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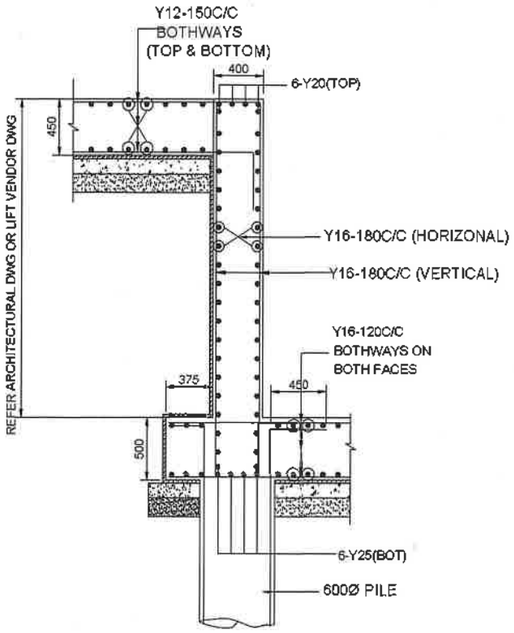
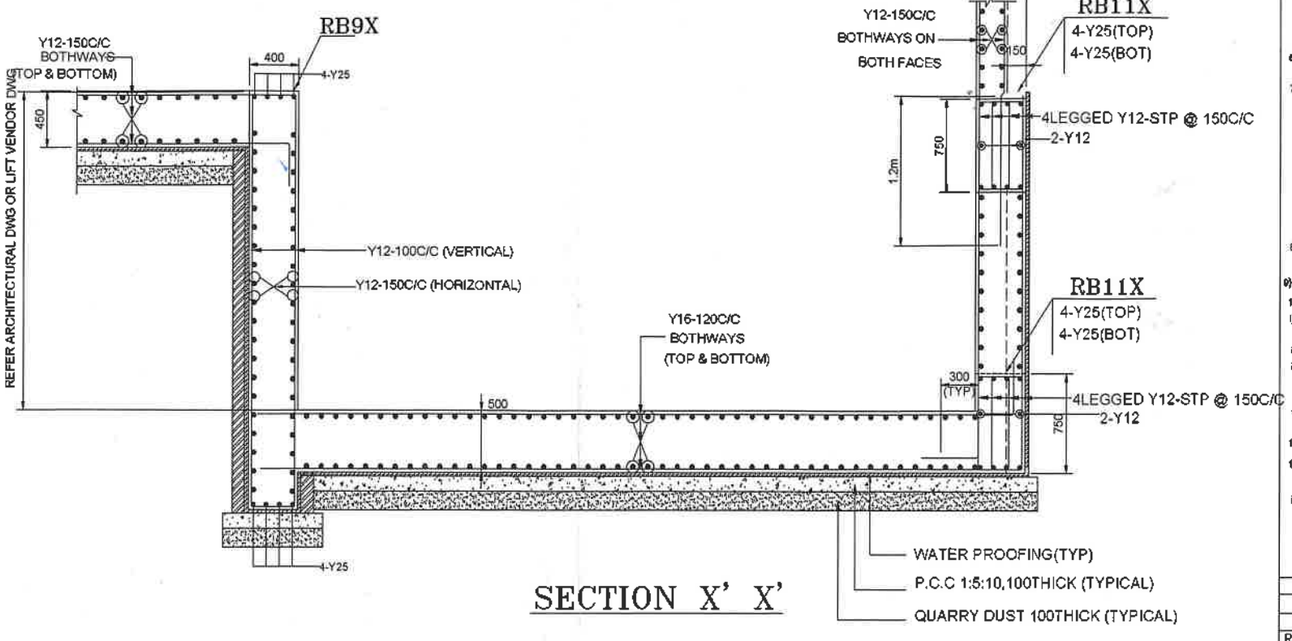


SECTION 8' 8'



SECTION X' X'

NOTES:- B+G+2

1. REFER ARCHITECTURAL DRAWING FOR CENTER LINE DIMENSION
2. ONLY WRITTEN DIMENSION TO BE FOLLOWED.
3. ANY DISCREPENCIES NOTICED IN THE DRG. SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY.
4. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
5. GRADE OF CONCRETE SHALL CONFIRM TO IS 456
   (i) M40 FOR COLUMN & SHEAR WALL
   (ii) M25 FOR ALL OTHER R.C.C WORKS
   (iii) M30 FOR PILE WITH MINIMUM CEMENT CONTENT OF 400Kg/m³ (IF RMC M30 GRADE SHOULD USE).
   (iv) GRADE OF CONCRETE FOR P.T BEAM AND P.T SLAB REFER P.T VENDOR DRAWING
6. 'Y' DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE550 CONFORMING TO IS 1786
7. CLEAR COVER TO THE MAIN STEEL.
   50 FOR PILE & PILE CAP
   50 FOR FOOTINGS , RAFT SLABS & RAFT BEAMS.
   40 FOR COLUMNS.
   25 FOR BEAMS & LINTEL
   20 FOR SLAB & STAIRCASE.
   30 FOR R.C.C WALL
   (a) ALL LAPS IN PILE REINFORCEMENT SHALL BE WELDED TO AN EXTENT OF 10 DIA OF THE BAR (i.e 10 DIA WELD ,FOR A CAP AND 10 DIA WELD) OR LAPPED WITH TAC WELDING
   (b) ENTIRE COVER TO THE REINFORCEMENT CAGE MUST BE 200mm. THE REQUIRED ARRANGEMENT MUST BE DONE INITIALLY.
8. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA AT EVERY 1000 C/ C.
9. FOR EARTHQUAKE ANALYSIS IS TAKEN AS PER IS : 1893
10. LAP JOINTS FOR REINFORCEMENT BARS :
   i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED
   ii) LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE
   iii) LAP LENGTH SHALL BE 50 TIMES DIAMETER OF THE BAR FOR TENSION AND COMPRESSION MEMBERS .
   iv) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED PREFERABLY AT POINT OF CONTRAFLEXURE .
11. HOOK LENGTH OF STIRRUPS 10 DIA (> 75mm)
12. BEAM, COLUMN JUNCTION STIRRUPS SPACING SHOULD BE 100mm (OR) 4" UNLESS OTHERWISE SPECIFIED IN THE DRAWING
   (v) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT BEAM ,COLUMN JUNCTION

Revision No	Description of Revision		Date
Date:	02-05-25	Drawn By:	SAMUKTHA

CLIENT

ARCHITECT

M/s CHETTINAAD DESIGN

STRUCTURAL CONSULTANT

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Reg. No. SE/I/2024/2/0014
Reg. No. RSE100382019
Reg. No. CGLDIST/SE/Gr-I/2024/07/005

PROJECT NAME:

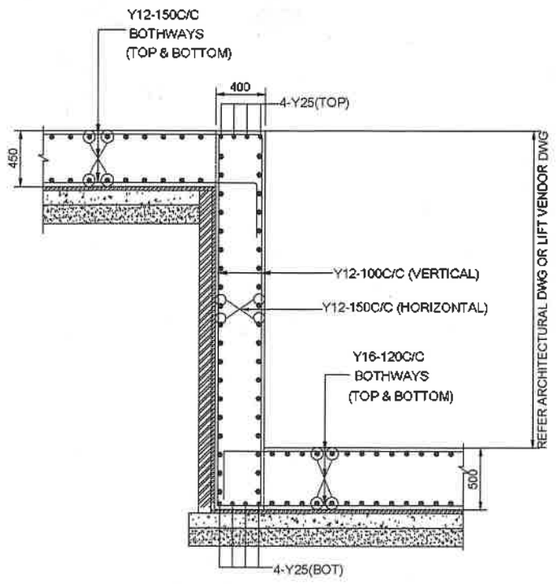
PROPOSED CONSTRUCTION OF BASEMENT FLOOR (MECHANIZED CAR PARKING)+STILT FLOOR+ 3 FLOORS OFFICE USE & GROUND FLOOR + 2 FLOORS COMMERCIAL BUILDING (HEIGHT -12.0M) AVAILING PREMIUM FSI AT PLOT NO:12,OLD DOOR NO : 39 ,NEW DOOR NO:157,NORTH USMAN ROAD, T.NAGAR, CHENNAI-600 017, COMPRISED IN T.S.NO : 5238, BLOCK NO :119,OF KODAMBAKKAM VILLAGE WITH IN TH LIMITS OF GREATER CHENNAI CORPORATION. ZONE - 10 DIVISION -136

