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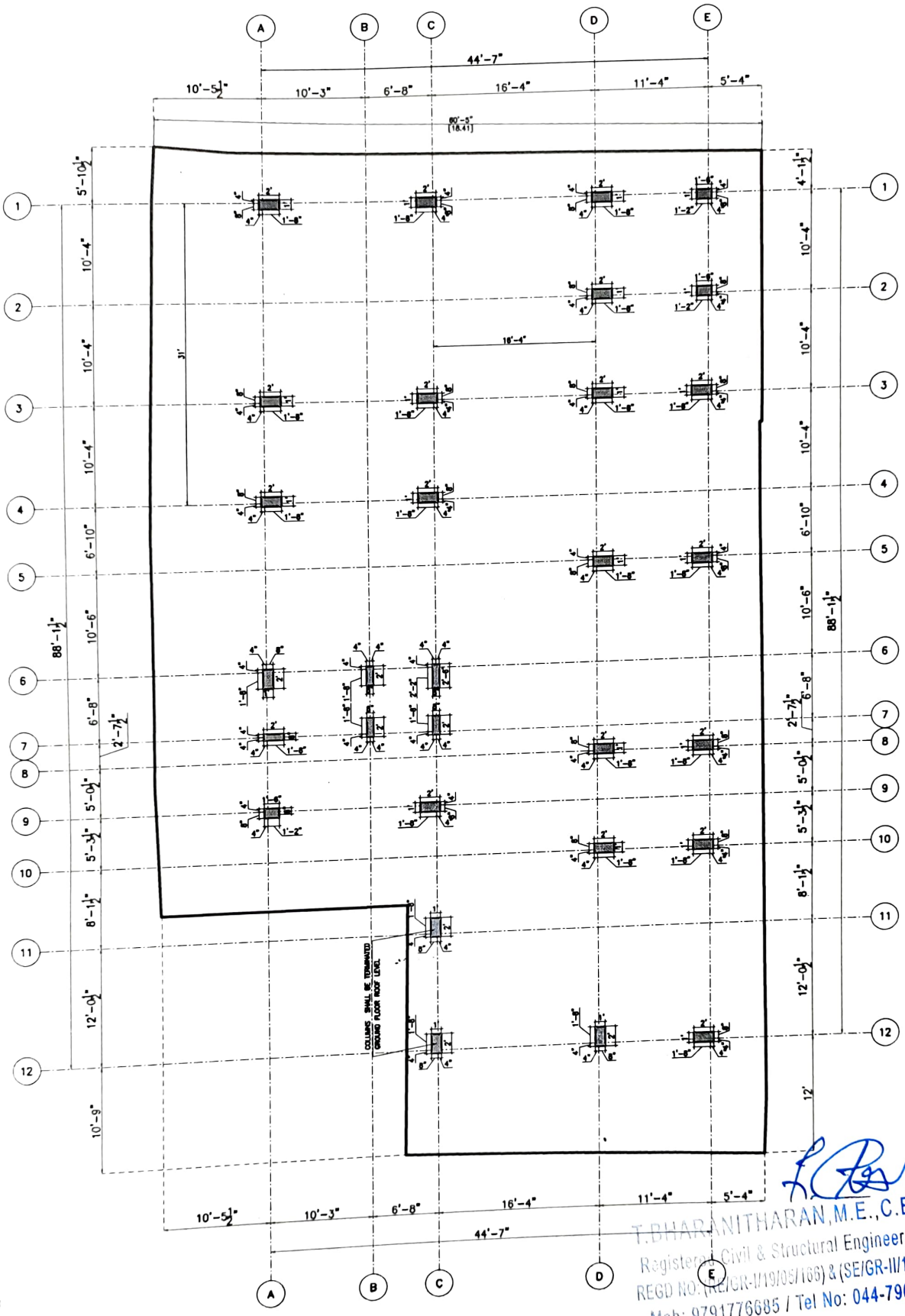
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DIGITALLY VERIFIED RECORD

R0	GOOD FOR CONSTRUCTION	02-05-2025	TBN



T.BHARANITHARAN, M.E., C.Eng(I)
Registered Civil & Structural Engineer, CMDA
REGD NO: (RE/GR-II/19/05/168) & (SE/GR-II/19/04/036)
Mob: 9791776685 / Tel No: 044-79670563

N
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LAYOUT OF COLUMN SETTING OUT PLAN

LEGENDS

- ■ – COLUMNS
- —— – COLUMN CENTRELINE
- —— – SITE BOUNDRY

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 1 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	02-05-2025		TBN	02-05-2025		R0

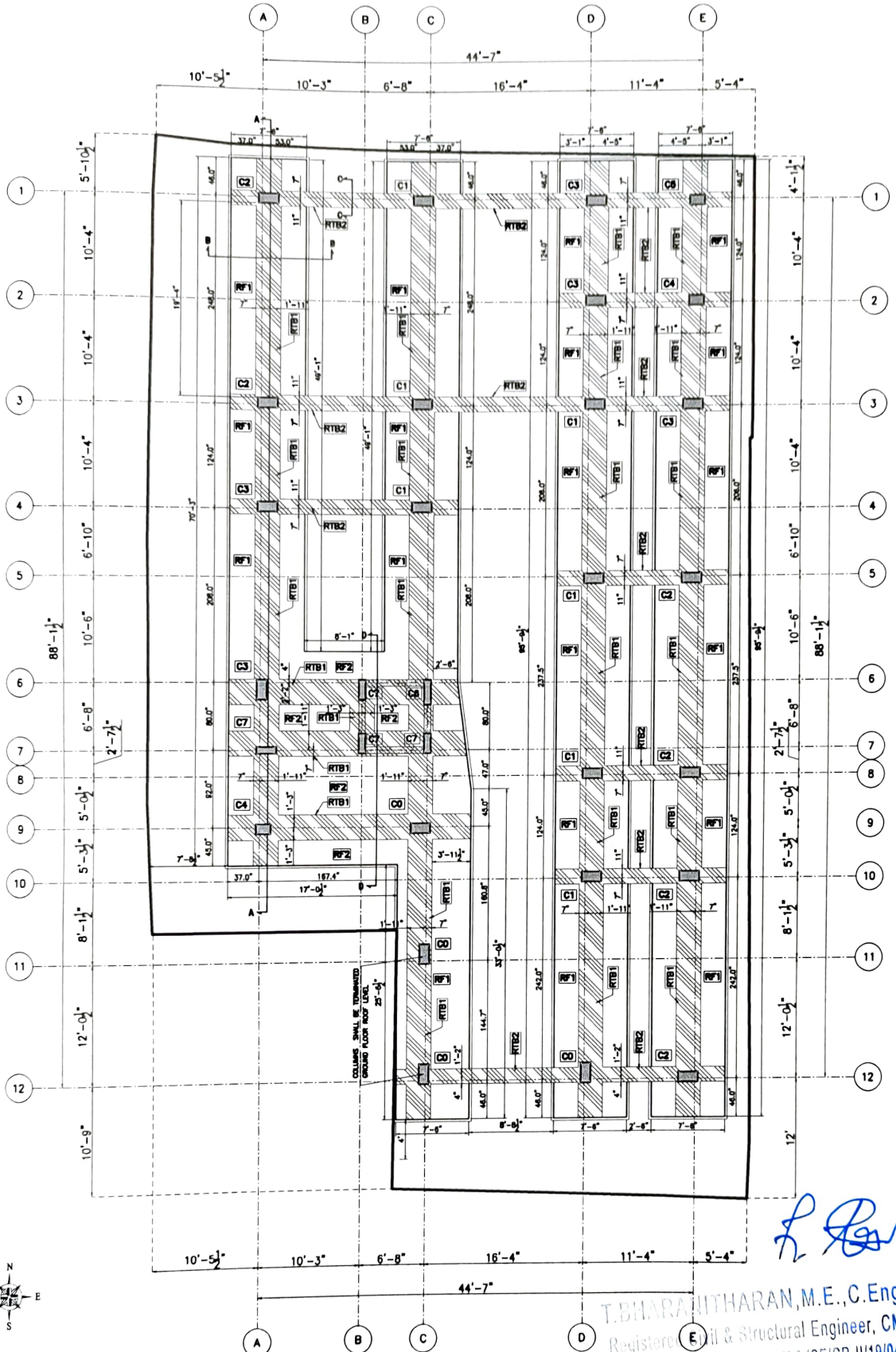
PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF COLUMN SETTING OUT PLAN

