

PLAN OF PROPOSED G+IV STORIED RESIDENTIAL APPARTMENT OF SUDIPA CHAKRABORTY W/O- LATE SANKAR PRASAD CHAKRABORTY & DEBANJALI CHAKRABORTY D/O- LATE SANKAR PRASAD CHAKRABORTY AT THE MOUZA- RADHANAGAR, J.L. NO- 39, R.S. PLOT NO- 7322, L.R. PLOT NO- 7302, R.S. KHATIAN NO. - 244, L.R. KHATIAN NO- 9266 & 9267, MAHALLA- KALIBAZAR, HOLDING NO- 137, WARD NO- 08, UNDER BURDWAN MUNICIPALITY, P.S.- BURDWAN & DIST- PURBA BARDHAMAN.

- SPECIFICATIONS :**
- ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHER WISE NOTED
 - ALL LEVELS OF THE BUILDING SHOULD BE CHECKED WITH THE RELEVANT ARCHITECTURAL DRAWINGS.
 - ALL THE DEPTH OF THE FOUNDATION SHOULD BE CONSIDERED FROM EXISTING GROUND LEVEL.
 - ALL THE FOUNDATIONS ARE TO BE DONE WITH CONCRETE GRADE M-20 (i.e. 1:1.5:3)
 - ALL THE OTHER STRUCTURAL ELEMENTS WITH THE BEAMS / SLABS ARE TO BE MAINTAINED WITH M-20 GRADE CONCRETE (i.e. 1:1.5:3) & M-25 GRADE FOR COLUMN
 - LAP LENGTH OF REINFORCEMENT : 50 D OF BAR.
 - COVER OF REINFORCEMENT :
FOUNDATION - 75
BEAM - 25
SLAB - 15
COLUMN - 40
 - DEVELOPMENT LENGTH OF THE REINFORCEMENT SHOULD BE MAINTAINED FOR ALL THE BEAM REINFORCEMENT (INCLUDING EXTRA REINFORCEMENT).
 - OVERLAPPING BEAMS ARE TO BE MAINTAINED WITH A 50 MM. CRANK TO PLACE THE REINFORCEMENT OF BAR.
 - ALL THE CONSTRUCTIONAL PROCEDURE SHOULD FOLLOW THE I.S CODE, I.S. 456
 - GRADE OF STEEL SHOULD BE Fe 500.
 - GRADE 53 SHOULD BE THE QUALITY OF CEMENT FOR THE CONCRETING OF THE STRUCTURAL ELEMENT.
 - PROPER CURING OF THE STRUCTURAL ELEMENTS TO BE MAINTAINED WITH THE HELP OF HESSIAN CLOTH.
 - DESHUTTERING OF THE SLAB/BEAMS SHOULD BE FOLLOWED STRICTLY WITH I.S.456
 - ALL EXTERNAL WALL SHOULD BE 200 THK. & INTERNAL WALL SHOULD BE 125 THK. UNLESS OTHERWISE STATED.

SUTAPA GHOSH
SIGNATURE OF ARCHITECT

STRUCTURAL DECLARATION
CERTIFIED THAT THE FOUNDATION AND THE SUPER STRUCTURE OF THE BUILDING SO DESIGNED BY ME TO BE SAFE IN ALL RESPECTS INCLUDING THE CONSIDERATION OF ALL POSSIBLE LOADS (HORIZONTAL & VERTICAL) AS PER N.B.C. (1) LATEST EDITION.

ASIM SARKAR
SIGNATURE OF STRUCTURAL ENGINEER

ASIM SARKAR
SIGNATURE OF GEOTECH ENGINEER

SUDIPA CHAKRABORTY & DEBANJALI CHAKRABORTY
SIGNATURE OF OWNER

SCALE - 1:1



SCHEDULE OF COLUMNS

COLUMN MKD.	UP TO 3RD FLOOR	ABOVE 3RD FLOOR
C1,C2,C3,C5,C12,C14,C21,C24	12-16ϕ 8ϕ @ 100 c/c (3 sets)	8-16ϕ 4-12ϕ 8ϕ @ 150 c/c (3 sets)
C4,C6,C7,C8,C11,C22,C23	6-20ϕ 6-16ϕ 8ϕ @ 100 c/c (3 sets)	12-16ϕ 8ϕ @ 150 c/c (3 sets)
C9,C10,C16,C17,C18,C19,C20	12-20ϕ 8ϕ @ 100 c/c (3 sets)	8-20ϕ 4-16ϕ 8ϕ @ 150 c/c (3 sets)
C13,C15	14-20ϕ 8ϕ @ 100 c/c (3 sets)	10-20ϕ 4-16ϕ 8ϕ @ 100 c/c (3 sets)