DWG NO:

UC-1173 PROPOSED COMMERCIAL BUILDING

DRAWING TITLE :

PILE SECTION & RAFT BEAM DETAIL



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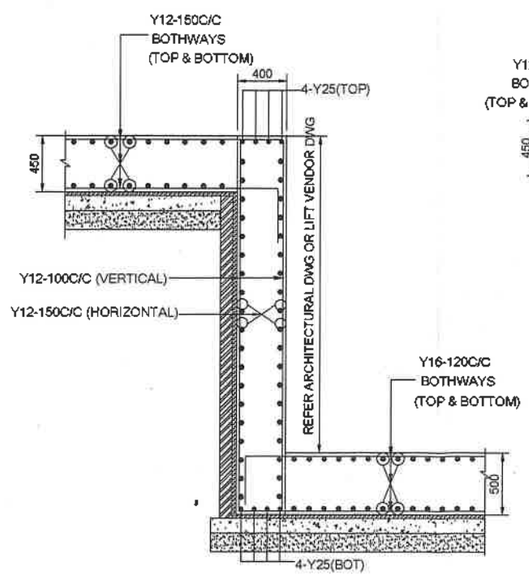

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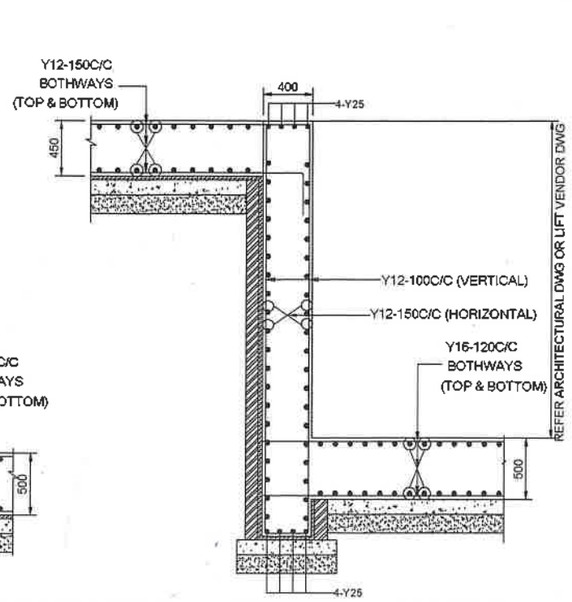

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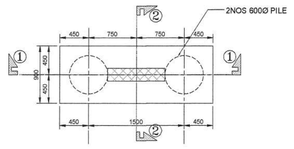

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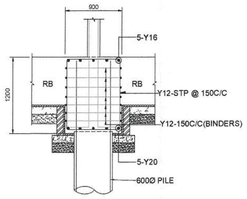

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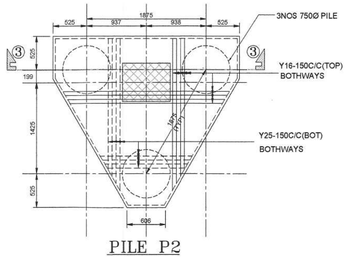

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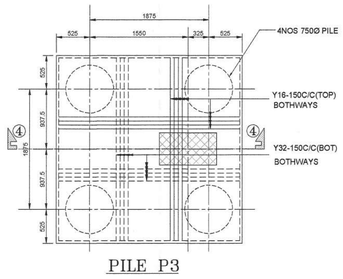

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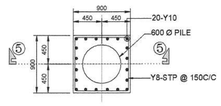

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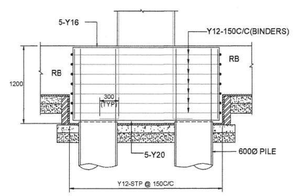

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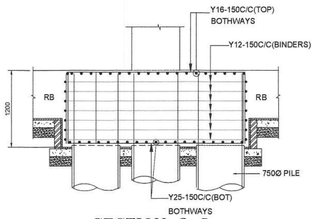

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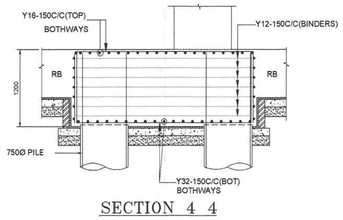

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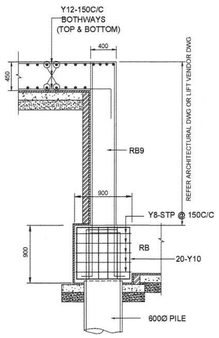

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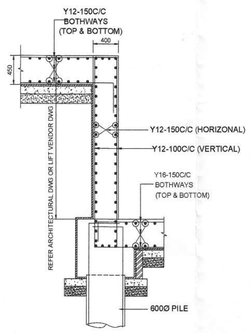

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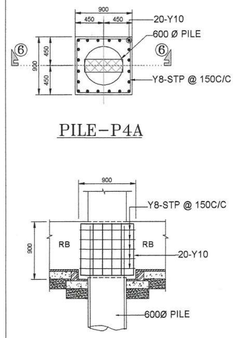

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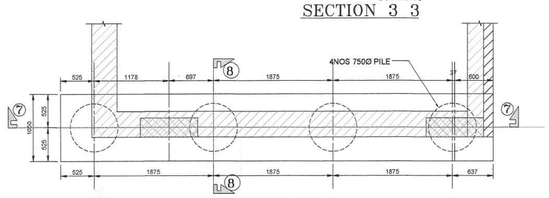

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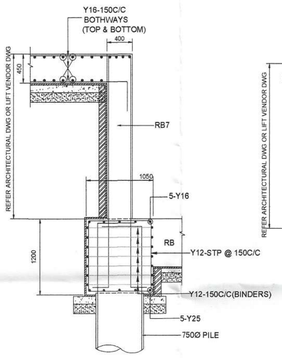

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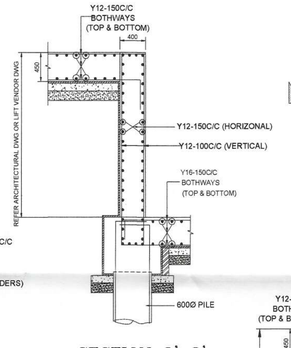

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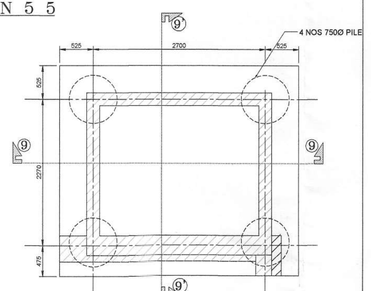

