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RE REGULATORY RECORD

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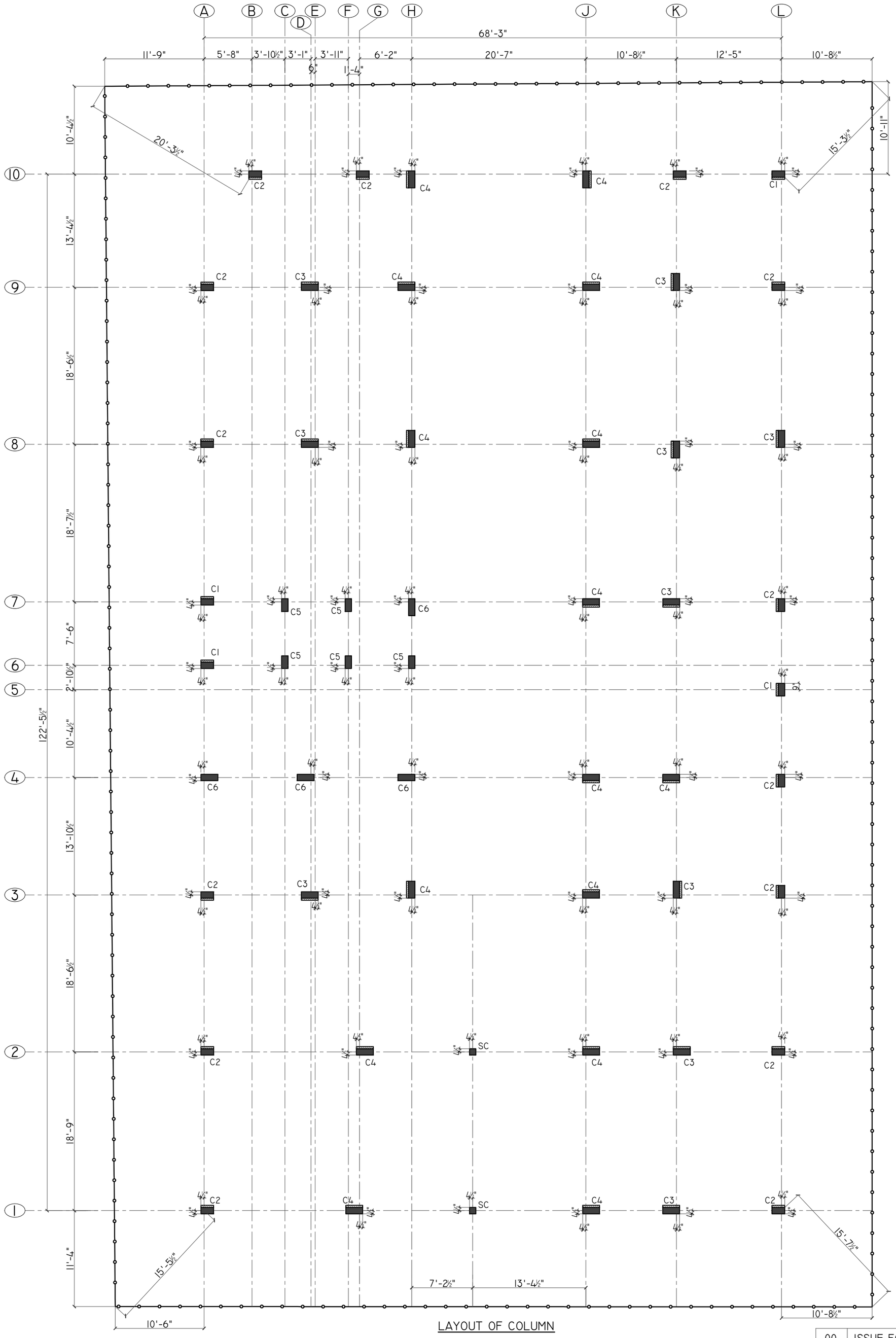
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Verified RealEstate™
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OMR Thoraipakkam,
Chennai 600 097, India

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+91 9996 12 9996
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DIGITALLY VERIFIED RECORD



LAYOUT OF COLUMN

COLUMN SCHEDULE			
S.NO.	NAME	SIZE	
		UPTO STILT ROOF	STILT ROOF TO TOP
1.	C1	1'-0" X 1'-6"	0'-9" X 1'-6"
2.	C2	1'-0" X 1'-6"	0'-9" X 1'-6"
3.	C3	1'-0" X 2'-0"	0'-9" X 2'-0"
4.	C4	1'-0" X 2'-0"	0'-9" X 2'-0"
5.	C5	0'-9" X 1'-6"	0'-9" X 1'-6"
6.	C6	0'-9" X 2'-0"	0'-9" X 2'-0"
7.	SC	0'-9" X 0'-9"	UPTO PLINTH BEAM

R. MANIKANDAN, M.Tech, (Structures)
Registered Structural Engineer Grade I (RES),DTCP
CGLRGN/SE/Gr-I/2019/09/036
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378

NOTE:

FOR COLUMN REINFORCEMENT DETAILS REFER DWG.NO : 001A

N.G.L - NATURAL GROUND LEVEL.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   a) COLUMN = 1½"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. COLUMNS AND FOOTINGS ARE DESIGNED FOR S+5 FLOOR LOADS AND SBC OF THE SOIL IS 250KN/SQM. @ 6'-10" BELOW N.G.L.
7. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
8. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR APPROVAL	A.P	R.M	20.08.25

PROJECT :-
PROPOSED CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING IN PLOT NO.2A, T.S NO:33, WARD NO. D, BLOCK NO. 23 AT NAMAKKAL VILLAGE, NAMAKKAL TALUK, NAMAKKAL CORPORATION, NAMAKKAL DISTRICT.
(ONLINE APPLICATION NO: SWP/BPA/055I197/2025)
SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-
LAYOUT & R.C DETAILS OF COLUMN

DATE	SCALE	JOB.NO	DRG.NO
20.08.25	1" : 11'	-------	001

ARCHITECT / CONSULTANTS :-

DESIGN POV
ARCHITECTURE & INTERIOR DESIGN
POV Interiors Private Limited
No.33, Conran Smith Road, Gopalapuram, Chennai - 600 086
Mb: +91 73053 77709 | info@designpov.in | http://designpov.in

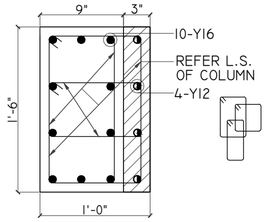
STRUCTURAL CONSULTANTS :-

AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue,
ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
http://auraengineers.co.in/
aura Engineeering Consultants

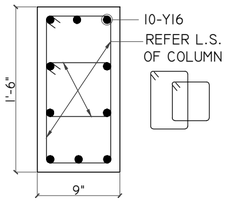
A2

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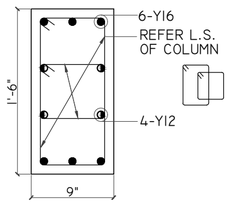
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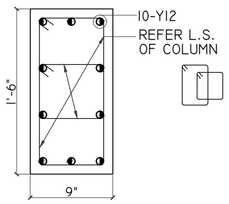
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(UPTO SFR)



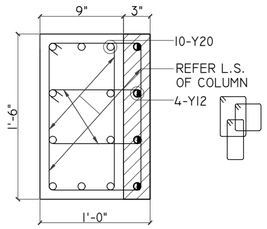
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(0'-9" x 1'-6")
(SFR TO FFR)



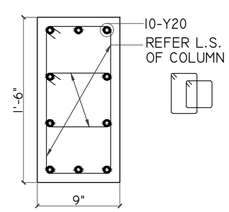
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(FFR TO THIRD FLOOR ROOF)



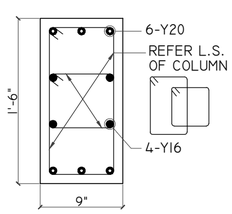
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(THIRD FLOOR ROOF TO TOP)



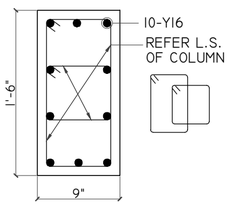
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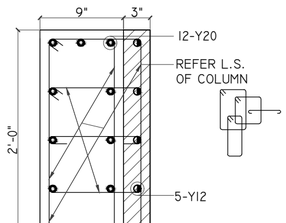
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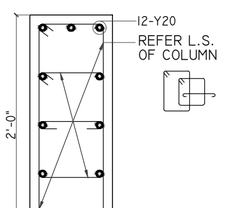
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(0'-9" x 1'-6")
(FFR TO THIRD FLOOR ROOF)



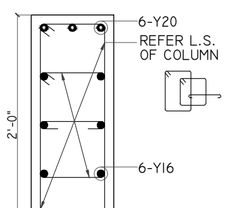
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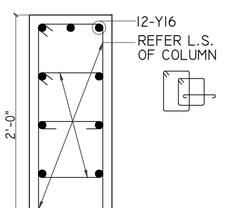
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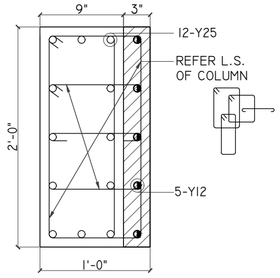
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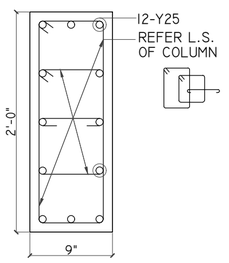
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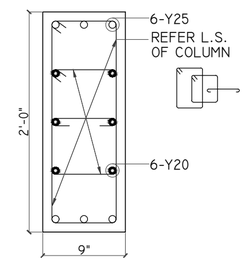
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(0'-9" x 2'-0")
(THIRD FLOOR ROOF TO TOP)



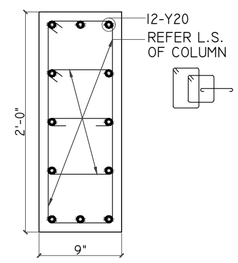
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(UPTO SFR)



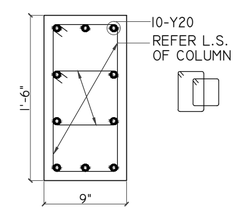
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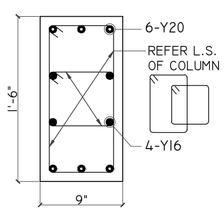
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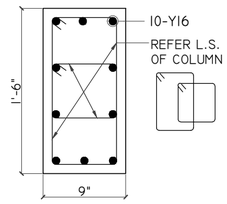
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(THIRD FLOOR ROOF TO TOP)



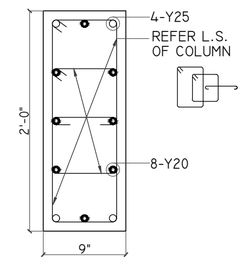
C.S. OF COLUMN "C5"
(0'-9" x 1'-6")
(UP TO FFR)



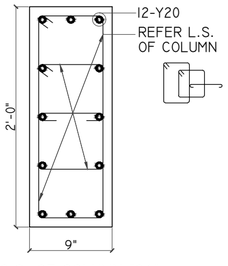
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(FFR TO THIRD FLOOR ROOF)



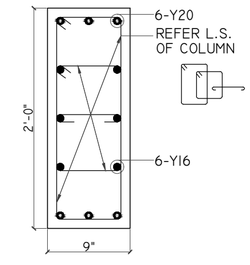
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(0'-9" x 1'-6")
(THIRD FLOOR ROOF TO TOP)



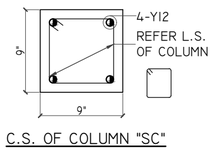
C.S. OF COLUMN "C6"
(0'-9" x 2'-0")
(UP TO FFR)



C.S. OF COLUMN "C6"
(0'-9" x 2'-0")
(FFR TO THIRD FLOOR ROOF)

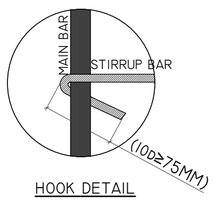


C.S. OF COLUMN "C6"
(0'-9" x 2'-0")
(THIRD FLOOR ROOF TO TOP)



C.S. OF COLUMN "SC"
(0'-9" x 0'-9")

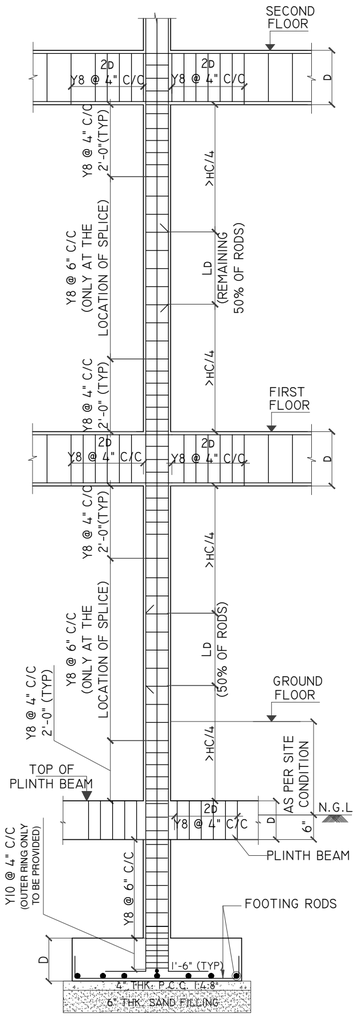
SC - STUB COLUMN UPTO PLINTH BEAM



HOOK DETAIL

ALL HOOKS SHOULD BE BENT TO AN ANGLE OF 135° WITH A LENGTH NOT LESS THAN 75 MM

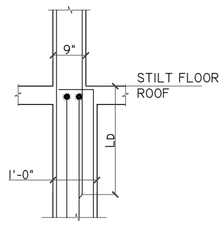
WHEREVER LAP SPLICES AND CONFINING TIES ARE NOT REQUIRED, SPACING OF LATERAL TIES SHALL BE Y8 @ 200 C/C.



