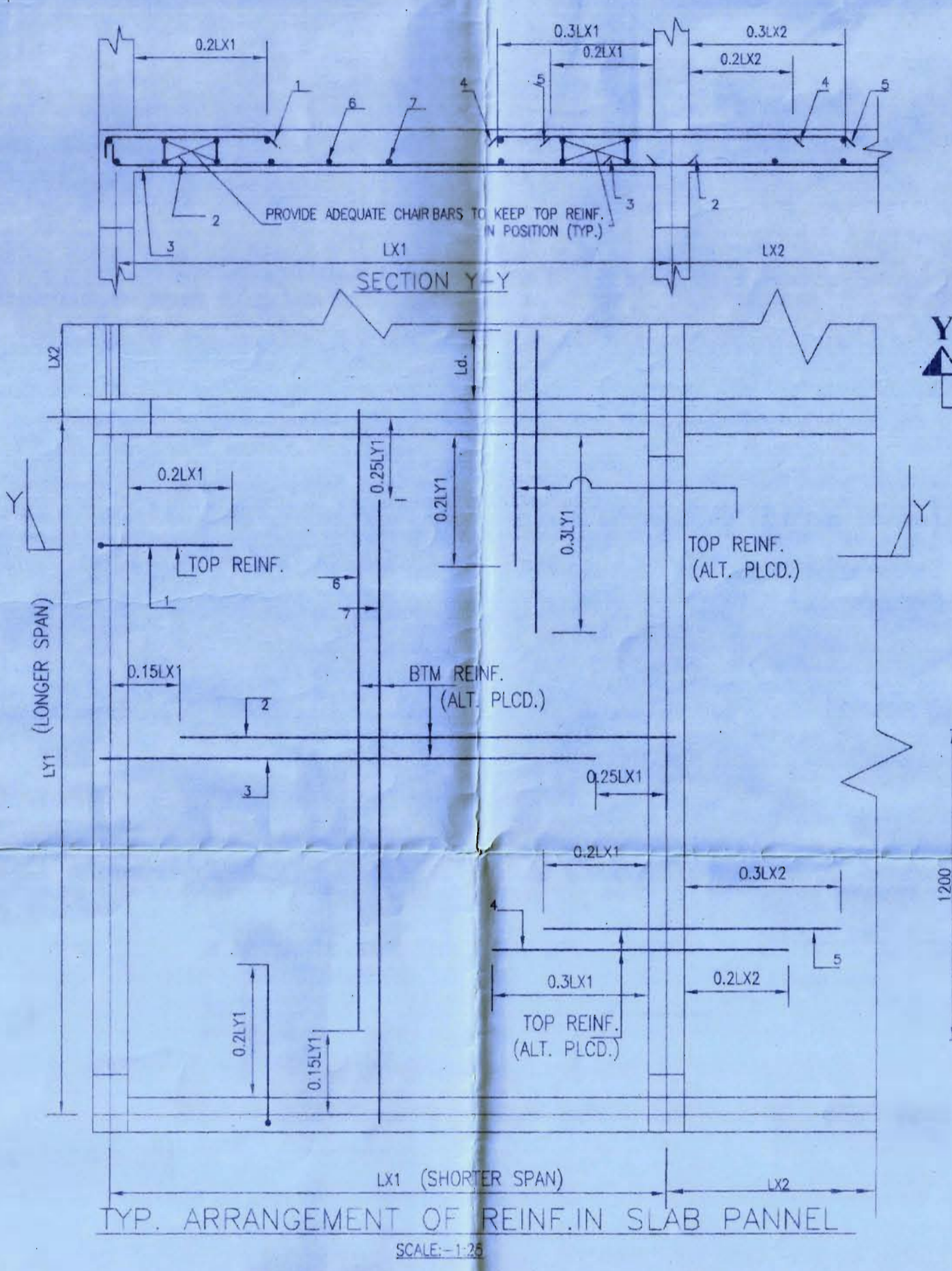
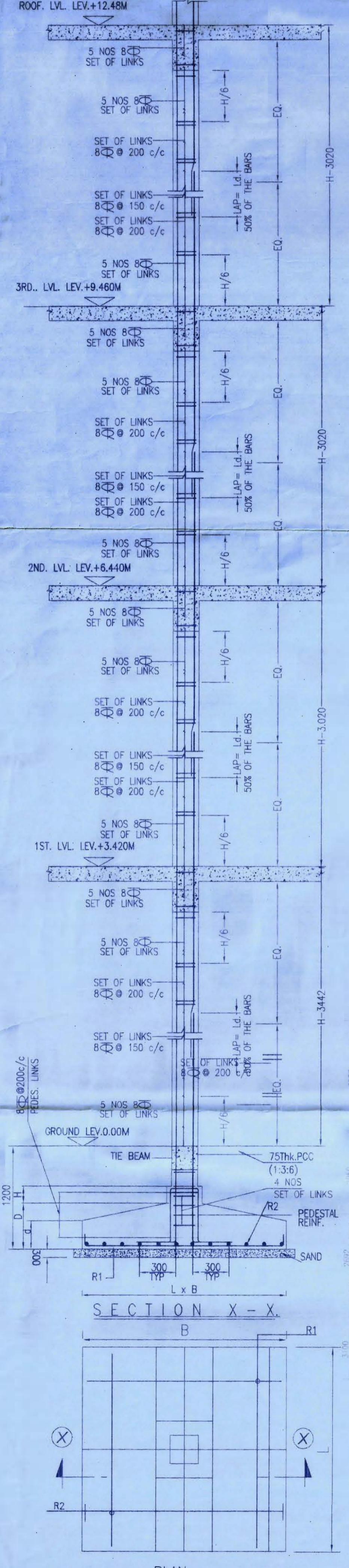
