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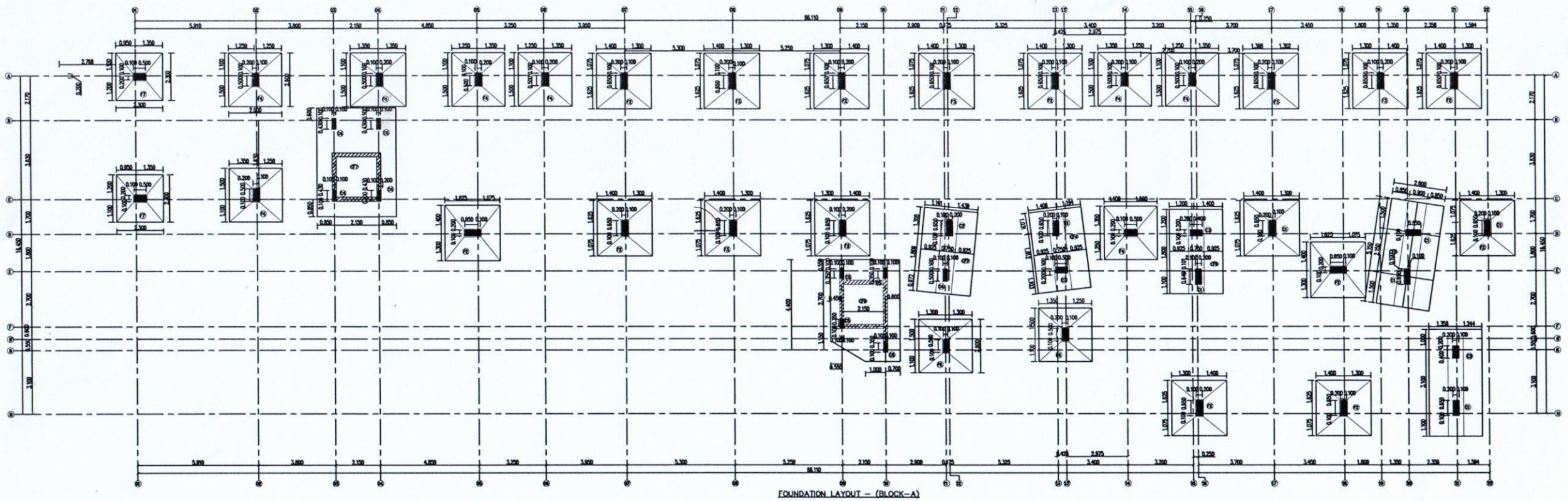
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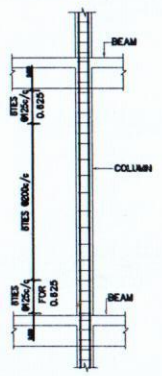
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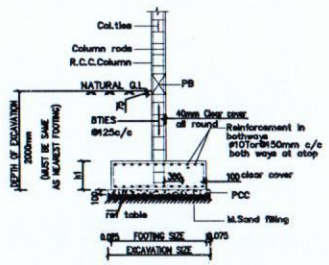
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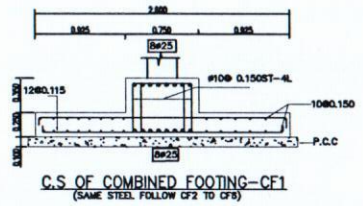
FOUNDATION LAYOUT – (BLOCK–A)



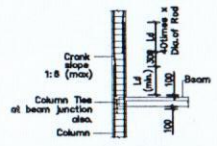
TYPICAL TIES ARRANGEMENT IN COLUMN



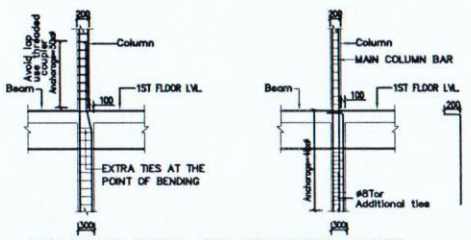
VERTICAL SECTION THROUGH COLUMN FOOTING FOR FLAT



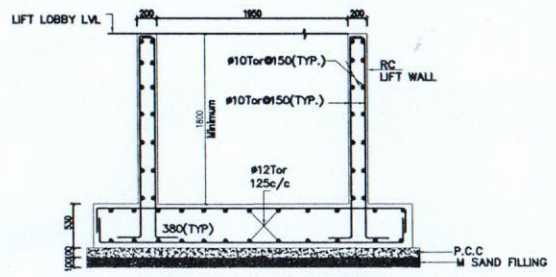
C.S OF COMBINED FOOTING–CF1
(SAME STEEL FOLLOW CF2 TO CF8)



SPLICE WITH UPPER BARS CRANKED INTO POSITION INSIDE LOWER BARS



ANCHORAGE DETAIL FOR REDUCTION IN SIZE OF COLUMN AT 1ST FLOOR LEVEL



TYPICAL DETAILS OF LIFT PIT COMBINED FOOTING–CF7&CF8
(SECTION AT X–X)

NOTES:

1. All dimensions are in millimetres.
2. This drg shall be read in conjunction with relevant architectural drawings
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :–
   For columns : M30.
   (Cement Content –360 kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Maximum water cement ratio :
   for 1:2.4 – 0.50
   for 1: 1 1/2:3 – 0.45
6. REINFORCEMENT :
   TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
7. Clear concrete cover to main bars :
   For columns : 40mm ,For rc wall : 25mm
   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size – 20mm and down grade
9. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
10. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
11. S.B.C of soil is assumed as 18.50t/sq.m
12. Foundation is designed for STILT+5floor
13. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
14. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.

REV.	DATE	REVISION NOTE NO	SIGN	CHKD

FOUNDATION LAYOUT AND DETAILS (BLOCK-A).

JOB NO : –	DRAWN : –
DRG.NO: S–01	DESIGNED : –
DATE : –	

PROJECT :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.
SURVEY NO. 46/1E,2B,47/1 & 57/6,
TVS EMRALD GREEN ACRES ROAD,
KOLAPAKKAM VILLAGE,
VANDALUR TALUK,
CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

Er. P. RAMAN, B.E.(Civil), M.E.(Struct)., MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.

SCHEDULE OF FOOTING & SCHEDULE OF COLUMNS (MIX: 30)

TYPE	FOOTING SIZE	DEPTH	FOOTING REINFORCEMENT				COLUMN REINFORCEMENT						STIRRUPS
		h1	BOTTOM LONG SPAN	BOTTOM SHORT SPAN	TOP SHORT SPAN	TOP LONG SPAN	GROUND FLOOR	1st FLOOR	2nd FLOOR	3rd FLOOR	4th FLOOR	5th FLOOR	
F1	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	24–ø16 b 1.350 0.300	TERMINATE FF LVL					ø8Tor
F2	2.700x2.700	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b) b 0.750 0.300	12–ø20+2–ø16(b) b 0.750 0.200	8–ø20+6–ø16(b) b b b 0.750 0.200	14–ø16 0.750 0.200	14–ø16 0.750 0.200	14–ø16 0.750 0.200	ø8Tor
F3	2.700x2.700	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b) b 0.750 0.300	TERMINATE FF LVL					ø8Tor
F4	2.600x2.600	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20 0.600 0.300	12–ø20 0.600 0.200	8–ø20+4–ø16(b) b b 0.600 0.200	8–ø20+4–ø16(b) b b 0.600 0.200	12–ø16 0.600 0.200	12–ø16 0.600 0.200	ø8Tor
F5	2.400x2.400	550	ø12Tor@0.150	ø12Tor@0.150	ø10Tor@0.150	ø10Tor@0.150	10–ø16 0.530 0.300	10–ø16 0.530 0.200	10–ø16 0.530 0.200	8–ø16+2–ø12(b) b 0.530 0.200	8–ø16+2–ø12(b) b 0.530 0.200	8–ø16+2–ø12(b) b 0.530 0.200	ø8Tor
F6	2.600x2.600	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø16 0.600 0.200	8–ø16+4–ø12(b) b b 0.600 0.200	8–ø20+4–ø16(b) b b 0.600 0.200	8–ø20+4–ø16(b) b b 0.600 0.200	8–ø20+4–ø16(b) b b 0.600 0.200	8–ø20+4–ø16(b) b b 0.600 0.200	ø8Tor
F7	2.300x2.300	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	8–ø20+4–ø16(b) b b 0.600 0.300	8–ø20+4–ø16(b) b b 0.600 0.200	8–ø20+4–ø16(b) b b 0.600 0.200	TERNMINATE			ø8Tor
C1	LIFT&COMBINED FOOTING						12–ø20+2–ø16(b) b 0.750 0.300	12–ø20+2–ø16(b) b 0.750 0.200	8–ø20+6–ø16(b) b b b 0.750 0.200	14–ø16 0.750 0.200	14–ø16 0.750 0.200	14–ø16 0.750 0.200	ø8Tor
C2							12–ø20+2–ø16(b) b 0.750 0.300	TERMINATE FF LVL					
C3							12–ø20 0.600 0.300	12–ø20 0.600 0.200	8–ø20+4–ø16(b) b b 0.600 0.200	8–ø20+4–ø16(b) b b 0.600 0.200	12–ø16 0.600 0.200	12–ø16 0.600 0.200	ø8Tor
C4							10–ø16 0.530 0.200	10–ø16 0.530 0.200	10–ø16 0.530 0.200	8–ø16+2–ø12(b) b 0.530 0.200	8–ø16+2–ø12(b) b 0.530 0.200	8–ø16+2–ø12(b) b 0.530 0.200	ø8Tor
C5							8–ø16 0.450 0.200	8–ø16 0.450 0.200	8–ø16 0.450 0.200	8–ø16 0.450 0.200	8–ø16 0.450 0.200	8–ø16 0.450 0.200	ø8Tor

NOTES:

1. All dimensions are in millimetres.
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   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size – 20mm and down grade
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REV.	DATE	REVISION NOTE NO	SIGN	CHKD

COLUMN SCHEDULE.

JOB NO : –	DRAWN : –
DRG.NO: S-02	DESIGNED : –
DATE : –	

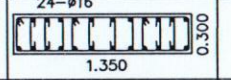
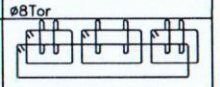
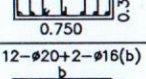
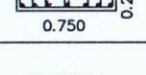
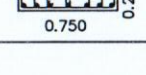
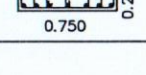
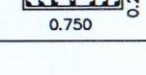
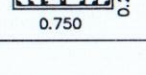
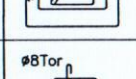
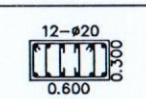
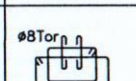
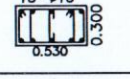
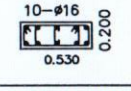
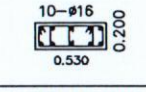
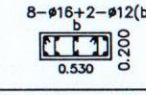
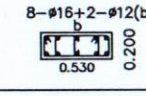
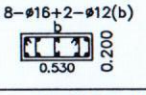
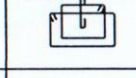
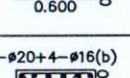
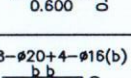
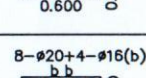
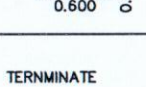
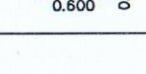
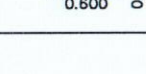
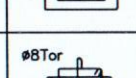
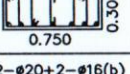
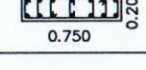
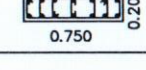
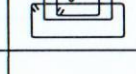
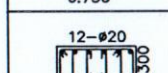
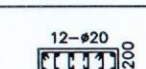
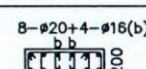
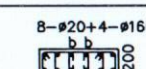
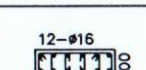
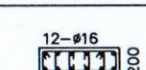
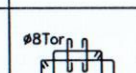
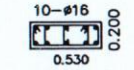
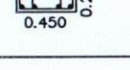
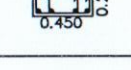
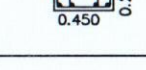
PROJECT :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.
SURVEY NO: 46/1E,2B,47/1 & 57/6,
TVS EMRALD GREEN ACRES ROAD,
KOLAPAKKAM VILLAGE,
VANDALUR TALUK,
CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

Er. P. RAMAN, B.E (Civil)., M.E (Struct)., MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.

SCHEDULE OF FOOTING & SCHEDULE OF COLUMNS (MIX: 30)

TYPE	FOOTING SIZE	DEPTH	FOOTING REINFORCEMENT		TOP SHORT SPAN	TOP LONG SPAN	COLUMN REINFORCEMENT						STIRRUPS
		h1	BOTTOM LONG SPAN	BOTTOM SHORT SPAN			GROUND FLOOR	1st FLOOR	2nd FLOOR	3rd FLOOR	4th FLOOR	5th FLOOR	
F1	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	24–ø16  1.350 0.300	TERMINATE FF LVL					ø8Tor 
F2	2.700x2.700	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)  0.750 0.300	12–ø20+2–ø16(b)  0.750 0.200	8–ø20+6–ø16(b)  0.750 0.200	14–ø16  0.750 0.200	14–ø16  0.750 0.200	14–ø16  0.750 0.200	ø8Tor 
F3	2.700x2.700	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)  0.750 0.300	TERMINATE FF LVL					ø8Tor 
F4	2.600x2.600	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20  0.600 0.300	12–ø20  0.600 0.200	8–ø20+4–ø16(b)  0.600 0.200	8–ø20+4–ø16(b)  0.600 0.200	12–ø16  0.600 0.200	12–ø16  0.600 0.200	ø8Tor 
F5	2.400x2.400	550	ø12Tor@0.150	ø12Tor@0.150	ø10Tor@0.150	ø10Tor@0.150	10–ø16  0.530 0.300	10–ø16  0.530 0.200	10–ø16  0.530 0.200	8–ø16+2–ø12(b)  0.530 0.200	8–ø16+2–ø12(b)  0.530 0.200	8–ø16+2–ø12(b)  0.530 0.200	ø8Tor 
F8	2.600x2.600	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø16 0.600 0.200	8–ø16+4–ø12(b) 0.600 0.200	8–ø20+4–ø16(b) 0.600 0.200	8–ø20+4–ø16(b) 0.600 0.200	8–ø20+4–ø16(b) 0.600 0.200	8–ø20+4–ø16(b) 0.600 0.200	ø8Tor
F7	2.300x2.300	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	8–ø20+4–ø16(b)  0.600 0.300	8–ø20+4–ø16(b)  0.600 0.200	8–ø20+4–ø16(b)  0.600 0.200	TERNMINATE			ø8Tor 
C1	LIFT&COMBINED FOOTING						12–ø20+2–ø16(b)  0.750 0.300	12–ø20+2–ø16(b)  0.750 0.200	8–ø20+6–ø16(b)  0.750 0.200	14–ø16  0.750 0.200	14–ø16  0.750 0.200	14–ø16  0.750 0.200	ø8Tor 
C2							12–ø20+2–ø16(b)  0.750 0.300	TERMINATE FF LVL					
C3							12–ø20  0.600 0.300	12–ø20  0.600 0.200	8–ø20+4–ø16(b)  0.600 0.200	8–ø20+4–ø16(b) 0.600 0.200	12–ø16 0.600 0.200	12–ø16 0.600 0.200	ø8Tor
C4							10–ø16 0.530 0.200	10–ø16 0.530 0.200	10–ø16 0.530 0.200	8–ø16+2–ø12(b) 0.530 0.200	8–ø16+2–ø12(b) 0.530 0.200	8–ø16+2–ø12(b) 0.530 0.200	ø8Tor
C5							8–ø16 0.450 0.200	8–ø16 0.450 0.200	8–ø16 0.450 0.200	8–ø16 0.450 0.200	8–ø16 0.450 0.200	8–ø16 0.450 0.200	ø8Tor

NOTES:

1. All dimensions are in millimetres.
2. This drg shall be read in conjunction with relevant architectural drawings
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :–
   For columns : M30.
   (Cement Content –360 kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Maximum water cement ratio :
   for 1:2:4 – 0.50
   for 1:1 1/2:3 – 0.45
6. REINFORCEMENT :
   TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
7. Clear concrete cover to main bars :
   For columns : 40mm ,For rc wall : 25mm
   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size – 20mm and down grade
9. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
10. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
11. S.B.C of soil is assumed as 18.50t/sq.m
12. Foundation is designed for STILT+5floor
13. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
14. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.