REINFORCEMENT DETAILING COLUMN

(ALTERNATE RODS TO BE LAPPED IN ALTERNATE FLOORS)

COLUMN SCHEDULE			
S.NO.	NAME	SIZE	
		UPTO STILT ROOF	STILT ROOF TO TOP
1.	C1	1'-0" X 1'-6"	0'-9" X 1'-6"
2.	C2	1'-0" X 1'-6"	0'-9" X 1'-6"
3.	C3	1'-0" X 2'-0"	0'-9" X 2'-0"
4.	C4	1'-0" X 2'-0"	0'-9" X 2'-0"
5.	C5	0'-9" X 1'-6"	0'-9" X 1'-6"
6.	C6	0'-9" X 2'-0"	0'-9" X 2'-0"
7.	SC	0'-9" X 0'-9"	UPTO PLINTH BEAM



TYPICAL COLUMN REDUCTION DETAILS

R. MANIKANDAN, M.Tech, (Structures)
Registered Structural Engineer Grade I (RES),DTCP
CGLRGN/SE/Gr-I/2019/09/036
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Cell: 9790751378

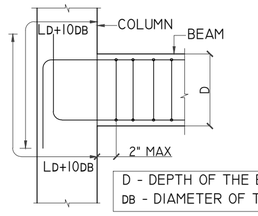
NOTES

N.G.L - NATURAL GROUND LEVEL.

S.F.R - STILT FLOOR ROOF.

F.F.R - FIRST FLOOR ROOF.

CNC - CAN BE NON PLASTIC WELL GRADED CLEAN RIVER SAND/ SAND:GRAVEL MIX



D - DEPTH OF THE BEAM
DB - DIAMETER OF THE BAR

TYP. EXTERNAL JOINT DETAIL AT BEAM-COLUMN JUNCTION

GENERAL NOTES:

REMOVAL OF FORMWORK(SHUTTERING) :

SHUTTERING OF ANY PART OF THE STRUCTURE SHALL NOT BE REMOVED UNTIL THE CONCRETE ATTAINS 70% THE SPECIFIED STRENGTH OF CONCRETE. HOWEVER THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1, IS 456:2000

A) VERTICAL SIDE OF SHUTTERING OF COLUMNS,WALLS

LAP JOINTS FOR REINFORCEMENT BARS :

I) AT ANY CROSS SECTION OF THE MEMBER,NOT MORE THAN 50% THE BARS SHALL BE LAPPED.

II) LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF1.3 TIMES LAP LENGTH OF THE BAR FOR TENSION & COMPRESSION MEMBERS.

III) DEVELOPMENT LENGTH (Ld) SHALL BE AS PER (SP:34-1999) TABLE BELOW:

A) DEVELOPMENT LENGTH FOR COLUMN BARS -40D
B) DEVELOPMENT LENGTH FOR BEAM BARS -50D

IV) LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL .

VII) DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920

EXCAVATION AND BACKFILL

I) BACKFILL FOR FOUNDATIONS AND PITS SHALL BE PLACED EVENLY LAYERS OF 300 MM THICKNESS AND SHALL BE WELL COMPACTED. THE FILL SHALL CONTAIN NO STONES WITH A DIAMETER GREATER THAN 100 MM. THE DEGREE OF COMPACTION OF BACKFILL SHALL BE 95% OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT OBTAINED BY THE MODIFIED PROCTOR COMPACTION TEST.

II) UNSUITABLE MATERIALS LIKE ROCKS/ EXISTING FOOTINGS ARE DETECTED BELOW FOUNDATION LEVEL IN AREAS OF CUT SHALL BE EXCAVATED TO FIRM GROUND. THE RESULTANT EXCAVATION SHALL BE FILLED TO THE REQUIRED LEVELS WITH MASS CONCRETE GRADE M10. ALSO WHEREVER EXCAVATION OCCURS BELOW THE FOUNDATION LEVEL STATED ON THE DESIGN DRAWING THE RESULTING VOID SHALL BE BACK FILLED WITH MASS CONCRETE GRADE-10.

III) BEFORE CASTING FOUNDATIONS, ANY IMMEDIATE OR ADJACENT AREAS OF DISTURBED OR SOFT SOIL MUST BE REMOVED AND REPLACED WITH MASS CONCRETE OF GRADE 10

IV) A LAYER OF BLINDING CONCRETE 100 MM THICK SHALL BE PLACED UNDER ALL FOUNDATIONS. BLINDING CONCRETE SHALL HAVE A CHARACTERISTIC STRENGTH OF 10 N/MM AT 28 DAYS.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) COLUMN = 1½"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. COLUMNS AND FOOTINGS ARE DESIGNED FOR S+5 FLOOR LOADS AND SBC OF THE SOIL IS 250KN/SQM. @ 6'-10" BELOW N.G.L.
7. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
8. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR APPROVAL	A.P	R.M	20.08.25

PROJECT :-

PROPOSED CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING IN PLOT NO.2A, T.S NO:33, WARD NO. D, BLOCK NO. 23 AT NAMAKKAL VILLAGE, NAMAKKAL TALUK, NAMAKKAL CORPORATION, NAMAKKAL DISTRICT.
(ONLINE APPLICATION NO: SWP/BPA/055II97/2025)
SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-

R.C DETAILS OF COLUMN

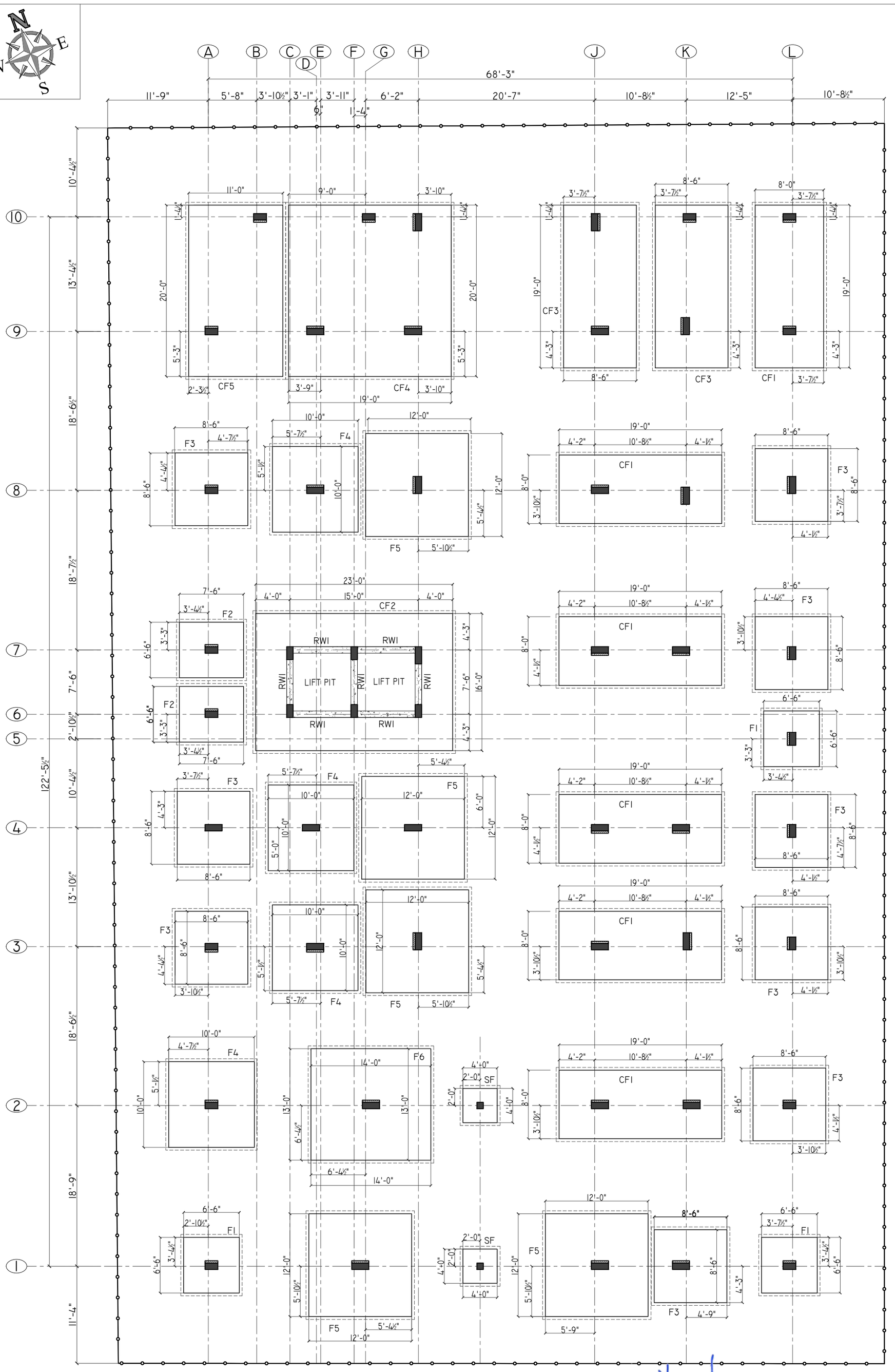
DATE	SCALE	JOB.NO	DRG.NO
20.08.25	I" : II'	-------	001A

ARCHITECT / CONSULTANTS :-

DESIGN pov
ARCHITECTURE & INTERIOR DESIGN
POV Interiors Private Limited
No.33, Conran Smith Road, Gopalapuram, Chennai - 600 086
Mb: +91 73053 77708 | info@designpov.in | http://designpov.in

STRUCTURAL CONSULTANTS :-

AURA ENGINEERING CONSULTANTS
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ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
http://auraengineers.co.in/
aura Engineering Consultants



LAYOUT OF FOOTING

R. Manikandan

R. MANIKANDAN, M.Tech, (Structures)
Registered Structural Engineer Grade I (RES),DTCP
CGLRGN/SE/Gr-I/2019/09/036
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378

FOOTINGS SCHEDULE:-

SI.	FOOTING NAME	FOOTING SIZE	FOOTING REINFORCEMENT X =MAIN REINFD Y =DISTRIBUTOR REINFD
01	F1	6'-6" X 6'-6" D=1'-9" FLAT FOOTING	Y10 @ 8" C/C BOTHWAYS @ TOP Y10 @ 5" C/C BOTHWAYS @ BOTTOM
02	F2	7'-6" X 6'-6" D=2'-0" FLAT FOOTING	Y10 @ 8" C/C BOTHWAYS @ TOP Y10 @ 4" C/C BOTHWAYS @ BOTTOM
03	F3	8'-6" X 8'-6" D=2'-3" FLAT FOOTING	Y10 @ 8" C/C BOTHWAYS @ TOP Y12 @ 5" C/C BOTHWAYS @ BOTTOM
04	F4	10'-0" X 10'-0" D=2'-6" FLAT FOOTING	Y10 @ 6" C/C BOTHWAYS @ TOP Y12 @ 6" C/C BOTHWAYS @ BOTTOM
05	F5	12'-0" X 12'-0" D=3'-0" FLAT FOOTING	Y12 @ 8" C/C BOTHWAYS @ TOP Y12 @ 4" C/C BOTHWAYS @ BOTTOM
06	F6	14'-0" X 13'-0" D=3'-3" FLAT FOOTING	Y12 @ 8" C/C BOTHWAYS @ TOP Y12 @ 4" C/C BOTHWAYS @ BOTTOM
07	SF	4'-0" X 4'-0" D=1'-3" FLAT FOOTING	Y10 @ 5" C/C BOTHWAYS @ BOTTOM

NOTE:

FOR FOOTING REINFORCEMENT DETAILS REFER DWG.NO : 002A

N.G.L - NATURAL GROUND LEVEL.

COMBINED FOOTINGS SCHEDULE:-

SI.	FOOTING NAME	FOOTING SIZE	FOOTING REINFORCEMENT
01	CF1	19'-0" X 8'-0" X 3'-0"	Y12 @ 8" C/C BOTHWAYS @ TOP Y12 @ 4" C/C BOTHWAYS @ BOTTOM
02	CF2	23'-0" X 16'-0" X 2'-6"	Y12 @ 8" C/C BOTHWAYS @ TOP Y20 @ 5" C/C BOTHWAYS @ BOTTOM
03	CF3	19'-0" X 8'-6" X 3'-0"	Y12 @ 8" C/C BOTHWAYS @ TOP Y12 @ 4" C/C BOTHWAYS @ BOTTOM
04	CF4	19'-0" X 20'-0" X 3'-0"	Y12 @ 4" C/C BOTHWAYS @ TOP Y16 @ 4" C/C BOTHWAYS @ BOTTOM
05	CF5	11'-0" X 20'-0" X 3'-0"	Y12 @ 8" C/C BOTHWAYS @ TOP Y12 @ 4" C/C BOTHWAYS @ BOTTOM

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   a) COLUMN = 1½"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. COLUMNS AND FOOTINGS ARE DESIGNED FOR S+5 FLOOR LOADS AND SBC OF THE SOIL IS 250KN/SQM. @ 6'-10" BELOW N.G.L.
7. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
8. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR APPROVAL	A.P	R.M	20.08.25

PROJECT :-

PROPOSED CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING IN PLOT NO.2A, T.S NO:33, WARD NO. D, BLOCK NO. 23 AT NAMAKKAL VILLAGE, NAMAKKAL TALUK, NAMAKKAL CORPORATION, NAMAKKAL DISTRICT.
(ONLINE APPLICATION NO: SWP/BPA/055197/2025)
SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-

LAYOUT & R.C DETAILS OF FOOTING

DATE	SCALE	JOB.NO	DRG.NO
20.08.25	1" : 11'	-------	002

ARCHITECT / CONSULTANTS :-

DESIGN pov
ARCHITECTURE & INTERIOR DESIGN
POV Interiors Private Limited
No.33, Conran Smith Road, Gopalapuram, Chennai - 600 086
Mb: +91 73053 77709 | info@designpov.in | http://designpov.in

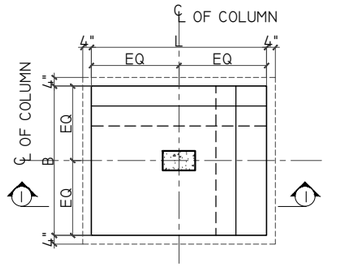
STRUCTURAL CONSULTANTS :-

AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue,
ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
http://auraengineers.co.in/
aura Engineeering Consultants