CLIENT: ----

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road, Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685.
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LAYOUT OF RAFT / STRIP FOOTINGS

NOTE:-

ALL EXISTING CHAMBER MUST BE REMOVED BEFORE COMMENCING CONSTRUCTION.

IF EXISTING BOREHOLE LIES IN THE FOOTING AREA WHICH INTERCEPTS WITH RAFT BEAMS SHALL BE TERMINATED BEFORE CONSTRUCTION.

IF EXISTING BOREHOLE LIES IN THE FOOTING FLANGE AREA A SUITABLE PVC SLEEVE CAN BE ADOPTED

ALL EXISTING SUBSTRUCTURE OF THE PREVIOUS BUILDING MUST BE EXCAVATED AND REMOVED

LEGENDS

- C1 – COLUMNS
- —— – COLUMN CENTRELINE
- —— – SITE BOUNDRY

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 2 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	02-05-2025		TBN	02-05-2025		R0

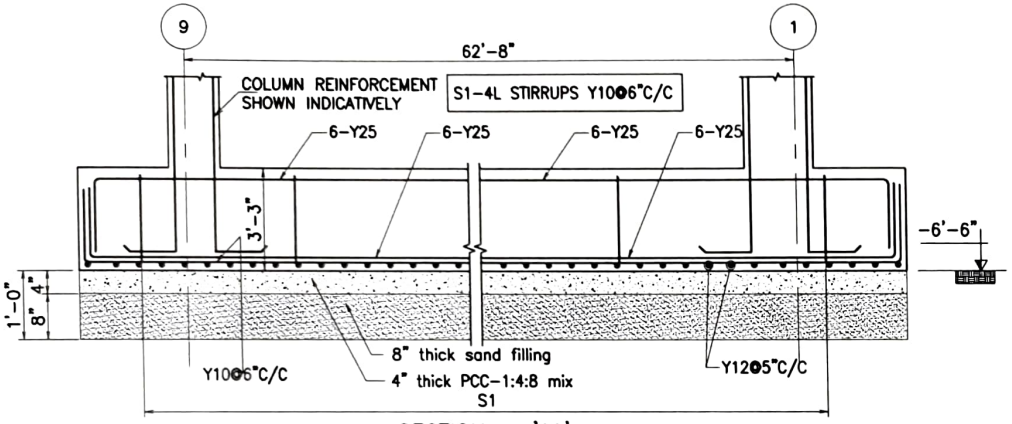
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LAYOUT OF RAFT / STRIP FOOTINGS

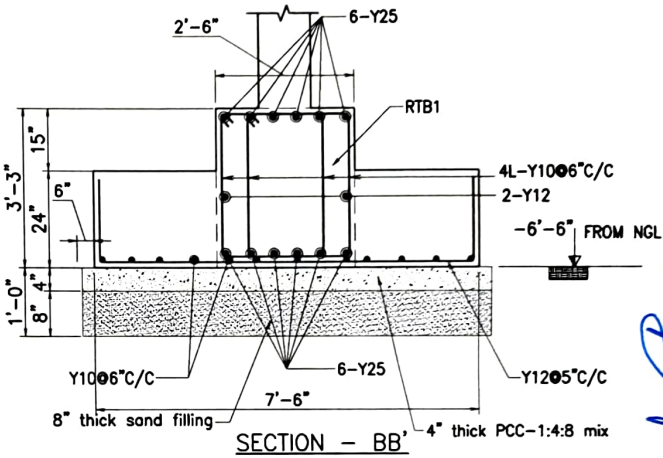
CLIENT: ----

CONSULTANT:
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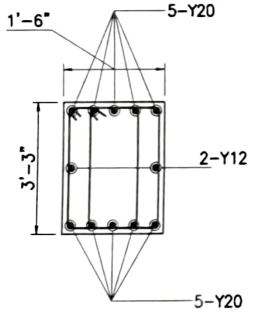
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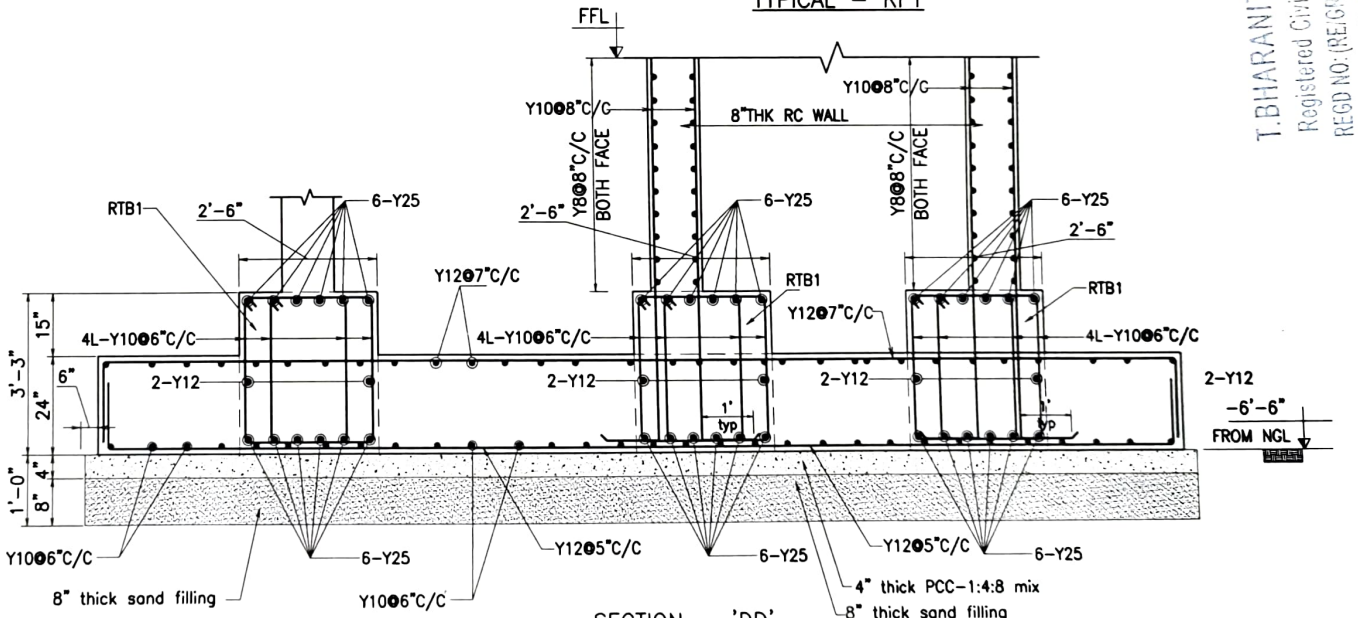
SECTION – 'AA'



SECTION – BB'
TYPICAL – RF1



SECTION – 'CC'
TYPICAL – RTB2



SECTION – 'DD'
TYPICAL – RF2

GENERAL NOTES:-

1. All dimenstion are in feet & inches.
2. Structural consultant not responsible violation of any structural details for
3. All laps should be staggered. (50xdia.)
4. Clear cover for:
   a. Footing = 50mm
   b. Column = 40mm
6. Sand filling and PCC can be laid commonly for footings which are much closer to each other but structural concrete must be separated by a wooden plank/paper joint.
7. Any descripencies should be produced to the Engineer's immediately notice before execution.