SCHEDULE OF BEAMS

BEAM MKD.	BEAM SIZE	REINF. AT SUPPORT			REINF. AT MID SPAN		
		TOP	BOTTOM	STIRRUPS	TOP	BOTTOM	STIRRUPS
B2	250 x 400	2-16ϕ+ 2-16ϕ	2-16ϕ	2L8ϕ @ 100 c/c	2-16ϕ	2-16ϕ+ 2-16ϕ	2L8ϕ @ 150 c/c
B1	250 x 400	3-16ϕ+ 2-16ϕ	3-16ϕ	2L8ϕ @ 100 c/c	3-16ϕ	3-16ϕ+ 2-16ϕ	2L8ϕ @ 150 c/c
B3	250 x 400	2-16ϕ+ 1-16ϕ	2-16ϕ	2L8ϕ @ 100 c/c	2-16ϕ	2-16ϕ+ 1-16ϕ	2L8ϕ @ 150 c/c
B5	250 x 400	3-20ϕ+ 3-16ϕ	3-20ϕ	2L8ϕ @ 100 c/c	3-20ϕ	3-20ϕ+ 3-16ϕ	2L8ϕ @ 150 c/c
B4	250 x 400	5-16ϕ	3-16ϕ	2L8ϕ @ 100 c/c	5-16ϕ	3-16ϕ	2L8ϕ @ 150 c/c

SCHEDULE OF SLABS

SLAB MKD.	THICKNESS	REINF. ALONG SHORTER SPAN		REINF. ALONG LONGER SPAN	
		TOP	BOTTOM	TOP	BOTTOM
S1	120	8ϕ @ 150 c/c	8ϕ @ 150 c/c	8ϕ @ 150 c/c	8ϕ @ 150 c/c
S2	120	8ϕ @ 175 c/c	8ϕ @ 175 c/c	8ϕ @ 175 c/c	8ϕ @ 175 c/c

SCHEDULE OF RAFT FOUNDATION

COLUMN MKD.	SIZE OF FOOTING	PEDESTAL SIZE	DEPTH OF FOOTING SLAB	REINFORCEMENT
C12-C13-C14-C15	AS PER PLAN		500	12ϕ @ 150 c/c (2 LAYERS, TOP & BOT)