REV.	DATE	REVISION NOTE NO	SIGN	CHKD

COLUMN SCHEDULE (BLOCK-A).

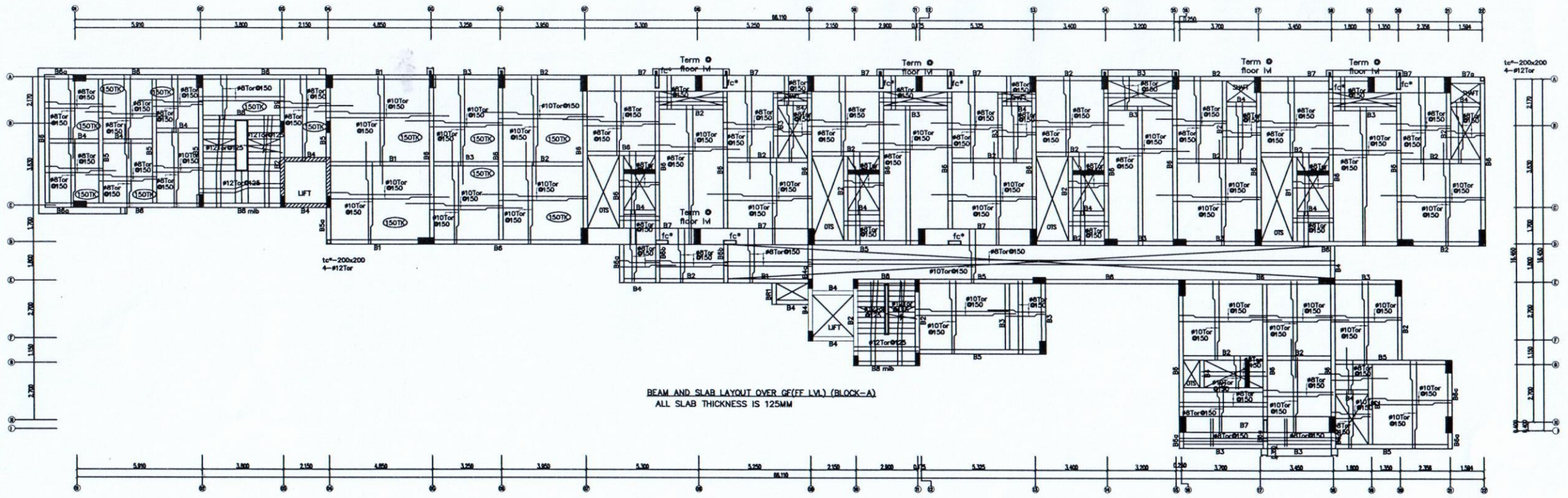
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DRG.NO: S-02	DESIGNED : –
DATE : –	

PROJECT :

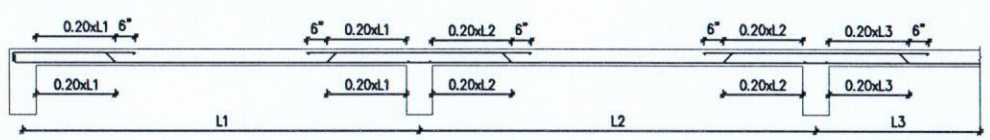
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.
SURVEY NO: 46/1E,2B,47/1 & 57/6,
TVS EMRALD GREEN ACRES ROAD,
KOLAPAKKAM VILLAGE,
VANDALUR TALUK,
CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

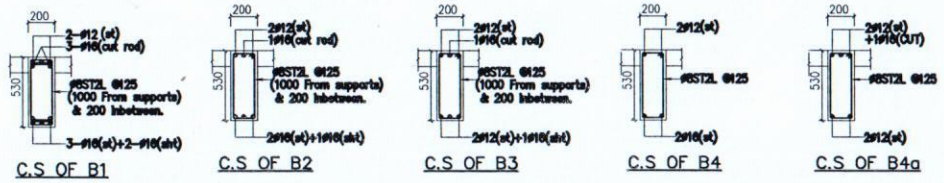
Er. P. RAMAN, B.E (Civil)., M.E (Struct)., MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



BEAM AND SLAB LAYOUT OVER GF(FF LVL) (BLOCK-A)
ALL SLAB THICKNESS IS 125MM



TYPICAL SLAB ROD BENDING DETAILS.



SCHEDULE OF SLAB

TYPE	SLAB THICKNESS	SLAB REINFORCEMENT		SLAB TYPE
		SHORT SIDE	LONG SIDE	
S1	125	#10TOR@125	#8TOR@125	ONE WAY
S2	125	#10TOR@150	#8TOR@150	TWO WAY
S3	125	#8TOR@150	#8TOR@150	TWO WAY
S4	125	#8TOR@125	#8TOR@150	ONE WAY
S5	125	#8TOR@125	#8TOR@150	TWO WAY
S6	125	#8TOR@125	#8TOR@125	SINGLE MAT
S7	125	#10TOR@150	#10TOR@150	TWO WAY

NOTES:

1. All dimensions are in millimetres.
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3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :–
   For columns : M30.
   (Cement Content –360 kg/m3)
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5. Maximum water cement ratio :
   for 1:2:4 – 0.50
   for 1:1 1/2:3 – 0.45
6. REINFORCEMENT :
   TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
7. Clear concrete cover to main bars :
   For columns : 40mm ,For rc wall : 25mm
   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size – 20mm and down grade
9. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
10. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
11. S.B.C of soil is assumed as 18.50t/sq.m
12. Foundation is designed for STILT+5floor
13. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
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REV.	DATE	REVISION NOTE NO	SIGN	CHKD

SLAB BEAM LAYOUT OVER GF (BLOCK-A).

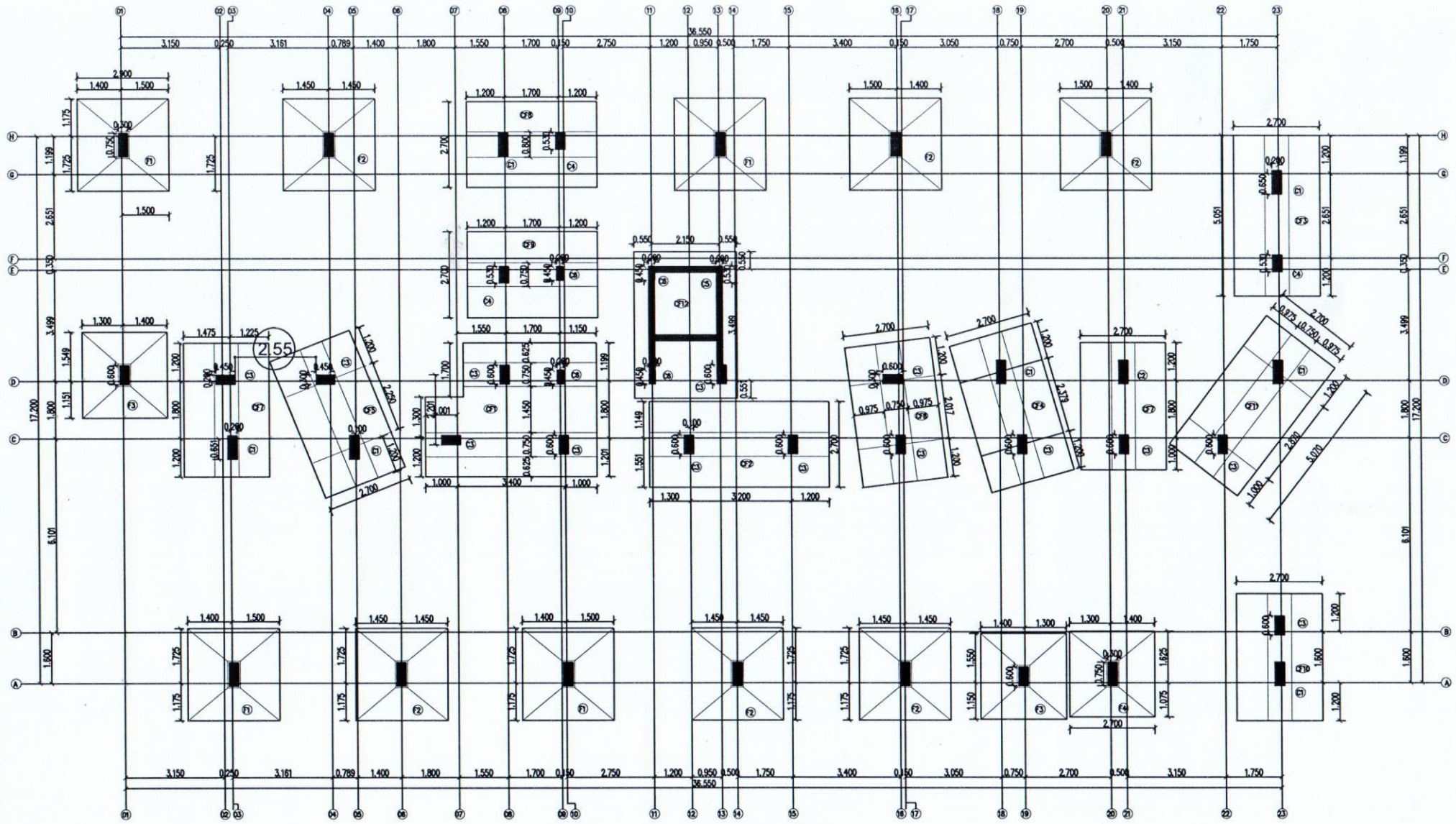
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DRG.NO: S–03	DESIGNED : –
DATE : –	

PROJECT :

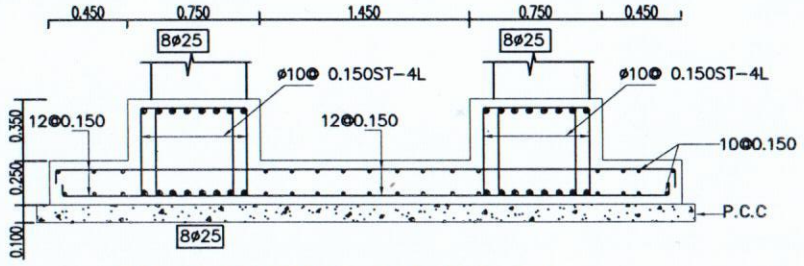
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CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

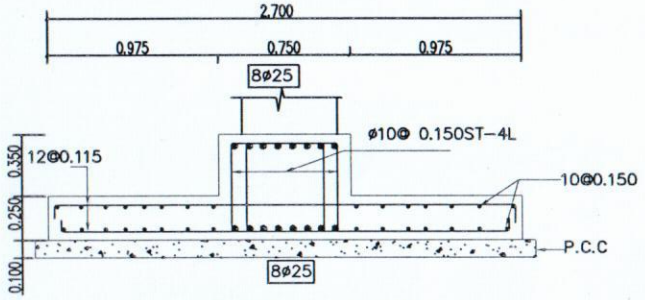
Er. P. RAMAN, B.E (Civil)., M.E (Struct)., MIE., C.Eng.,
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No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



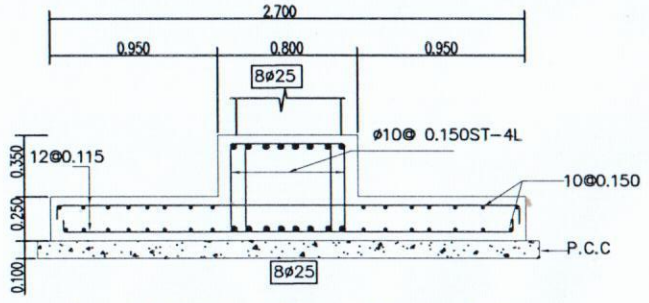
FOUNDATION LAYOUT – (BLOCK-B)



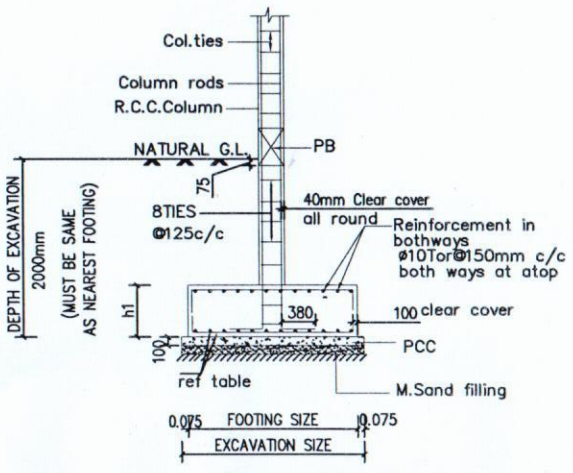
C.S OF COMBINED FOOTING–CF1



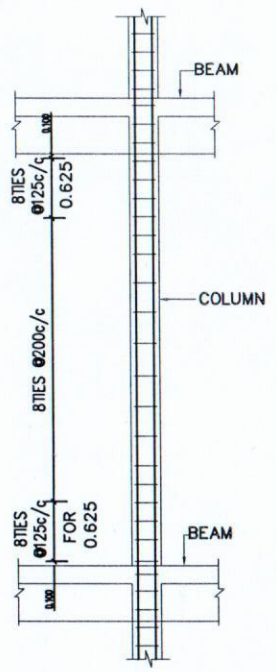
C.S OF COMBINED FOOTING–CF2
(SAME STEEL FOLLOW CF3 TO CF7& CF9,CF10,CF11)



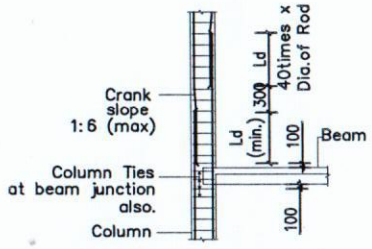
C.S OF COMBINED FOOTING–CF8



VERTICAL SECTION THROUGH
COLUMN FOOTING FOR FLAT



TYPICAL TIES ARRANGEMENT
IN COLUMN



SPLICE WITH UPPER BARS
CRANKED INTO POSITION
INSIDE LOWER BARS

NOTES:

1. All dimensions are in millimetres.
2. This drg shall be read in conjunction with relevant architectural drawings
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :–
   For columns : M30.
   (Cement Content –360 kg/m3)
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REV.	DATE	REVISION NOTE NO	SIGN	CHKD

FOUNDATION LAYOUT. (BLOCK-B)

JOB NO : –	DRAWN : –
DRG.NO: S–01	DESIGNED : –
DATE : –	

PROJECT :

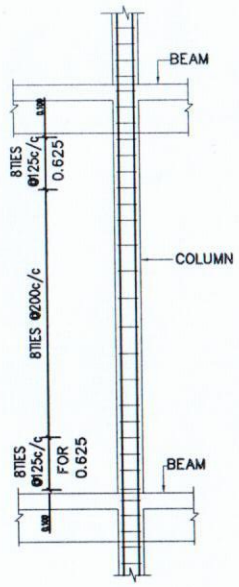
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STRUCTURAL CONSULTANT

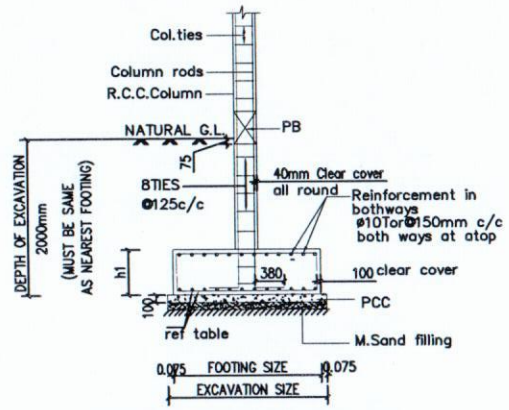
Er. P. RAMAN, B.E.(Civil)., M.E.(Struct)., MIE., C.Eng.,
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No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.