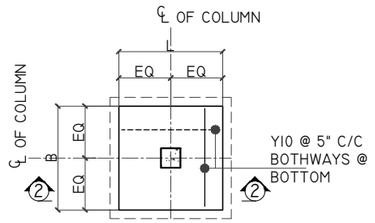
A2

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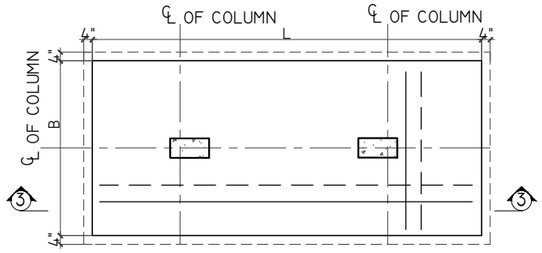
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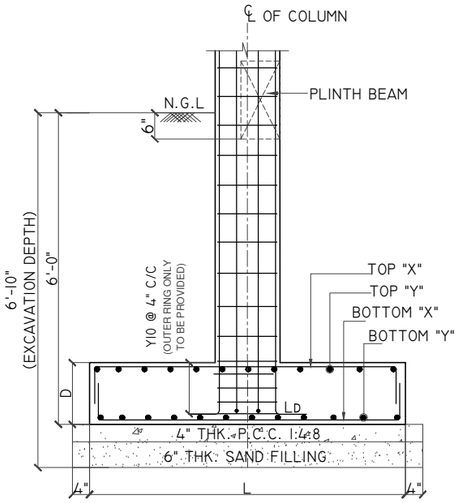
TYPICAL PLAN OF FLAT FOOTING



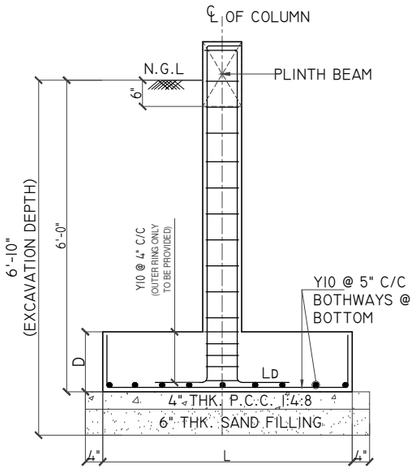
PLAN OF FLAT FOOTING-SF



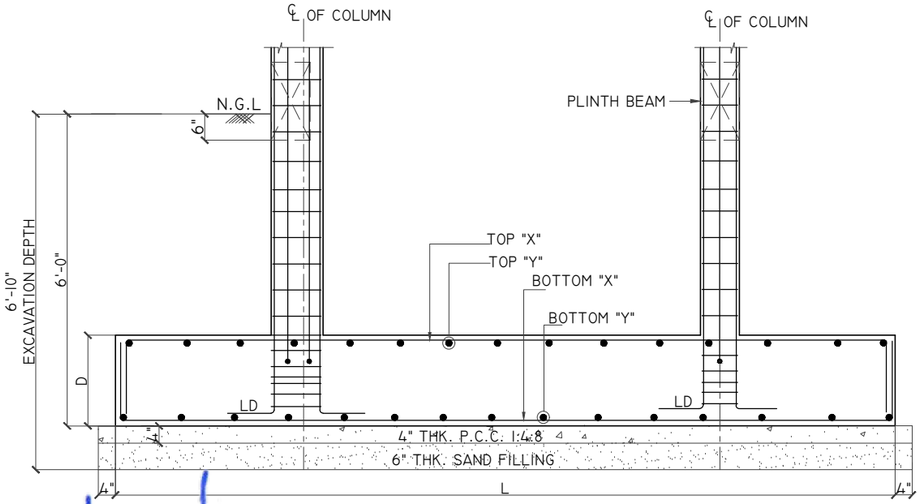
TYPICAL PLAN OF COMBINED FOOTING



SECTION "1-1"



SECTION "2-2"



SECTION "3-3"

COMBINED FOOTINGS SCHEDULE:-

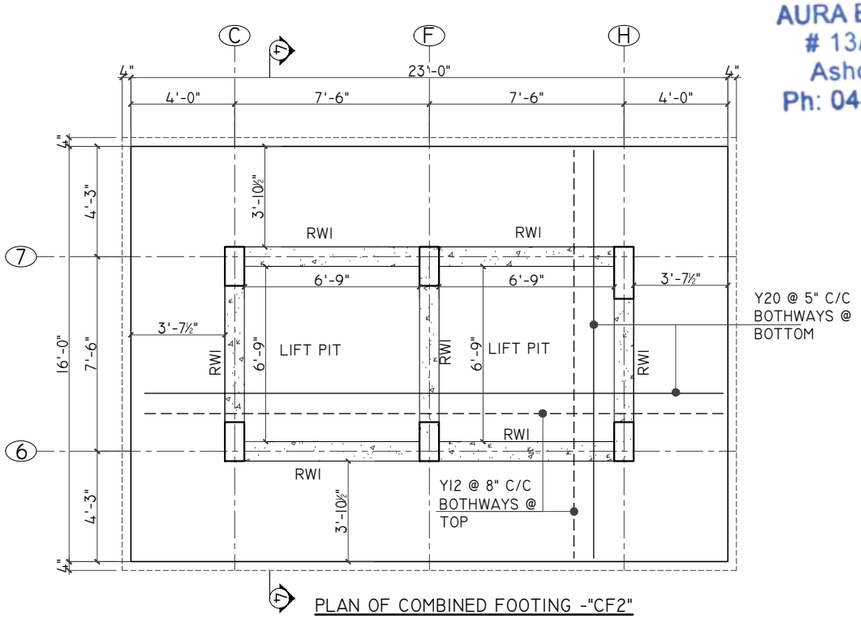
SI.	FOOTING NAME	FOOTING SIZE	FOOTING REINFORCEMENT
01	CF1	19'-0" X 8'-0" X 3'-0"	Y12 @ 8" C/C BOTHWAYS @ TOP Y12 @ 4" C/C BOTHWAYS @ BOTTOM
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03	CF3	19'-0" X 8'-6" X 3'-0"	Y12 @ 8" C/C BOTHWAYS @ TOP Y12 @ 4" C/C BOTHWAYS @ BOTTOM
04	CF4	19'-0" X 20'-0" X 3'-0"	Y12 @ 4" C/C BOTHWAYS @ TOP Y16 @ 4" C/C BOTHWAYS @ BOTTOM
05	CF5	11'-0" X 20'-0" X 3'-0"	Y12 @ 8" C/C BOTHWAYS @ TOP Y12 @ 4" C/C BOTHWAYS @ BOTTOM

GENERAL NOTES:

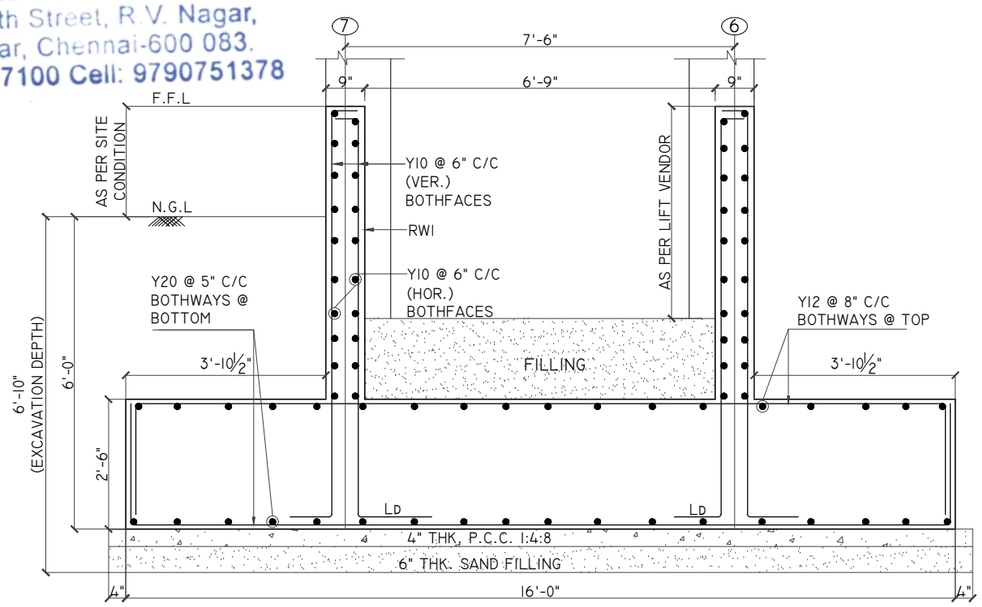
1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) FOOTING = 2" B) R.C WALL = 1"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. COLUMNS AND FOOTINGS ARE DESIGNED FOR S+5 FLOOR LOADS AND SBC OF THE SOIL IS 250KN/SQM. @ 6'-10" BELOW N.G.L.
7. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
8. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

NOTE :

N.G.L - NATURAL GROUND LEVEL.



PLAN OF COMBINED FOOTING -"CF2"



SECTION "4-4"

R. Manikandan.

R. MANIKANDAN, M.Tech, (Structures)
Registered Structural Engineer Grade I (RES),DTCP
CGLRGN/SE/Gr-I/2019/09/036
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR APPROVAL	A.P	R.M	20.08.25

PROJECT :-

PROPOSED CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING IN PLOT NO.2A, T.S NO:33, WARD NO. D, BLOCK NO. 23 AT NAMAKKAL VILLAGE, NAMAKKAL TALUK, NAMAKKAL CORPORATION, NAMAKKAL DISTRICT.
(ONLINE APPLICATION NO: SWP/BPA/055II97/2025)
SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-

R.C DETAILS OF FOOTINGS

DATE	SCALE	JOB.NO	DRG.NO
20.08.25	I : I2'	--	002A

ARCHITECT / CONSULTANTS :-

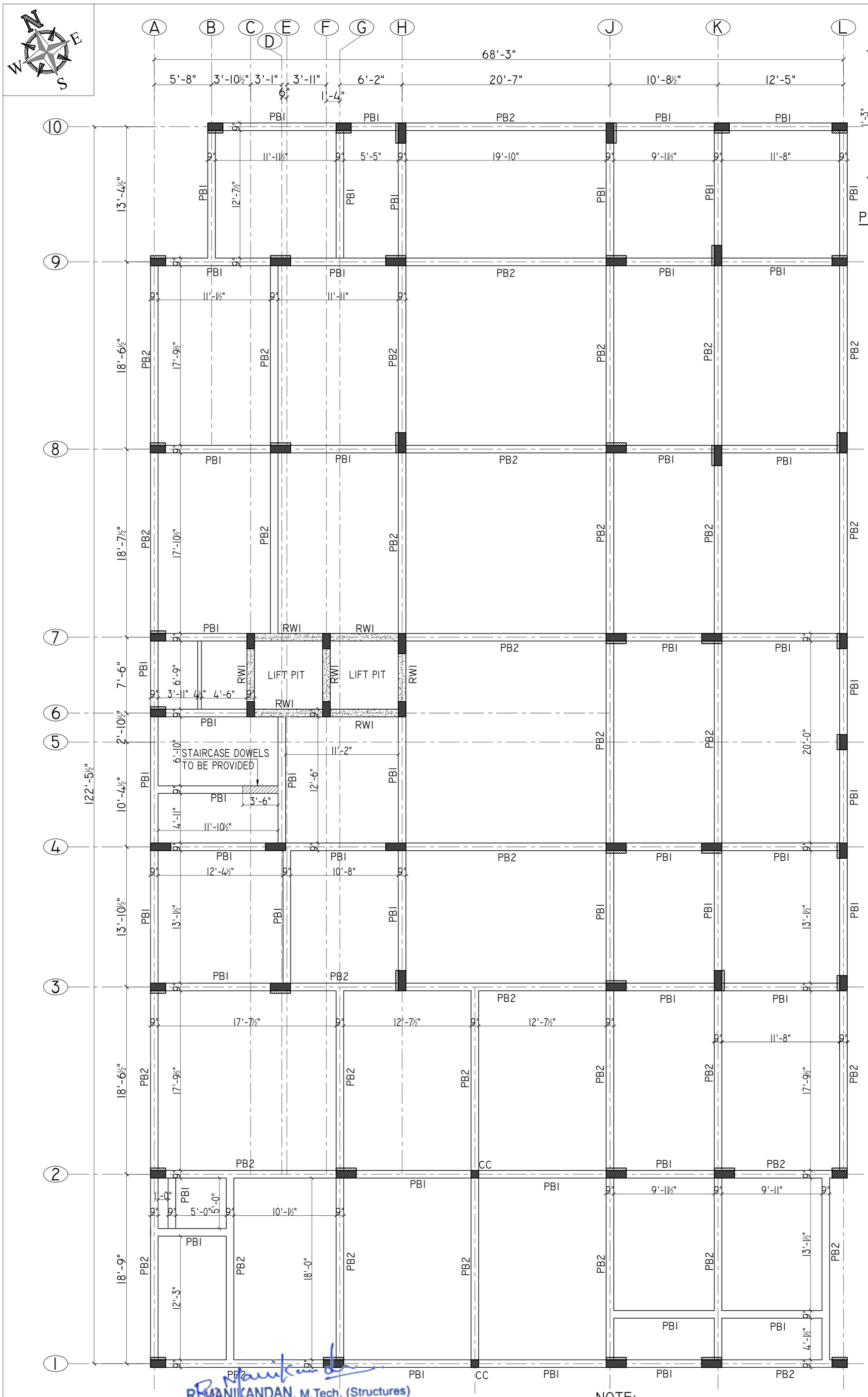
DESIGN pov
ARCHITECTURE & INTERIOR DESIGN
POV Interiors Private Limited
No.33, Conran Smith Road, Gopalapuram, Chennai - 600 086
Mb: +91 73053 77709 | info@designpov.in | http://designpov.in

STRUCTURAL CONSULTANTS :–

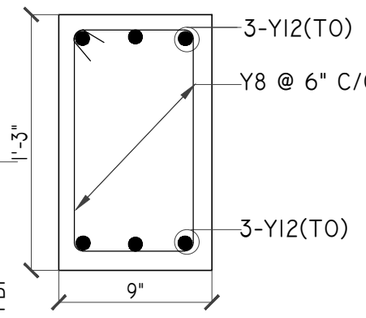
aura Engineering Consultants

AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue,
ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
http://auraengineers.co.in/