SCHEDULE OF FOUNDATION BEAMS

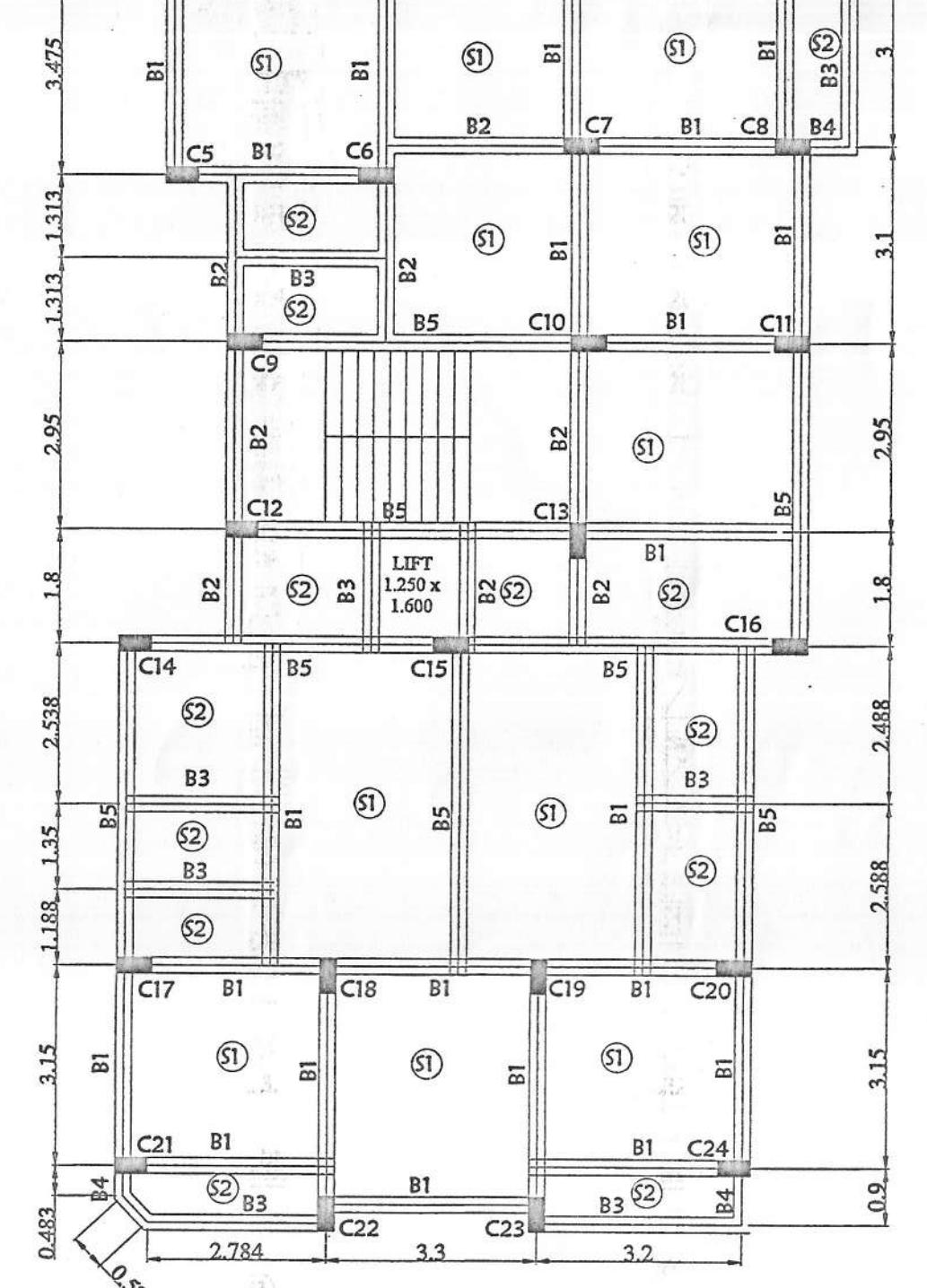
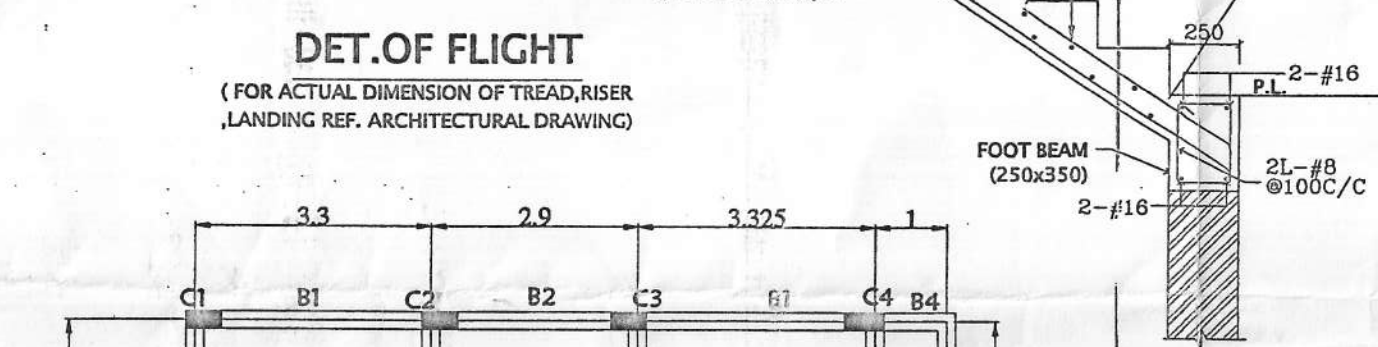
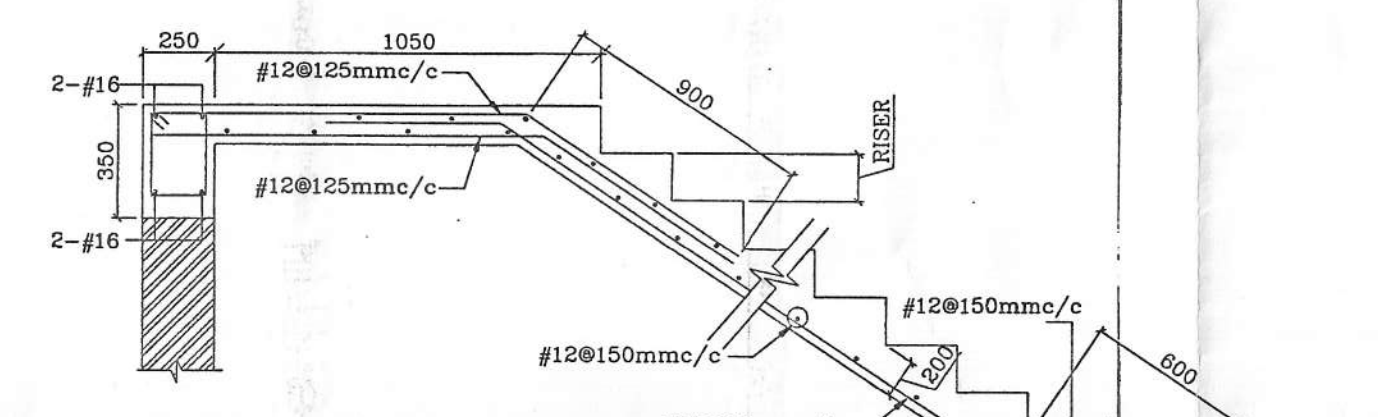
BEAM MKD.	BEAM SIZE	REINF. AT SUPPORT			REINF. AT MID SPAN		
		TOP	BOTTOM	STIRRUPS	TOP	BOTTOM	STIRRUPS
FB1	500 x 700	7-16ϕ	7-16ϕ	4L10ϕ @ 100 c/c	7-16ϕ	7-16ϕ	4L10ϕ @ 150 c/c
FB2	500 x 700	5-16ϕ	5-16ϕ	4L10ϕ @ 100 c/c	5-16ϕ	5-16ϕ	4L10ϕ @ 150 c/c