SCHEDULE OF FOOTING & SCHEDULE OF COLUMNS (MIX: 30)

TYPE	FOOTING SIZE	DEPTH	FOOTING REINFORCEMENT				COLUMN REINFORCEMENT						
		h1	L	B	TOP SHORT SPAN	TOP LONG SPAN	GROUND FLOOR	1st FLOOR	2nd FLOOR	3rd FLOOR	4th FLOOR	5th FLOOR	STIRRUPS
F1	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)	12–ø20+2–ø16(b)	8–ø20+6–ø16(b)	14–ø16	14–ø16	14–ø16	ø8Tor
F2	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)	TERMINATE FF LVL					ø8Tor
F3	2.700x2.700	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20	12–ø20	8–ø20+4–ø16(b)	8–ø20+4–ø16(b)	12–ø16	12–ø16	ø8Tor
F4	2.700x2.700	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)	TERMINATE FF LVL					ø8Tor
C1							12–ø20+2–ø16(b)	12–ø20+2–ø16(b)	8–ø20+6–ø16(b)	14–ø16	14–ø16	14–ø16	
C2							12–ø20+2–ø16(b)	TERMINATE FF LVL					ø8Tor
C3							12–ø20	12–ø20	8–ø20+4–ø16(b)	8–ø20+4–ø16(b)	12–ø16	12–ø16	ø8Tor
C4							10–ø16	10–ø16	10–ø16	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	ø8Tor
C5	LIFT&COMBINED FOOTING						10–ø16	10–ø16	10–ø16	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	ø8Tor
C6							8–ø16	8–ø16	8–ø16	8–ø16	8–ø16	8–ø16	ø8Tor
FLOATING COLUMN 1st FLOOR LEVEL.								12–ø20	12–ø20	12–ø20	12–ø20	12–ø20	ø8Tor

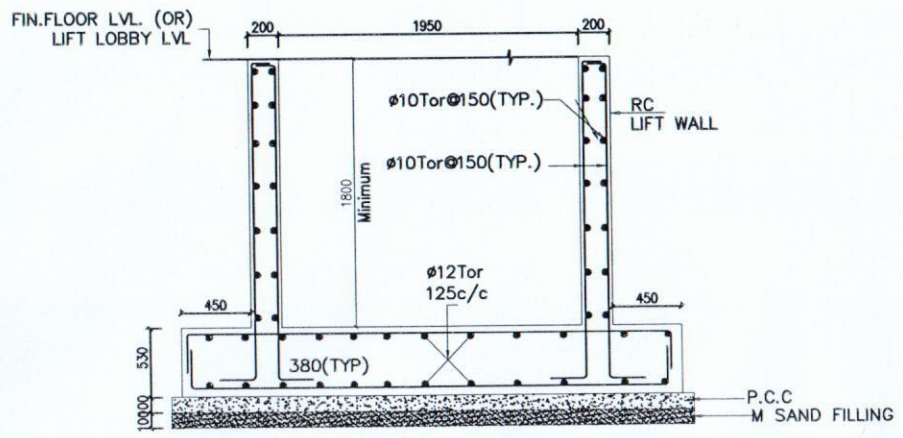


TYPICAL TIES ARRANGEMENT IN COLUMN

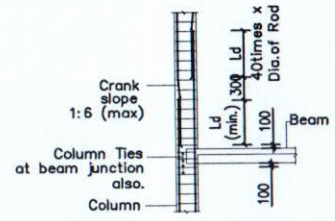


VERTICAL SECTION THROUGH COLUMN FOOTING FOR FLAT

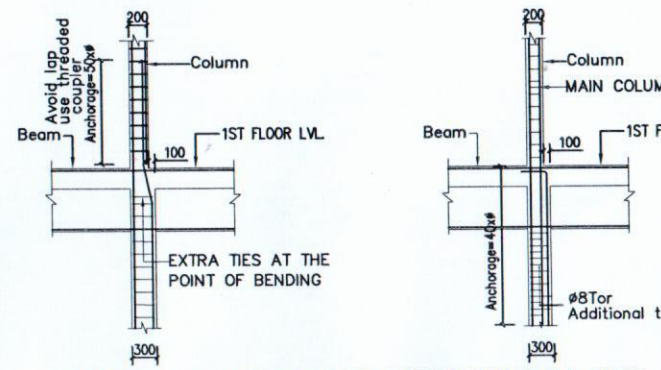
NOTES:
1. All dimensions are in millimetres.
2. This drg shall be read in conjunction with relevant architectural drawings
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :–
   For columns : M.30.
   (Cement Content –360 kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Maximum water cement ratio :
   for 1:2:4 – 0.50
   for 1:1 1/2:3 – 0.45
6. REINFORCEMENT :
   TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
7. Clear concrete cover to main bars :
   For columns : 40mm ,For rc wall : 25mm
   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size – 20mm and down grade
9. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
10. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
11. S.B.C of soil is assumed as 18.50t/sq.m
12. Foundation is designed for STILT+5floor
13. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
14. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.



TYPICAL DETAILS OF LIFT PIT COMBINED FOOTING–CF12
(SECTION AT X–X)



SPLICE WITH UPPER BARS CRANKED INTO POSITION INSIDE LOWER BARS



ANCHORAGE DETAIL FOR REDUCTION IN SIZE OF COLUMN AT 1ST FLOOR LEVEL

REV.	DATE	REVISION NOTE NO	SIGN	CHKD

COLUMN SCHEDULE AND FOOTING DETAILS. (BLOCK-B)

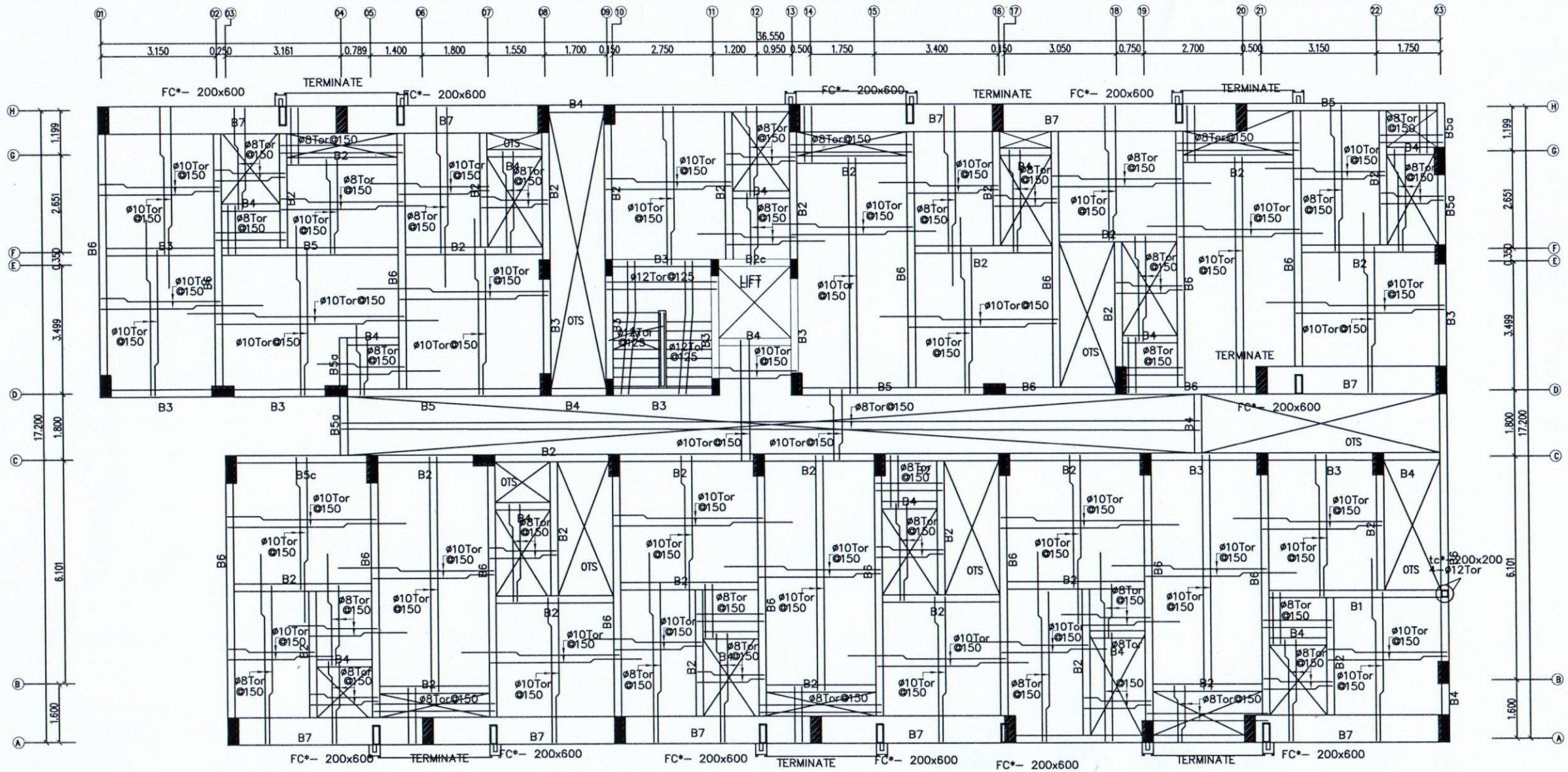
JOB NO : –	DRAWN : –
DRG.NO: S–02	DESIGNED : –
DATE : –	

PROJECT :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 183 DWELLING UNITS.
SURVEY NO: 46/1E,2B,47/1 & 57/6,
TVS EMRALD GREEN ACRES ROAD,
KOLAPAKKAM VILLAGE,
VANDALUR TALUK,
CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

Er. P. RAMAN, B.E.(Civil)., M.E.(Struct)., MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



SLAB BEAM LAYOUT OVER GF (FF LVL)

ALL SLAB THICKNESS IS 125MM

NOTES:

1. All dimensions are in millimetres.
2. This drg shall be read in conjunction with relevant architectural drawings
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :–
   For columns : M30.
   (Cement Content –360 kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Maximum water cement ratio :
   for 1:2:4 – 0.50
   for 1:1 1/2:3 – 0.45
6. REINFORCEMENT :
   TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
7. Clear concrete cover to main bars :
   For columns : 40mm ,For rc wall : 25mm
   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size – 20mm and down grade
9. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
10. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
11. S.B.C of soil is assumed as 18.50t/sq.m
12. Foundation is designed for STILT+5floor
13. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
14. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.

REV.	DATE	REVISION NOTE NO	SIGN	CHKD

SLAB BEAM LAYOUT OVER GROUND FLOOR.(BLOCK-B)

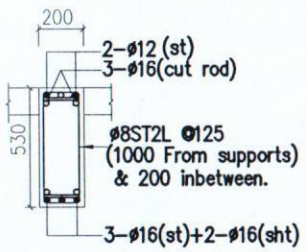
JOB NO : –	DRAWN : –
DRG.NO: S–03	DESIGNED : –
DATE : –	

PROJECT :

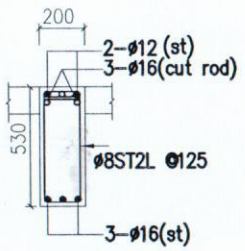
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 183 DWELLING UNITS.
SURVEY NO: 46/1E,2B,4PM & 57/6,
TVS EMRALD GREEN ACRES ROAD,
KOLAPAKKAM VILLAGE,
VANDALUR TALUK,
CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

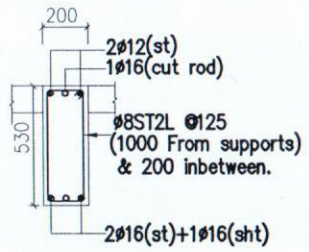
Er. P. RAMAN, B.E (Civil)., M.E (Struct)., MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



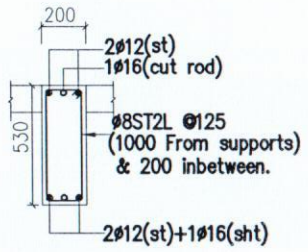
C.S OF B1



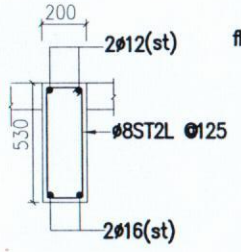
C.S OF B1a



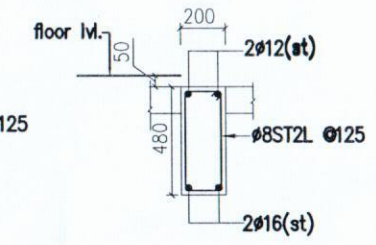
C.S OF B2



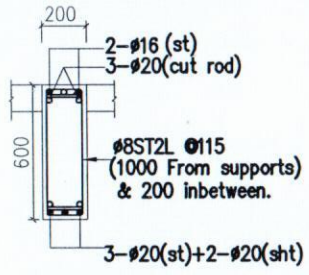
C.S OF B3



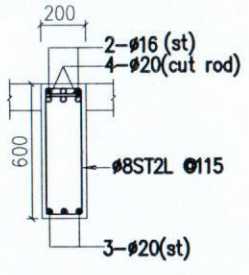
C.S OF B4



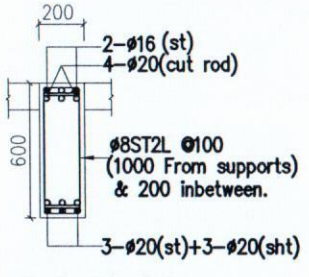
C.S OF B4c



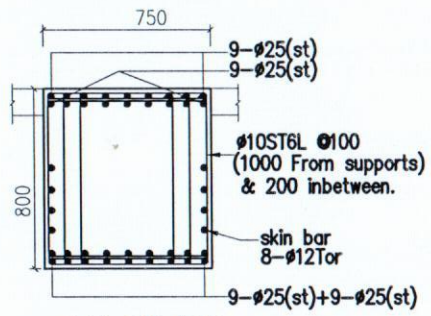
C.S OF B5



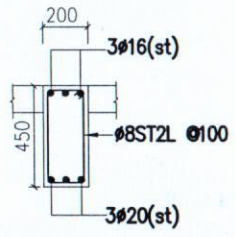
C.S OF B5a



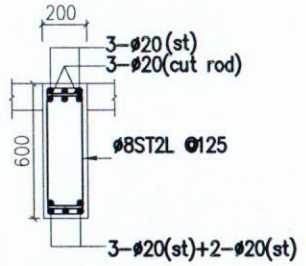
C.S OF B6



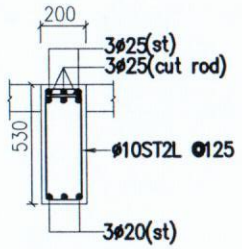
C.S OF B7



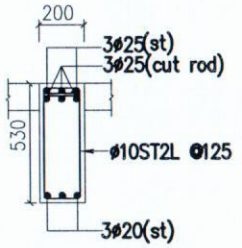
C.S OF B8



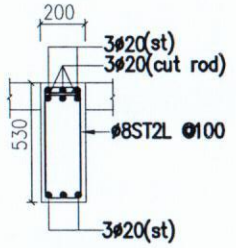
C.S OF B11



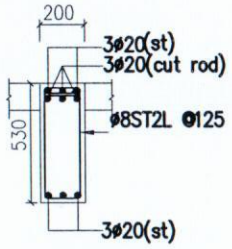
C.S OF B3a



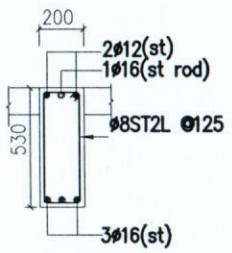
C.S OF B3b



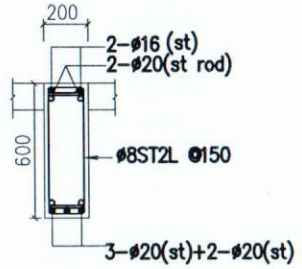
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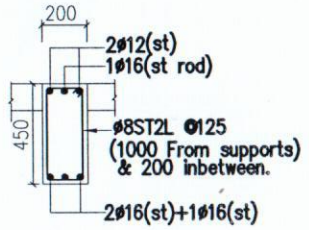
C.S OF B3d



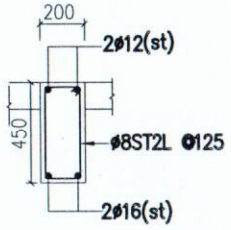
C.S OF B2c



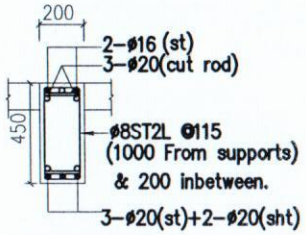
C.S OF B5c



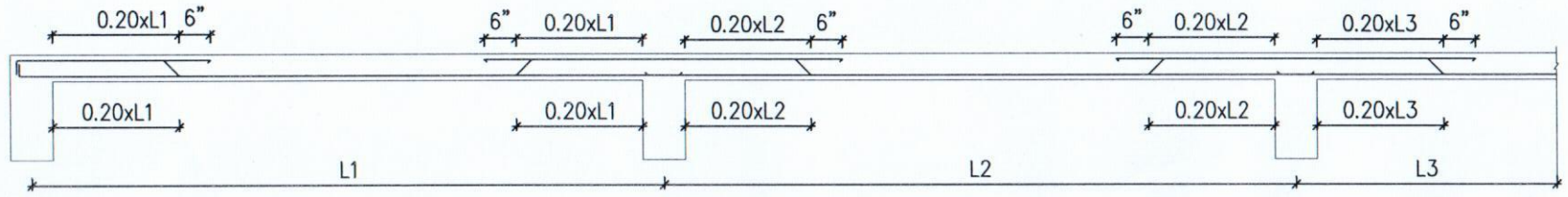
C.S OF B2e



C.S OF B4e



C.S OF B5e



TYPICAL SLAB ROD BENDING DETAILS.