LEGEND

- ℄ : CENTRE LINE
- NGL : NATURAL GROUND LEVEL
- FFL : FINISHED FLOOR LEVEL
- TYP. : TYPICAL
- ■ : COLUMN

FOOTINGS ARE DESIGNED ONLY FOR S+5 FLOORS.

As shown in Architectural drawing

MATERIAL STRENGTH

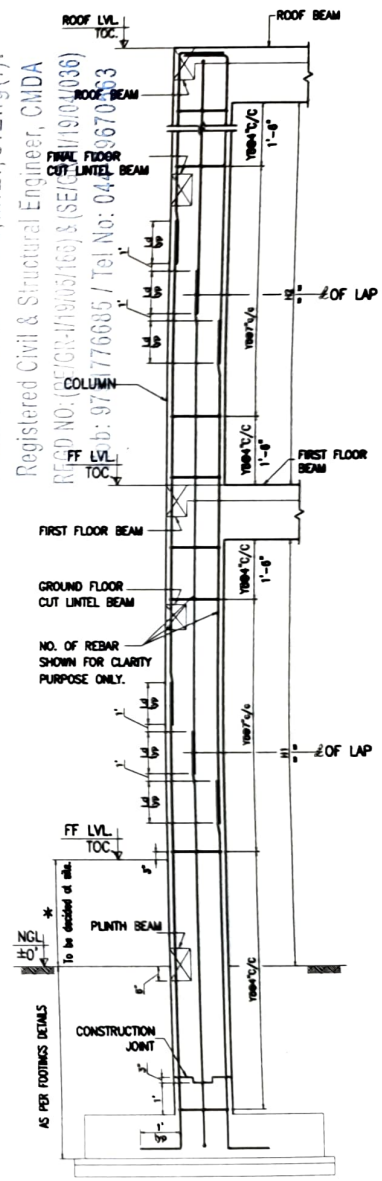
1. Grade of concrete – M30

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JOB NO: KAAF0001	All dimensions are in Feets and Inches						Sheet: 3 (A3 SHEET)	
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PROPOSED RESIDENTIAL AT CHOOLAIMEDU		CLIENT: ----		CONSULTANT: KURAL ASSOCIATES				

R0	GOOD FOR CONSTRUCTION			02/05/2025	TBN

COLUMN NO.	NOS.	FROM FOUNDING LEVEL TO GROUND FLOOR ROOF LEVEL	FROM GROUND FLOOR ROOF LEVEL TO SECOND FLOOR ROOF LEVEL	FROM SECOND FLOOR ROOF LEVEL TO FOURTH FLOOR ROOF LEVEL	FROM FOURTH FLOOR ROOF LEVEL TO TERRACE FLOOR LEVEL	REMARKS
C0	4	2'-0" 1' 'a'-4-Y20 'b'-4-Y16 'c'-4-Y20 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y20 'b'-8-Y16 'c'-2-Y16 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y20 'b'-8-Y16 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y16 'b'-8-Y16 'S1'-Y8@4"/C/C	GRID NO: C11 & C12--COLUMN SHALL BE TERMINATED AT GROUND FLOOR ROOF LEVEL. COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C1	7	2'-0" 1' 'a'-4-Y20 'b'-8-Y16 'c'-2-Y20 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y20 'b'-8-Y16 'c'-2-Y16 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y20 'b'-8-Y16 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y16 'b'-8-Y16 'S1'-Y8@4"/C/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C2	6	2'-0" 1' 'a'-4-Y20 'b'-8-Y16 'c'-2-Y16 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y20 'b'-8-Y16 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y16 'b'-8-Y16 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y16 'b'-8-Y12 'S1'-Y8@4"/C/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C3	5	2'-0" 1' 'a'-4-Y16 'b'-8-Y16 'c'-2-Y16 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y16 'b'-8-Y16 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y16 'b'-8-Y12 'S1'-Y8@4"/C/C	2'-0" 1' 'a'-4-Y12 'b'-8-Y12 'S1'-Y8@4"/C/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C4	2	1'-6" 1' 'a'-4-Y16 'b'-4-Y16 'c'-2-Y16 'S1'-Y8@4"/C/C	1'-6" 1' 'a'-4-Y16 'b'-4-Y16 'S1'-Y8@4"/C/C	1'-6" 1' 'a'-4-Y16 'b'-4-Y12 'S1'-Y8@4"/C/C	1'-6" 1' 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/C/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C5	1	1'-6" 1' 'a'-4-Y16 'b'-4-Y12 'S1'-Y8@4"/C/C	1'-6" 1' 'a'-4-Y16 'b'-4-Y12 'S1'-Y8@4"/C/C	1'-6" 1' 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/C/C	1'-6" 1' 'a'-4-Y12 'b'-4-Y12 'S1'-Y8@4"/C/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C6	1	2'-6" 6" 'a'-4-Y20 'b'-4-Y20 'c'-2-Y20 'S1'-Y8@4"/C/C	2'-6" 6" 'a'-4-Y20 'b'-4-Y20 'c'-2-Y16 'S1'-Y8@4"/C/C	2'-6" 6" 'a'-4-Y20 'b'-4-Y16 'c'-2-Y16 'S1'-Y8@4"/C/C	2'-6" 6" 'a'-4-Y20 'b'-4-Y16 'c'-2-Y16 'S1'-Y8@4"/C/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL
C7	4	2'-0" 6" 'a'-4-Y16 'b'-8-Y12 'S1'-Y8@4"/C/C	2'-0" 6" 'a'-4-Y16 'b'-8-Y12 'S1'-Y8@4"/C/C	2'-0" 6" 'a'-4-Y12 'b'-8-Y12 'S1'-Y8@4"/C/C	2'-0" 6" 'a'-4-Y12 'b'-8-Y12 'S1'-Y8@4"/C/C	COLUMNS SHALL BE TERMINATED TERRACE LEVEL



Typical column details.

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RAL NOTES:-

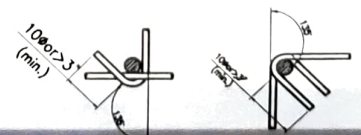
dimenstion are in feet & inches.
uctural consultant not responsible
violation of any structural details
laps should be staggered.

4. Clear cover for:
a. Column = 40mm
5. Any descripencies should be immediately produced to the Engineer's notice before execution.