SCHEDULE OF COLUMN FOOTINGS

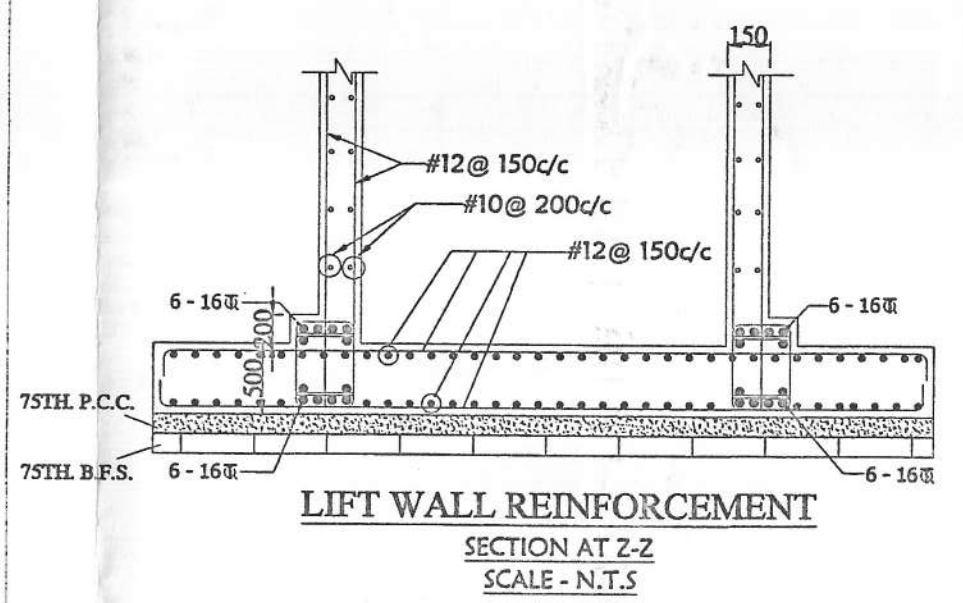
COLUMN MKD.	SIZE OF FOOTING	PEDESTAL SIZE	DEPTH OF FOOTING SLAB	REINFORCEMENT
C1,C2,C3,C5	2500 X 2500	550 X 800 X 150	250 - 450	12ϕ @ 150c/c(B/W)
C4,C21,C24	2800 X 2800	550 X 850 X 150	250 - 500	12ϕ @ 100c/c(B/W)
C10,C11,C16,C18,C19,C22,C23	3000 X 3000	550 X 850 X 150	250 - 500	12ϕ @ 100c/c(B/W)
C6,C7,C8,C17,C20	2800 X 3200	550 X 850 X 150	250 - 500	12ϕ @ 100c/c(B/W)
C9	AS PER DRAWING	550 X 850 X 150	250 - 500	12ϕ @ 100c/c(B/W)