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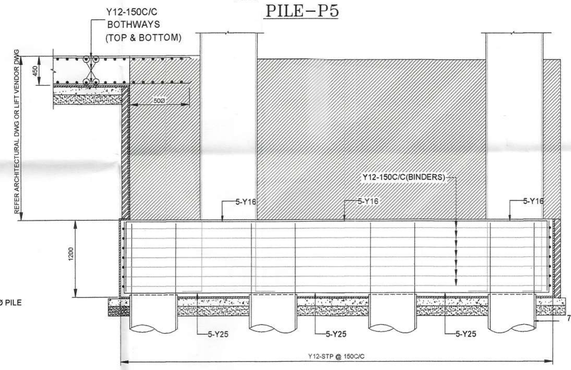
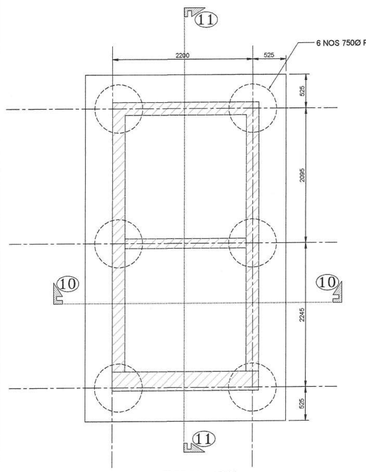
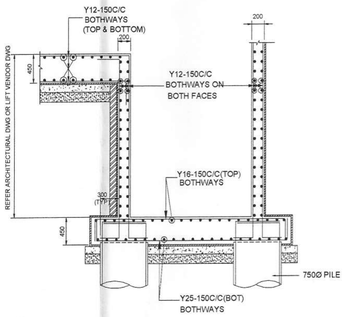


SECTION 7 7



PILE-P7



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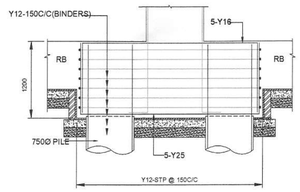

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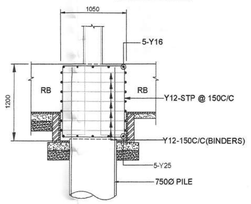

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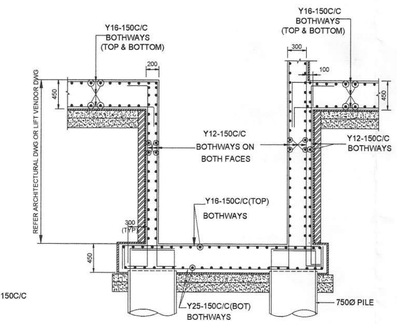
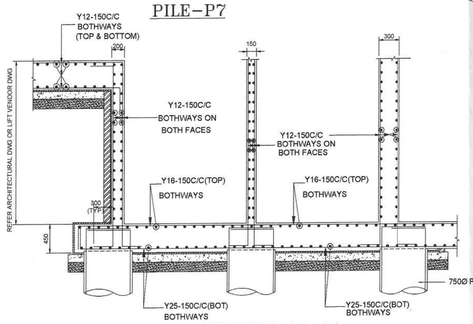


SECTION 9' 9'



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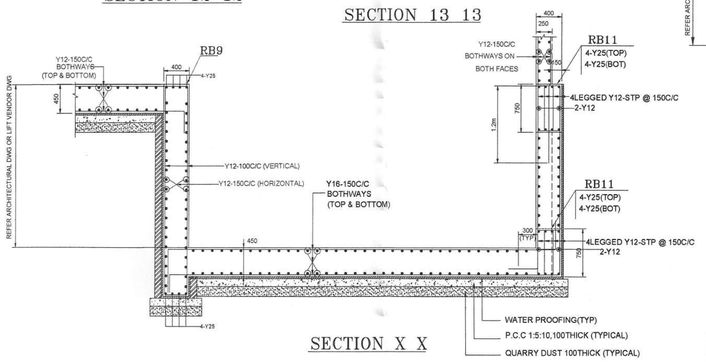

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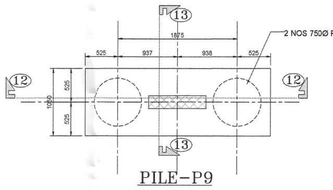

PILE-P9

NOTE:

BASEMENT RCC WALL SHOULD BE M40 GRADE

NOTES:-

B+G+2

1. REFER ARCHITECTURAL DRAWING FOR CENTER LINE DIAMENSION
2. ONLY WRITTEN DIMENSION TO BE FOLLOWED.
3. ANY DISCREPENCIES NOTICED IN THE DRG. SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY.
4. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
5. GRADE OF CONCRETE SHALL CONFIRM TO IS 456
   (i) M40 FOR COLUMN & SHEAR WALL
   (ii) M25 FOR ALL OTHER R.C.C WORKS
   (iii) M30 FOR PILE WITH MINIMUM CEMENT CONTENT OF 400KG/m^3 (IF RMC M30 GRADE SHOULD USE).
   (iv) GRADE OF CONCRETE FOR P.T BEAM AND P.T SLAB REFER P.T VENDOR DRAWING
6. 'Y' DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE550 CONFORMING TO IS 1786
7. CLEAR COVER TO THE MAIN STEEL
   50 FOR PILE & PILE CAP
   50 FOR FOOTINGS , RAFT SLABS & RAFT BEAMS.
   40 FOR COLUMNS.
   25 FOR BEAMS & LINTEL.
   20 FOR SLAB & SUNSHADE.
   30 FOR R.C.C WALL
   (a) ALL LAPS IN PILE REINFORCEMENT SHALL BE WELDED TO AN EXTENT OF 10 DIA OF THE BAR (i.e 10 DIA WELD ,10DIA GAP AND 10 DIA WELD) OR LAPPED WITH TAC WELDING.
   (b) BOTTOM COVER TO THE REINFORCEMENT CAGE MUST BE 200mm. THE REQUIRED ARRANGEMENT MUST BE DONE INITIALLY.
8. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA AT EVERY 1000 C/ C.
9. FOR EARTHQUAKE ANALYSIS IS TAKEN AS PER IS : 1893
10. LAP JOINTS FOR REINFORCEMENT BARS :
   i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.
   ii) LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE
   iii) LAP LENGTH SHALL BE 50 TIMES DIAMETER OF THE BAR FOR TENSION AND COMPRESSION MEMBERS .
   iv) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT BEAM ,COLUMN JUNCTION
   v) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED PREFERABLY AT POINT OF CONTRAFLEXURE .
11. HOOK LENGTH OF STRRIUPS 10 DIA (> 75mm)
12. BEAM, COLUMN JUNCTION STIRRUPS SPACING SHOULD BE 100mm (OR) 4" UNLESS OTHERWISE SPECIFIED IN THE DRAWING

Revision No	Description of Revision		Date
Date:	02-05-25	Drawn By:	SAMUKTHA

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ARCHITECT

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Uthandi, Chennai - 600 119.
Reg. No. SE/1/2024/2/0014
Reg. No. RSE100382019
Reg. No. CGLDIST/SE/Gr-I/2024/07/005

PROJECT NAME:

PROPOSED CONSTRUCTION OF BASEMENT FLOOR (MECHANIZED CAR PARKING)+STILT FLOOR+ 3 FLOORS OFFICE USE & GROUND FLOOR + 2 FLOORS COMMERCIAL BUILDING (HEIGHT -12.0M)

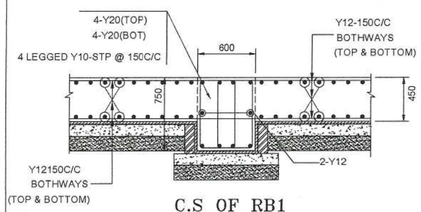
AVAILING PREMIUM FSI AT PLOT NO:12,OLD DOOR NO : 39 ,NEW DOOR NO:157,NORTH USMAN ROAD, T.NAGAR, CHENNAI-600 017, COMPRISED IN T.S.NO : 5238, BLOCK NO :119,OF KODAMBAKKAM VILLAGE WITH IN TH LIMITS OF GREATER CHENNAI CORPORATION. ZONE - 10 DIVISION -136