NOTES:
1.REFER TYPICAL COLUMN DETAIL FOR CLARIFICATIONS ABOUT TIES AND LINKS SPACING.
2.REFERENCE DRAWINGS:
SHEET-1, SHEET-2, SHEET-3,

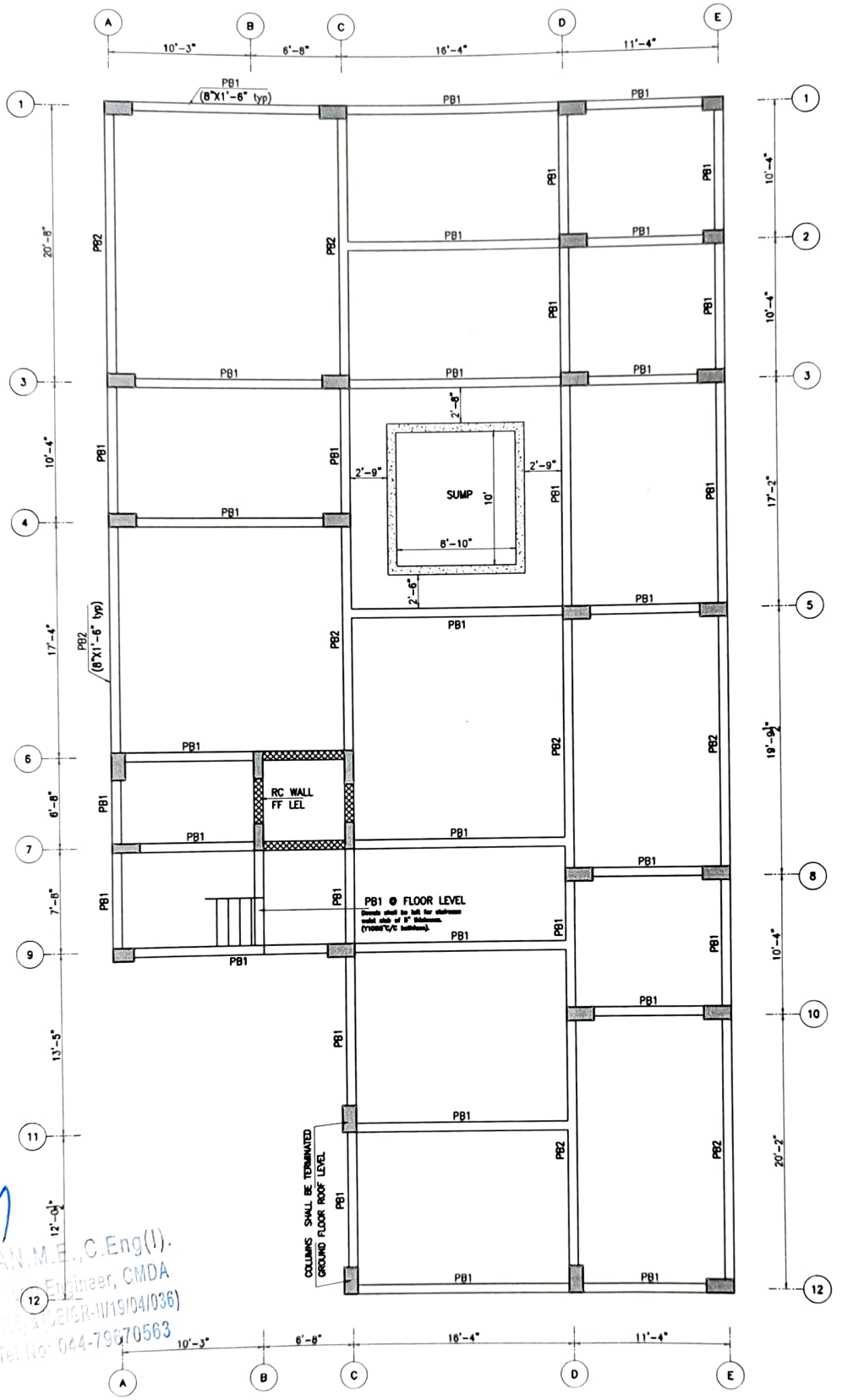
MATERIAL STRENGTH
I.Grade of concrete - M40
II.Grade of steel - fe 500

FOOTINGS ARE DESIGNED ONLY FOR S+5 FLOORS.



JOB NO: KAAF0001	All Dimensions are in feets and inches			Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by - date TBN - 02/05/2025	Filename	Date 02/05/2025 / Scale 1:7.2
PROPOSED RESIDENTIAL AT CHOOLAIMEDU	LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF COLUMNS			

R0	GOOD FOR CONSTRUCTION		02/05/2025	TBN



LAYOUT OF PLINTH BEAMS AT NGL

HARANITHARAN.M.E.,C.Eng(I).
Engineer, CMDA
(LEICER-III/19/04/036)
Tel No: 044-79670563

NOTE:
1. Clear cover = 30mm
2. All laps shall be 50ø
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. 3" thick sand and pcc layers shall be laid below all beams.

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
	:	COLUMN
—	:	COLUMN CENTERLINE
—	:	SITE BOUNDARY

JOB NO: KAAF0001 | All dimensions are in Feets and Inches | Sheet: 5 (A3 SHEET)

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PROPOSED RESIDENTIAL AT CHOOLAIMEDU

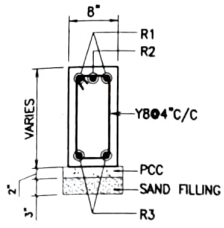
LAYOUT OF REINFORCEMENT DETAILS OF PLINTH BEAMS

CLIENT: ----

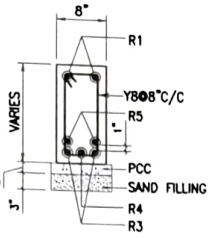
CONSULTANT:

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Conception to Execution
NO.3/1517, Mugalivakkam Main Road, Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