NOTES:

1. All dimensions are in millimetres.
2. This drg shall be read in conjunction with relevant architectural drawings
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :–
   For columns : M30.
   (Cement Content –360 kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Maximum water cement ratio :
   for 1:2:4 – 0.50
   for 1:1 1/2:3 – 0.45
6. REINFORCEMENT :
   TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
7. Clear concrete cover to main bars :
   For columns : 40mm ,For rc wall : 25mm
   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size – 20mm and down grade
9. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
10. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
11. S.B.C of soil is assumed as 18.50t/sq.m
12. Foundation is designed for STILT+5floor
13. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
14. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.

REV.	DATE	REVISION NOTE NO	SIGN	CHKD

RCC DETAILS OF BEAM CS. (BLOCK-B)

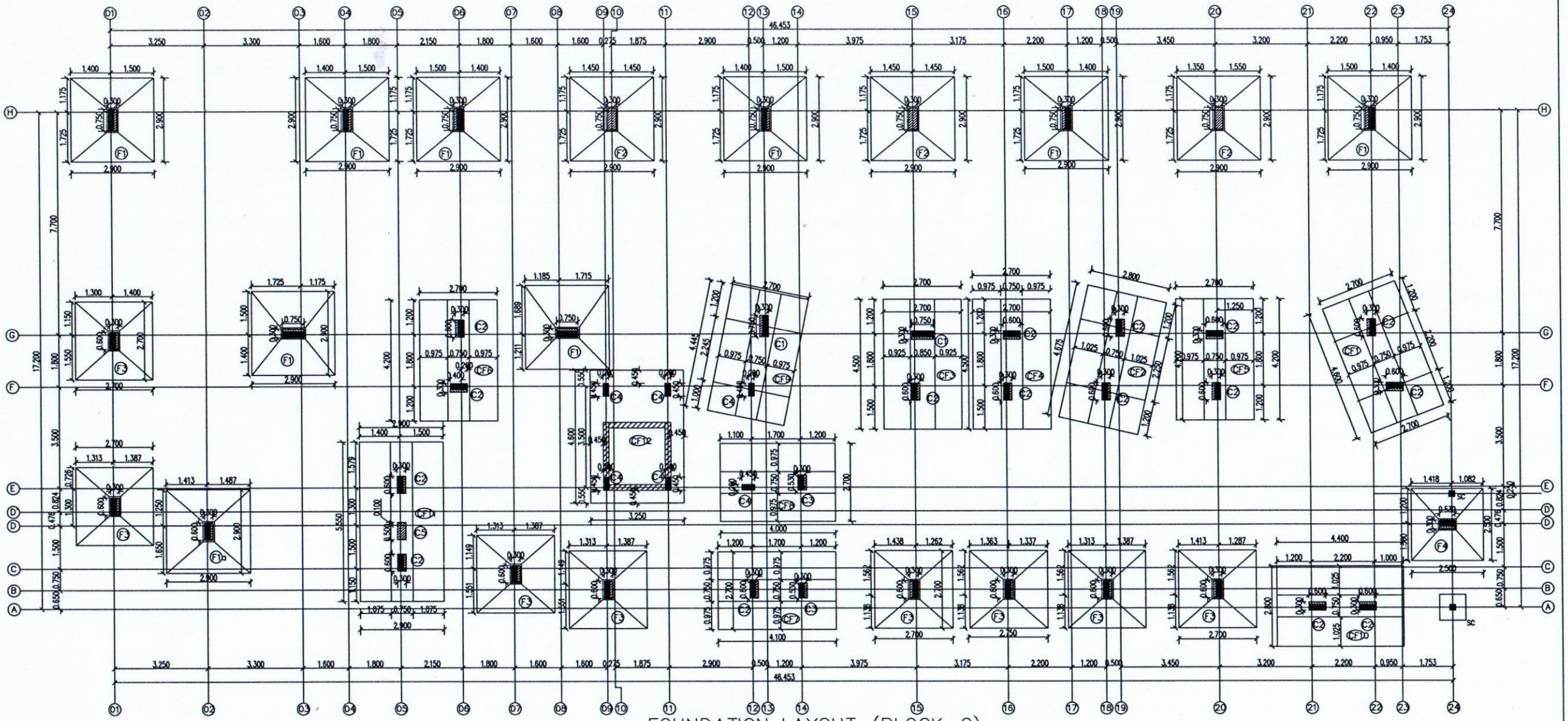
JOB NO : –	DRAWN : –
DRG.NO: S-04	DESIGNED : –
DATE : –	

PROJECT :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 183 DWELLING UNITS.
SURVEY NO: 46/1E,2B,47/4 & 57/6,
TVS EMRALD GREEN ACRES ROAD,
KOLAPAKKAM VILLAGE,
VANDALUR TALUK,
CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

Er. P. RAMAN, B.E (Civil)., M.E (Struct)., MIE., C.Engg.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



FOUNDATION LAYOUT–(BLOCK–C)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THIS DRG SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS
3. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE EXECUTION OF WORKS.
4. CONCRETE MIX :–
   FOR ALL STRUCTURAL MEMBER : M30.
   (CEMENT CONTENT –360 KG/M3)
   * CONTRACTOR / CLIENT SHALL SEND US CUBE TEST RESULTS TO SUBSTANTIATE THE CONCRETE MIX GRADE.
   * IF READY MIXED CONCRETE IS BEING USED, CLIENT/CONTRACTOR SHALL CAST CONCRETE CUBES INDEPENDENTLY AT SITE AND SEND CUBE RESULTS THUS OBTAINED TO US.
5. MAXIMUM WATER CEMENT RATIO : 0.45
6. REINFORCEMENT :
   TOR STEEL FOR #8MM & ABOVE CONFORMING TO IS 1786 (latest revision)
7. CLEAR CONCRETE COVER TO MAIN BARS :
   FOR COLUMNS : 40MM ,FOR RC WALL : 25MM
   FOR FOOTINGS&RAFT SLAB : 50MM, RAFT BEAM: 75MM
8. USE STONE AGGREGATES AND SAND CONFORMING TO IS 383 (LATEST REVISION)
   STONE AGGREGATES SIZE – 20MM AND DOWN GRADE
9. USE GOOD WATER FOR CONCRETE MIXING AND CURING CONFORMING TO IS 456 (LATEST REVISION)
10. USE ORDINARY PORTLAND CEMENT CONFORMING TO IS 8112 (LATEST REVISION) FOR 43 GRADE CEMENT & IS 12269 FOR 53 GRADE CEMENT.
11. S.B.C OF SOIL IS 18.50T/SQ.M.
12. FOUNDATION IS DESIGNED STILT+5FLOOR
13. THE CENTERING AND SHUTTERING TO SUPPORT STRUCTURAL CONCRETE MUST BE SUFFICIENTLY STRONG AND RIGIDLY BRACED.HORIZONTAL TIES SHALL BE PROVIDED AT EVERY 1.5M HEIGHT.
14. THE STABILITY OF SUPPORTS AND STRENGTH OF THE CENTERING AND FORMWORK SHOULD BE ENSURED BY THE CONTRACTOR AND SITE ENGINEER BEFORE PLACING CONCRETE.

REV.	DATE	REVISION NOTE NO	SIGN

FOUNDATION LAYOUT (BLOCK-C)

JOB NO : –	DRAWN : –
DRG.NO: S-01	DESIGNED : –
DATE : –	

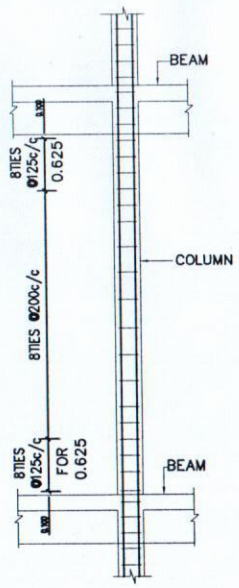
PROJECT :
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.SURVEY NO: 46/1E,2B,47/1 & 57/6, TVS EMRALD GREEN ACRES ROAD,KOLAPAKKAM VILLAGE,VANDALUR TALUK, CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

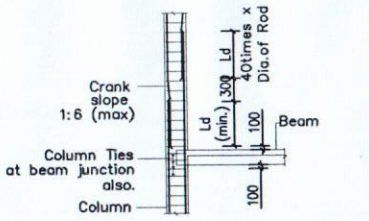
Er. P. RAMAN B.E.(Civil), M.E (Struct)., MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.

SCHEDULE OF FOOTING & SCHEDULE OF COLUMNS (MIX:M30)

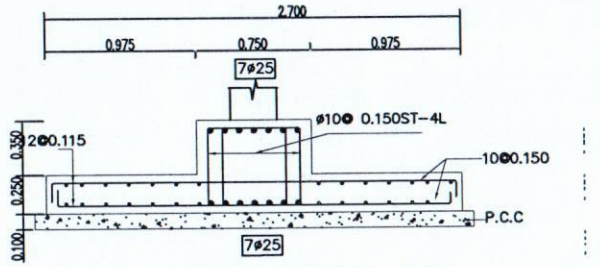
TYPE	FOOTING SIZE	DEPTH	FOOTING REINFORCEMENT				COLUMN REINFORCEMENT						
		h1	L	B	TOP SHORT SPAN	TOP LONG SPAN	GROUND FLOOR	1st FLOOR	2nd FLOOR	3rd FLOOR	4th FLOOR	5th FLOOR	STIRRUPS
F1	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)	12–ø20+2–ø16(b)	8–ø20+6–ø16(b)	14–ø16	14–ø16	14–ø16	ø8Tor
F1A	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20	12–ø20	8–ø20+4–ø16(b)	8–ø20+4–ø16(b)	12–ø16	12–ø16	ø8Tor
F2	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)	TERMINATE FF LVL					ø8Tor
F3	2.700x2.700	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20	12–ø20	8–ø20+4–ø16(b)	8–ø20+4–ø16(b)	12–ø16	12–ø16	ø8Tor
F4	2.500x2.500	500	ø12Tor@0.150	ø12Tor@0.150	ø10Tor@0.150	ø10Tor@0.150	10–ø16	10–ø16	10–ø16	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	ø8Tor
C1	LIFT&COMBINED FOOTING						12–ø20+2–ø16(b)	12–ø20+2–ø16(b)	8–ø20+6–ø16(b)	14–ø16	14–ø16	14–ø16	
C2							12–ø20	12–ø20	8–ø20+4–ø16(b)	8–ø20+4–ø16(b)	12–ø16	12–ø16	ø8Tor
C3							10–ø16	10–ø16	10–ø16	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	ø8Tor
C4							8–ø16	8–ø16	8–ø16	8–ø16	8–ø16	8–ø16	ø8Tor
C5							12–ø20	TERMINATE FF LVL					ø8Tor
1	FLOATING COLUMN							12–ø20	12–ø20	12–ø20	12–ø20	12–ø20	ø8Tor
2												6–ø16	ø8Tor



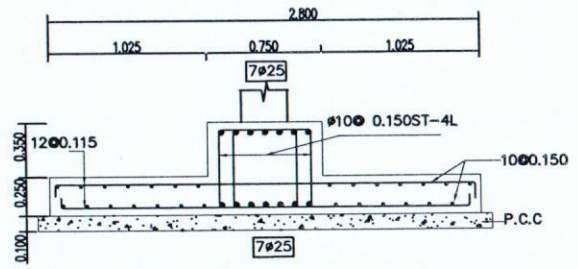
TYPICAL TIES ARRANGEMENT IN COLUMN



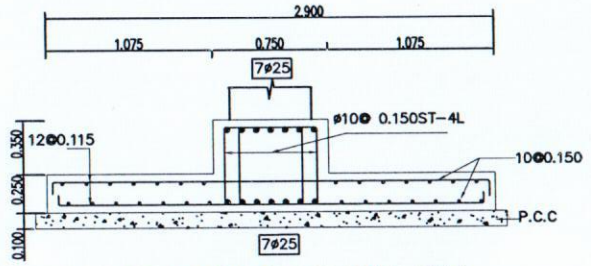
SPLICE WITH UPPER BARS CRANKED INTO POSITION INSIDE LOWER BARS



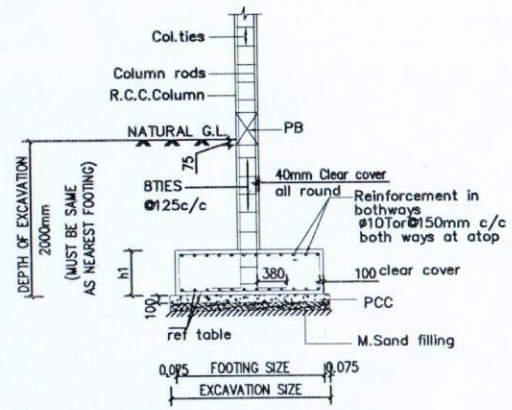
C.S OF COMBINED FOOTING–CF1
(SAME STEEL FOLLOW CF3,CF4,CF5,CF6,CF7,CF8 & CF9)



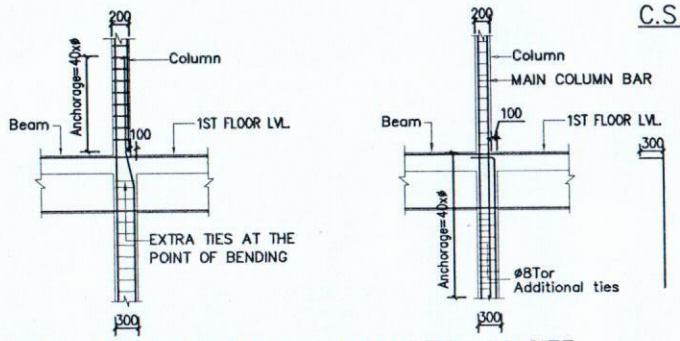
C.S OF COMBINED FOOTING–CF2
(SAME STEEL FOLLOW CF10)



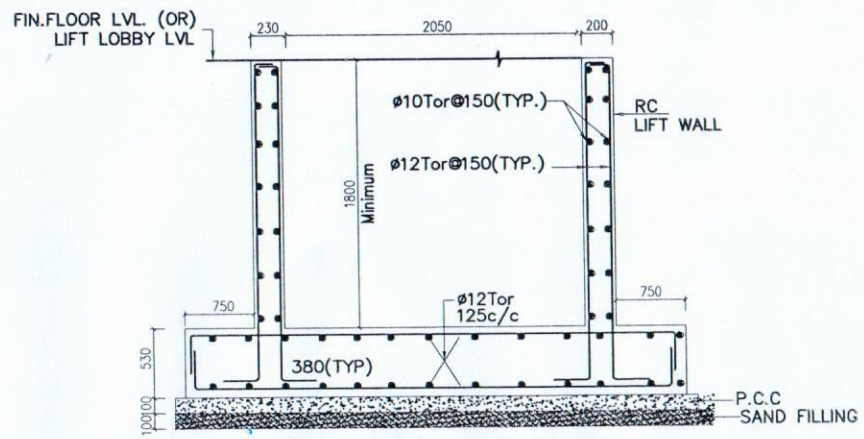
C.S OF COMBINED FOOTING–CF11



VERTICAL SECTION THROUGH COLUMN FOOTING FOR FLAT



ANCHORAGE DETAIL FOR REDUCTION IN SIZE OF COLUMN AT 1ST FLOOR LEVEL



TYPICAL DETAILS OF LIFT PIT COMBINED FOOTING–CF12
(SECTION AT X–X)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THIS DRG SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS
3. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE EXECUTION OF WORKS.
4. CONCRETE MIX :– FOR ALL STRUCTURAL MEMBER : M30. (CEMENT CONTENT –360 KG/M3)
   - CONTRACTOR / CLIENT SHALL SEND US CUBE TEST RESULTS TO SUBSTANTIATE THE CONCRETE MIX GRADE.
   - IF READY MIXED CONCRETE IS BEING USED, CLIENT/CONTRACTOR SHALL CAST CONCRETE CUBES INDEPENDENTLY AT SITE AND SEND CUBE RESULTS THUS OBTAINED TO US.
5. MAXIMUM WATER CEMENT RATIO : 0.45
6. REINFORCEMENT : TOR STEEL FOR ø8MM & ABOVE CONFORMING TO IS 1786 (latest revision)
7. CLEAR CONCRETE COVER TO MAIN BARS : FOR COLUMNS : 40MM ,FOR RC WALL : 25MM FOR FOOTINGS&RAFT SLAB : 50MM, RAFT BEAM: 75MM
8. USE STONE AGGREGATES AND SAND CONFORMING TO IS 383 (LATEST REVISION) STONE AGGREGATES SIZE – 20MM AND DOWN GRADE
9. USE GOOD WATER FOR CONCRETE MIXING AND CURING CONFORMING TO IS 456 (LATEST REVISION)
10. USE ORDINARY PORTLAND CEMENT CONFORMING TO IS 8112 (LATEST REVISION) FOR 43 GRADE CEMENT & IS 12269 FOR 53 GRADE CEMENT.
11. S.B.C OF SOIL IS 18.50T/SQ.M.
12. FOUNDATION IS DESIGNED STILT+5FLOOR
13. THE CENTERING AND SHUTTERING TO SUPPORT STRUCTURAL CONCRETE MUST BE SUFFICIENTLY STRONG AND RIGIDLY BRACED.HORIZONTAL TIES SHALL BE PROVIDED AT EVERY 1.5M HEIGHT.
14. THE STABILITY OF SUPPORTS AND STRENGTH OF THE CENTERING AND FORMWORK SHOULD BE ENSURED BY THE CONTRACTOR AND SITE ENGINEER BEFORE PLACING CONCRETE.