DWG NO:

UC-1173 PROPOSED COMMERCIAL BUILDING

DRAWING TITLE :

PILE CAP SECTION DETAIL



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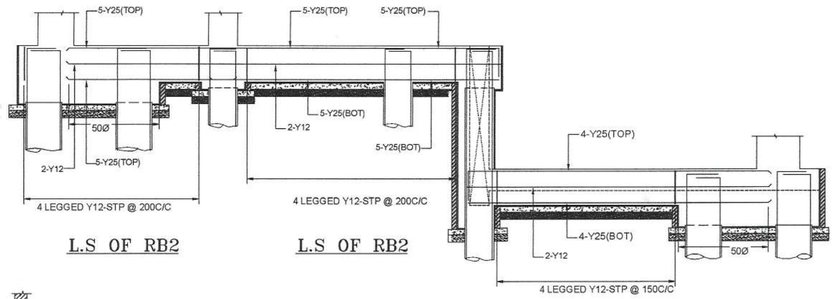
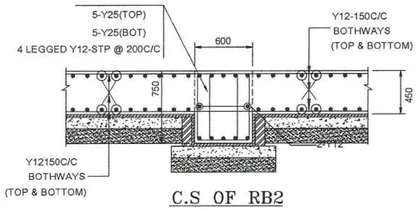


L.S OF RB2 L.S OF RB2

L.S OF RB4



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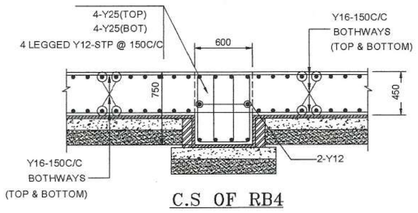

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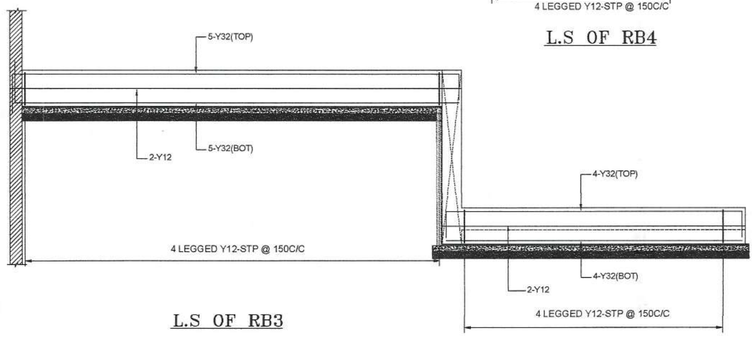

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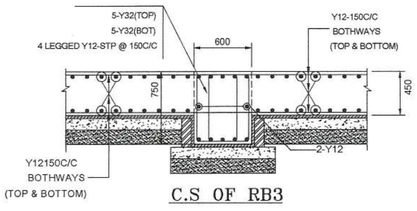

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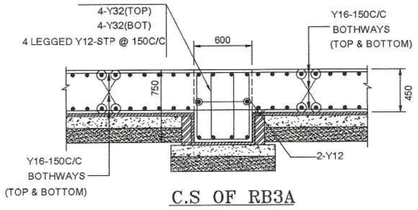

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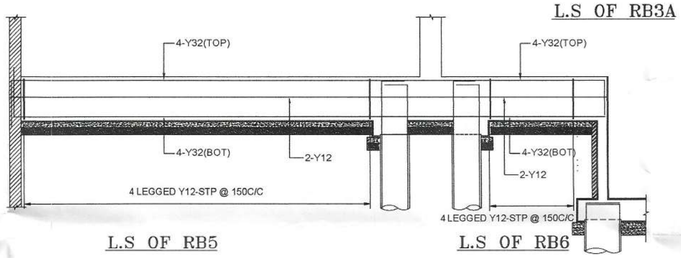

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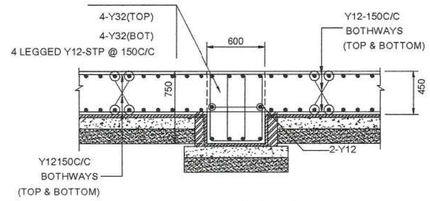

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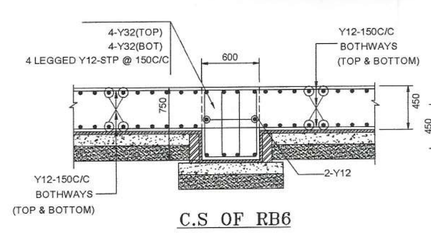

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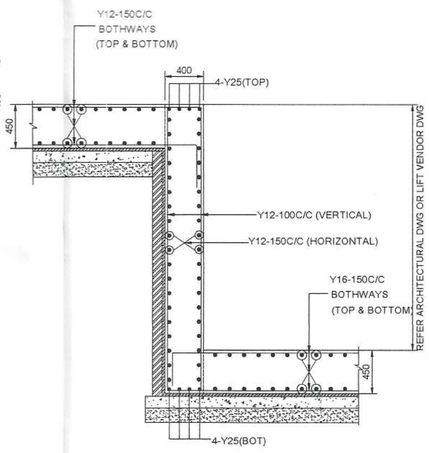

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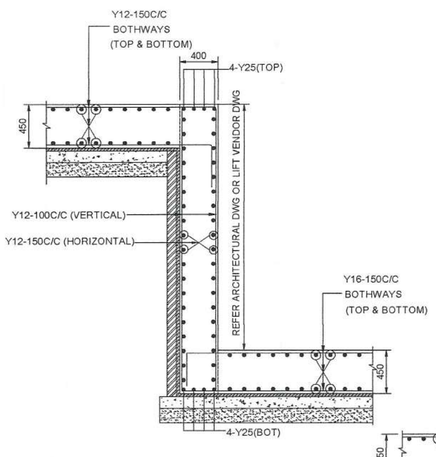

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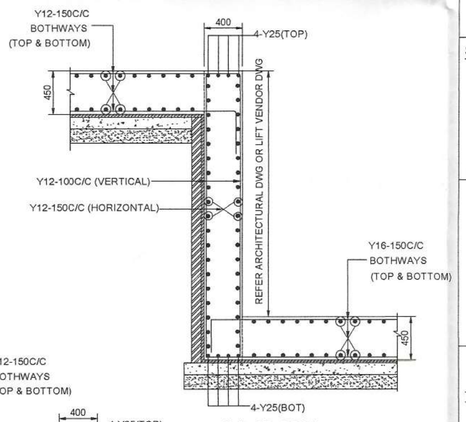

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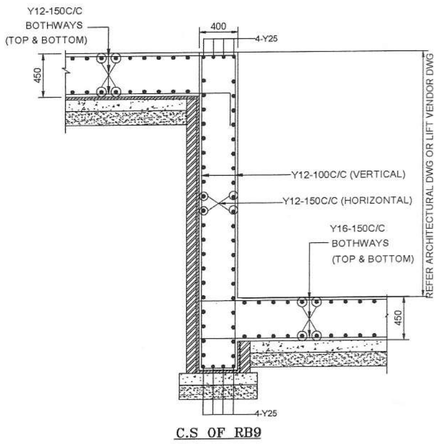

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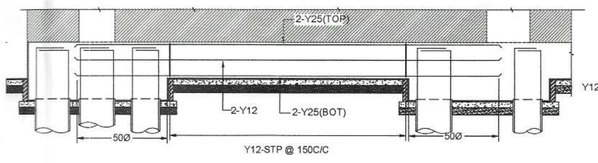