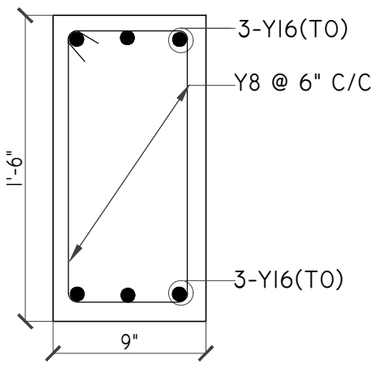
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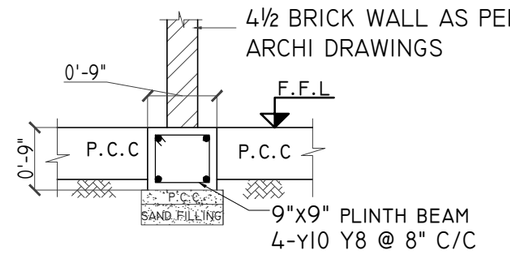
LAYOUT OF PLINTH BEAM



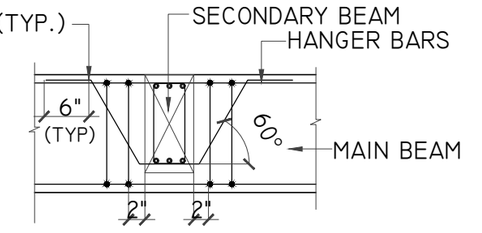
PLINTH BEAM "PBI"
(0'-9" x 1'-3")



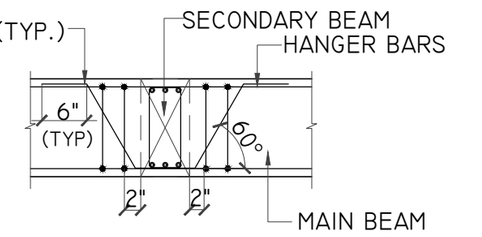
PLINTH BEAM "PB2"
(0'-9" x 1'-6")



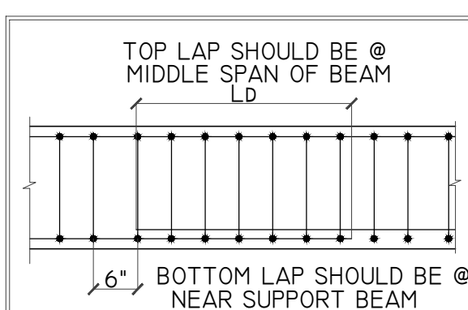
TYPICAL DETAILS OF PLINTH BEAM
UNDERNEATH 4.5" BRICK WORK



TYP. DET. OF HANGER BARS IN MAIN BEAM
AT SECONDARY BEAM JUNCTION
(VARY DEPTH)



TYP. DET. OF HANGER BARS IN
MAIN BEAM AT SECONDARY BEAM JUNCTION



TYP. LAP SPLICE IN BEAM

BEAM SCHEDULE

S.NO	NAME	SIZE
01.	PBI	0'-9" x 1'-3"
02.	PB2	0'-9" x 1'-6"

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR APPROVAL	R.P	R.M	20.08.25

PROJECT :-

PROPOSED CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING IN PLOT NO.2A, T.S NO:33, WARD NO. D, BLOCK NO. 23 AT NAMAKKAL VILLAGE, NAMAKKAL TALUK, NAMAKKAL CORPORATION, NAMAKKAL DISTRICT.
(ONLINE APPLICATION NO: SWP/BPA/055II97/2025)
SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-

LAYOUT & R.C DETAILS OF PLINTH BEAM

DATE	SCALE	JOB.NO	DRG.NO
20.08.25	I" : II'	-------	003

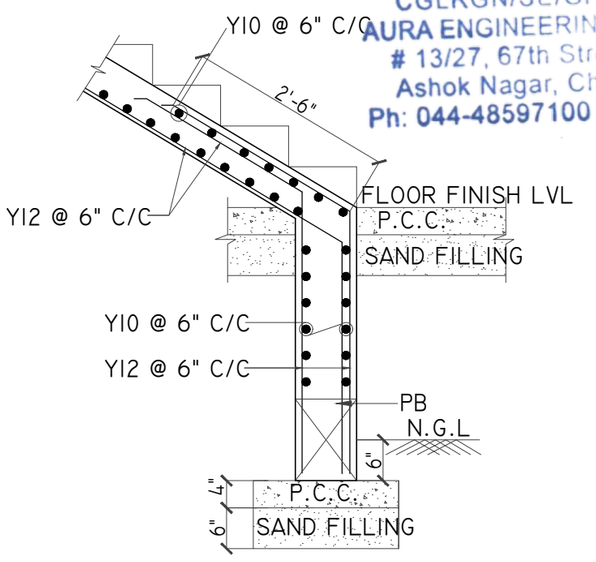
ARCHITECT / CONSULTANTS :-

DESIGN pov
ARCHITECTURE & INTERIOR DESIGN
POV Interiors Private Limited
No.33, Conran Smith Road, Gopalapuram,
Chennai - 600 086
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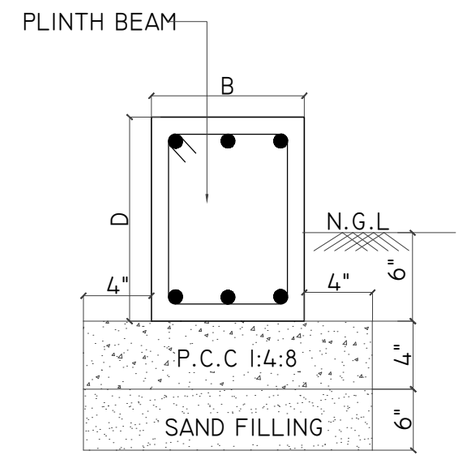
STRUCTURAL CONSULTANTS :-

AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue,
ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
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projects@auraengineers.co.in
http://auraengineers.co.in/
aura Engineeering Consultants

A2



TYP. DETAIL OF
STAIRCASE DOWELS



TYPICAL DETAIL OF PLINTH BEAM

NOTE:

N.G.L - NATURAL GROUND LEVEL.

F.F.L - FLOOR FINISH LEVEL

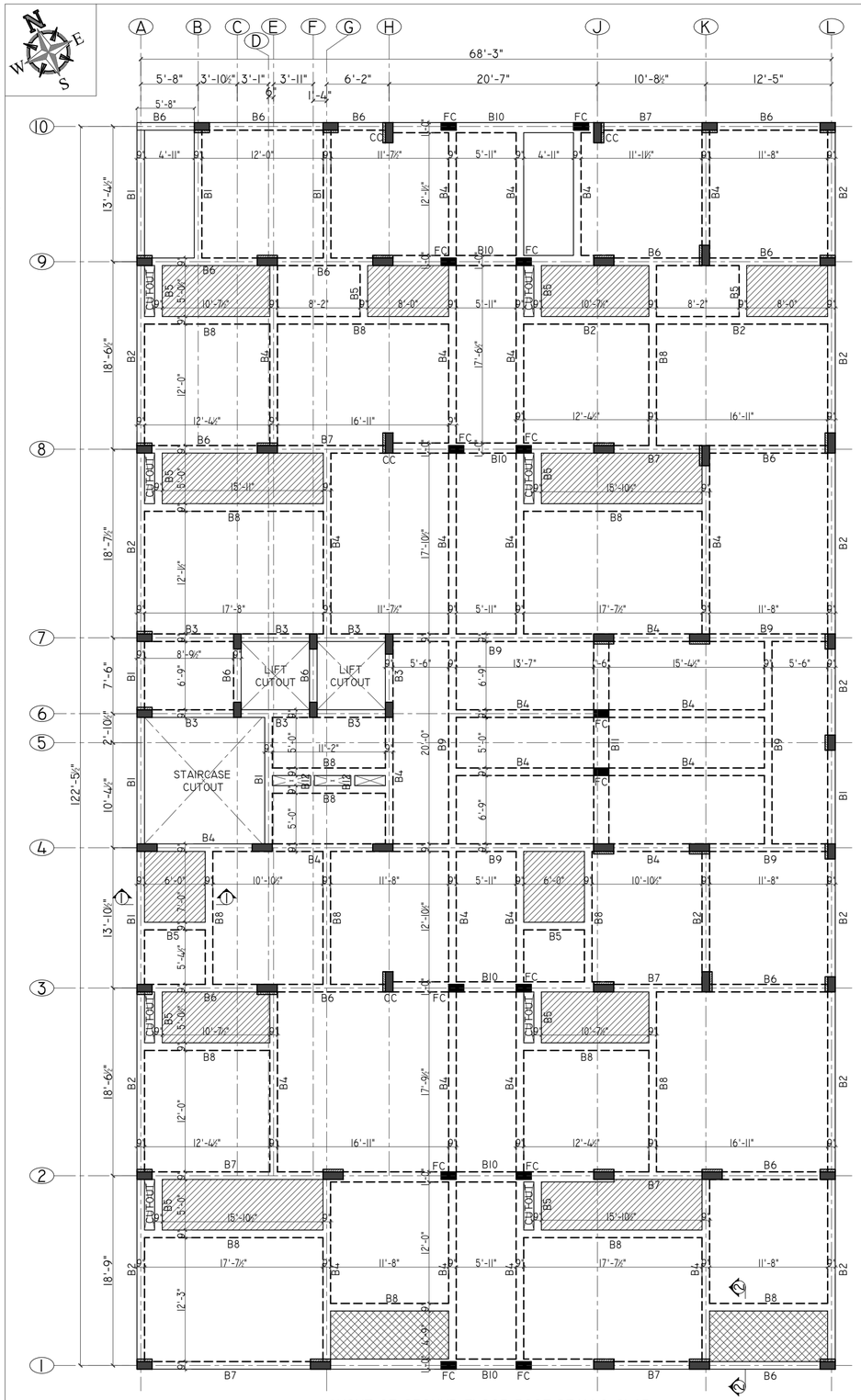
CC - COLUMN CURTAILED & RODS TO BE BEND IN TO TOP OF THE BEAM

GENERAL NOTES:

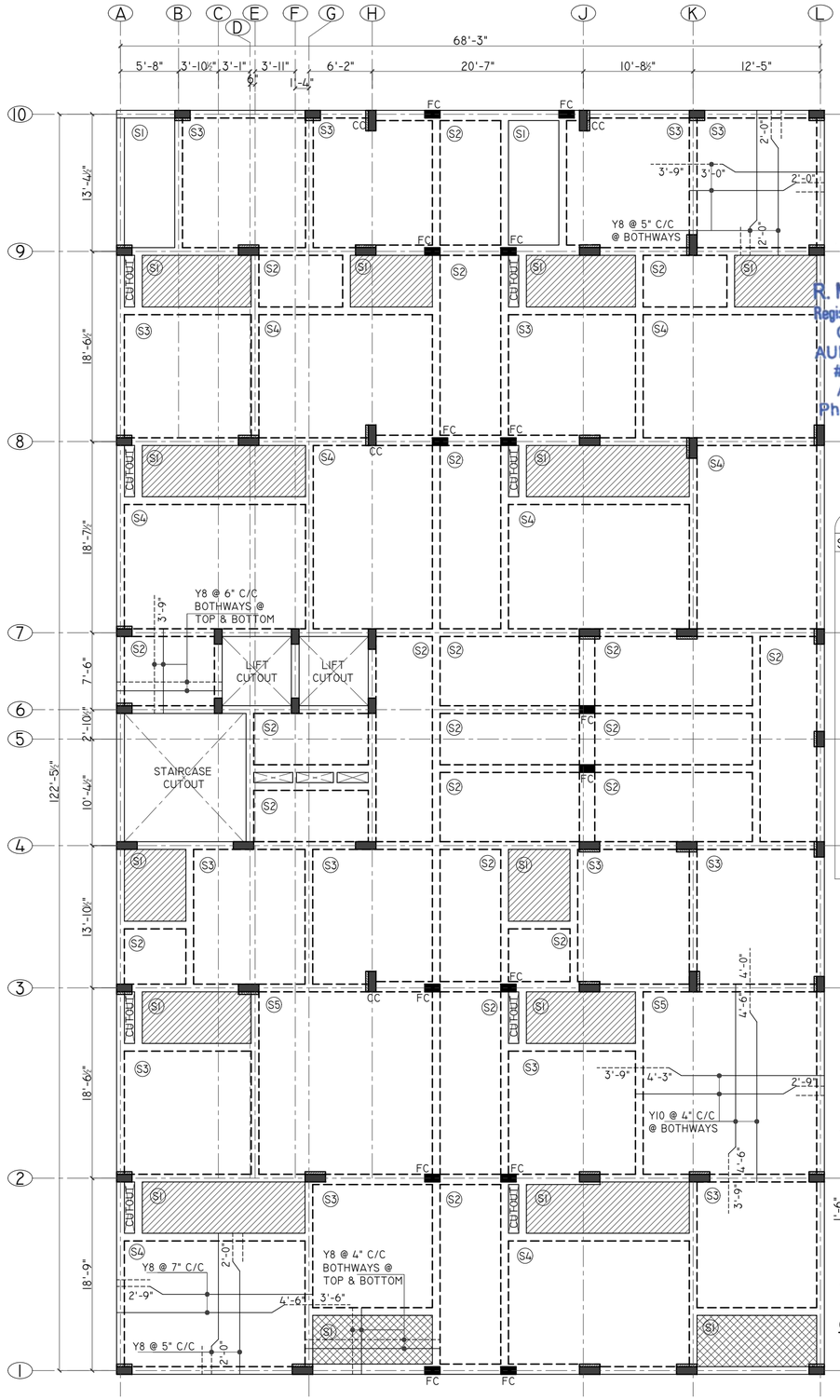
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3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   a) COLUMN = 1½"
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6. COLUMNS AND FOOTINGS ARE DESIGNED FOR S+5 FLOOR LOADS AND SBC OF THE SOIL IS 250KN/SQM. @ 6'-10" BELOW N.G.L.
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8. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

R.MANIKANDAN, M.Tech, (Structures)
Registered Structural Engineer Grade I (RES), DTCP
CGLRGN/SE/Gr-I/2019/09/036
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378

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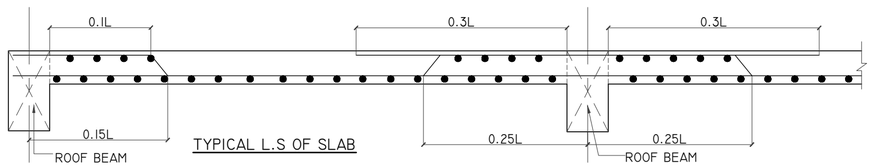
LAYOUT OF GROUND FLOOR ROOF BEAM & SLAB



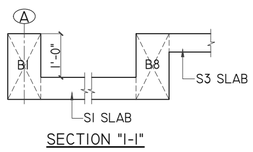
R.C LAYOUT OF GROUND FLOOR ROOF BEAM & SLAB

NOTE:

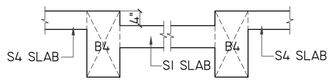
- SLAB SUNK BY 0'-1'-0"
- SLAB SUNK BY 0'-4"
- PROVIDE Y8 @ 8" C/C AS DISTRIBUTORS WHERE EVER REQUIRED
- FOR BEAM REINFORCEMENT DETAILS REFER DWG.NO : 005
- CC - COLUMN CURTAILED & RODS TO BE BEND IN TO TOP OF THE SLAB



TYPICAL L.S OF SLAB



SECTION "1-1"



SECTION "2-2"

SLAB SCHEDULE

SL.NO	NAME	THICK
01	S1	6" THK.
02	S2	5" THK.
03	S3	5" THK.
04	S4	5" THK.
05	S5	6" THK.