SCHEDULE OF TIE BEAMS

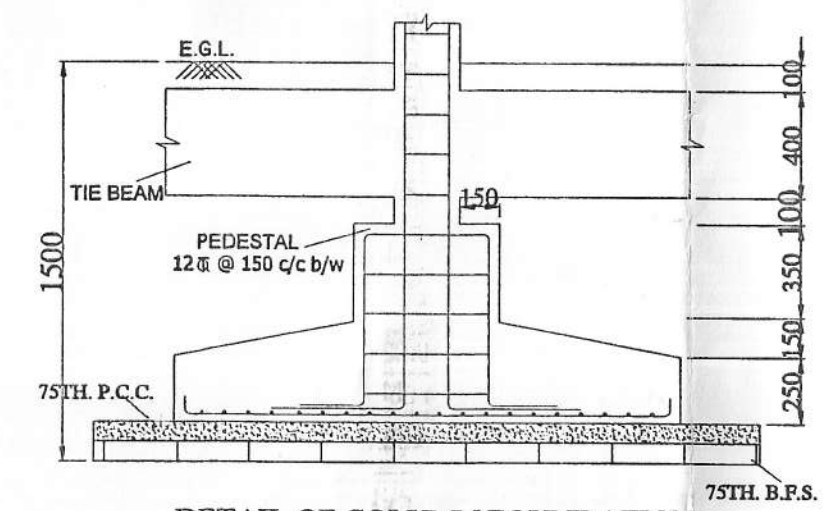
BEAM MKD.	BEAM SIZE	REINF. AT SUPPORT			REINF. AT MID SPAN		
		TOP	BOTTOM	STIRRUPS	TOP	BOTTOM	STIRRUPS
TB1	250 x 400	2-16ϕ+ 2-16ϕ	2-16ϕ	2L8ϕ @ 150 c/c	2-16ϕ	2-16ϕ+ 2-16ϕ	2L8ϕ @ 200 c/c
TB2	250 x 400	2-16ϕ+ 1-16ϕ	2-16ϕ	2L8ϕ @ 150 c/c	2-16ϕ	2-16ϕ+ 1-16ϕ	2L8ϕ @ 200 c/c
TB3	250 x 400	2-16ϕ+ 3-16ϕ	2-16ϕ	2L8ϕ @ 150 c/c	2-16ϕ	2-16ϕ+ 3-16ϕ	2L8ϕ @ 200 c/c



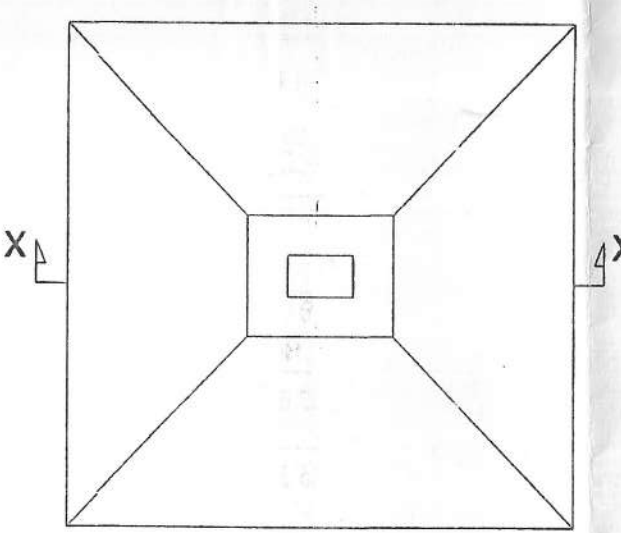
BEAM & SLAB LAYOUT PLAN
ALL C/L ARE BEAM C/L
SCALE - 1:1