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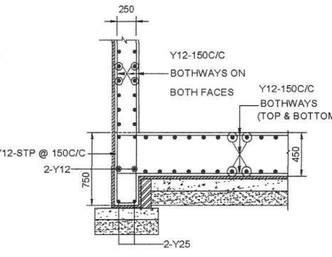

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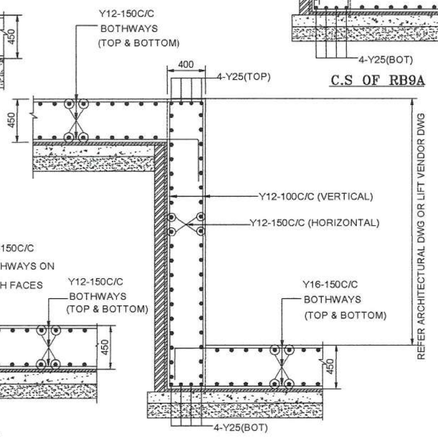

C.S OF RB12

NOTES:-

B+G+2

1. REFER ARCHITECTURAL DRAWING FOR CENTER LINE DIAMENSION
2. ONLY WRITTEN DIMENSION TO BE FOLLOWED.
3. ANY DISCREPENCIES NOTICED IN THE DRG. SHALL BE BROUGHT TO OUR NOTICE IMMEDIATELY.
4. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
5. GRADE OF CONCRETE SHALL CONFIRM TO IS 456
   (i) M40 FOR COLUMN & SHEAR WALL
   (ii) M25 FOR ALL OTHER R.C.C WORKS
   (iii) M30 FOR PILE WITH MINIMUM CEMENT CONTENT OF 400KG/m^3 (IF RMC M30 GRADE SHOULD USE).
   (iv) GRADE OF CONCRETE FOR P.T BEAM AND P.T SLAB REFER P.T VENDOR DRAWING
6. "Y" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE550 CONFORMING TO IS 1786
7. CLEAR COVER TO THE MAIN STEEL
   50 FOR PILE & PILE CAP
   50 FOR FOOTINGS , RAFT SLABS & RAFT BEAMS.
   40 FOR COLUMNS.
   25 FOR BEAMS & LINTEL.
   20 FOR SLAB & SUNSHADE.
   30 FOR R.C.C WALL
   (a) ALL LAPS IN PILE REINFORCEMENT SHALL BE WELDED TO AN EXTENT OF 10 DIA OF THE BAR (i.e 10 DIA WELD ,100MM GAP AND 10 DIA WELD) OR LAPPED WITH TAC WELDING.
   (b) BOTTOM COVER TO THE REINFORCEMENT CAGE MUST BE 200mm. THE REQUIRED ARRANGEMENT MUST BE DONE INITIALLY.
8. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA AT EVERY 1000 C/ C.
9). FOR EARTHQUAKE ANALYSIS IS TAKEN AS PER IS : 1893
10). LAP JOINTS FOR REINFORCEMENT BARS :
   i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.
   ii) LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE
   iii) LAP LENGTH SHALL BE 50 TIMES DIAMETER OF THE BAR FOR TENSION AND COMPRESSION MEMBERS
   iv) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT BEAM ,COLUMN JUNCTION
   v) LAPS IN BEAMS AND SLABS SHALL BE PROVIDED PREFERABLY AT POINT OF CONTRAFLEXURE .
11). HOOK LENGTH OF STRRIUPS 10 DIA (> 75mm)
12). BEAM, COLUMN JUNCTION STIRRUPS SPACING SHOULD BE 100mm (OR) 4" UNLESS OTHERWISE SPECIFIED IN THE DRAWING

Revision No	Description of Revision		Date
Date:	02-05-25	Drawn By:	SAMUKTHA

CLIENT

ARCHITECT

M/s CHETTINAAD DESIGN

STRUCTURAL CONSULTANT

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Uthandi, Chennai - 600 119.
Reg. No. SE/I/2024/2/0014
Reg. No. RSE100382019
Reg. No. CGLDIST/SE/Gr-I/2024/07/005

PROJECT NAME:

PROPOSED CONSTRUCTION OF BASEMENT FLOOR (MECHANIZED CAR PARKING)+STILT FLOOR+ 3 FLOORS OFFICE USE & GROUND FLOOR + 2 FLOORS COMMERCIAL BUILDING (HEIGHT -12.0M)

AVAILING PREMIUM FSI AT PLOT NO:12,OLD DOOR NO : 39 ,NEW DOOR NO:157,NORTH USMAN ROAD, T.NAGAR, CHENNAI-600 017, COMPRISED IN T.S.NO : 5238, BLOCK NO :119,OF KODAMBAKKAM VILLAGE WITH IN TH LIMITS OF GREATER CHENNAI CORPORATION. ZONE - 10 DIVISION -136

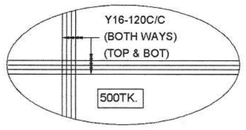
DWG NO:

UC-1173 PROPOSED COMMERCIAL BUILDING

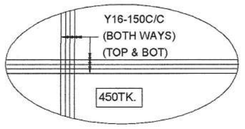
DRAWING TITLE :