REV.	DATE	REVISION NOTE NO	SIGN

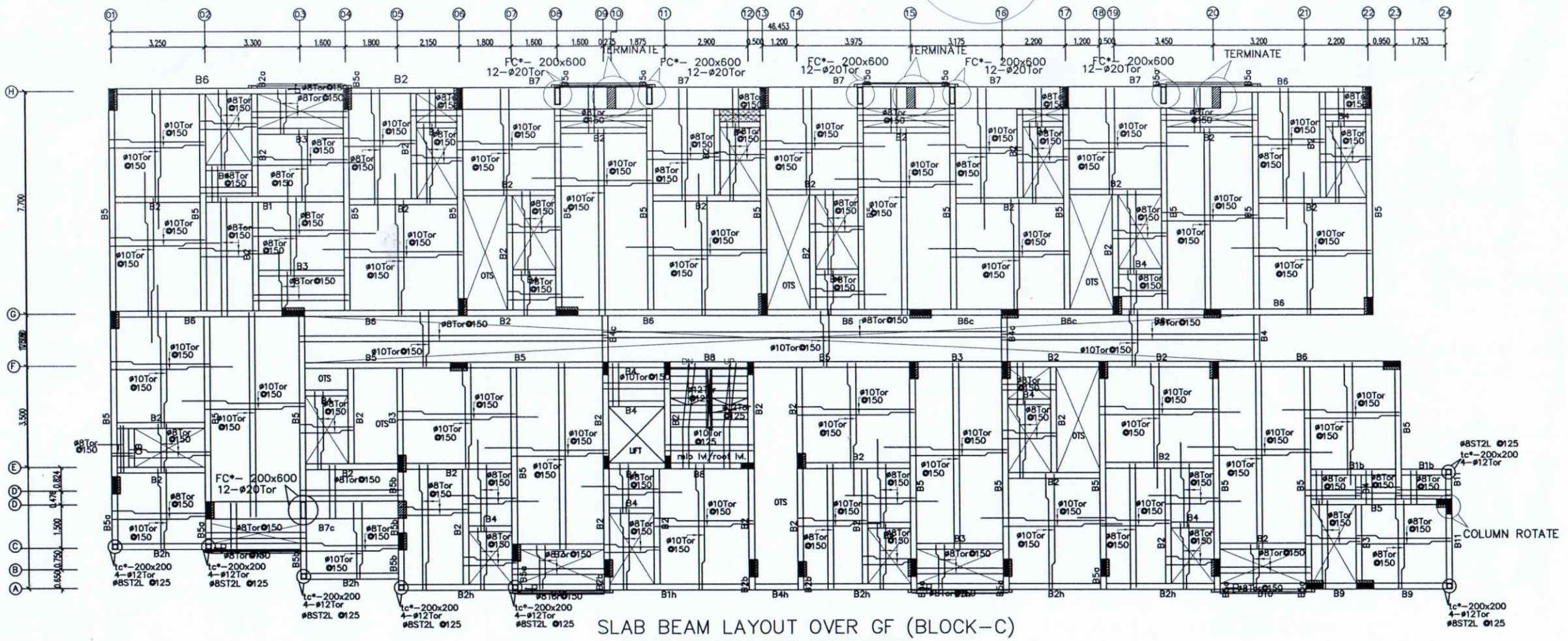
COLUMN SCHEDULE AND FOOTING DETAILS (BLOCK-C).

JOB NO : –	DRAWN : –
DRG.NO: S–02	DESIGNED : –
DATE : –	

PROJECT :
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.SURVEY NO: 46/1E,2B,47/1 & 57/6, TVS EMRALD GREEN ACRES ROAD,KOLAPAKKAM VILLAGE,VANDALUR TALUK, CHENGALPATTU DISTRICT.

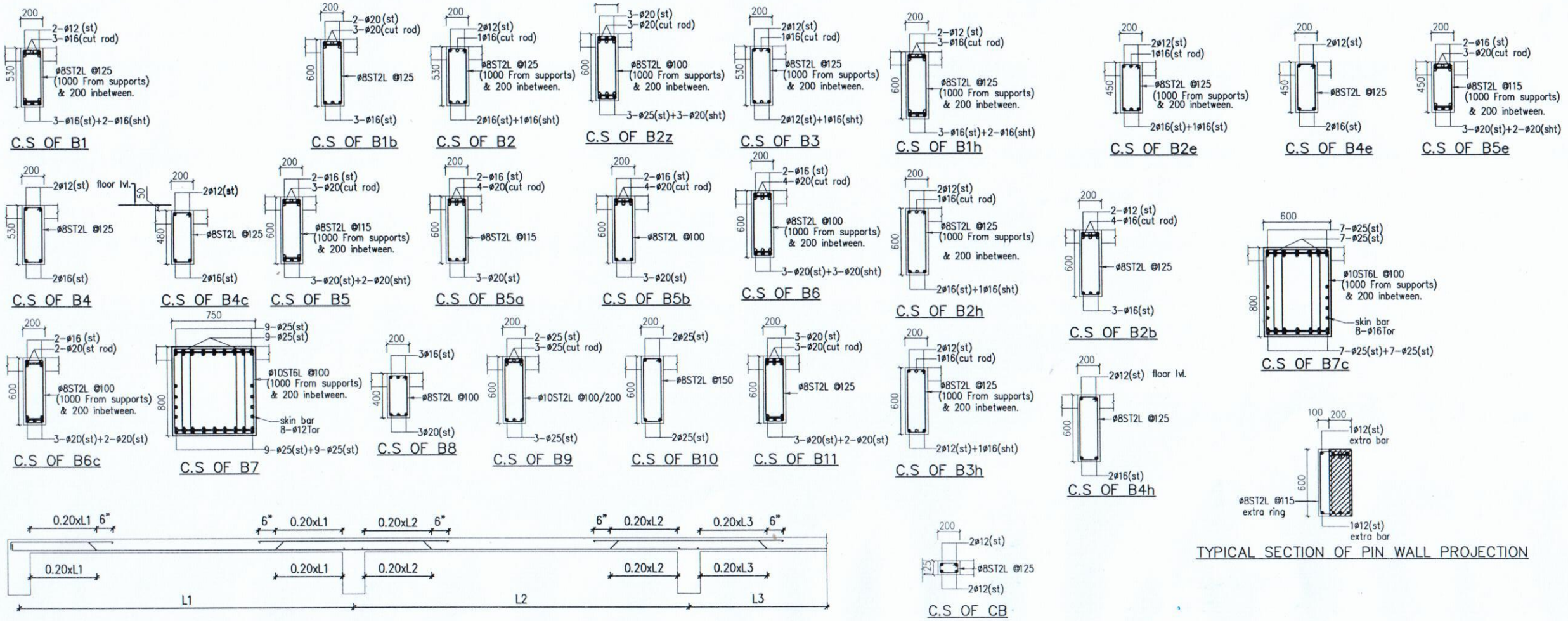
STRUCTURAL CONSULTANT

Er. P. RAMAN, B.E (Civil)., M.E (Struct)., MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



SLAB BEAM LAYOUT OVER GF (BLOCK-C)

ALL SLAB THICKNESS IS 125MM, UNLESS SPECIFIED.



TYPICAL SLAB ROD BENDING DETAILS.

TYPICAL SECTION OF PIN WALL PROJECTION

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THIS DRG SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS
3. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE EXECUTION OF WORKS.
4. CONCRETE MIX :-
   FOR ALL STRUCTURAL MEMBER : M30.
   (CEMENT CONTENT -360 KG/M3)
   * CONTRACTOR / CLIENT SHALL SEND US CUBE TEST RESULTS TO SUBSTANTIATE THE CONCRETE MIX GRADE.
   * IF READY MIXED CONCRETE IS BEING USED, CLIENT/CONTRACTOR SHALL CAST CONCRETE CUBES INDEPENDENTLY AT SITE AND SEND CUBE RESULTS THUS OBTAINED TO US.
5. MAXIMUM WATER CEMENT RATIO : 0.45
6. REINFORCEMENT :
   TOR STEEL FOR ø8MM & ABOVE CONFORMING TO IS 1786 (latest revision)
7. CLEAR CONCRETE COVER TO MAIN BARS :
   FOR COLUMNS : 40MM ,FOR RC WALL : 25MM
   FOR FOOTINGS&RAFT SLAB : 50MM, RAFT BEAM: 75MM
8. USE STONE AGGREGATES AND SAND CONFORMING TO IS 383 (LATEST REVISION)
   STONE AGGREGATES SIZE - 20MM AND DOWN GRADE
9. USE GOOD WATER FOR CONCRETE MIXING AND CURING CONFORMING TO IS 456 (LATEST REVISION)
10. USE ORDINARY PORTLAND CEMENT CONFORMING TO IS 8112 (LATEST REVISION) FOR 43 GRADE CEMENT & IS 12269 FOR 53 GRADE CEMENT.
11. S.B.C OF SOIL IS 18.50T/SQ.M.
12. FOUNDATION IS DESIGNED STILT+5FLOOR
13. THE CENTERING AND SHUTTERING TO SUPPORT STRUCTURAL CONCRETE MUST BE SUFFICIENTLY STRONG AND RIGIDLY BRACED.HORIZONTAL TIES SHALL BE PROVIDED AT EVERY 1.5M HEIGHT.
14. THE STABILITY OF SUPPORTS AND STRENGTH OF THE CENTERING AND FORMWORK SHOULD BE ENSURED BY THE CONTRACTOR AND SITE ENGINEER BEFORE PLACING CONCRETE.

REV.	DATE	REVISION NOTE NO	SIGN

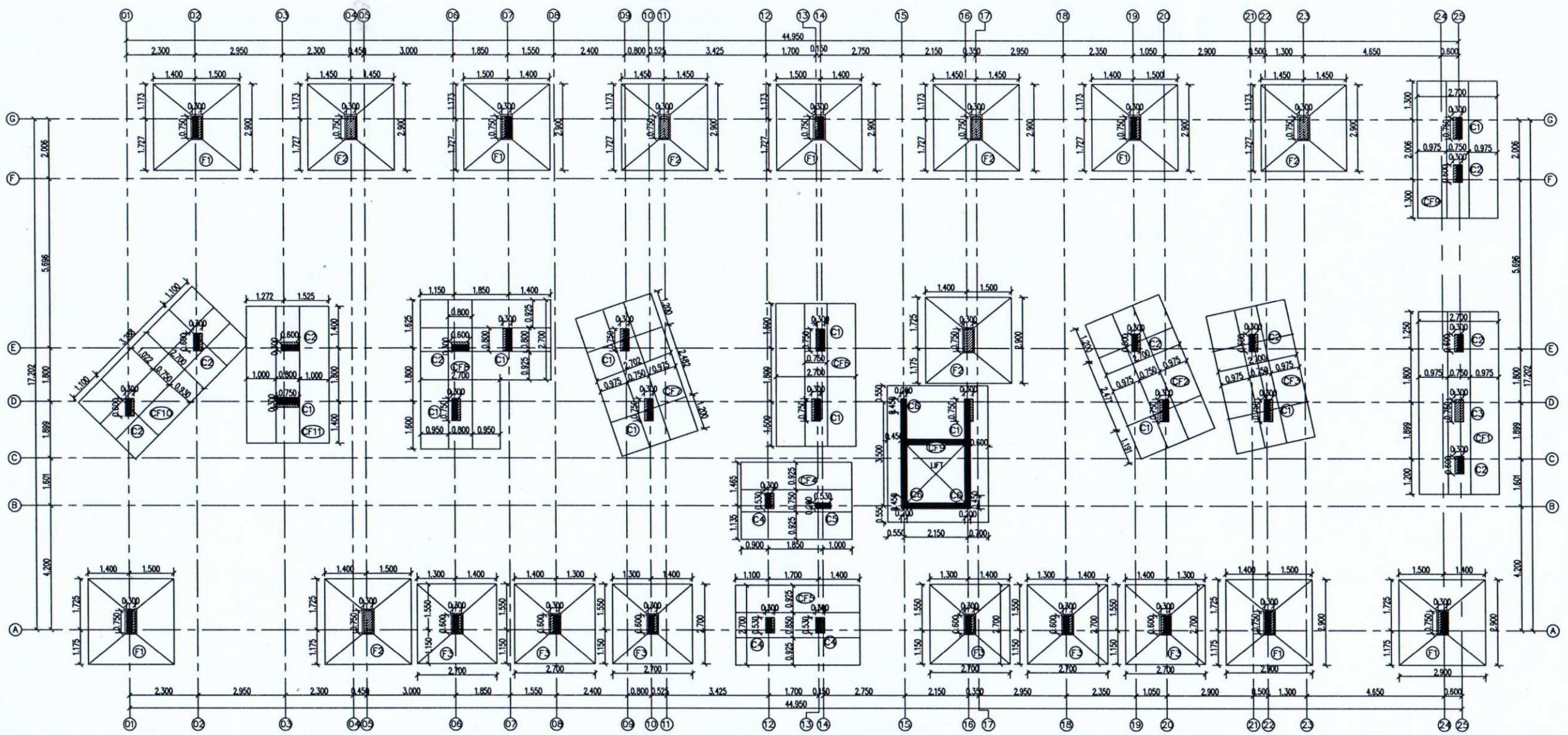
SLAB BEAM LAYOUT OVER GF. (BLOCK-C)

JOB NO : -	DRAWN : -
DRG.NO: S-03	DESIGNED : -
DATE : -	

PROJECT :
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.SURVEY NO: 46/1E,2B,47/1 & 57/6, TVS EMRALD GREEN ACRES ROAD,KOLAPAKKAM VILLAGE,VANDALUR TALUK, CHENGALPATTU DISTRICT.

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Manapakkam, Chennai - 600 125.



FOUNDATION LAYOUT– BLOCK–D

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THIS DRG SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS
3. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE EXECUTION OF WORKS.
4. CONCRETE MIX :–
   FOR COLUMNS : M30.
   (CEMENT CONTENT –360 KG/M3)
   * CONTRACTOR / CLIENT SHALL SEND US CUBE TEST RESULTS TO SUBSTANTIATE THE CONCRETE MIX GRADE.
   * IF READY MIXED CONCRETE IS BEING USED, CLIENT/CONTRACTOR SHALL CAST CONCRETE CUBES INDEPENDENTLY AT SITE AND SEND CUBE RESULTS THUS OBTAINED TO US.
5. MAXIMUM WATER CEMENT RATIO : 0.45
6. REINFORCEMENT :
   TOR STEEL FOR ø8MM & ABOVE CONFORMING TO IS 1786 (latest revision)
7. CLEAR CONCRETE COVER TO MAIN BARS :
   FOR COLUMNS : 40MM ,FOR RC WALL : 25MM
   FOR FOOTINGS&RAFT SLAB : 50MM, RAFT BEAM: 75MM
8. USE STONE AGGREGATES AND SAND CONFORMING TO IS 383 (LATEST REVISION)
   STONE AGGREGATES SIZE – 20MM AND DOWN GRADE
9. USE GOOD WATER FOR CONCRETE MIXING AND CURING CONFORMING TO IS 456 (LATEST REVISION)
10. USE ORDINARY PORTLAND CEMENT CONFORMING TO IS 8112 (LATEST REVISION) FOR 43 GRADE CEMENT & IS 12269 FOR 53 GRADE CEMENT.
11. S.B.C OF SOIL IS 18.50T/SQ.M.
12. FOUNDATION IS DESIGNED STILT+5FLOOR
13. THE CENTERING AND SHUTTERING TO SUPPORT STRUCTURAL CONCRETE MUST BE SUFFICIENTLY STRONG AND RIGIDLY BRACED.HORIZONTAL TIES SHALL BE PROVIDED AT EVERY 1.5M HEIGHT.
14. THE STABILITY OF SUPPORTS AND STRENGTH OF THE CENTERING AND FORMWORK SHOULD BE ENSURED BY THE CONTRACTOR AND SITE ENGINEER BEFORE PLACING CONCRETE.