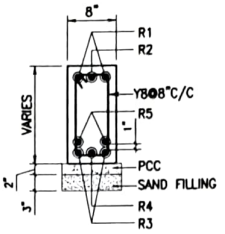
R0	GOOD FOR CONSTRUCTION	02/05/2025	TBN



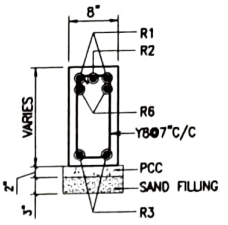
SECTION 1–1



SECTION 2–2

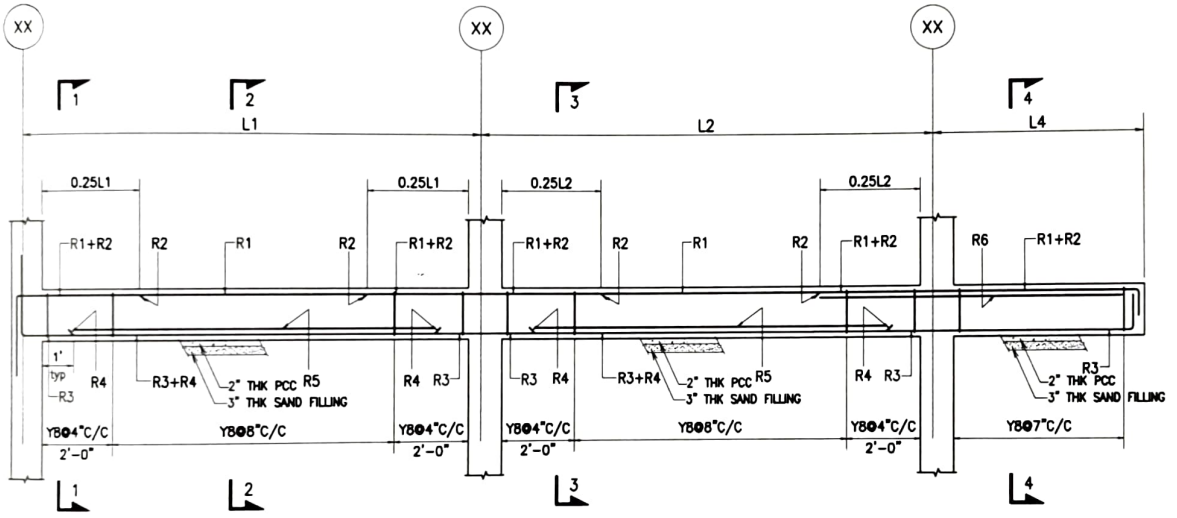


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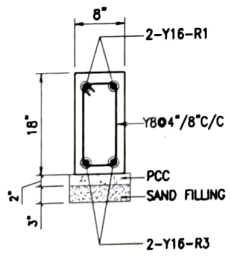


SECTION 4–4

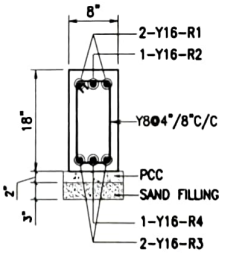
NOTE:
SECTION 1–1,2–2,3–3&4–4 ARE ONLY FOR EXPLANATORY PURPOSE.



TYPICAL PLINTH BEAM DETAILS



C.S OF PB1
[8"X1'–6"]



C.S OF PB2
[8"X1'–6"]

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Mob: 9791776685 / Tel No: 044-79670563

ATERIAL STRENGTH
Grade of concrete - M30
Grade of steel - fe 500

END
- CENTRE LINE
- NATURAL GROUND LEVEL
- FINISHED FLOOR LEVEL
- TYPICAL
- COLUMN
- COLUMN CENTERLINE
- SITE BOUNDARY

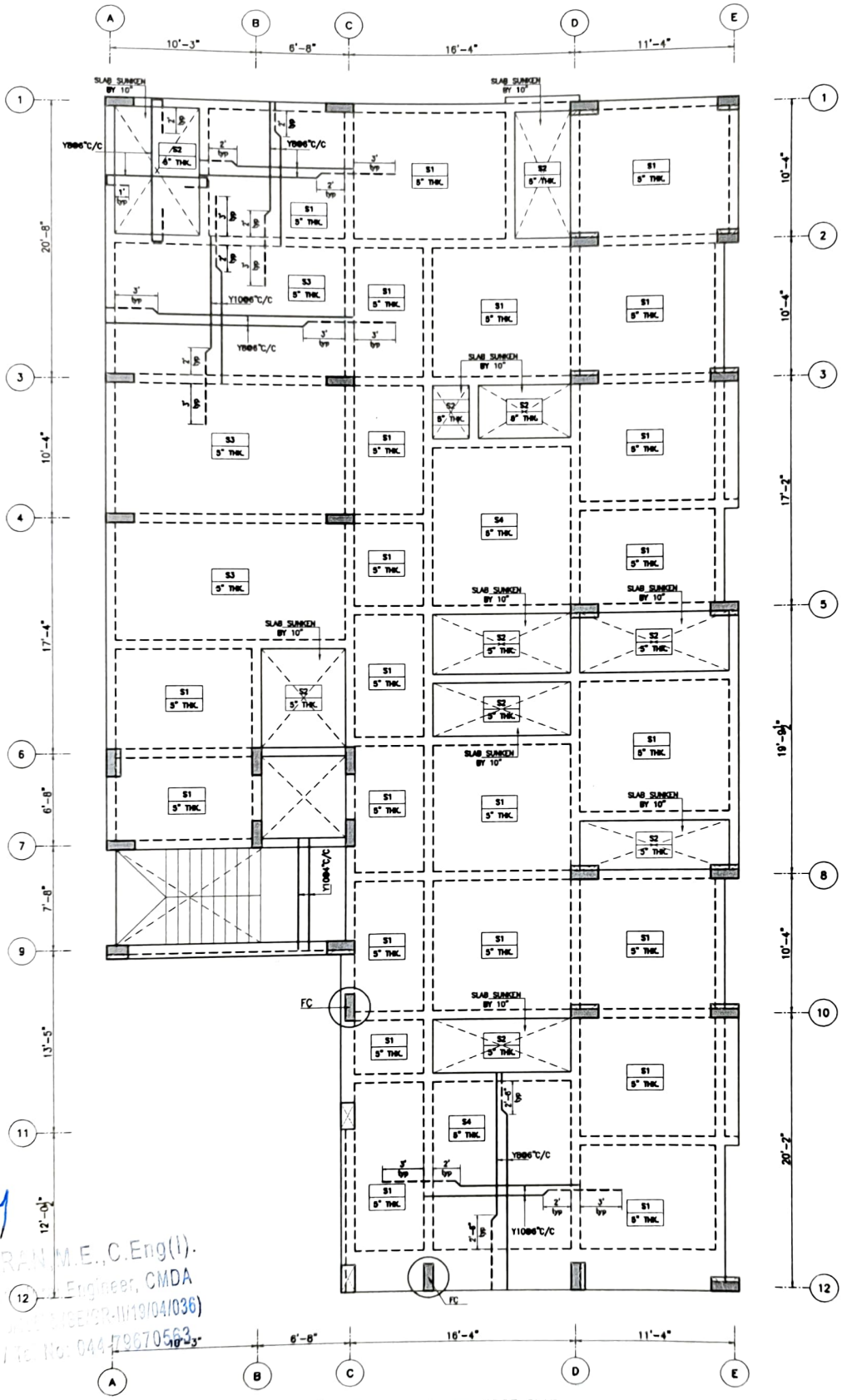
NOTE:
1. Clear cover = 30mm
2. All laps shall be 50ø
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. 3" thick sand and pcc layers shall be laid below all beams.

JOB NO: KAAF0001		All dimensions are in Feets and Inches				Sheet: 8 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
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PROPOSED RESIDENTIAL AT CHOOLAIMEDU	CLIENT: ----
LAYOUT OF REINFORCEMENT DETAILS OF PLINTH BEAMS	

CONSULTANT:
KURAL ASSOCIATES
Innovation by Association
NO.3/1517, Mugaiyavalasam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42864312. MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	01/05/2025	TBN



LAYOUT OF GROUND FLOOR ROOF SLAB

BHARATHITHARAN, M.E., C.Eng(I).
Registered Engineer, CMDA
GD NO: [illegible] (GE/GR/IW19/04/036)
Mob: [illegible] Tele No: 044-42670563

NOTE:

1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet–14.
2. Clear cover = 15mm.
3. — Denotes top reinforcement of slab
4. — Denotes bottom reinforcement of slab
5. Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
■	:	COLUMN
—	:	COLUMN CENTERLINE
▬	:	SITE BOUNDARY

JOB NO: KAAF0001	All dimensions are in Feets and Inches					Sheet: 7 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01-05-2025		TBN	01-05-2025		R0