RAFT BEAM DETAIL

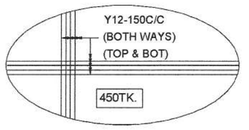
HATCHED
RAFT SLAB DETAIL =

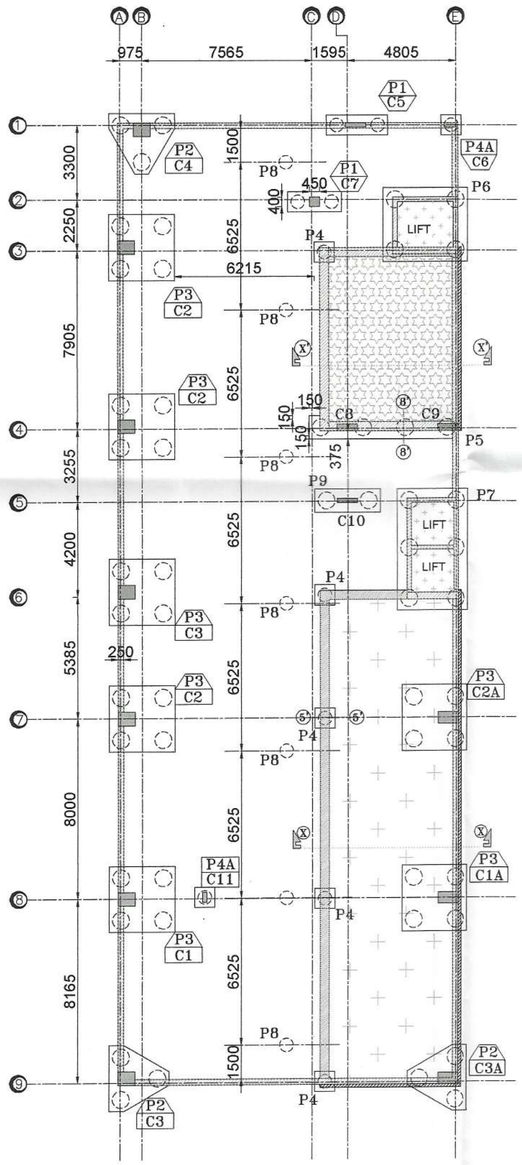


HATCHED
RAFT SLAB DETAIL =

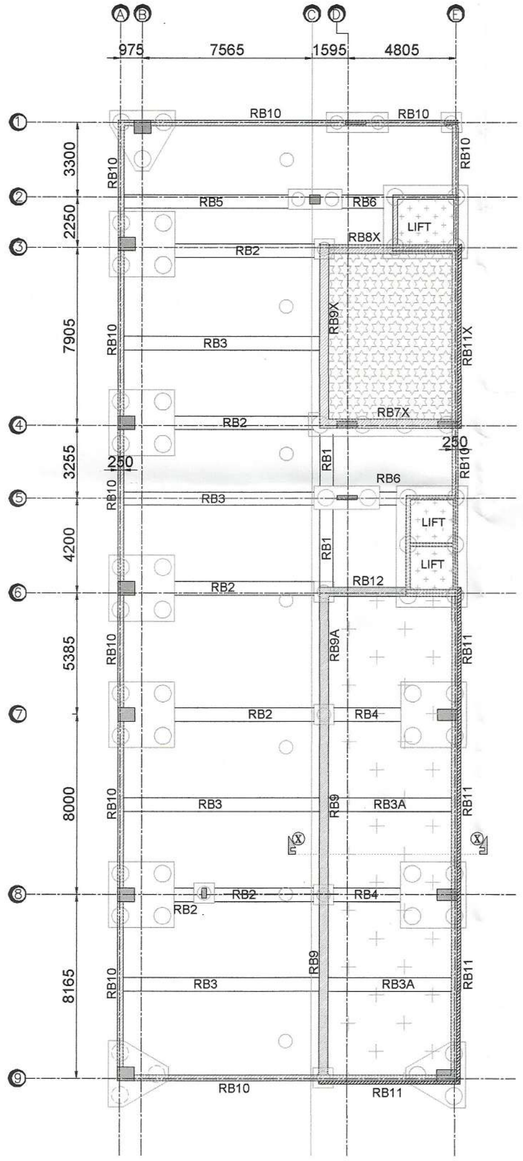


NON-HATCHED
RAFT SLAB DETAIL =

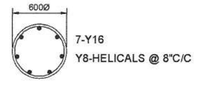




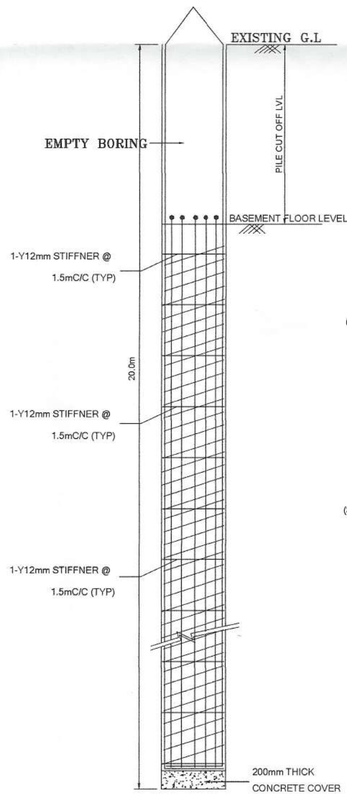
PILE LAYOUT



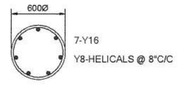
RAFT BEAM LAYOUT



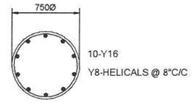
PILE P8



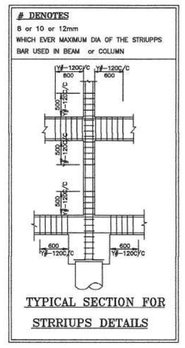
TYPICAL SECTION OF PILE
(BORED CAST IN-SITU PILE)



600ø PILE
(SAFE LOAD 80TONNES)



750ø PILE
(SAFE LOAD 120TONNES)



TYPICAL SECTION FOR
STRRIUPS DETAILS

NOTES:- B+G+2

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11). HOOK LENGTH OF STRRIUPS 10 DIA (> 75mm)
12). BEAM, COLUMN JUNCTION STIRRUPS SPACING SHOULD BE 100mm (OR) 4" UNLESS OTHERWISE SPECIFIED IN THE DRAWING
   iv) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT BEAM ,COLUMN JUNCTION

Revision No	Description of Revision		Date
Date:	02-05-25	Drawn By:	SAMUKTHA

CLIENT

ARCHITECT
M/s CHETTINAAD DESIGN

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PROJECT NAME:
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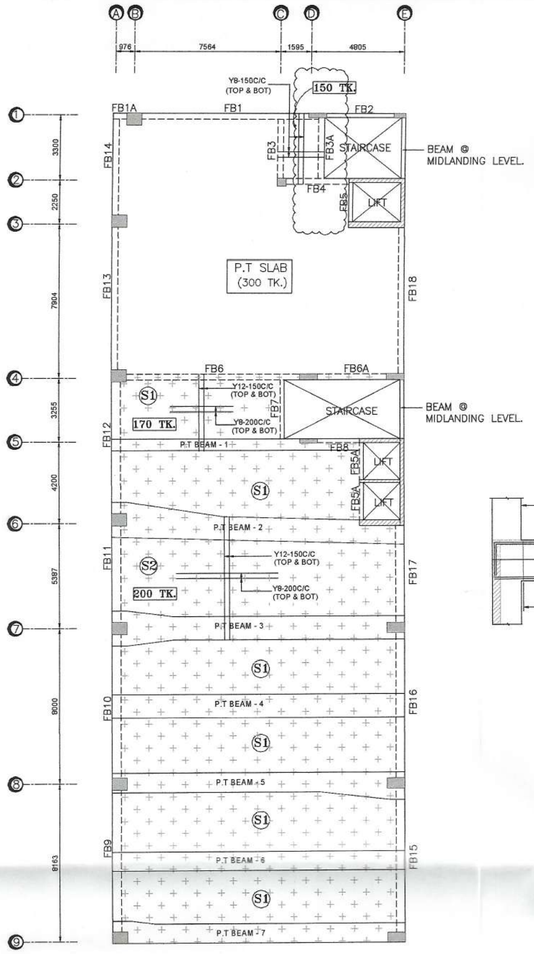
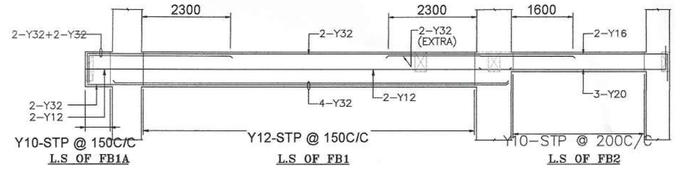
DWG NO:
UC-1173 PROPOSED COMMERCIAL BUILDING

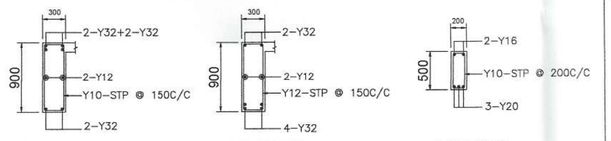
DRAWING TITLE :
PILE FOUNDATION DETAIL



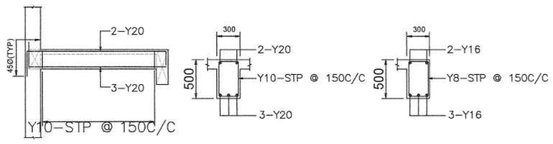
FIRST FLOOR ROOF LAYOUT – LEVEL 4



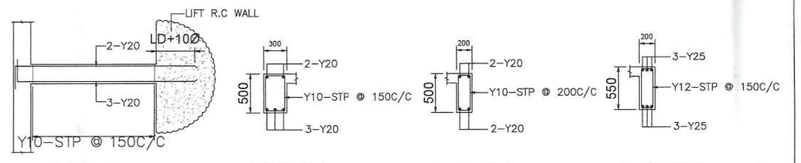
L.S OF FB1A | L.S OF FB1 | L.S OF FB2



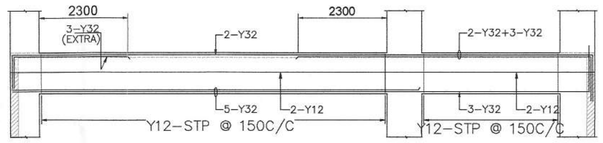
C.S OF FB1A | C.S OF FB1 | C.S OF FB2



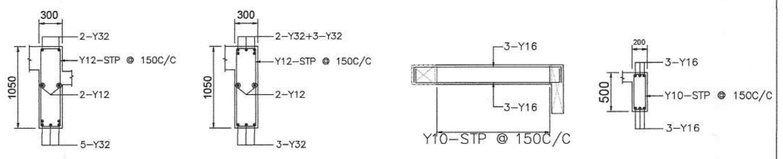
L.S OF FB3 | C.S OF FB3 | C.S OF FB3A



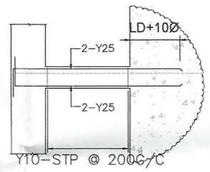
L.S OF FB4 | C.S OF FB4 | C.S OF FB5 | C.S OF FB5A (RAISED LEVEL)