REV.	DATE	REVISION NOTE NO	SIGN

FOUNDATION LAYOUT (BLOCK-D)

JOB NO : –	DRAWN : –
DRG.NO: S–01	DESIGNED : –
DATE : –	

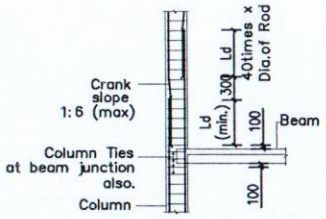
PROJECT :
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.SURVEY NO: 46/1E,2B,47/1 & 57/6, TVS EMRALD GREEN ACRES ROAD,KOLAPAKKAM VILLAGE,VANDALUR TALUK, CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT.
AK CONSULTANT.,
NO.24, GROUND FLOOR.,
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MANAPAKKAM,
CHENNAI–600 125.
E–MAIL : akraman.structural@gmail.com
PHONE: 9840292004,9524423058

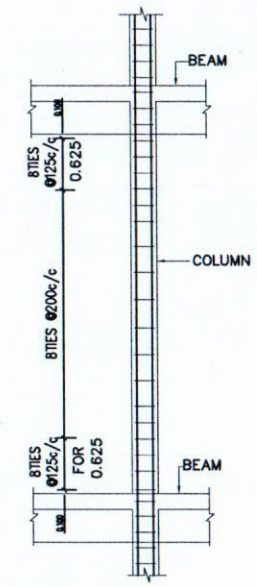
A.K.RAMAN, B.E (Civil)., M.E (Struct)., MIE., C.Eng.,
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CMDA Reg. No.SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
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SCHEDULE OF FOOTING & SCHEDULE OF COLUMNS (MIX: 30)

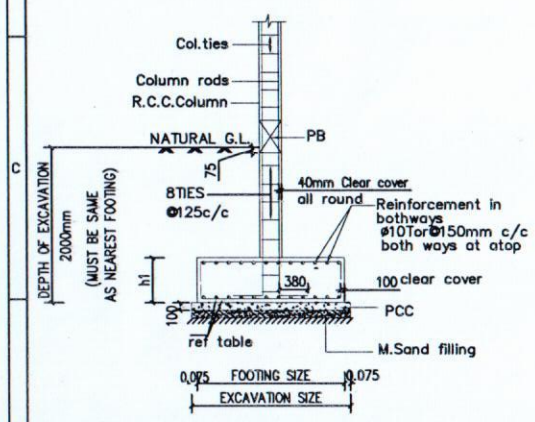
TYPE	FOOTING SIZE	DEPTH	FOOTING REINFORCEMENT				COLUMN REINFORCEMENT						
		h1	L	B	TOP SHORT SPAN	TOP LONG SPAN	GROUND FLOOR	1st FLOOR	2nd FLOOR	3rd FLOOR	4th FLOOR	5th FLOOR	STIRRUPS
F1	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)	12–ø20+2–ø16(b)	8–ø20+6–ø16(b)	14–ø16	14–ø16	14–ø16	ø8Tor
F2	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)	TERMINATE FF LVL					ø8Tor
F3	2.800x2.800	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20	12–ø20	8–ø20+4–ø16(b)	8–ø20+4–ø16(b)	12–ø16	12–ø16	ø8Tor
C1	LIFT&COMBINED FOOTING						12–ø20+2–ø16(b)	12–ø20+2–ø16(b)	8–ø20+6–ø16(b)	14–ø16	14–ø16	14–ø16	
C2							12–ø20	12–ø20	8–ø20+4–ø16(b)	8–ø20+4–ø16(b)	12–ø16	12–ø16	ø8Tor
C3							12–ø20+2–ø16(b)	TERMINATE FF LVL					ø8Tor
C4							10–ø16	10–ø16	10–ø16	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	ø8Tor
C5							10–ø16	10–ø16	10–ø16	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	ø8Tor
C6							8–ø16	8–ø16	8–ø16	8–ø16	8–ø16	8–ø16	ø8Tor
	FLOATING COLUMN 1st FLOOR LEVEL.							12–ø20	12–ø20	12–ø20	12–ø20	12–ø20	ø8Tor



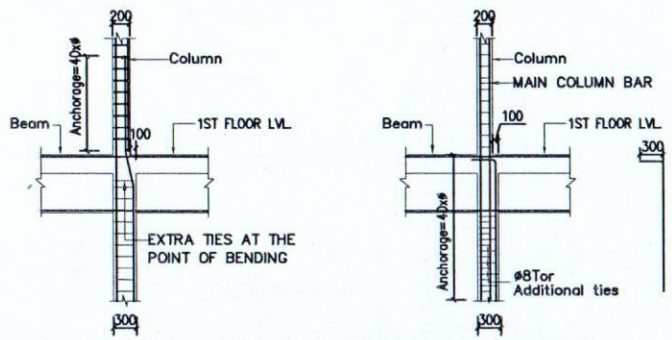
SPLICE WITH UPPER BARS CRANKED INTO POSITION INSIDE LOWER BARS



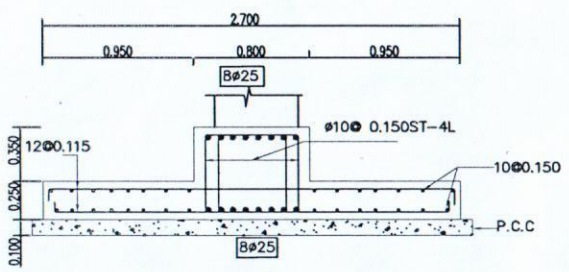
TYPICAL TIES ARRANGEMENT IN COLUMN



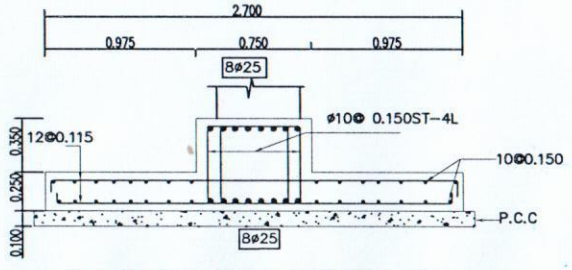
VERTICAL SECTION THROUGH COLUMN FOOTING FOR FLAT



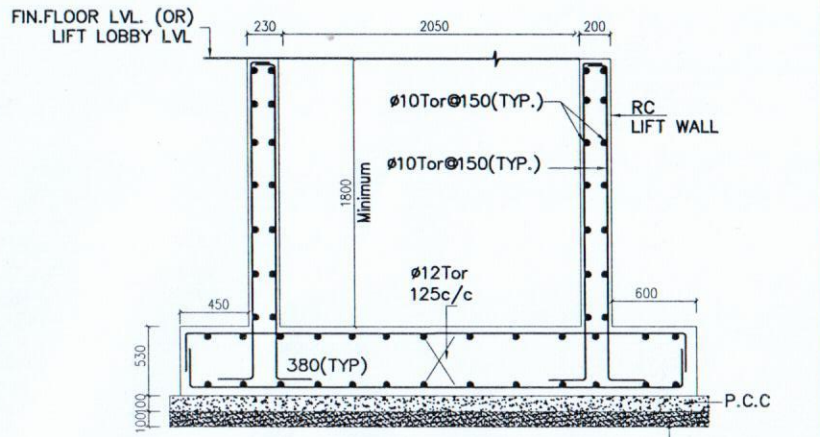
ANCHORAGE DETAIL FOR REDUCTION IN SIZE OF COLUMN AT 1ST FLOOR LEVEL



C.S OF COMBINED FOOTING–CF8
(SAME STEEL FOLLOW CF11)



C.S OF COMBINED FOOTING–CF1
(SAME STEEL FOLLOW CF2 TO CF7&CF10)



TYPICAL DETAILS OF LIFT PIT COMBINED FOOTING–CF9
(SECTION AT X–X)

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THIS DRG SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS
3. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE EXECUTION OF WORKS.
4. CONCRETE MIX :– FOR COLUMNS : M30. (CEMENT CONTENT –360 KG/M3)
   * CONTRACTOR / CLIENT SHALL SEND US CUBE TEST RESULTS TO SUBSTANTIATE THE CONCRETE MIX GRADE.
   * IF READY MIXED CONCRETE IS BEING USED, CLIENT/CONTRACTOR SHALL CAST CONCRETE CUBES INDEPENDENTLY AT SITE AND SEND CUBE RESULTS THUS OBTAINED TO US.
5. MAXIMUM WATER CEMENT RATIO : 0.45
6. REINFORCEMENT :
   TOR STEEL FOR ø8MM & ABOVE CONFORMING TO IS 1786 (latest revision)
7. CLEAR CONCRETE COVER TO MAIN BARS :
   FOR COLUMNS : 40MM ,FOR RC WALL : 25MM
   FOR FOOTINGS&RAFT SLAB : 50MM, RAFT BEAM: 75MM
8. USE STONE AGGREGATES AND SAND CONFORMING TO IS 383 (LATEST REVISION)
   STONE AGGREGATES SIZE – 20MM AND DOWN GRADE
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10. USE ORDINARY PORTLAND CEMENT CONFORMING TO IS 8112 (LATEST REVISION) FOR 43 GRADE CEMENT & IS 12269 FOR 53 GRADE CEMENT.
11. S.B.C OF SOIL IS 18.50T/SQ.M.
12. FOUNDATION IS DESIGNED STILT+5FLOOR
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REV.	DATE	REVISION NOTE NO.	SIGN

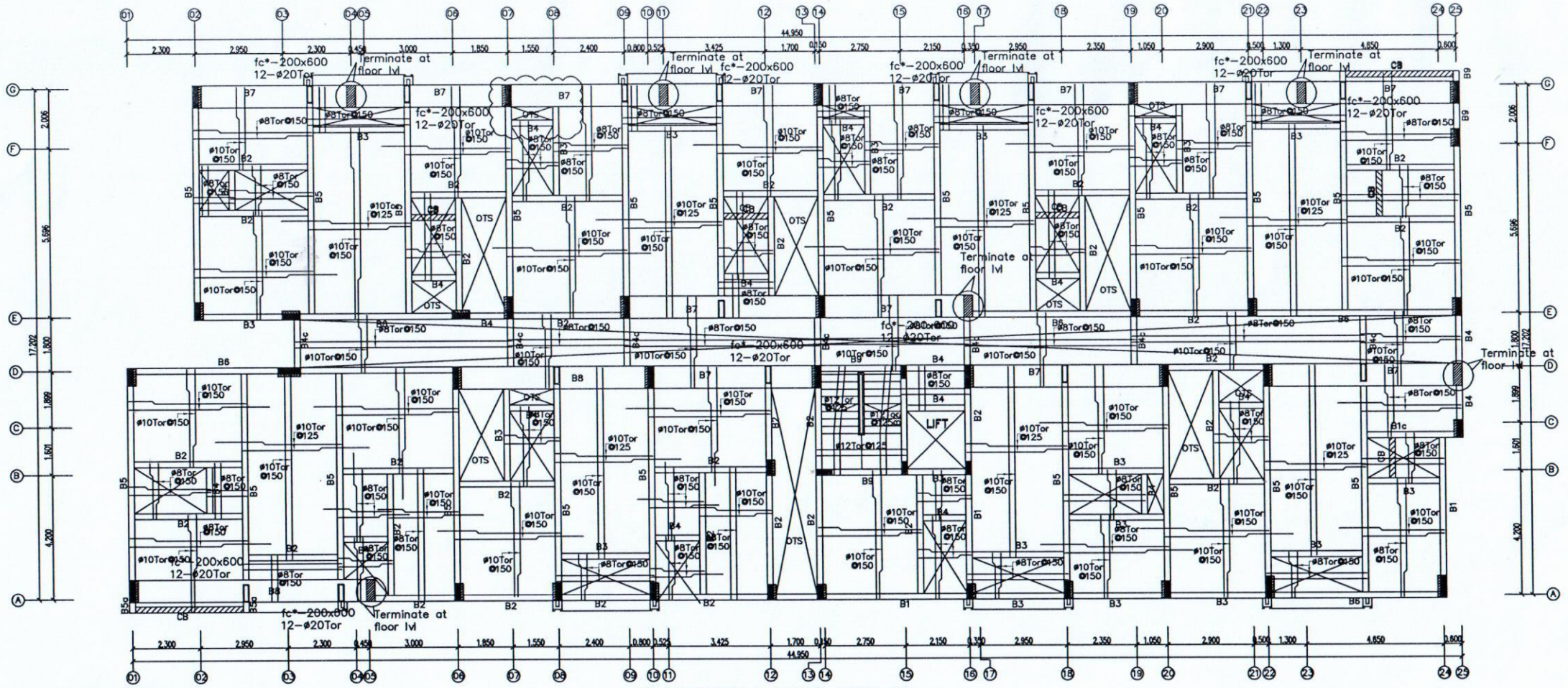
COLUMN SCHEDULE AND FOOTING DETAILS (BLOCK-D).

JOB NO : –	DRAWN : –
DRG.NO: S–02	DESIGNED : –
DATE : –	

PROJECT :
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.SURVEY NO: 46/1E,2B,47/1 & 57/6, TVS EMRALD GREEN ACRES ROAD,KOLAPAKKAM VILLAGE,VANDALUR TALUK, CHENGALPATTU DISTRICT.

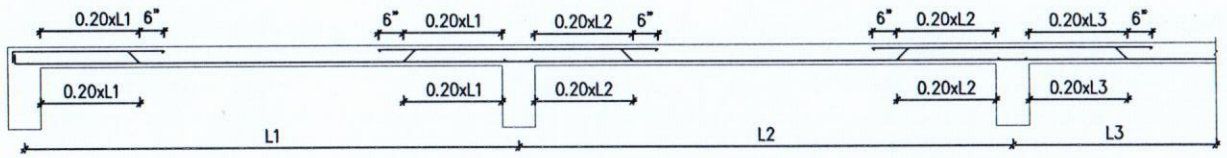
STRUCTURAL CONSULTANT

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Registered Structural Engineer Grade-1(SE)
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No.24, Ground Floor, CRR Puram Phase-3,
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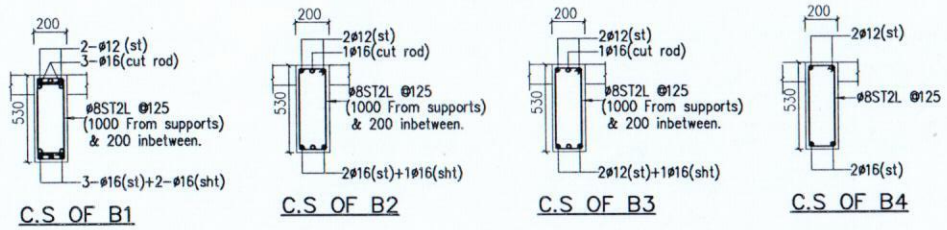


SLAB BEAM LAYOUT OVER GF

ALL SLAB THICKNESS IS 125MM, UNLESS SPECIFIED.



TYPICAL SLAB ROD BENDING DETAILS.