BEAM SCHEDULE

SL.NO	NAME	SIZE
01	B1	0'-9" x 1'-6"
02	B2	0'-9" x 1'-6"
03	B3	0'-9" x 1'-6"
04	B4	0'-9" x 1'-6"
05	B5	0'-9" x 1'-6"
06	B6	0'-9" x 1'-6"
07	B7	0'-9" x 1'-6"
08	B8	0'-9" x 1'-6"
09	B9	0'-9" x 2'-0"
010	B10	1'-0" x 2'-0"
011	B11	1'-6" x 2'-0"
012	B12	0'-4½" x 1'-0"

GENERAL NOTES:
REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ----------24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ----------3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ----------7 DAYS.

D. BOTTOM PROPS TO SLAB
- I) SPANNING UP TO 4.50M ----------7 DAYS.
- II) SPANNING OVER 4.50M ----------14 DAYS.

E. BOTTOM PROPS TO BEAMS
- I) SPANNING UP TO 6.00M ----------14 DAYS.
- II) SPANNING OVER 6.00M ----------21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

I). IN ANY CROSS SECTION OF A MEMBER NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

II). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

III). LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL.

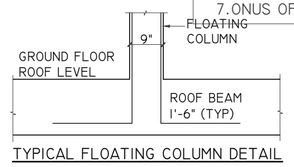
IV). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

V). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

VI). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

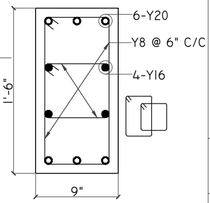
GENERAL NOTES:

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3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) BEAM = 1" B) SLAB = 3/4"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY
7. ONUS OF CONSTRUCTION LIES WITH CONTRACTOR/OWNER

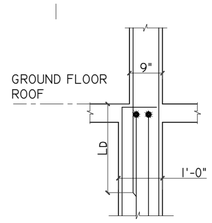


TYPICAL FLOATING COLUMN DETAIL

FC- FLOATING COLUMN TAKEN FROM GROUND FLOOR ROOF



C.S. OF COLUMN "FC"
(0'-9" x 1'-6")



TYPICAL COLUMN REDUCTION DETAILS

R. Manikandan

R. MANIKANDAN, M.Tech, (Structures)
Registered Structural Engineer Grade I (RE)
CGLRGN/SE/Gr-I/2019/09/036
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790713378

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR APPROVAL	R.S	R.M	15.07.25

PROJECT :-
PROPOSED CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING IN PLOT NO.2A, T.S NO:33, WARD NO. D, BLOCK NO. 23 AT NAMAKKAL VILLAGE, NAMAKKAL TALUK, NAMAKKAL CORPORATION, NAMAKKAL DISTRICT.
(ONLINE APPLICATION NO: SWP/BPA/055I197/2025)
SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-
LAYOUT & R.C DETAILS OF GROUND FLOOR ROOF SLAB & BEAMS

DATE	SCALE	JOB.NO	DRG.NO
15.07.25	1" : 10'	-------	004

ARCHITECT / CONSULTANTS :-

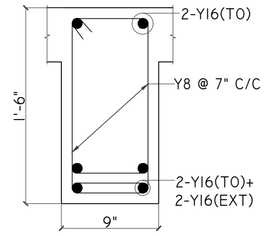
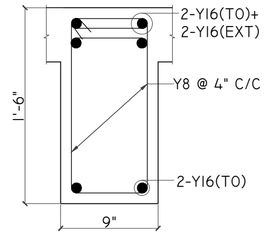
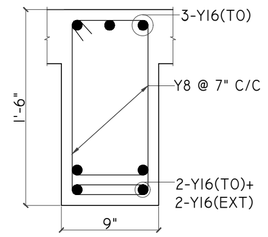
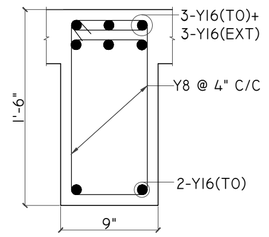
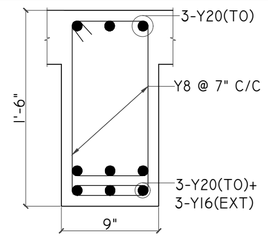
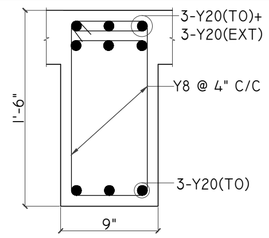
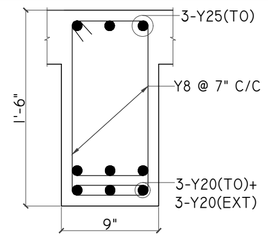
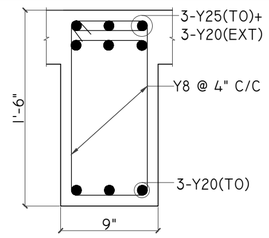
DESIGN POV
ARCHITECTURE & INTERIOR DESIGN
POV Interiors Private Limited
No.33, Conran Smith Road, Gopalapuram, Chennai - 600 086
Mb: +91 73053 77709 | info@designpov.in | http://designpov.in

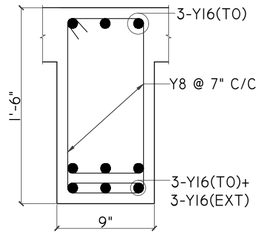
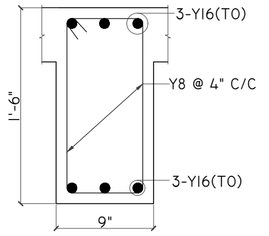
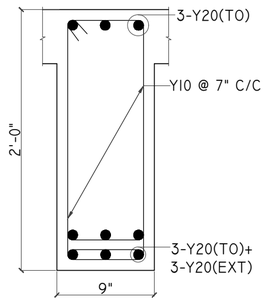
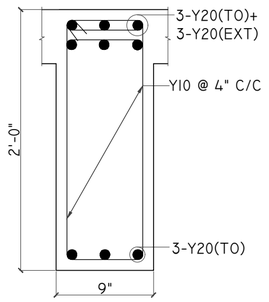
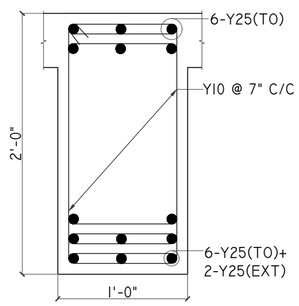
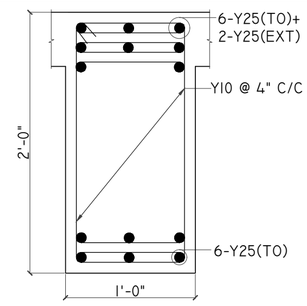
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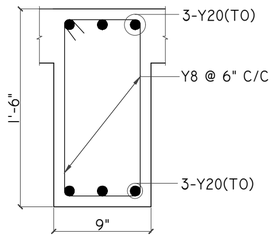
AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue, ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
http://auraengineers.co.in/
aura Engineering Consultants

A2

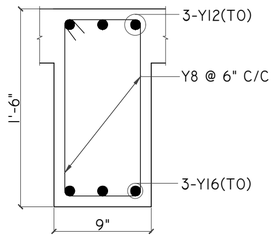
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NAME	MID SPAN	END SUPPORT
B1 (0'-9" X 1'-6")		
B2 (0'-9" X 1'-6")		
B4 (0'-9" X 1'-6")		
B7 (0'-9" X 1'-6")		

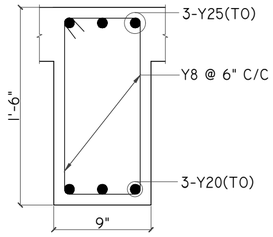
NAME	MID SPAN	END SUPPORT
B8 (0'-9" X 1'-6")		
B9 (0'-9" X 2'-0")		
B10 (1'-0" X 2'-0")		



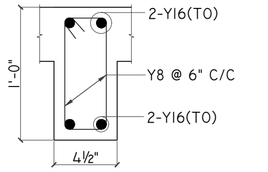
C.S. OF BEAM "B3"
(0'-9" X 1'-6")



C.S. OF BEAM "B5"
(0'-9" X 1'-6")



C.S. OF BEAM "B6"
(0'-9" X 1'-6")

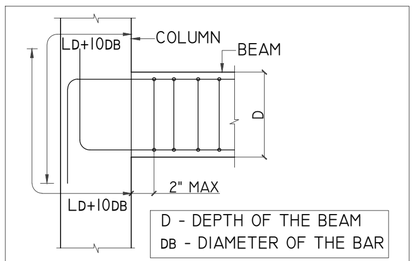


C.S. OF BEAM "B12"
(0'-4½" X 1'-0")

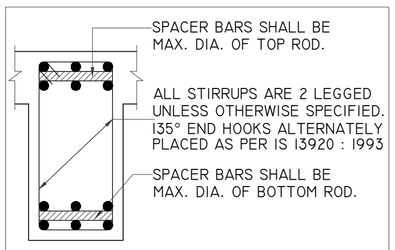
BEAM SCHEDULE		
SL.NO	NAME	SIZE
01	B1	0'-9" x 1'-6"
02	B2	0'-9" x 1'-6"
03	B3	0'-9" x 1'-6"
04	B4	0'-9" x 1'-6"
05	B5	0'-9" x 1'-6"
06	B6	0'-9" x 1'-6"
07	B7	0'-9" x 1'-6"
08	B8	0'-9" x 1'-6"
09	B9	0'-9" x 2'-0"
010	B10	1'-0" x 2'-0"
011	B11	1'-6" x 2'-0"
012	B12	0'-4½" x 1'-0"

GENERAL NOTES:

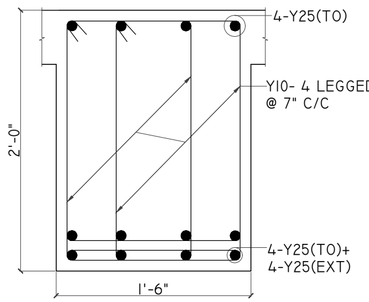
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4. CLEAR COVER FOR REINFORCEMENT
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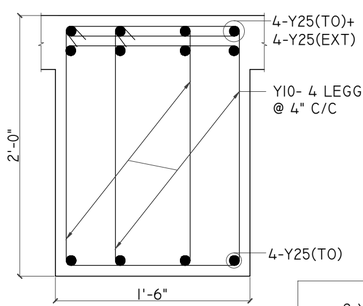
TYP. EXTERNAL JOINT DETAIL AT BEAM-COLUMN JUNCTION



TYP. DETAIL

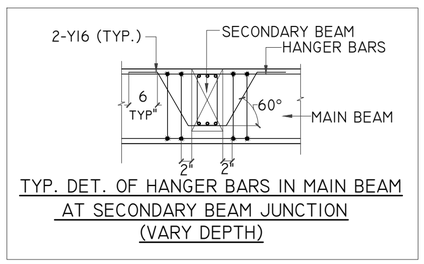


C.S. OF BEAM "B11"
(1'-6" X 2'-0")
(AT MID SPAN)

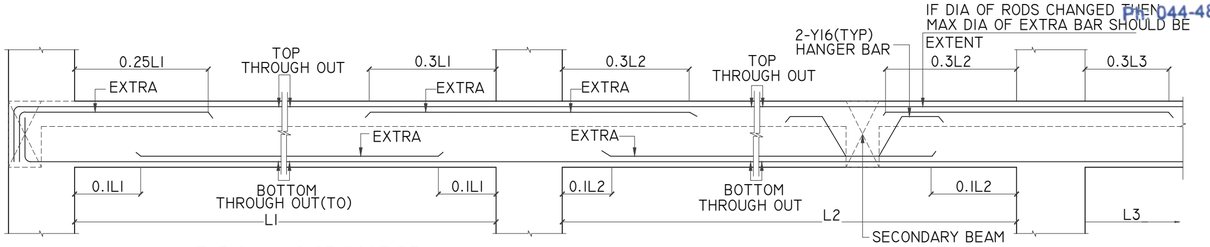


C.S. OF BEAM "B11"
(1'-6" X 2'-0")
(AT END SUPPORT)