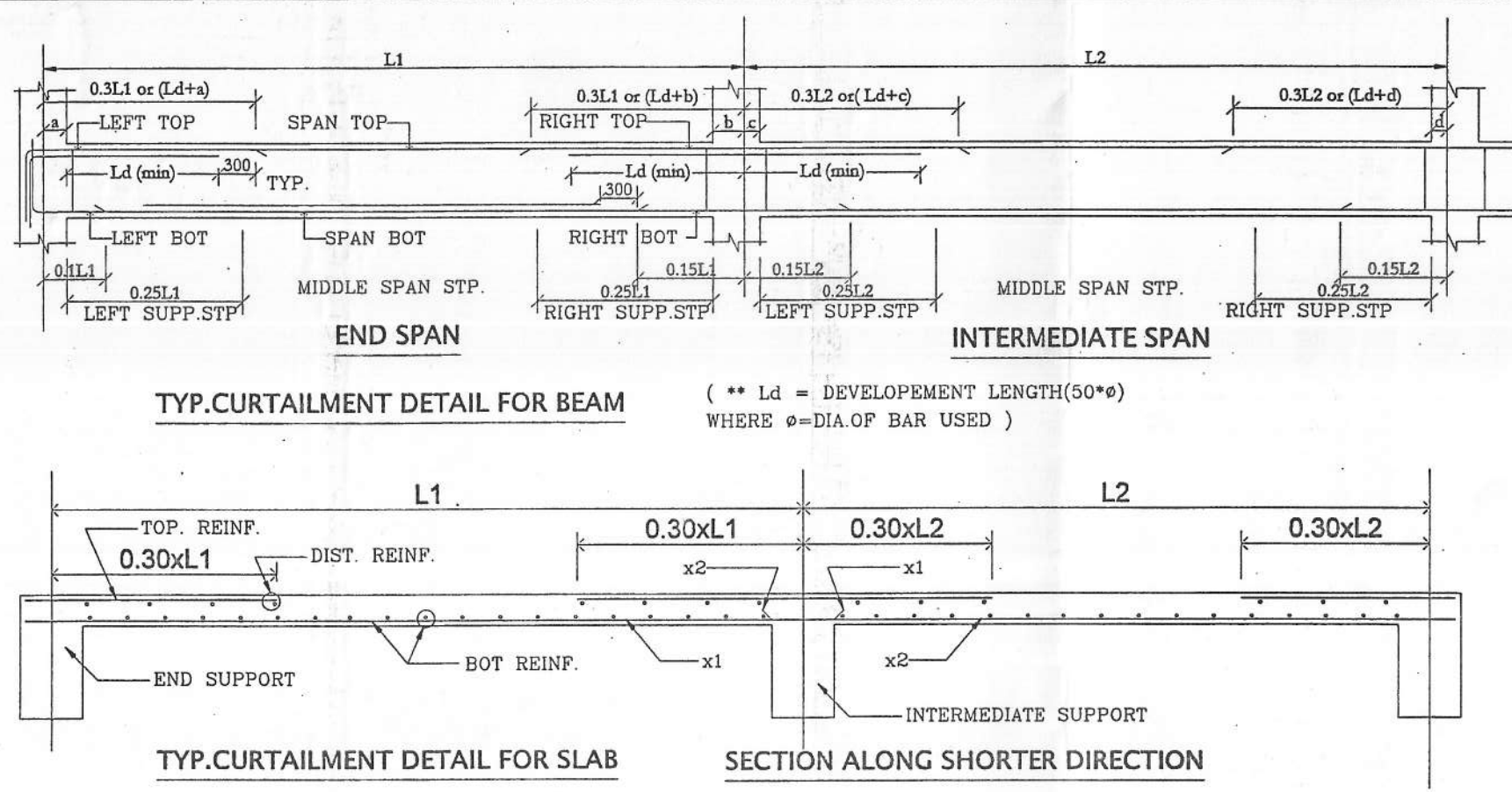
LIFT WALL REINFORCEMENT
SECTION AT 2-2
SCALE - N.T.S