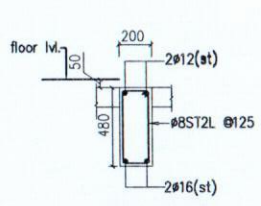


C.S OF B1

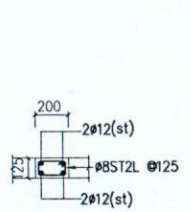
C.S OF B2

C.S OF B3

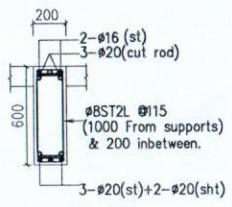
C.S OF B4



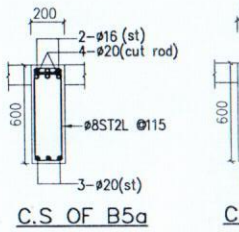
C.S OF B4c



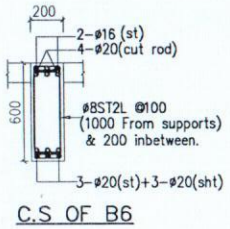
C.S OF CB



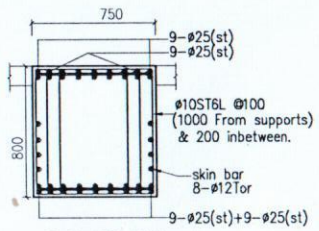
C.S OF B5



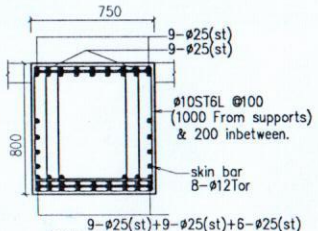
C.S OF B5a



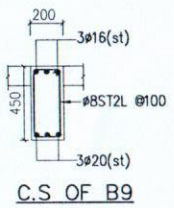
C.S OF B6



C.S OF B7



C.S OF B8



C.S OF B9

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. THIS DRG SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS
3. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BEFORE EXECUTION OF WORKS.
4. CONCRETE MIX :-
   FOR COLUMNS : M30.
   (CEMENT CONTENT -360 KG/M3)
   * CONTRACTOR / CLIENT SHALL SEND US CUBE TEST RESULTS TO SUBSTANTIATE THE CONCRETE MIX GRADE.
   * IF READY MIXED CONCRETE IS BEING USED, CLIENT/CONTRACTOR SHALL CAST CONCRETE CUBES INDEPENDENTLY AT SITE AND SEND CUBE RESULTS THUS OBTAINED TO US.
5. MAXIMUM WATER CEMENT RATIO : 0.45
6. REINFORCEMENT :
   TOR STEEL FOR ø8MM & ABOVE CONFORMING TO IS 1786 (latest revision)
7. CLEAR CONCRETE COVER TO MAIN BARS :
   FOR COLUMNS : 40MM ,FOR RC WALL : 25MM
   FOR FOOTINGS&RAFT SLAB : 50MM, RAFT BEAM: 75MM
8. USE STONE AGGREGATES AND SAND CONFORMING TO IS 383 (LATEST REVISION)
   STONE AGGREGATES SIZE - 20MM AND DOWN GRADE
9. USE GOOD WATER FOR CONCRETE MIXING AND CURING CONFORMING TO IS 456 (LATEST REVISION)
10. USE ORDINARY PORTLAND CEMENT CONFORMING TO IS 8112 (LATEST REVISION) FOR 43 GRADE CEMENT & IS 12269 FOR 53 GRADE CEMENT.
11. S.B.C OF SOIL IS 18.50T/SQ.M.
12. FOUNDATION IS DESIGNED STILT+5FLOOR
13. THE CENTERING AND SHUTTERING TO SUPPORT STRUCTURAL CONCRETE MUST BE SUFFICIENTLY STRONG AND RIGIDLY BRACED.HORIZONTAL TIES SHALL BE PROVIDED AT EVERY 1.5M HEIGHT.
14. THE STABILITY OF SUPPORTS AND STRENGTH OF THE CENTERING AND FORMWORK SHOULD BE ENSURED BY THE CONTRACTOR AND SITE ENGINEER BEFORE PLACING CONCRETE.

REV.	DATE	REVISION NOTE NO	SIGN

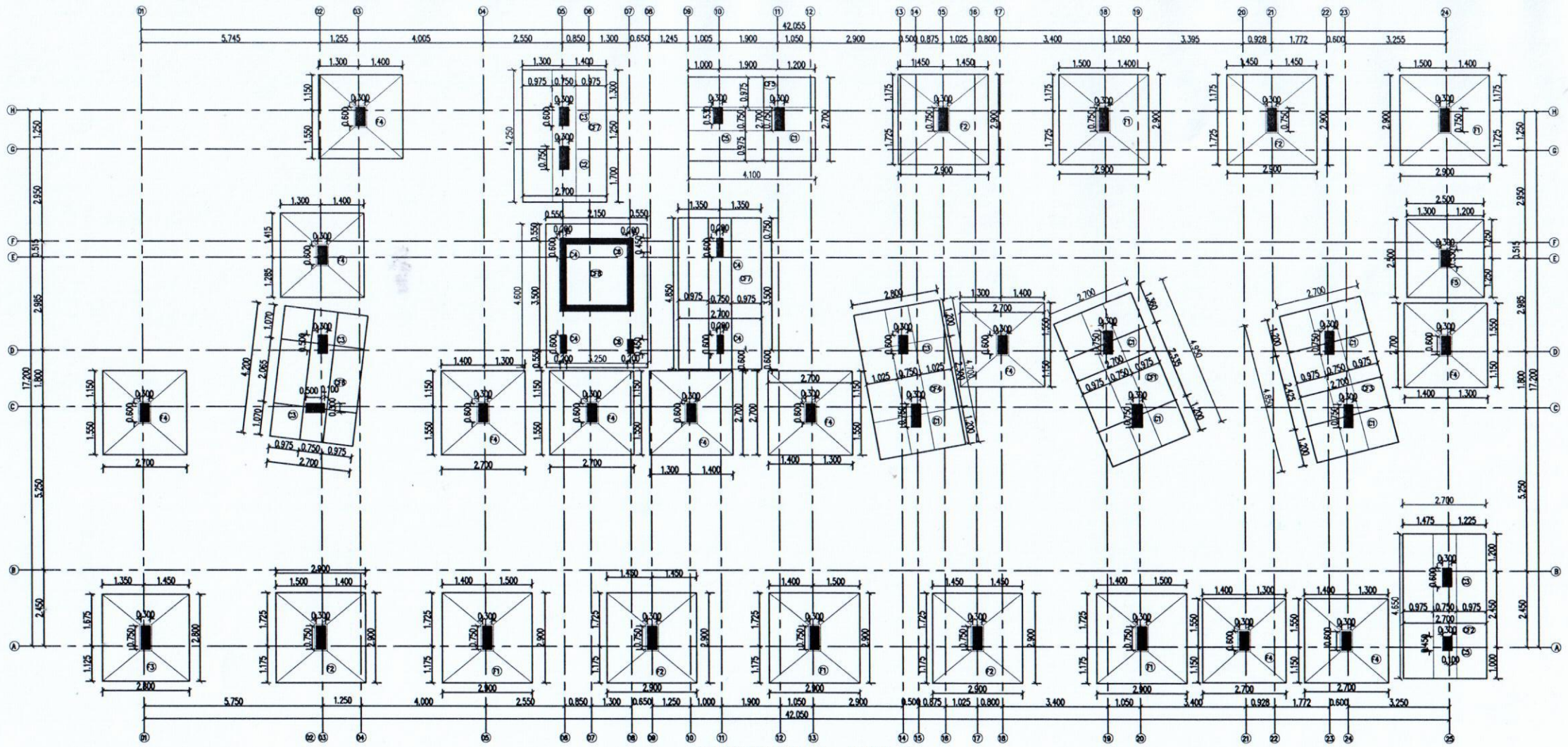
SLAB BEAM LAYOUT OVER GF. (BLOCK-D)

JOB NO : -	DRAWN : -
DRG.NO: S-03	DESIGNED : -
DATE : -	

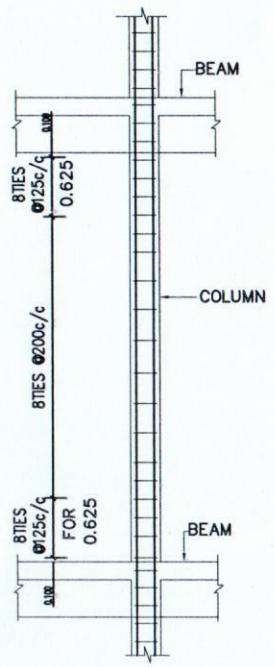
PROJECT :
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.SURVEY NO: 46/1E,2B,47/1 & 57/6, TVS EMRALD GREEN ACRES ROAD,KOLAPAKKAM VILLAGE,VANDALUR TALUK, CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

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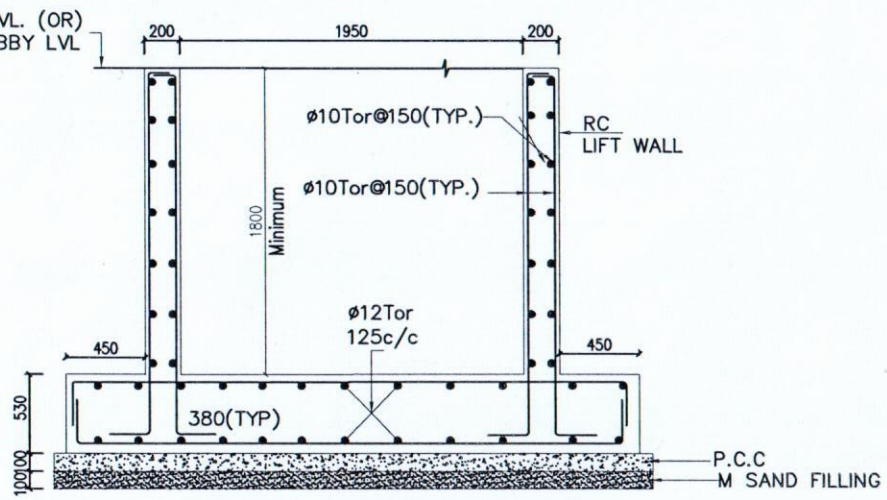


FOUNDATION LAYOUT – (BLOCK-E)

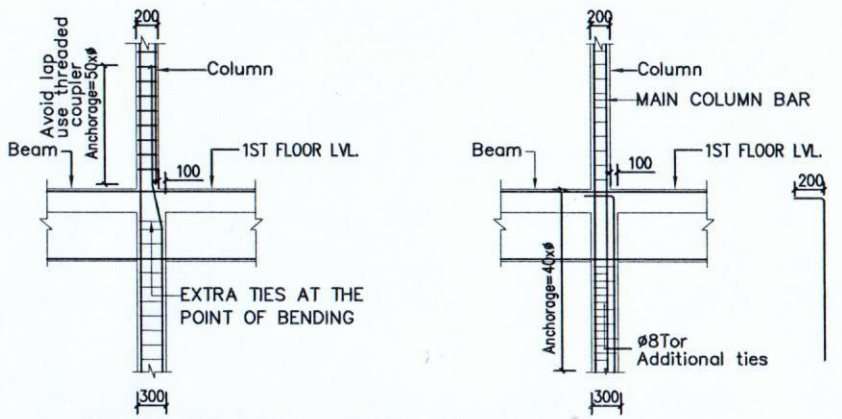


TYPICAL TIES ARRANGEMENT IN COLUMN

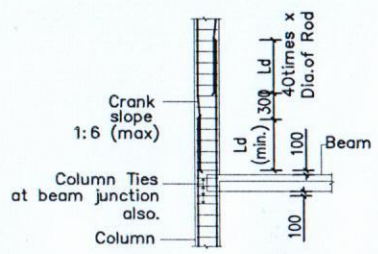
TYPE	FOOTING SIZE	
	L	B
F1	2.900	2.900
F2	2.900	2.900
F3	2.800	2.800
F4	2.700	2.700
F5	2.500	2.500
CF1	4.950	2.700
CF2	4.650	2.700
CF3	4.850	2.700
CF4	4.700	2.800
CF5	4.100	2.700
CF6	4.200	2.700
CF7	4.250	2.700
CF8	4.600	3.250



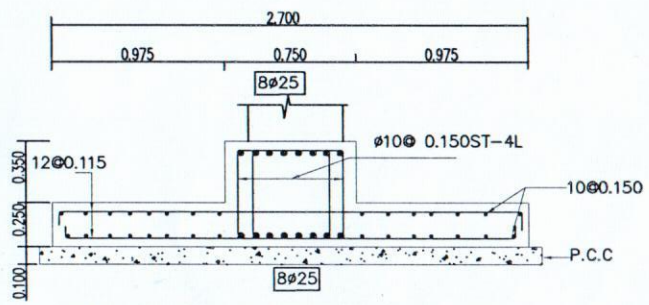
TYPICAL DETAILS OF LIFT PIT
COMBINED FOOTING–CF8
(SECTION AT X–X)



ANCHORAGE DETAIL FOR REDUCTION IN SIZE
OF COLUMN AT 1ST FLOOR LEVEL



SPLICE WITH UPPER BARS
CRANKED INTO POSITION
INSIDE LOWER BARS



C.S OF COMBINED FOOTING–CF1
(SAME STEEL FOLLOW CF2 TO CF7)

NOTES:

1. All dimensions are in millimetres.
2. This drg shall be read in conjunction with relevant architectural drawings
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :–
   For ALL STRUCTURAL MEMBER : M30.
   (Cement Content –360 kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Maximum water cement ratio :
   for 1:2:4 – 0.50
   for 1:1 1/2:3 – 0.45
6. REINFORCEMENT :
   TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
7. Clear concrete cover to main bars :
   For columns : 40mm ,For rc wall : 25mm
   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size – 20mm and down grade
9. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
10. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
11. S.B.C of soil is assumed as 18.50t/sq.m
12. Foundation is designed for STILT+5floor
13. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
14. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.

REV.	DATE	REVISION NOTE NO	SIGN	CHKD

FOUNDATION LAYOUT (BLOCK-E)

JOB NO : –	DRAWN : –
DRG.NO: S–01	DESIGNED : –
DATE : –	

PROJECT :

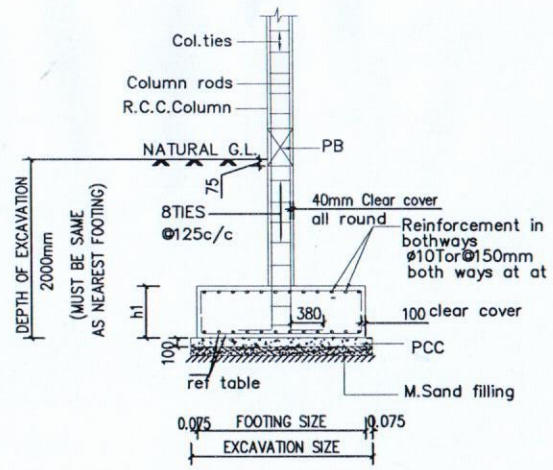
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.
SURVEY NO: 46/1E,2B,47/1 & 57/6,
TVS EMRALD GREEN ACRES ROAD,
KOLAPAKKAM VILLAGE,
VANDALUR TALUK,
CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

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No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.

SCHEDULE OF FOOTING & SCHEDULE OF COLUMNS (MIX: 30)

TYPE	FOOTING SIZE	DEPTH	FOOTING REINFORCEMENT				COLUMN REINFORCEMENT						
		h1	L	B	TOP SHORT SPAN	TOP LONG SPAN	GROUND FLOOR	1st FLOOR	2nd FLOOR	3rd FLOOR	4th FLOOR	5th FLOOR	STIRRUPS
F1	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)	12–ø20+2–ø16(b)	8–ø20+6–ø16(b)	14–ø16	14–ø16	14–ø16	ø8Tor
F2	2.900x2.900	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20+2–ø16(b)	TERMINATE FF LVL					ø8Tor
F3	2.800x2.800	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	8–ø20+6–ø16(b)	8–ø20+6–ø16(b)	14–ø16	14–ø16	14–ø16	14–ø16	ø8Tor
F4	2.700x2.700	550	ø12Tor@0.100	ø12Tor@0.100	ø10Tor@0.150	ø10Tor@0.150	12–ø20	12–ø20	8–ø20+4–ø16(b)	8–ø20+4–ø16(b)	12–ø16	12–ø16	ø8Tor
F5	2.500x2.500	550	ø12Tor@0.150	ø12Tor@0.150	ø10Tor@0.150	ø10Tor@0.150	10–ø16	10–ø16	10–ø16	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	ø8Tor
C1	LIFT&COMBINED FOOTING						12–ø20+2–ø16(b)	12–ø20+2–ø16(b)	8–ø20+6–ø16(b)	14–ø16	14–ø16	14–ø16	
C2							12–ø20+2–ø16(b)	TERMINATE FF LVL					ø8Tor
C3							12–ø20	12–ø20	8–ø20+4–ø16(b)	8–ø20+4–ø16(b)	12–ø16	12–ø16	ø8Tor
C4							12–ø20	8–ø20+4–ø16(b)	8–ø20+4–ø16(b)	12–ø16	12–ø16	12–ø16	ø8Tor
C5							10–ø16	10–ø16	10–ø16	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	8–ø16+2–ø12(b)	ø8Tor
C6							8–ø16	8–ø16	8–ø16	8–ø16	8–ø16	8–ø16	ø8Tor
1	FLOATING COLUMN							12–ø20	12–ø20	12–ø20	12–ø20	12–ø20	ø8Tor
2												6–ø16	ø8Tor
3												4–ø16	ø8Tor



VERTICAL SECTION THROUGH COLUMN FOOTING FOR FLAT

NOTES:
1. All dimensions are in millimetres.
2. This drg shall be read in conjunction with relevant architectural drawings
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :–
   For ALL STRUCTURAL MEMBER : M30.
   (Cement Content –360 kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Maximum water cement ratio :
   for 1:2:4 – 0.50
   for 1:1 1/2:3 – 0.45
6. REINFORCEMENT :
   TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
7. Clear concrete cover to main bars :
   For columns : 40mm ,For rc wall : 25mm
   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size – 20mm and down grade
9. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
10. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
11. S.B.C of soil is assumed as 18.50t/sq.m
12. Foundation is designed for STILT+5floor
13. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
14. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.