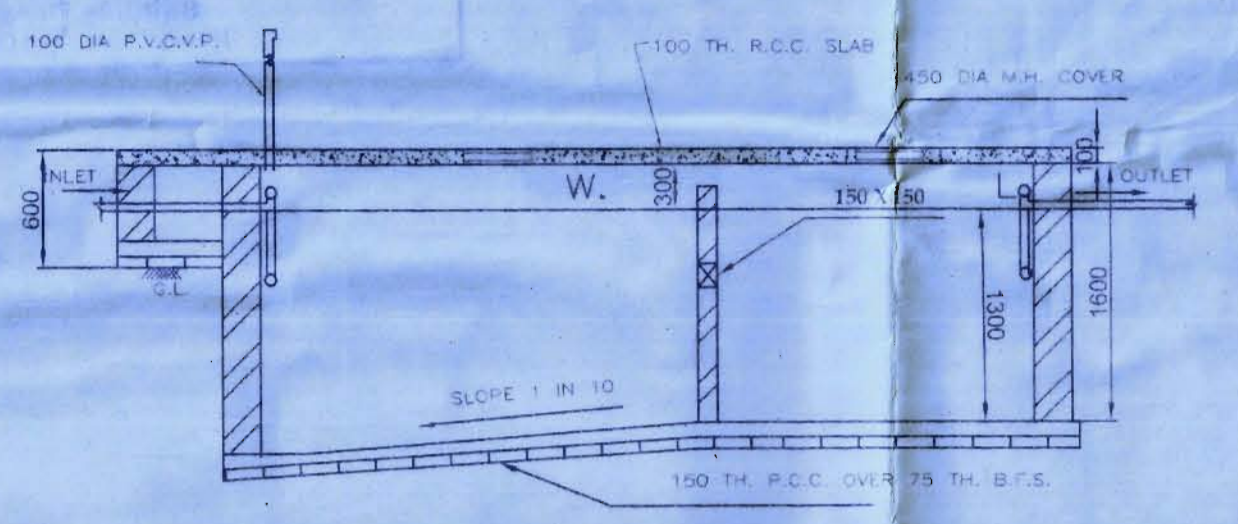
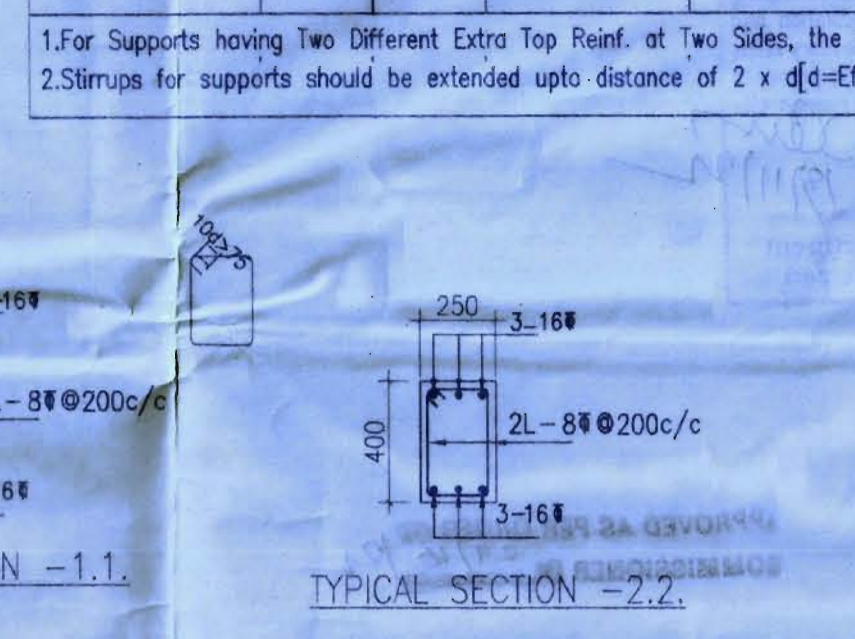
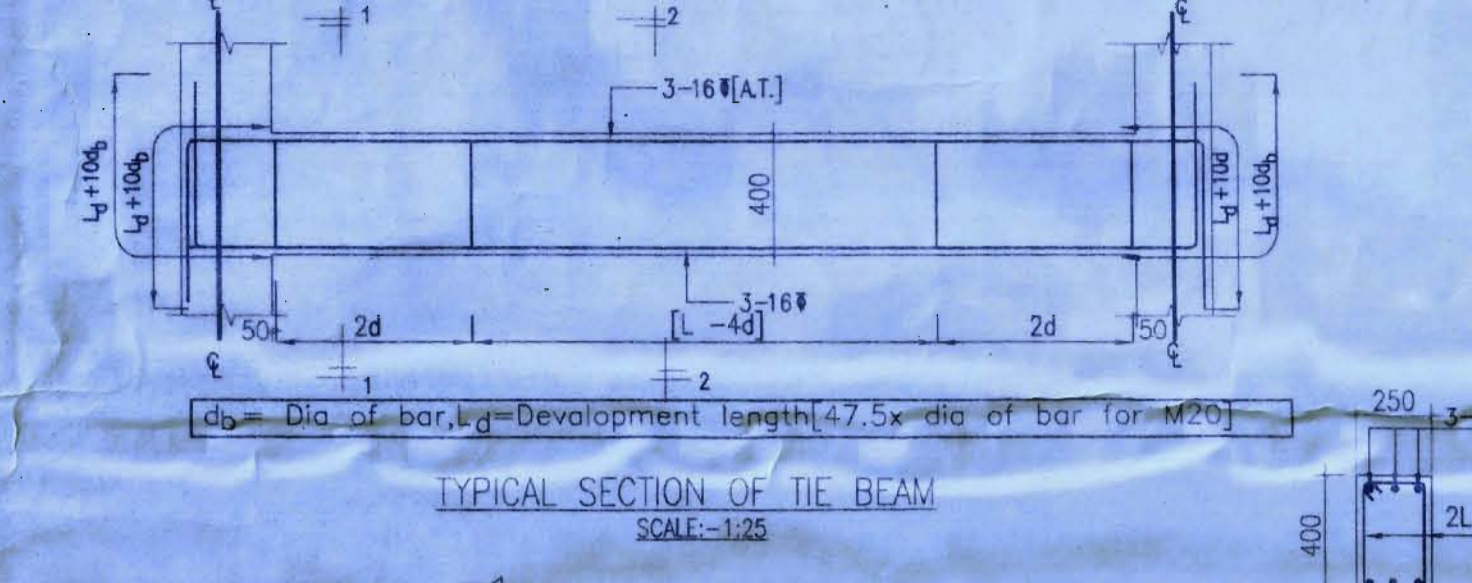
UNLESS OTHERWISE STATED CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:

- Wall-40 mm from out side of link. (ii) Foundation - 50 mm (iii) R.C. wall - 40 at soil side & 20 at internal side (iv) Col-40 mm (to Edge of slp.) (v) Floor slab - 20 mm (vi) Floor Beam - 25 mm

SPECIAL NOTE:

- If any loose pockets in soil are encountered while excavation it shall be filled up with P.C.C.(1:4:8)
- Special notes regarding curing:-
 - 'Ld'=developments length of bars shall be as follows:-

Grade of concrete	'Ld' (Fe-415)
M20	47.5 x dia of bar
 - Special notes regarding curing:-
If concrete used contains mineral admixtures like Flyash, 14 days ponding is a must in slab-beam and column to be covered with Hessian cloth which shall not be kept dry at any time for 14 days.



STRUCTURAL DECLARATION

- CERTIFIED THAT THE FOUNDATION AND THE SUPER STRUCTURE OF THE BUILDING HAVE BEEN SO DESIGNED BY ME TO BE SAFE IN ALL RESPECT INCLUDING IN THE CONSIDERATION OF THE BEARING CAPACITY & SETTLEMENT OF SOIL.
- THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS HORIZONTAL & VERTICAL AS PER THE NATIONAL BUILDING CODE OF INDIA.

SIGN. OF STR. ENGG.

Prabir Kumar Chattopadhyay
97, Lakshmi Das Lane, How-1
Licence No.-ESE(1) 06

SIGN. OF APPLICANT(S)

SIGN. OF L.B.A./L.B.S

BISWAJIT CHATTERJEE
Howrah Municipal Corporation,
Class - I, L. B. S. No- 68,
102/11, Dakshin Buxarrah Road,
HOWRAH - 711 110.

PROPOSED FOUR STORIED (PARTLY THREE STORIED & PARTLY FOUR STORIED) RESIDENTIAL BUILDING PLAN, AT HOLDING NO.-107/3/1, SEIKH PARA LANE, HOWRAH - 711103, L.M.C. WARD NO- 38, BOROUGH NO-VI.

SHEET NO - 84 - DAG NO- 190 (L.B.) K.L. NO - 916
MOUZA = SHIBPUR, P.S. = SHIBPUR

STRUC. DETAILS

ALL DIMENSIONS ARE IN MM	DRAWN BY	SHYAM
DATE		27-10-16
SCALE		1:25, 50, 100, 600, 10,000
DWG. NO.		22

SPACE FOR MUNICIPAL SEAL

PARTY'S COPY

Structural plan and design calculations as submitted by structural engineer have been approved by the Council of the Hawran Municipal Corporation without verification. No deviation from the submitted structural plan should be made at the time of erection without submitting fresh structural plan along with design calculation and stability certificate in the prescribed form, necessary steps should be taken for the safety of the adjoining premises public and private properties and safety of Human Life during construction.

[Signature]
Building Department
Hawran Municipal Corporation

APPROVED AS PER ORDER OF
COMMISSIONER BY *[Signature]*

[Handwritten mark]