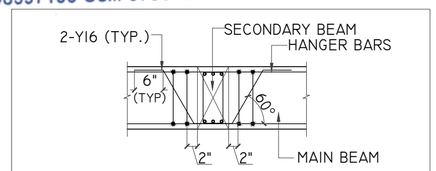
R. Manikandan
R. MANIKANDAN, M.Tech, (Structures)
Registered Structural Engineer Grade I (RES),DTCP
CGLRGN/SE/Gr-I/2019/09/036
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Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378



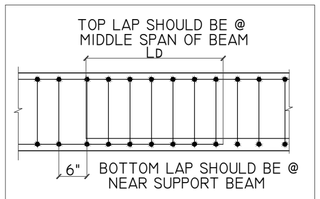
TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION (VARY DEPTH)



TYPICAL L.S OF ROOF BEAM



TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION



TYP. LAP SPLICE IN BEAM

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR APPROVAL	R.S	R.M	15.07.25

PROJECT :-

PROPOSED CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING IN PLOT NO.2A, T.S NO:33, WARD NO. D, BLOCK NO. 23 AT NAMAKKAL VILLAGE, NAMAKKAL TALUK, NAMAKKAL CORPORATION, NAMAKKAL DISTRICT.
(ONLINE APPLICATION NO: SWP/BPA/055II97/2025)
SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-

R.C DETAILS OF GROUND FLOOR ROOF BEAM

DATE	SCALE	JOB.NO	DRG.NO
15.07.25	1" : 9'	------	005

ARCHITECT / CONSULTANTS :-

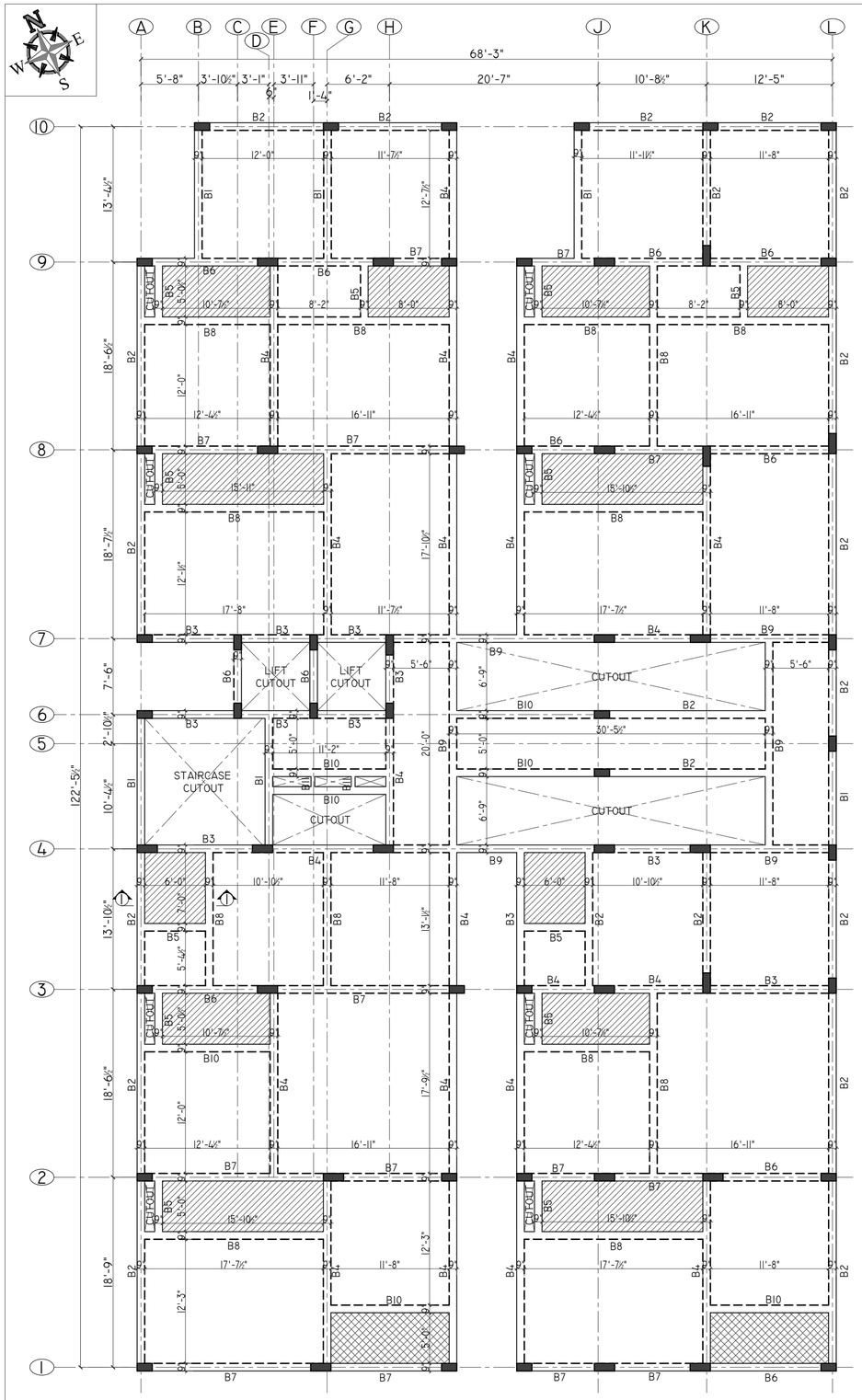
DESIGN pov
ARCHITECTURE & INTERIOR DESIGN
POV Interiors Private Limited
No.33, Conran Smith Road, Gopalapuram, Chennai - 600 086
Mb: +91 73053 77709 | info@designpov.in | http://designpov.in

STRUCTURAL CONSULTANTS :-

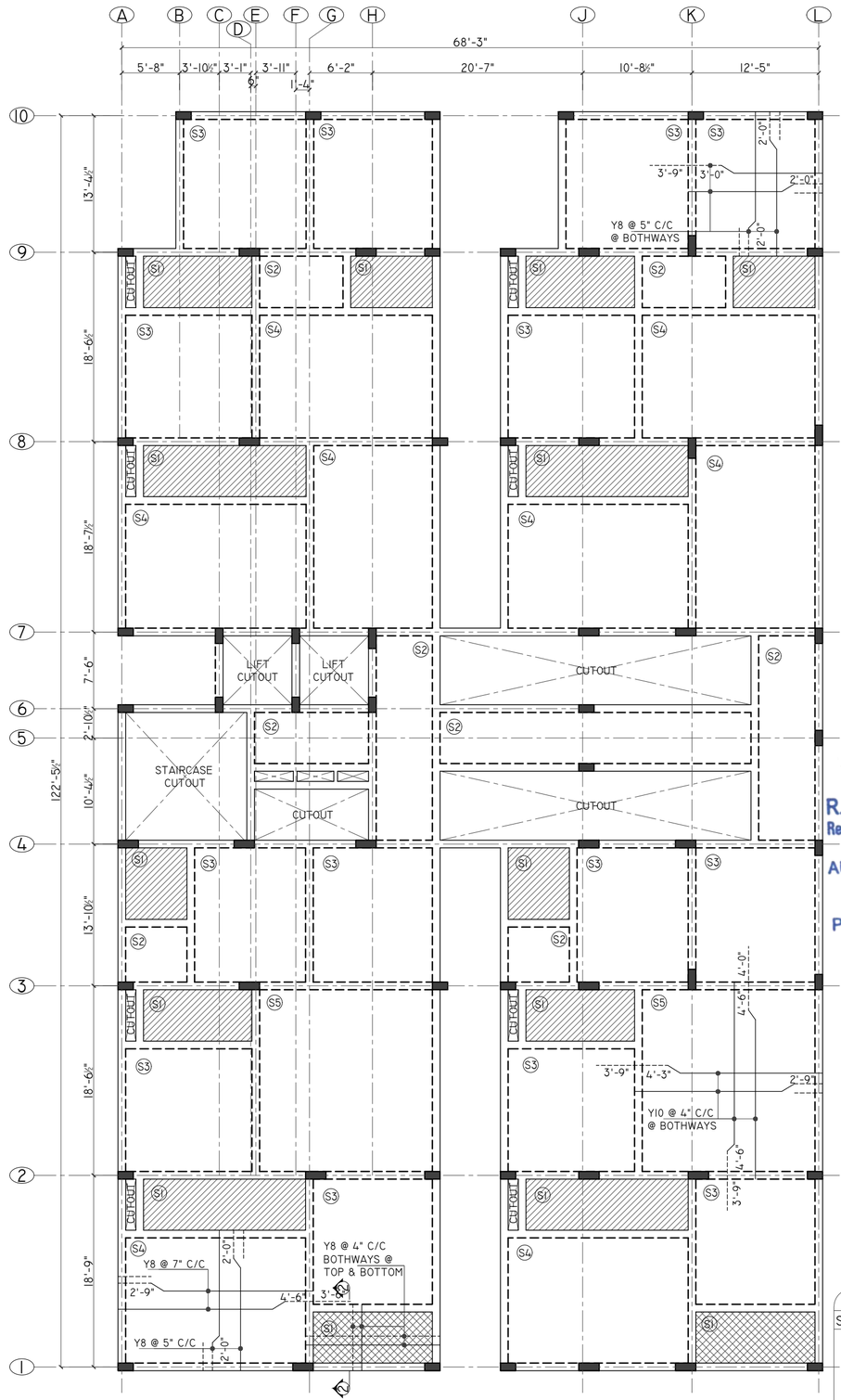
aura Engineering Consultants

AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue,
ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
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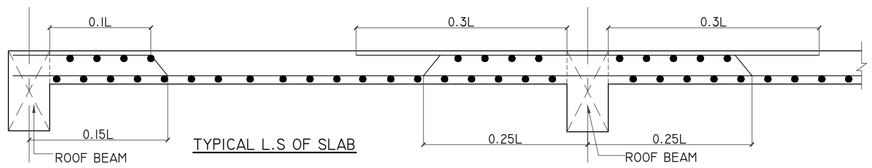
LAYOUT OF TYPICAL FLOOR ROOF BEAM & SLAB



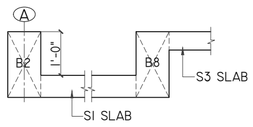
R.C LAYOUT OF TYPICAL FLOOR ROOF BEAM & SLAB

NOTE:

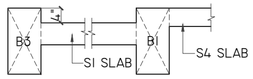
- SLAB SUNK BY 0'-1'-0"
- SLAB SUNK BY 0'-4"
- PROVIDE Y8 @ 8" C/C AS DISTRIBUTORS WHERE EVER REQUIRED
- FOR BEAM REINFORCEMENT DETAILS REFER DWG.NO : 007



TYPICAL L.S OF SLAB



SECTION "1-1"



SECTION "2-2"

SLAB SCHEDULE		
SL.NO	NAME	THICK
01	S1	6" THK.
02	S2	5" THK.
03	S3	5" THK.
04	S4	5" THK.
05	S5	6" THK.

BEAM SCHEDULE		
SL.NO	NAME	SIZE
01	B1	0'-9" x 1'-6"
02	B2	0'-9" x 1'-6"
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09	B9	0'-9" x 2'-0"
010	B10	0'-9" x 1'-6"
011	B11	0'-4½" x 1'-0"

GENERAL NOTES:
REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ----------24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ----------3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ----------7 DAYS.

D. BOTTOM PROPS TO SLAB
- I) SPANNING UP TO 4.50M ----------7 DAYS.
- II) SPANNING OVER 4.50M ----------14 DAYS.

E. BOTTOM PROPS TO BEAMS
- I) SPANNING UP TO 6.00M ----------14 DAYS.
- II) SPANNING OVER 6.00M ----------21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

I). AT ANY CROSS SECTION OF A MEMBER NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

II). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

III). LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL.

IV). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

V). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

VI). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
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R. Manikandan

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(ONLINE APPLICATION NO: SWP/BPA/055I197/2025)
SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-

LAYOUT & R.C DETAILS OF TYPICAL FLOOR ROOF SLAB & BEAMS

DATE	SCALE	JOB.NO	DRG.NO
15.07.25	1" : 10'	-------	006

ARCHITECT / CONSULTANTS :-

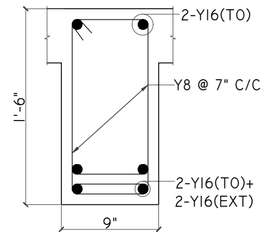
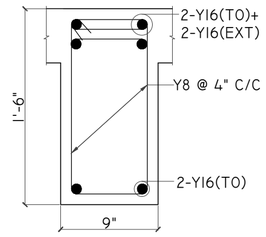
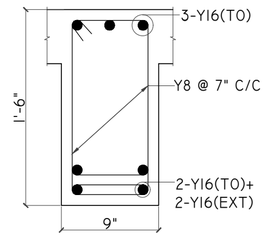
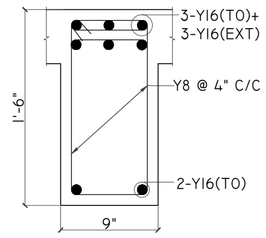
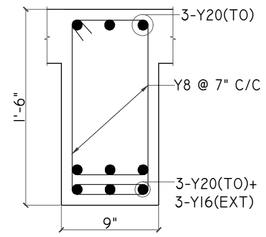
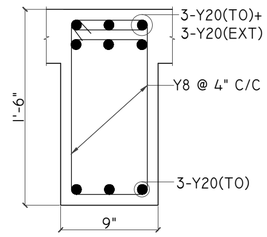
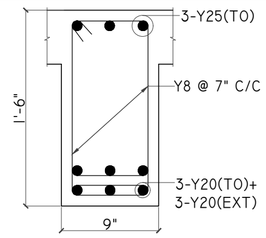
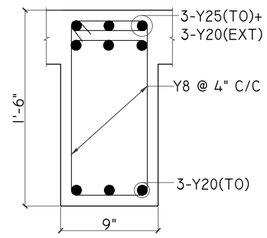
DESIGN POV
ARCHITECTURE & INTERIOR DESIGN
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No.33, Conran Smith Road, Gopalapuram, Chennai - 600 086
Mb: +91 73053 77709 | info@designpov.in | http://designpov.in