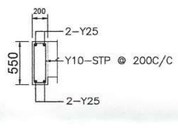
L.S OF FB6 | L.S OF FB6A



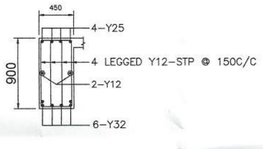
C.S OF FB6 (RAISED LEVEL) (BEAM TO BE MATCH WITH EITHER SIDE) | C.S OF FB6A (RAISED LEVEL) (BEAM TO BE MATCH WITH EITHER SIDE) | L.S OF FB7 (RAISED LEVEL) | C.S OF FB7 (RAISED LEVEL)



L.S OF FB8 (RAISED LEVEL)



C.S OF FB8 (RAISED LEVEL)



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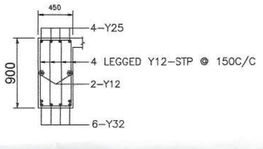

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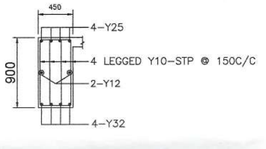

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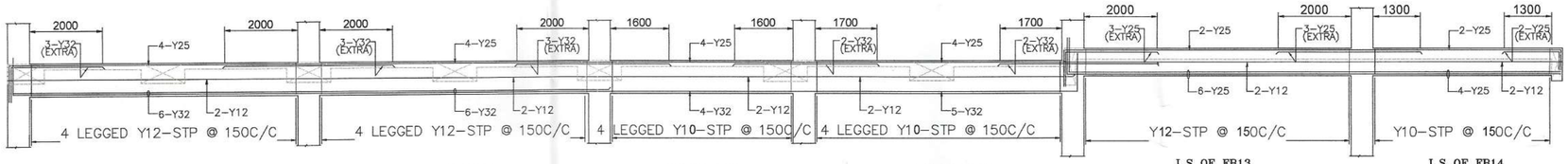
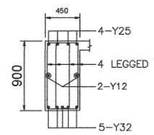


L.S OF FB9 (RAISED LEVEL) | L.S OF FB10 (RAISED LEVEL) | L.S OF FB11 (RAISED LEVEL) | L.S OF FB12 (RAISED LEVEL) | L.S OF FB13 | L.S OF FB14



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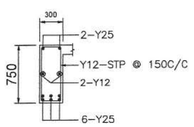

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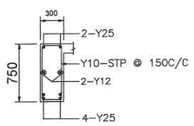

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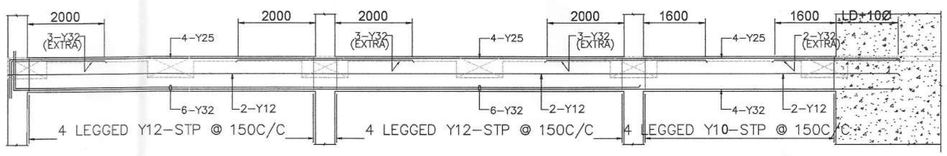
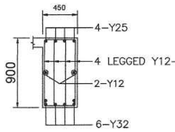


L.S OF FB15 (RAISED LEVEL) | L.S OF FB16 (RAISED LEVEL) | L.S OF FB17 (RAISED LEVEL)



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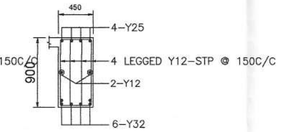

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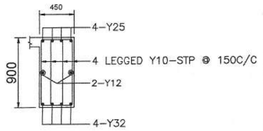

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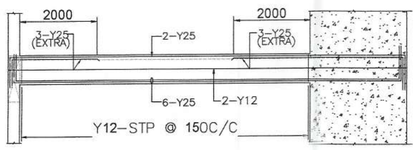
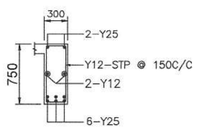


L.S OF FB18



C.S OF FB18

SLAB AT DIFFERENT LEVEL

NOTES:-

B+G+2

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   (i) M40 FOR COLUMN & SHEAR WALL
   (ii) M25 FOR ALL OTHER R.C.C WORKS
   (iii) M30 FOR PILE WITH MINIMUM CEMENT CONTENT OF 400KG/m^3 (IF RMC M30 GRADE SHOULD USE).
   (iv) GRADE OF CONCRETE FOR P.T BEAM AND P.T SLAB REFER P.T VENDOR DRAWING
6. "Y" DENOTES HIGH STRENGTH DEFORMED BARS OF GRADE FE550 CONFORMING TO IS 1786
7. CLEAR COVER TO THE MAIN STEEL
   50 FOR PILE & PILE CAP
   50 FOR FOOTINGS , RAFT SLABS & RAFT BEAMS.
   40 FOR COLUMNS.
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   30 FOR R.C.C WALL
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   (b) BOTTOM COVER TO THE REINFORCEMENT CAGE MUST BE 200mm. THE REQUIRED ARRANGEMENT MUST BE DONE INITIALLY.
8. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA AT EVERY 1000 C/ C.
9. FOR EARTHQUAKE ANALYSIS IS TAKEN AS PER IS : 1893
10. LAP JOINTS FOR REINFORCEMENT BARS :
   i) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.
   ii) LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE
   iii) LAP LENGTH SHALL BE 50 TIMES DIAMETER OF THE BAR FOR TENSION AND COMPRESSION MEMBERS .
   iv) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT BEAM ,COLUMN JUNCTION
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11. HOOK LENGTH OF STRRIUPS 10 DIA (> 75mm)
12. BEAM, COLUMN JUNCTION STIRRUPS SPACING SHOULD BE 100mm (OR) 4" UNLESS OTHERWISE SPECIFIED IN THE DRAWING
13. COLUMN BEAM JUNCTION SHOULD BE COLUMN CONCRETE

Revision No	Description of Revision		Date
Date:	02-05-25	Drawn By:	NANDHINI

CLIENT

ARCHITECT

M/s CHETTINAAD DESIGN

STRUCTURAL CONSULTANT

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CIVIL & STRUCTURAL CONSULTING ENGINEERS
Dr.J.SURESH, M.E., MIE.,Ph.D

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www.universalconsultants.net

Dr. J. SURESH, M.E., MIE., Ph.D
Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.
Reg. No. SE/1/2024/2/0014
Reg. No. RSE100382019
Reg. No. GCI/DIST/SE/Gr-I/2024/07/005

PROJECT NAME:

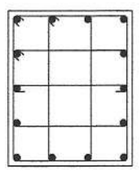
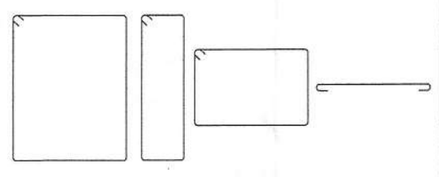
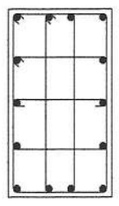
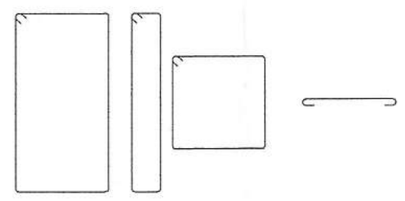
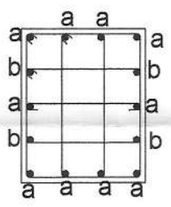
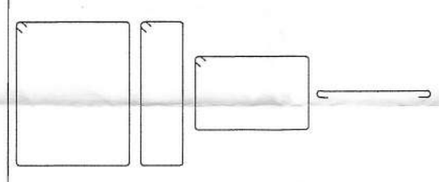
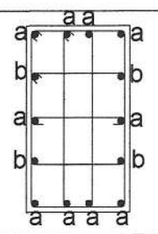
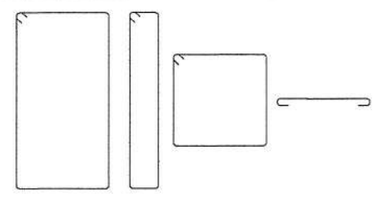
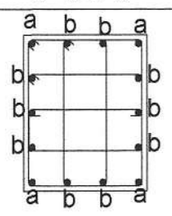
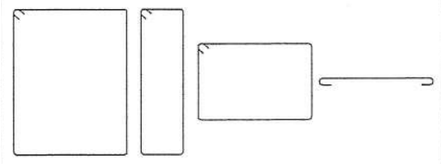
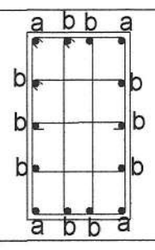
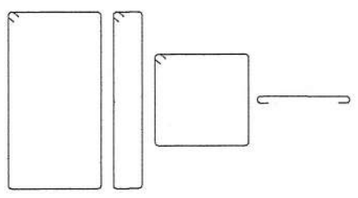
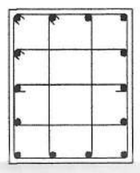
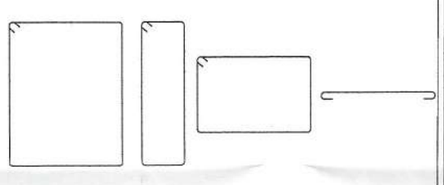
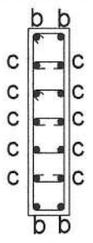
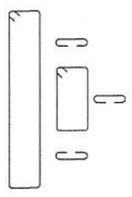
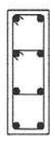
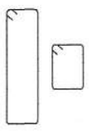
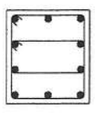
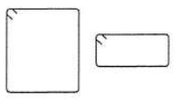
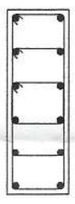
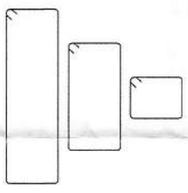
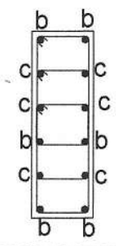
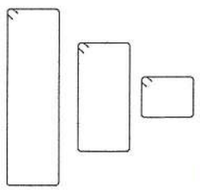
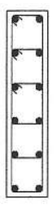
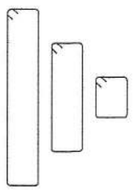
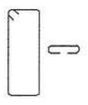
PROPOSED CONSTRUCTION OF BASEMENT FLOOR (MECHANIZED CAR PARKING)+STILT FLOOR+ 3 FLOORS OFFICE USE & GROUND FLOOR + 2 FLOORS COMMERCIAL BUILDING (HEIGHT -12.0M) AVAILING PREMIUM FSI AT PLOT NO:12,OLD DOOR NO : 39 ,NEW DOOR NO:157,NORTH USMAN ROAD, T.NAGAR, CHENNAI-600 017, COMPRISED IN T.S.NO : 5238, BLOCK NO :119,OF KODAMBAKKAM VILLAGE WITH IN TH LIMITS OF GREATER CHENNAI CORPORATION. ZONE - 10 DIVISION -136

DWG NO:

UC-1173 PROPOSED COMMERCIAL BUILDING AT T.NAGAR CHENNAI.

DRAWING TITLE :

FIRST FLOOR ROOF BEAM LAYOUT & DETAIL - LEVEL 4

COL-NO	SIZE	REINFORCEMENT	SECTION	SHAPE OF TIES
COL-C1	600 x 750	14-Y32 Y8-TIES @ 8"C/C		
COL-C1A	500 x 900	14-Y32 Y8-TIES @ 8"C/C		
COL-C2	600 x 750	10-Y32+(a) 4-Y25+(b) Y8-TIES @ 8"C/C		
COL-C2A	500 x 900	10-Y32+(a) 4-Y25+(b) Y8-TIES @ 8"C/C		
COL-C3	600 x 750	4-Y32+(a) 10-Y25+(b) Y8-TIES @ 8"C/C		
COL-C3A	500 x 900	4-Y32+(a) 10-Y25+(b) Y8-TIES @ 8"C/C		
COL-C4	600 x 750	14-Y20 Y8-TIES @ 8"C/C		
COL-C5	200 x 900	4-Y25+(b) 10-Y20+(c) Y8-TIES @ 8"C/C		
COL-C6	200 x 600	8-Y16 Y8-TIES @ 8"C/C		
COL-C7	400 x 450	10-Y25 Y8-TIES @ 8"C/C		
COL-C8	300 x 900	12-Y25 Y8-TIES @ 8"C/C		
COL-C9	300 x 900	6-Y25+(b) 6-Y20+(c) Y8-TIES @ 8"C/C		
COL-C10	200 x 900	12-Y25 Y8-TIES @ 8"C/C		
COL-C11	200 x 450	6-Y25 Y8-TIES @ 8"C/C		

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B+G+2

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Revision No	Description of Revision		Date
Date:	02-05-25	Drawn By:	SAMUKTHA

CLIENT

ARCHITECT

M/s CHETTINAAD DESIGN

STRUCTURAL CONSULTANT

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Dr.J.SURESH, M.E., MIE.,Ph.D
LANDLINE NO: 144-24455666, 8939397579
projects@universalconsultants.net
www.universalconsultants.net

PROJECT NAME:

PROPOSED CONSTRUCTION OF BASEMENT FLOOR (MECHANIZED CAR PARKING)+STILT FLOOR+ 3 FLOORS OFFICE USE & GROUND FLOOR + 2 FLOORS COMMERCIAL BUILDING (HEIGHT -12.0M)

AVAILING PREMIUM FSI AT PLOT NO:12,OLD DOOR NO : 39 ,NEW DOOR NO:157,NORTH USMAN ROAD, T.NAGAR, CHENNAI-600 017, COMPRISED IN T.S.NO : 5238, BLOCK NO :119,OF KODAMBAKKAM VILLAGE WITH IN TH LIMITS OF GREATER CHENNAI CORPORATION. ZONE - 10 DIVISION -136

DWG NO:

UC-1173 PROPOSED COMMERCIAL BUILDING

DRAWING TITLE :

COLUMN DETAIL

Dr. J. SURESH, M.E., MIE., Ph.D
Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.
Reg. No. SE/I/2024/2/0014
Reg. No. RSE100382019
Reg. No. CGLDIST/SE/Gr-I/2024/07/005

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Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

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