REV.	DATE	REVISION NOTE NO	SIGN	CHKD

COLUMN SCHEDULE AND FOOTING DETAILS (BLOCK-E).

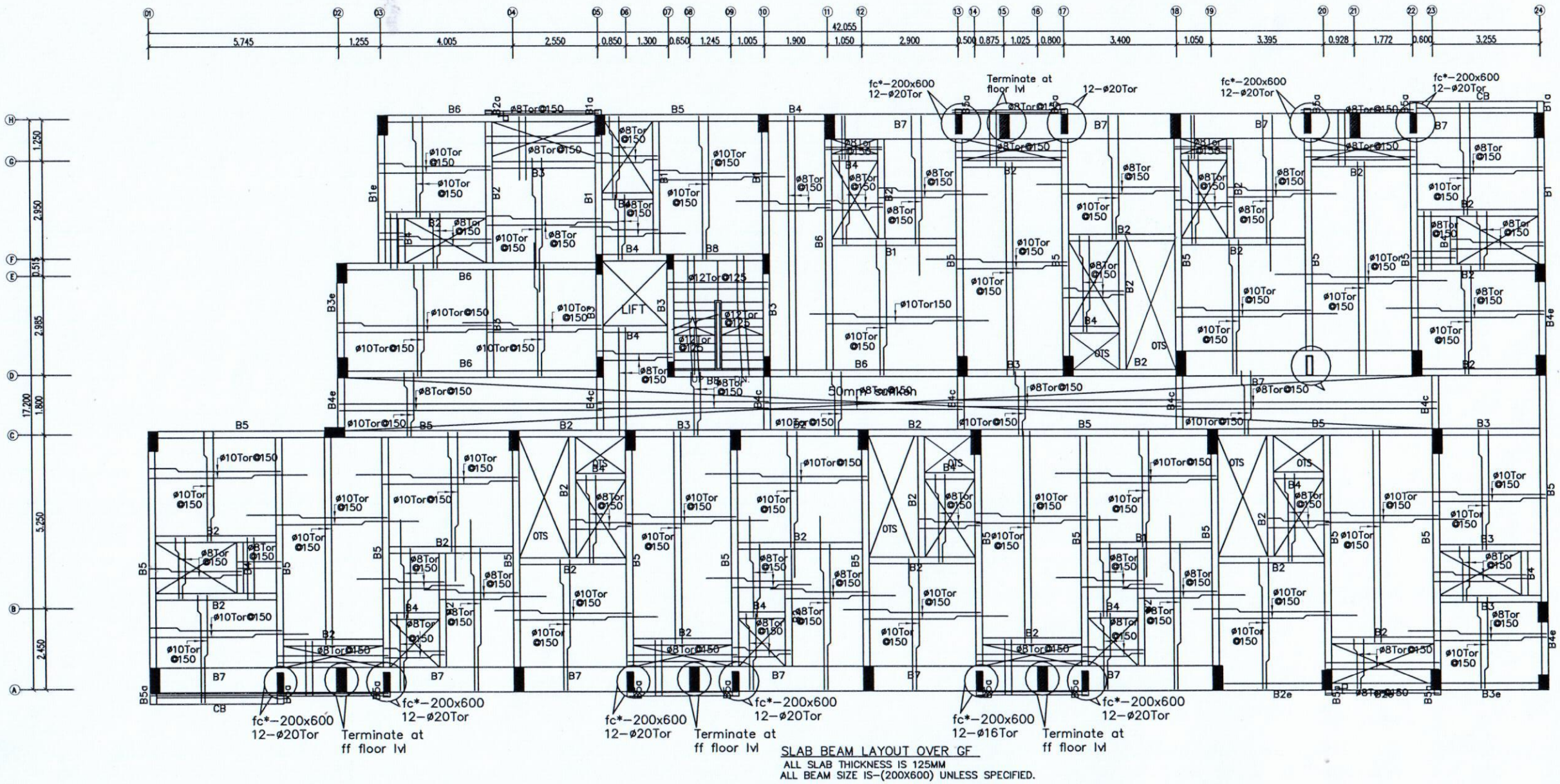
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DRG.NO: S-02	DESIGNED : –
DATE : –	

PROJECT :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.
SURVEY NO: 46/1E,2B,47/1 & 57/6,
TVS EMRALD GREEN ACRES ROAD,
KOLAPAKKAM VILLAGE,
VANDALUR TALUK,
CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

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No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



SLAB BEAM LAYOUT OVER GF

ALL SLAB THICKNESS IS 125MM

ALL BEAM SIZE IS-(200X600) UNLESS SPECIFIED.

NOTES:

1. All dimensions are in millimetres.
2. This drg shall be read in conjunction with relevant architectural drawings
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :-
   For ALL STRUCTURAL MEMBER : M30.
   (Cement Content -360 kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Maximum water cement ratio :
   for 1:2:4 - 0.50
   for 1:1 1/2:3 - 0.45
6. REINFORCEMENT :
   TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
7. Clear concrete cover to main bars :
   For columns : 40mm ,For rc wall : 25mm
   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size - 20mm and down grade
9. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
10. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
11. S.B.C of soil is assumed as 18.50t/sq.m
12. Foundation is designed for STILT+5floor
13. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
14. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.

GOOD FOR CONSTRUCTION

REV.	DATE	REVISION NOTE NO	SIGN	CHKD

SLAB BEAM LAYOUT OVER GF (BLOCK-E).

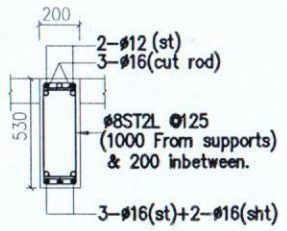
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DRG.NO: S-03	DESIGNED : -
DATE : -	

PROJECT :

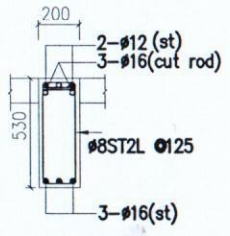
PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.
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TVS EMRALD GREEN ACRES ROAD,
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CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

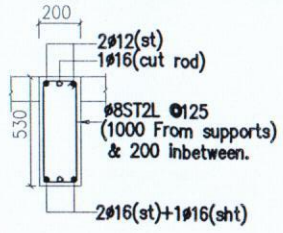
Er. P. RAMAN, B.E.(Civil)., M.E.(Struct)., MIE., C.Eng.,
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CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.



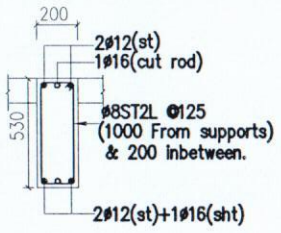
C.S OF B1



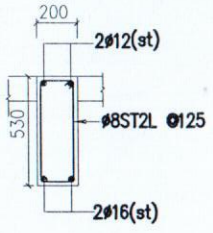
C.S OF B1a



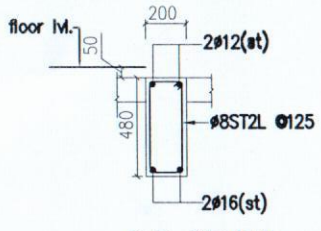
C.S OF B2



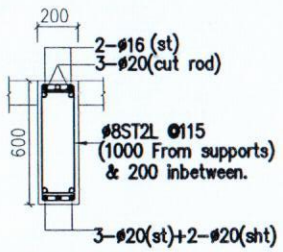
C.S OF B3



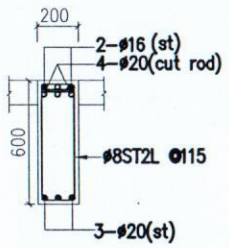
C.S OF B4



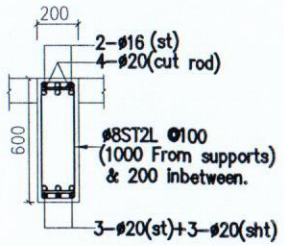
C.S OF B4c



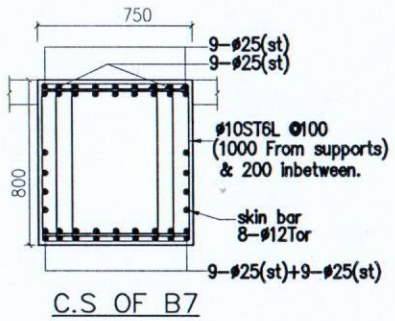
C.S OF B5



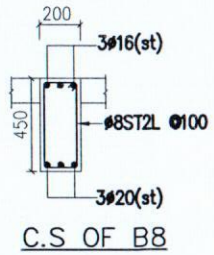
C.S OF B5a



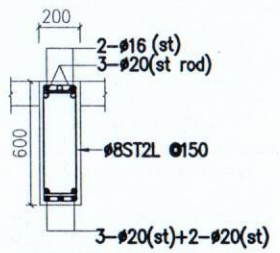
C.S OF B6



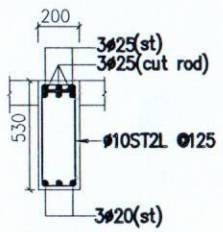
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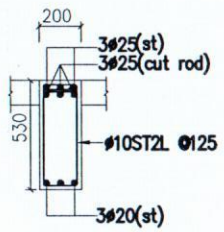
C.S OF B8



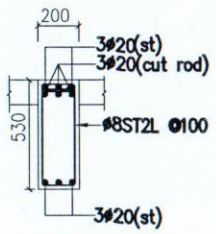
C.S OF B5c



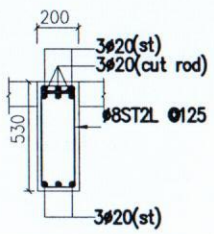
C.S OF B3a



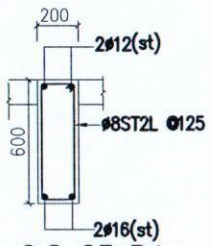
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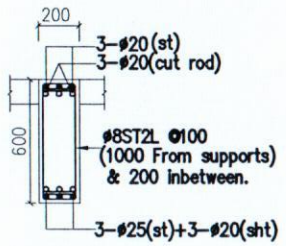
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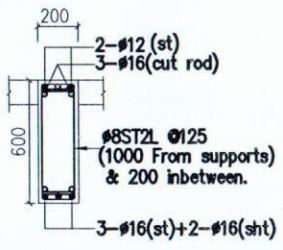
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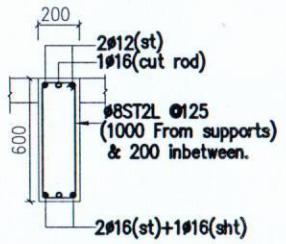
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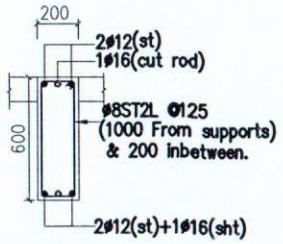
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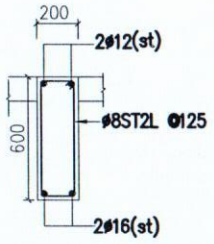
C.S OF B1e



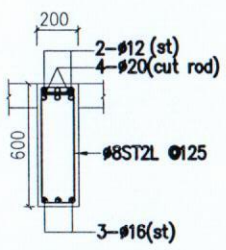
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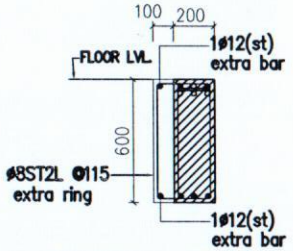
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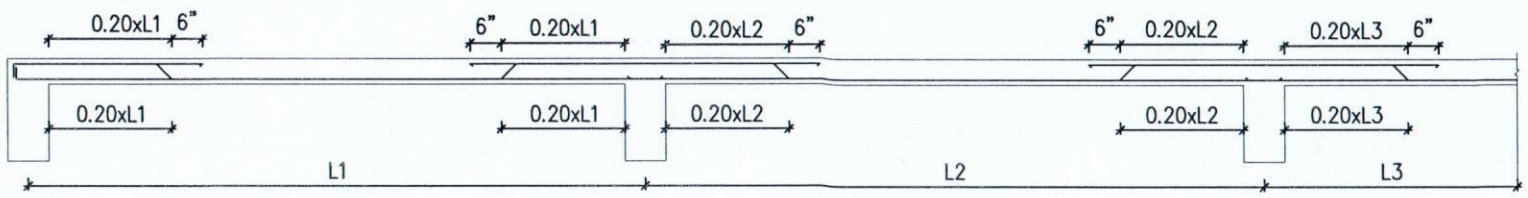
C.S OF B4e



C.S OF B1b



TYPICAL SECTION OF PIN WALL PROJECTION



TYPICAL SLAB ROD BENDING DETAILS.

NOTES:

1. All dimensions are in millimetres.
2. This drg shall be read in conjunction with relevant architectural drawings
3. All dimensions shall be checked and verified before execution of works.
4. Concrete mix :–
   For ALL STRUCTURAL MEMBER : M30.
   (Cement Content –360 kg/m3)
   * Contractor / Client shall send us cube test results to substantiate the concrete mix grade.
   * If ready mixed concrete is being used, client/contractor shall cast concrete cubes independently at site and send cube results thus obtained to us.
5. Maximum water cement ratio :
   for 1:2:4 – 0.50
   for 1:1 1/2:3 – 0.45
6. REINFORCEMENT :
   TOR STEEL for ø8mm & above conforming to IS 1786 (latest revision)
7. Clear concrete cover to main bars :
   For columns : 40mm ,For rc wall : 25mm
   For footings&raft slab : 50mm, Raft Beam: 75mm
8. Use stone aggregates and sand conforming to IS 383 (latest revision)
   Stone aggregates size – 20mm and down grade
9. Use good water for concrete mixing and curing conforming to IS 456 (latest revision)
10. Use ordinary portland cement conforming to IS 8112 (latest revision) for 43 grade cement & IS 12269 for 53 grade cement.
11. S.B.C of soil is assumed as 18.50t/sq.m
12. Foundation is designed for STILT+5floor
13. The centering and shuttering to support structural concrete must be sufficiently strong and rigidly braced.Horizontal ties shall be provided at every 1.5m height.
14. The stability of supports and strength of the centering and formwork should be ensured by the Contractor and Site Engineer before placing concrete.

REV.	DATE	REVISION NOTE NO	SIGN	CHKD

RCC DETAILS OF BEAM

JOB NO : –	DRAWN : –
DRG.NO: S-04	DESIGNED : –
DATE : –	

PROJECT :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDINGS OF 5 BLOCKS AND EACH BLOCKS WITH STILT + 5 FLOORS AND TOTAL OF 173 DWELLING UNITS.
SURVEY NO: 46/1E,2B,47/1 & 57/6,
TVS EMRALD GREEN ACRES ROAD,
KOLAPAKKAM VILLAGE,
VANDALUR TALUK,
CHENGALPATTU DISTRICT.

STRUCTURAL CONSULTANT

Er. P. RAMAN, B.E (Civil)., M.E (Struct)., MIE., C.Eng.,
Registered Structural Engineer Grade-1(SE)
CMDA Reg. No.: SE/GR-1/2024/02/006
No.24, Ground Floor, CRR Puram Phase-3,
Manapakkam, Chennai - 600 125.

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

Verified RealEstate
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Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.