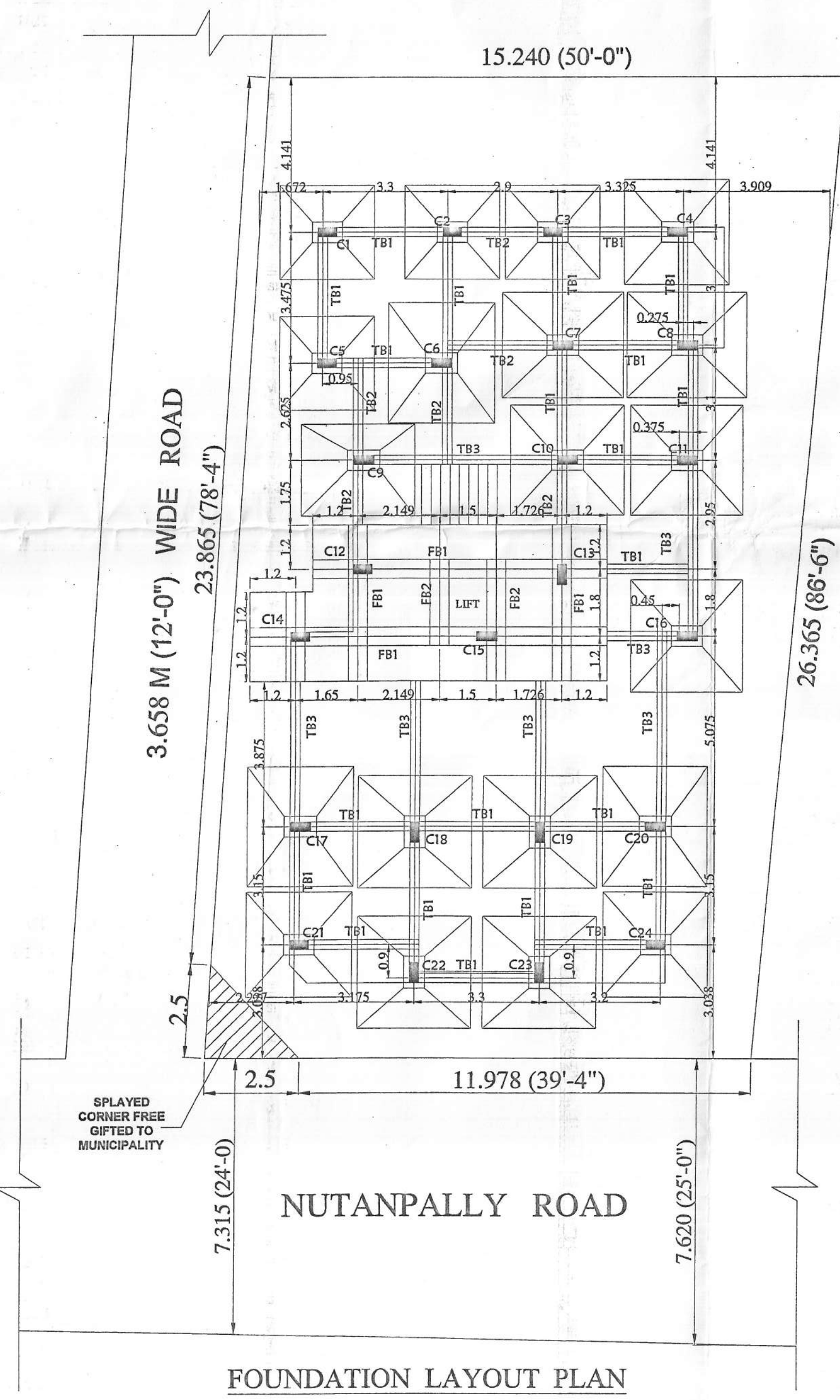
DETAIL OF COLUMN FOUNDATION
SECTION : X-X



PLAN OF ISOLATED COLUMN FOOTING
SCALE - N.T.S



TYP. CURTAILMENT DETAIL FOR BEAM (** Ld = DEVELOPMENT LENGTH(50*σ)
WHERE σ = DIA OF BAR USED)
TYP. CURTAILMENT DETAIL FOR SLAB **SECTION ALONG SHORTER DIRECTION**



FOUNDATION LAYOUT PLAN
ALL C/L ARE BEAM C/L
SCALE - 1:1

3.658 M (12'-0") WIDE ROAD
23.865 (78'-4")
15.240 (50'-0")
26.365 (86'-6")
11.978 (39'-4")
7.315 (24'-0")
7.620 (25'-0")
SPRAYED CORNER FREE GIFTED TO MUNICIPALITY

NUTANPALLY ROAD