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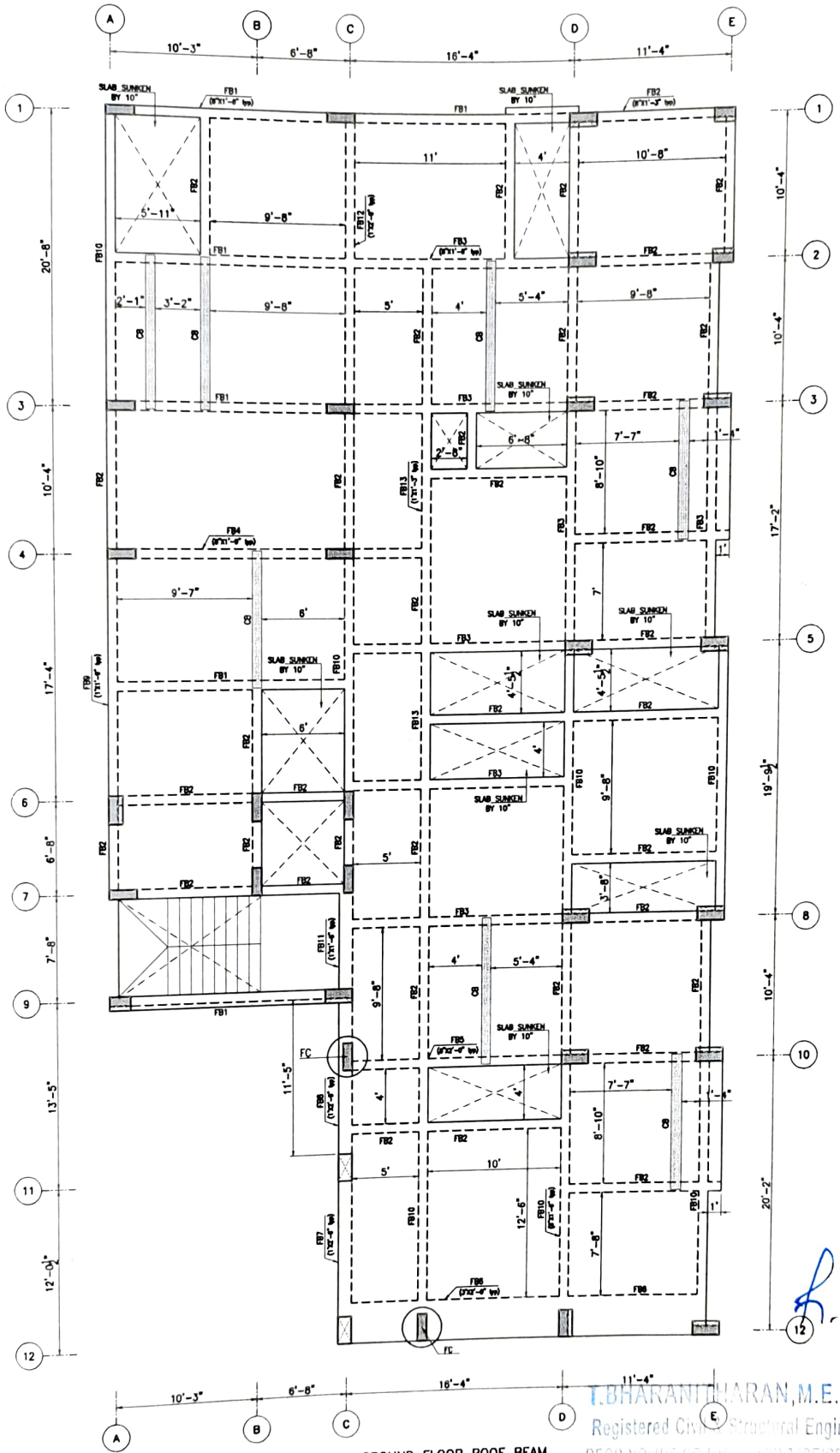
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF GROUND FLOOR ROOF SLAB

CLIENT: ----

CONSULTANT:

KURAL ASSOCIATES
Perception to Execution
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R0	GOOD FOR CONSTRUCTION	01/05/2025	TBN



LAYOUT OF GROUND FLOOR ROOF BEAM

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Registered Civil & Structural Engineer, CMDA
REGD NO: (R/GR-I/[illegible]/SE/GR-II/19/04/036)

NOTE:

1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet–14.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggere

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
	:	COLUMN
	:	COLUMN CENTERLINE
	:	SITE BOUNDARY

JOB NO: KAAF0001 — All dimensions are in Feets and Inches — Sheet:8 (A3 SHEET)

Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
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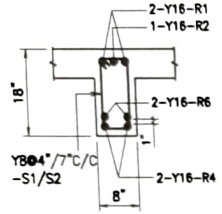
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LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF GROUND FLOOR ROOF BEAM

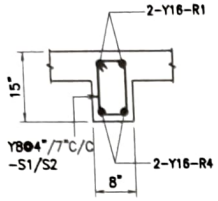
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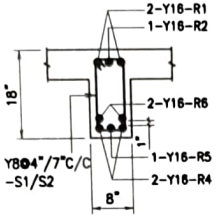
R0	GOOD FOR CONSTRUCTION	01/05/2025	TBN



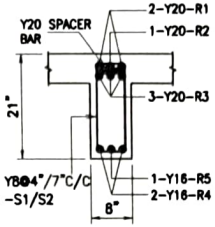
C.S OF FB1
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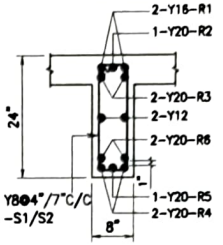
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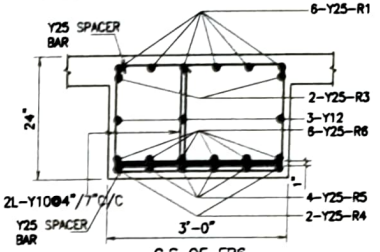
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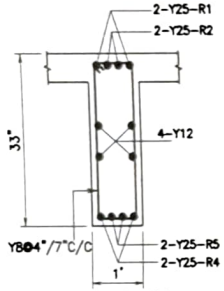
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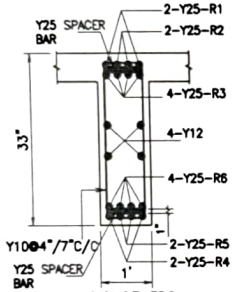
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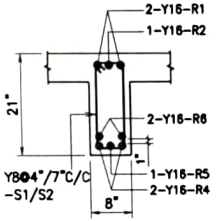
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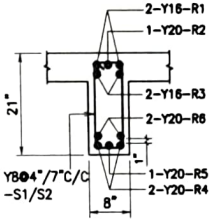
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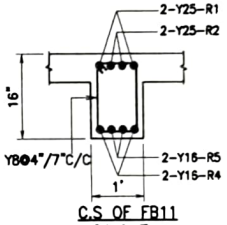
C.S OF FB8
[1'X2'-9"]



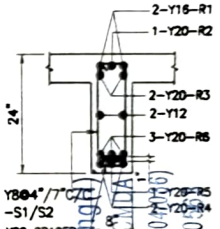
C.S OF FB9
[8"X1'-9"]



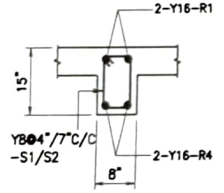
C.S OF FB10
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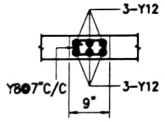
C.S OF FB11
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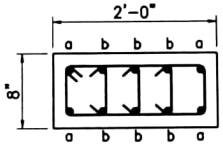
C.S OF FB12
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C.S OF FB13
[8"X1'-3"]