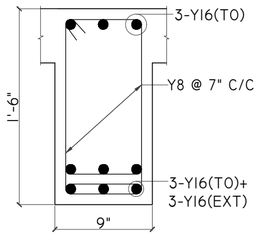
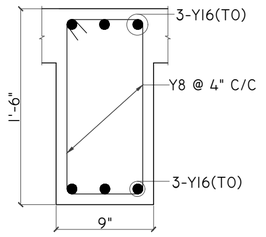
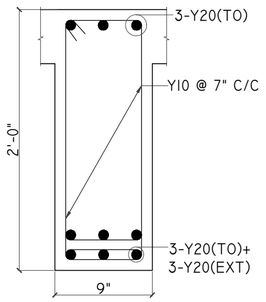
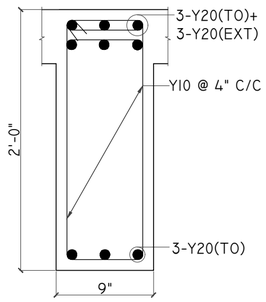
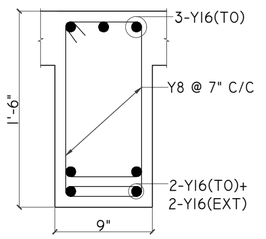
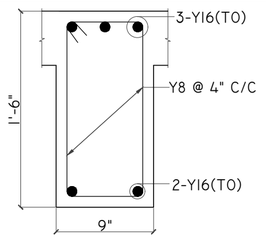
STRUCTURAL CONSULTANTS :-

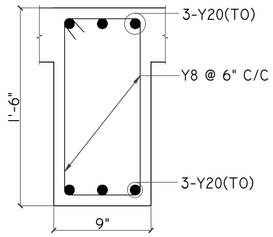
AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue, ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
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aura Engineering Consultants

A2

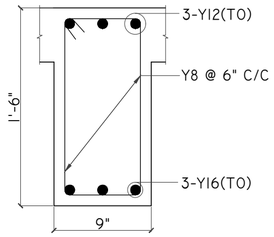
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NAME	MID SPAN	END SUPPORT
B1 (0'-9" X 1'-6")		
B2 (0'-9" X 1'-6")		
B4 (0'-9" X 1'-6")		
B7 (0'-9" X 1'-6")		

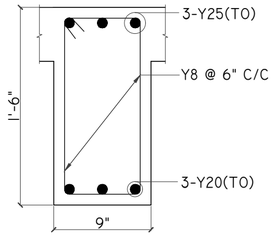
NAME	MID SPAN	END SUPPORT
B8 (0'-9" X 1'-6")		
B9 (0'-9" X 2'-0")		
B10 (0'-9" X 1'-6")		



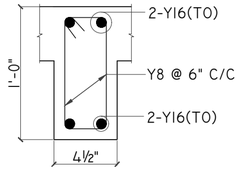
C.S. OF BEAM "B3"
(0'-9" X 1'-6")



C.S. OF BEAM "B5"
(0'-9" X 1'-6")



C.S. OF BEAM "B6"
(0'-9" X 1'-6")



C.S. OF BEAM "BII"
(0'-4½" X 1'-0")

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) BEAM = 1" B) SLAB = 3/4"
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REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR APPROVAL	R.S	R.M	15.07.25

PROJECT :-

PROPOSED CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING IN PLOT NO.2A, T.S NO:33, WARD NO. D, BLOCK NO. 23 AT NAMAKKAL VILLAGE, NAMAKKAL TALUK, NAMAKKAL CORPORATION, NAMAKKAL DISTRICT. (ONLINE APPLICATION NO: SWP/BPA/0551197/2025) SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-

R.C DETAILS OF TYPICAL FLOOR ROOF BEAM

DATE	SCALE	JOB.NO	DRG.NO
15.07.25	1" : 9'	------	007

ARCHITECT / CONSULTANTS :-

DESIGN pov
ARCHITECTURE & INTERIOR DESIGN
POV Interiors Private Limited
No.33, Conran Smith Road, Gopalapuram, Chennai - 600 086
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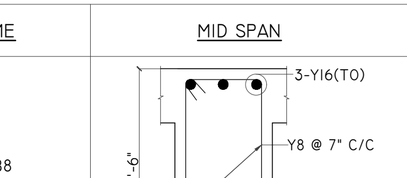
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TYP. EXTERNAL JOINT DETAIL AT BEAM-COLUMN JUNCTION

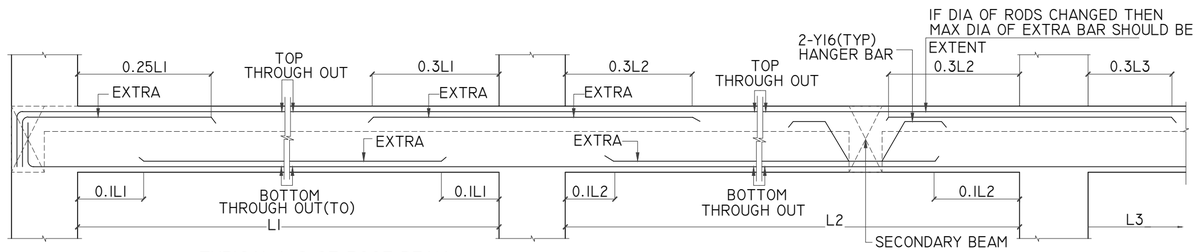
TYP. DETAIL

TYP. LAP SPLICE IN BEAM

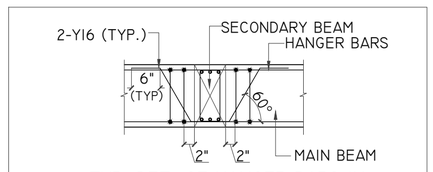


TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION (VARY DEPTH)

BEAM SCHEDULE		
SL.NO	NAME	SIZE
01	B1	0'-9" X 1'-6"
02	B2	0'-9" X 1'-6"
03	B3	0'-9" X 1'-6"
04	B4	0'-9" X 1'-6"
05	B5	0'-9" X 1'-6"
06	B6	0'-9" X 1'-6"
07	B7	0'-9" X 1'-6"
08	B8	0'-9" X 1'-6"
09	B9	0'-9" X 2'-0"
010	B10	0'-9" X 1'-6"
011	BII	0'-4½" X 1'-0"



TYPICAL L.S OF ROOF BEAM

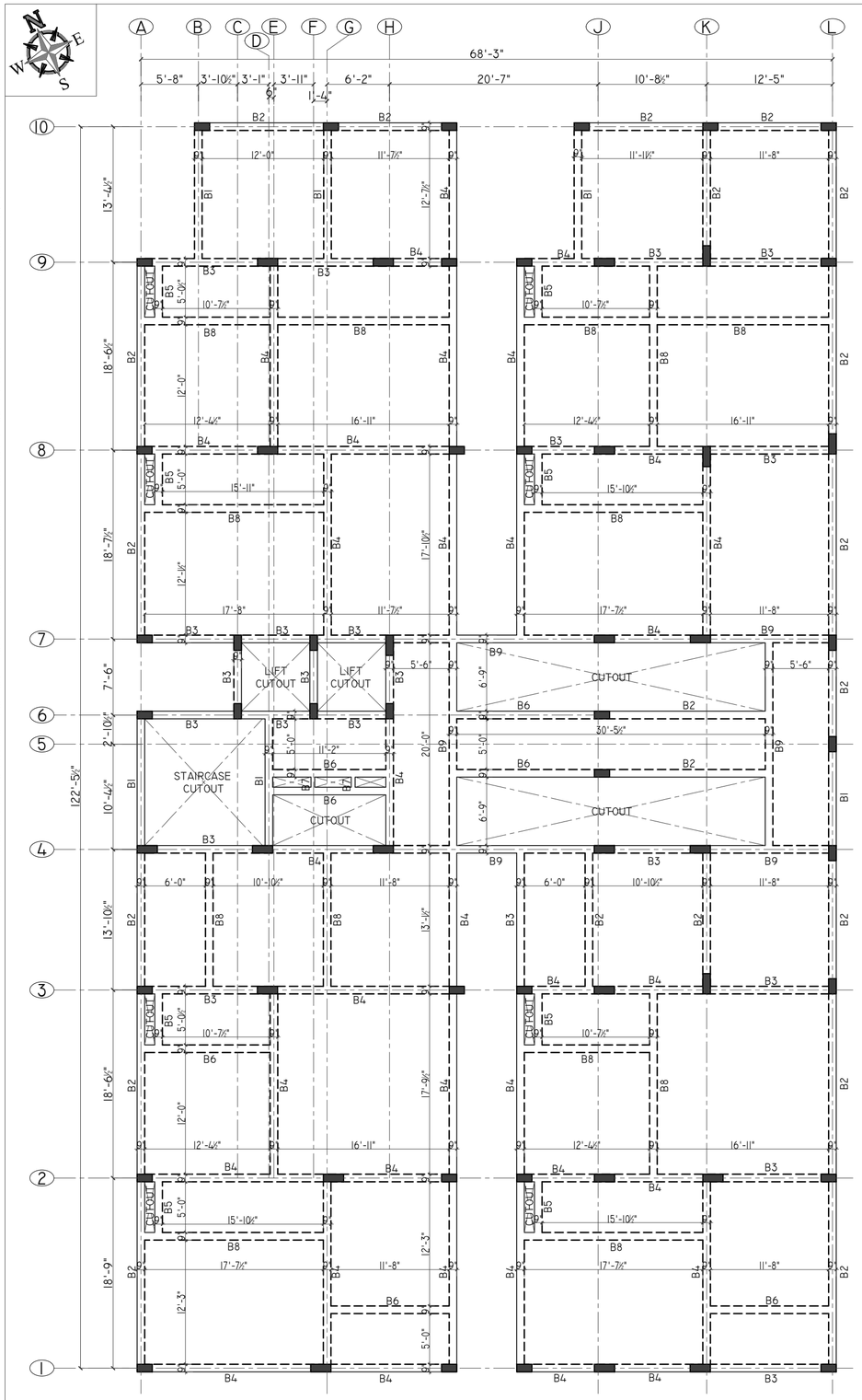


TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION

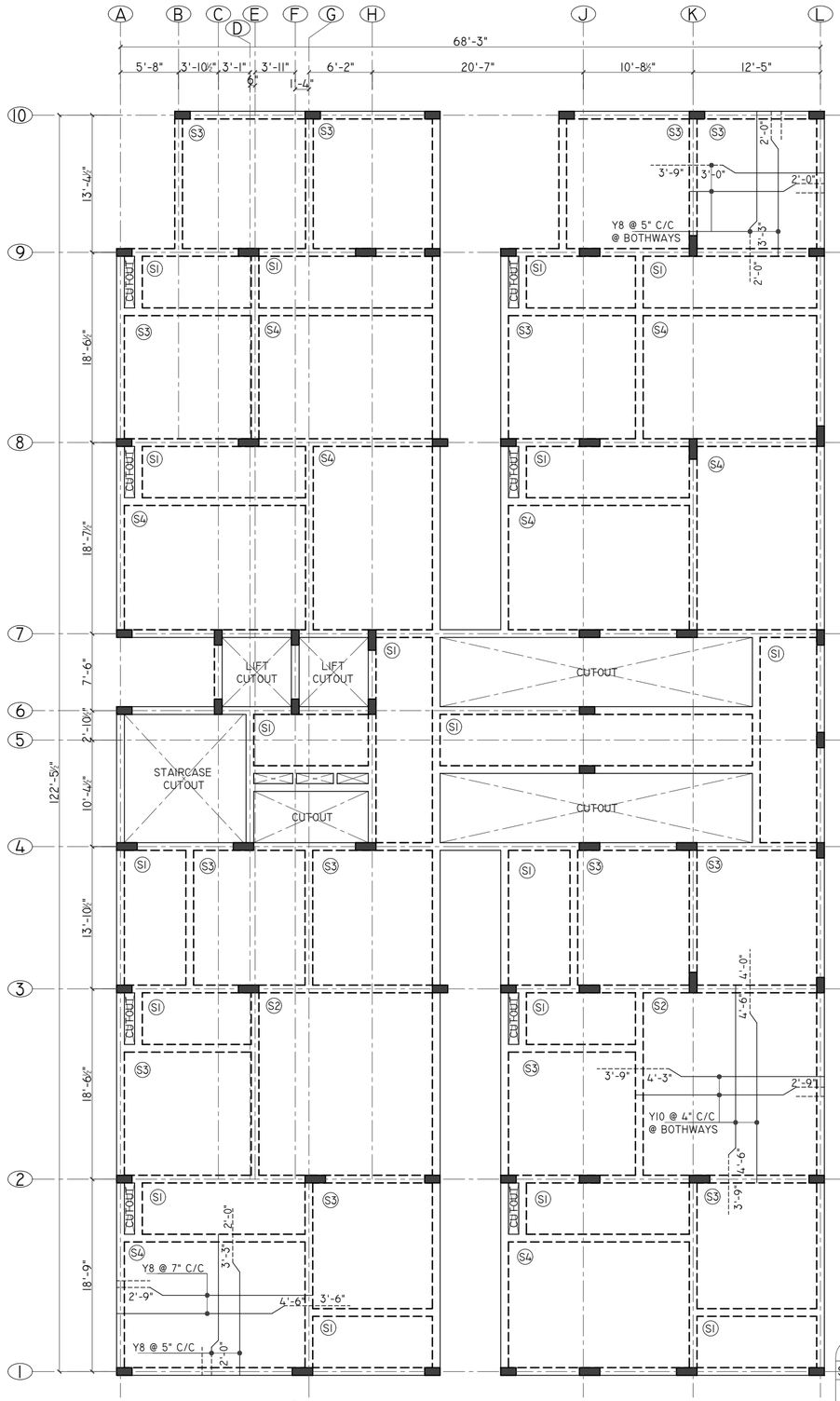
R. Manikandan

R. MANIKANDAN, M.Tech, (Structures)
Registered Structural Engineer Grade I (RES),DTCP
CGLRGN/SE/Gr-I/2019/09/036
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
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Ph: 044-48597100 Cell: 9790751378

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LAYOUT OF TERRACEFLOOR BEAM & SLAB

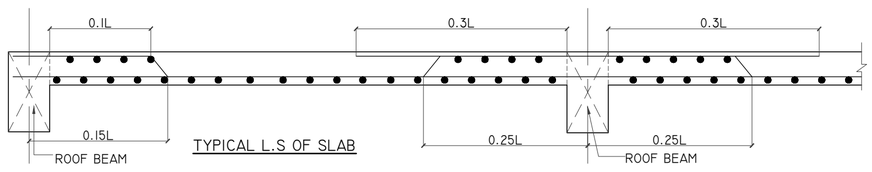


R.C LAYOUT OF TERRACE FLOOR BEAM & SLAB

NOTE:

PROVIDE Y8 @ 8" C/C AS DISTRIBUTORS WHERE EVER REQUIRED

FOR BEAM REINFORCEMENT DETAILS REFER DWG.NO : 009



TYPICAL L.S OF SLAB

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Registered Structural Engineer Grade I (RES),DTCP
CGLRGN/SE/Gr-I/2019/09/036
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13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378

SLAB SCHEDULE

SL.NO	NAME	THICK
01	S1	6" THK.
02	S2	6" THK.
03	S3	5" THK.
04	S4	5" THK.

BEAM SCHEDULE

SL.NO	NAME	SIZE
01	B1	0'-9" x 1'-6"
02	B2	0'-9" x 1'-6"
03	B3	0'-9" x 1'-6"
04	B4	0'-9" x 1'-6"
05	B5	0'-9" x 1'-6"
06	B6	0'-9" x 1'-6"
07	B7	0'-4½" x 1'-0"
08	B8	0'-9" x 1'-6"
09	B9	0'-9" x 2'-0"

GENERAL NOTES:

REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ----------24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ----------3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ----------7 DAYS.

D. BOTTOM PROPS TO SLAB
I) SPANNING UP TO 4.50M ----------7 DAYS.
II) SPANNING OVER 4.50M ----------14 DAYS.

E. BOTTOM PROPS TO BEAMS
I) SPANNING UP TO 6.00M ----------14 DAYS.
II) SPANNING OVER 6.00M ----------21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

I). AT ANY CROSS SECTION OF A MEMBER NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

II). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

III). LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL.

IV). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

V). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

VI). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

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(ONLINE APPLICATION NO: SWP/BPA/055197/2025)
SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-

LAYOUT & R.C DETAILS OF TERRACE FLOOR SLAB & BEAMS

DATE	SCALE	JOB.NO	DRG.NO
15.07.25	1" : 10'	-------	008

ARCHITECT / CONSULTANTS :-

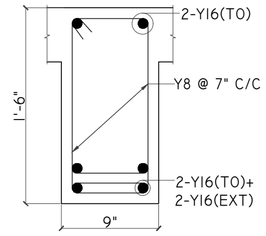
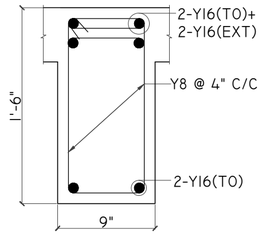
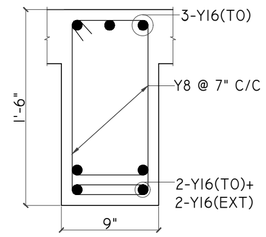
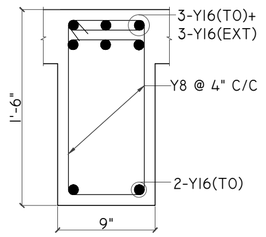
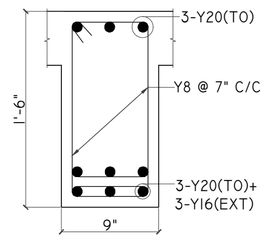
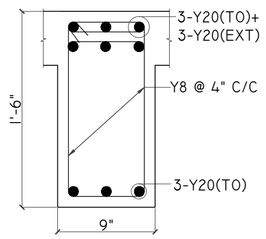
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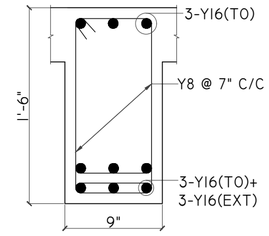
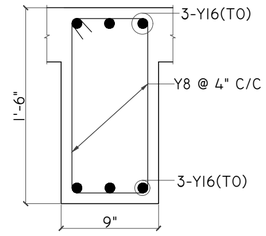
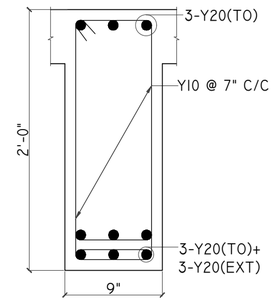
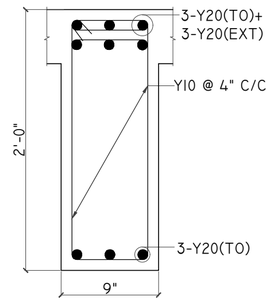
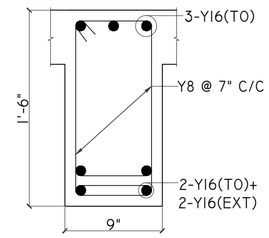
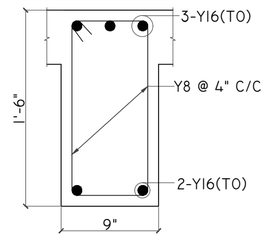
STRUCTURAL CONSULTANTS :-

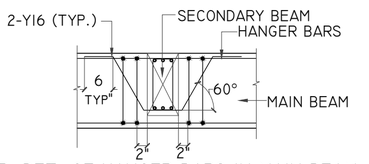
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A2

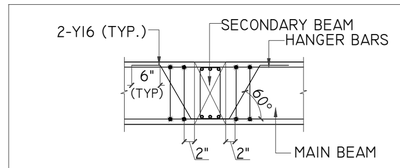
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B2 (0'-9" X 1'-6")		
B4 (0'-9" X 1'-6")		

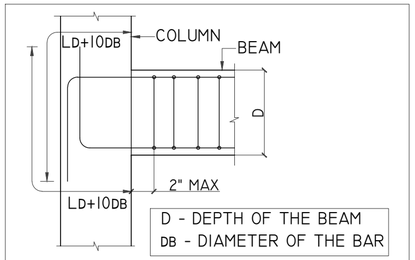
NAME	MID SPAN	END SUPPORT
B8 (0'-9" X 1'-6")		
B9 (0'-9" X 2'-0")		
B6 (0'-9" X 1'-6")		



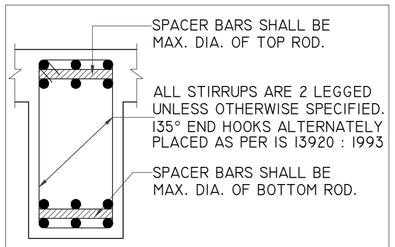
TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION (VARY DEPTH)



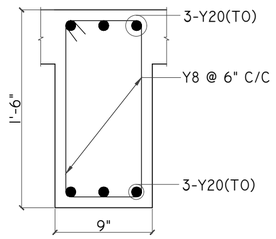
TYP. DET. OF HANGER BARS IN MAIN BEAM AT SECONDARY BEAM JUNCTION



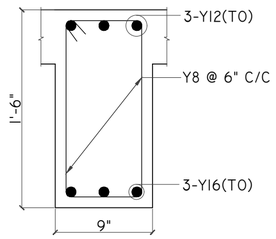
TYP. EXTERNAL JOINT DETAIL AT BEAM-COLUMN JUNCTION



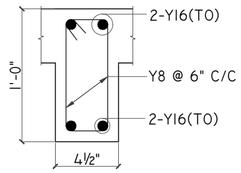
TYP. DETAIL



C.S. OF BEAM "B3" (0'-9" X 1'-6")



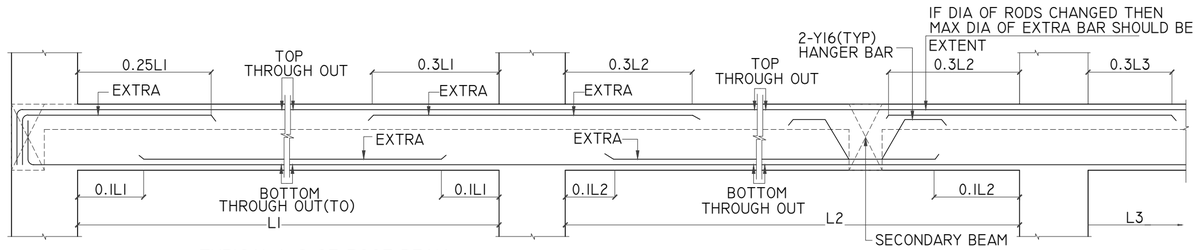
C.S. OF BEAM "B5" (0'-9" X 1'-6")



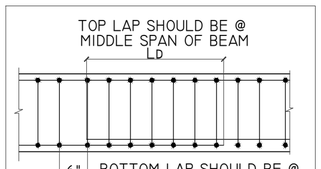
C.S. OF BEAM "B7" (0'-4½" X 1'-0")

R. Manikandan.
R. MANIKANDAN, M.Tech, (Structures)
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CGLRGN/SE/Gr-I/2019/09/036
AURA ENGINEERING CONSULTANTS
13/27, 67th Street, R.V. Nagar,
Ashok Nagar, Chennai-600 083.
Ph: 044-48597100 Cell: 9790751378

BEAM SCHEDULE		
SL.NO	NAME	SIZE
01	B1	0'-9" x 1'-6"
02	B2	0'-9" x 1'-6"
03	B3	0'-9" x 1'-6"
04	B4	0'-9" x 1'-6"
05	B5	0'-9" x 1'-6"
06	B6	0'-9" x 1'-6"
07	B7	0'-4½" x 1'-0"
08	B8	0'-9" x 1'-6"
09	B9	0'-9" x 2'-0"



TYPICAL L.S OF ROOF BEAM



TYP. LAP SPLICE IN BEAM

GENERAL NOTES:
REMOVAL OF FORM WORK (SHUTTERING):

THE FOLLOWING MINIMUM PERIOD (AFTER FINAL POUR) SHALL BE ALLOWED BEFORE REMOVAL OF SHUTTERING AS PER CLAUSE 11.3.1 OF IS456 : 2000

A. VERTICAL SIDE OF SHUTTERING OF COLUMNS, WALLS AND & BEAMS ----------24 HOURS.

B. BOTTOM SHUTTERING OF SLABS (KEEP THE PROPS UNDER) ----------3 DAYS.

C. BOTTOM SHUTTERING OF BEAMS (KEEP THE PROPS UNDER) ----------7 DAYS.

D. BOTTOM PROPS TO SLAB
I) SPANNING UP TO 4.50M ----------7 DAYS.
II) SPANNING OVER 4.50M ----------14 DAYS.

E. BOTTOM PROPS TO BEAMS
I) SPANNING UP TO 6.00M ----------14 DAYS.
II) SPANNING OVER 6.00M ----------21DAYS.

LAP JOINTS FOR REINFORCEMENT BARS:

I). AT ANY CROSS SECTION OF A MEMBER NOT MORE THAN 50% OF THE BARS SHALL BE LAPPED.

II). LAPS SHALL BE STAGGERED WITH A MINIMUM CENTRE TO CENTRE DISTANCE OF 1.3 TIMES THE LAP LENGTH OF THE BAR FOR TENSION AND COMPRESSION MEMBERS.

III). LAPS IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF FLOOR AND NOT AT SLAB LEVEL.

IV). LAPS IN BEAM AND SLAB SHALL BE PROVIDED AT THE POINT OF CONTRAFLEXURE.

V). WELDING OF BARS SHALL BE DONE AS A STITCH WELD FOR 5 TIMES THE DIAMETER OF BAR AND A GAP OF 5 TIMES OF BAR AND AGAIN WELDING FOR ANOTHER 5 TIMES DIAMETER OF BAR USING ARC WELDING AND SPECIAL ELECTRODES AFTER GETTING PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL CONSULTANT.

VI). DETAILING OF REBARS SHALL CONFIRM TO SP-34 & IS 13920.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN FOOT UNITS.
2. CONCRETE GRADE SHALL BE M25 CONFIRMING TO IS 456:2000
3. GRADE OF REINFORCEMENT MARKED THUS (Y) SHALL BE Fe 500 CONFIRMING TO IS 1786-2008
4. CLEAR COVER FOR REINFORCEMENT
   A) BEAM = 1" B) SLAB = 3/4"
5. THIS DRG. READ IN CONJECTION WITH ARCH.DRGS.
6. STRUCTURAL ENGINEER RESPONSIBILITY IS LIMITED TO DESIGN & ISSUAL OF STRUCTURAL DRAWING ONLY

REV.	DESCRIPTIONS	DRN	CHK	DATE
00	ISSUE FOR APPROVAL	R.S	R.M	15.07.25

PROJECT :-
PROPOSED CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING IN PLOT NO.2A, T.S NO:33, WARD NO. D, BLOCK NO. 23 AT NAMAKKAL VILLAGE, NAMAKKAL TALUK, NAMAKKAL CORPORATION, NAMAKKAL DISTRICT.
(ONLINE APPLICATION NO: SWP/BPA/0551197/2025)
SWP/ DTCP/ NKL/ BP NO: 29/2025

DRAWING TITLE :-
R.C DETAILS OF TERRACE FLOOR BEAM

DATE	SCALE	JOB.NO	DRG.NO
15.07.25	1" : 9'	------	009

ARCHITECT / CONSULTANTS :-
DESIGN POV
ARCHITECTURE & INTERIOR DESIGN
POV Interiors Private Limited
No.33, Conran Smith Road, Gopalapuram, Chennai - 600 086
Mb: +91 73053 77709 | info@designpov.in | http://designpov.in

STRUCTURAL CONSULTANTS :-
AURA ENGINEERING CONSULTANTS
#8, 50th St, Sarvamangala Colony, 7th Avenue,
ASHOK NAGAR, CHENNAI- 600 083.
Fixed Line :- 044 4859 7100
projects.auraengg@gmail.com
projects@auraengineers.co.in
http://auraengineers.co.in/
aura Engineering Consultants

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
3/350/2 Mettukuppam,
OMR Thoraipakkam,
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.