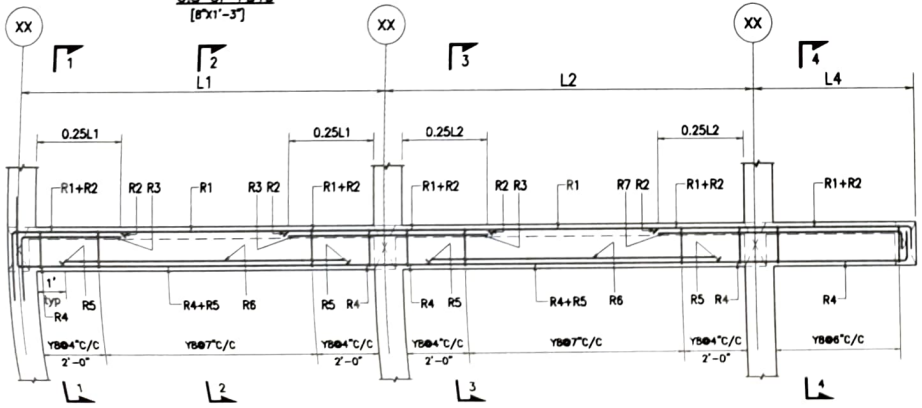


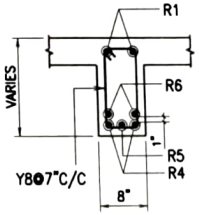
C.S OF CB
(CONCEALED BEAM)



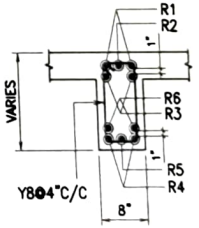
C.S OF FC
(FLOATING COLUMN)

NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.

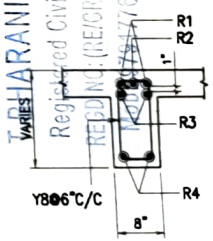




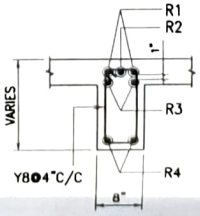
SECTION 2-2



SECTION 3-3



SECTION 4-4



NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

JOB NO: KAAT0001	All Dimensions are in feets and inches			Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by – date TBN – 01/05/2025	Filename [redacted]	Date 01/05/2025
				Scale 1:4

PROPOSED RESIDENTIAL AT CHOOLAIMEDU

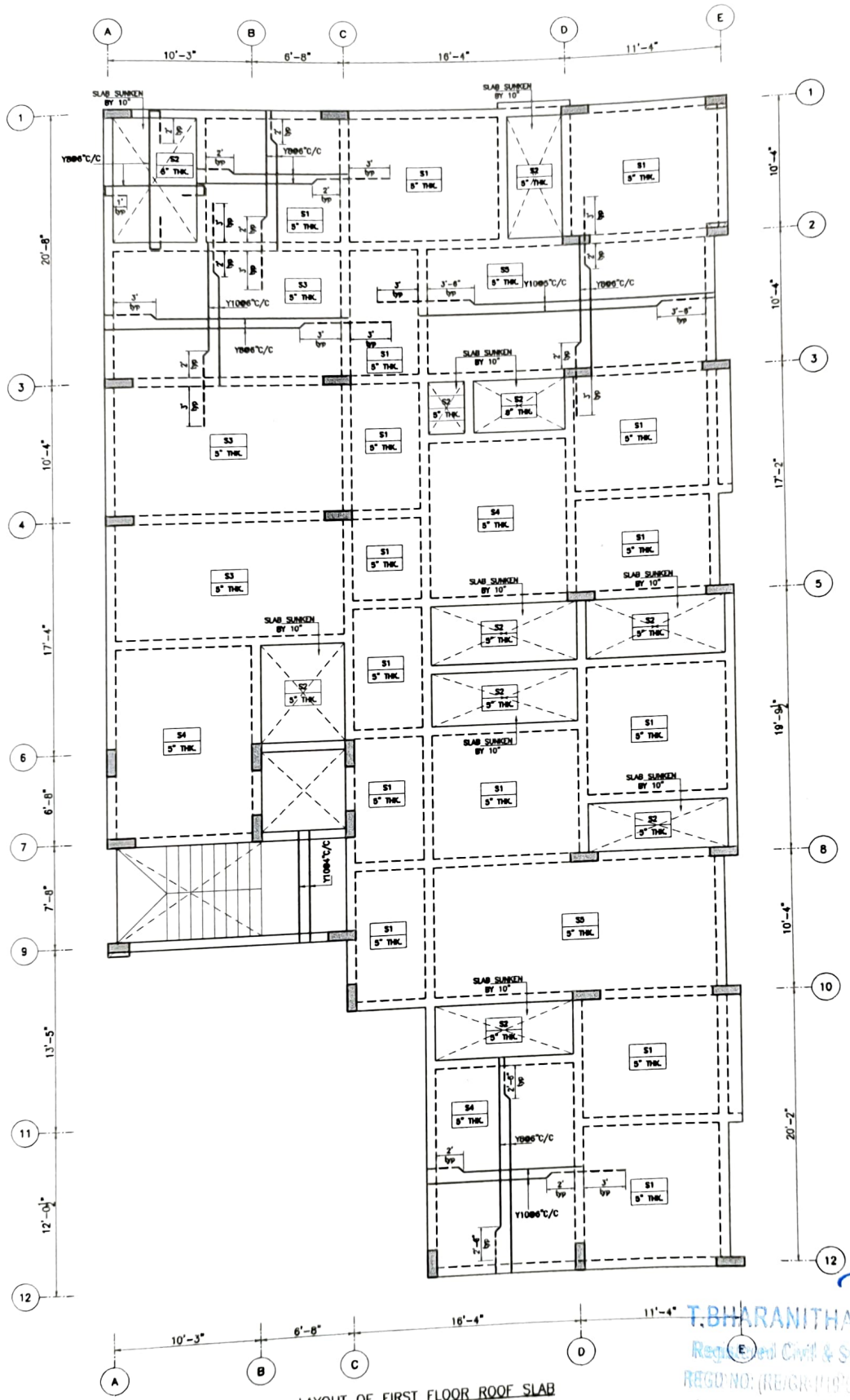
LAYOUT OF REINFORCEMENT DETAILS OF GROUND FLOOR ROOF BEAMS

NOTE:
SECTION 1-1,2-2,3-3&4-4 ARE ONLY FOR

TYPICAL FLOOR BEAM DETAILS

T.BHARANITHARAN,M.E.(Engg.)
Registered Civil & Structural Engineer, CHENNAI-9(0-4766)
REGD.NO:(RNE/CR-1113/2010)&(SE/CR-1/0-4766)
Tel No: 044-79677665 / 79677685

R0	GOOD FOR CONSTRUCTION	01/05/2025	TBN



LAYOUT OF FIRST FLOOR ROOF SLAB

T.BHARANITHARAN, M.E., C.Eng(I).
Registered Civil & Structural Engineer, CMDA
REGD NO: (RE/GR-III/19/04/036)
Mob: 9791776685 / Tel: 044-42866312

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
	:	COLUMN
	:	COLUMN CENTERLINE
	:	SITE BOUNDARY

NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-14.
2. Clear cover = 15mm.
3. — Denotes top reinforcement of slab
4. — Denotes bottom reinforcement of slab
5. Lap length=50ϕ and all laps must be staggered

JOB NO: KAAF0001 | All dimensions are in Feets and Inches | Sheet: 7 (A3 SHEET)

Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01-05-2025		TBN	01-05-2025		R0

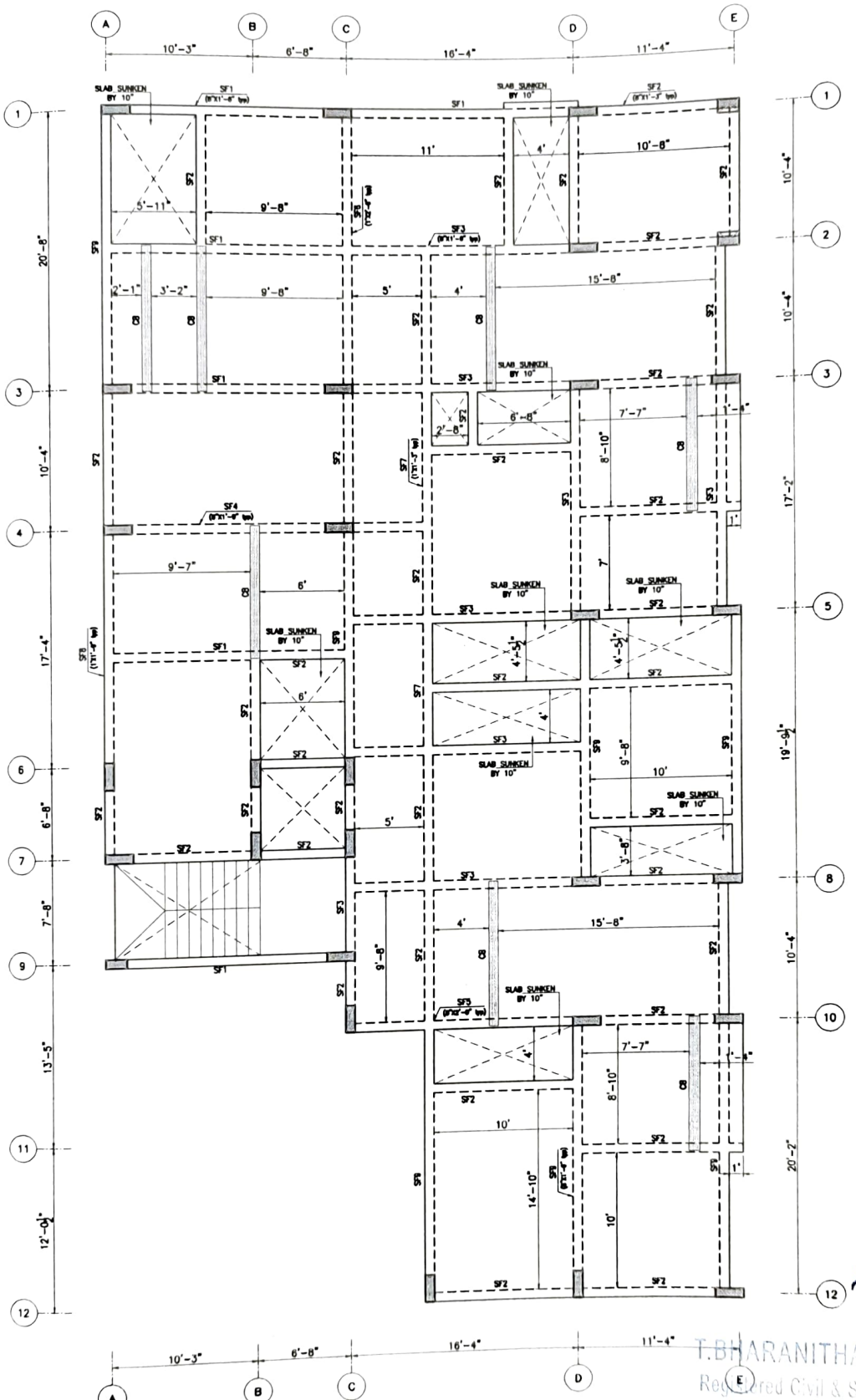
PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIRST FLOOR ROOF SLAB

CLIENT: ----

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1317, Mugalivakkam Main Road, Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	01/05/2025 TBN



LAYOUT OF FIRST FLOOR ROOF BEAM

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet–14.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggere

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
	:	COLUMN
—	:	COLUMN CENTERLINE
—	:	SITE BOUNDARY

JOB NO: KAAF0001 — All dimensions are in Feets and Inches — Sheet: 8 (A3 SHEET)

Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01-05-2025		TBN	01-05-2025		R0

PROPOSED RESIDENTIAL AT CHOOLAIMEDU

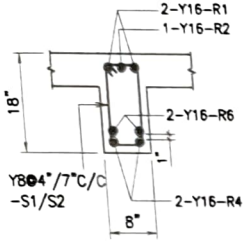
LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIRST FLOOR ROOF BEAM

CLIENT: ----

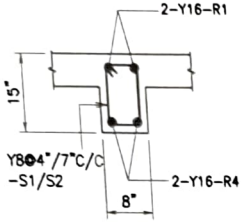
CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road, Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685.
Email:kuralassociates.engineers@gmail.com

T.BHARANITHARAN, M.E., C.Eng(I).
Registered Civil & Structural Engineer, CMDA
REGD NO:(RE/OR/M/C/85/1993)(SE/GR-II/19/01/086)
[illegible] 85 / To [illegible] 70568

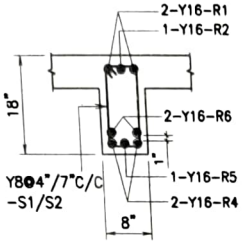
R0	GOOD FOR CONSTRUCTION	01/05/2025		TBN



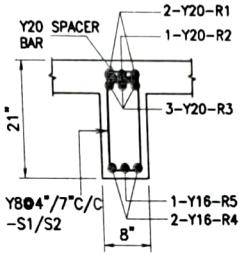
C.S OF SF1
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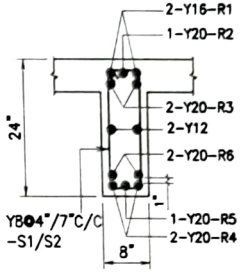
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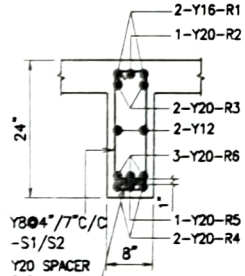
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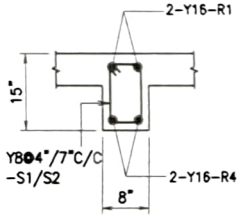
C.S OF SF4
[8"X1'-9"]



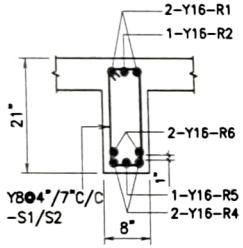
C.S OF SF5
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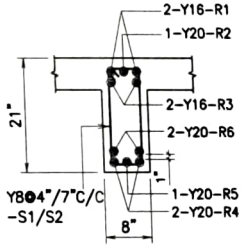
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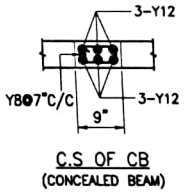
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C.S OF SF8
[8"X1'-9"]



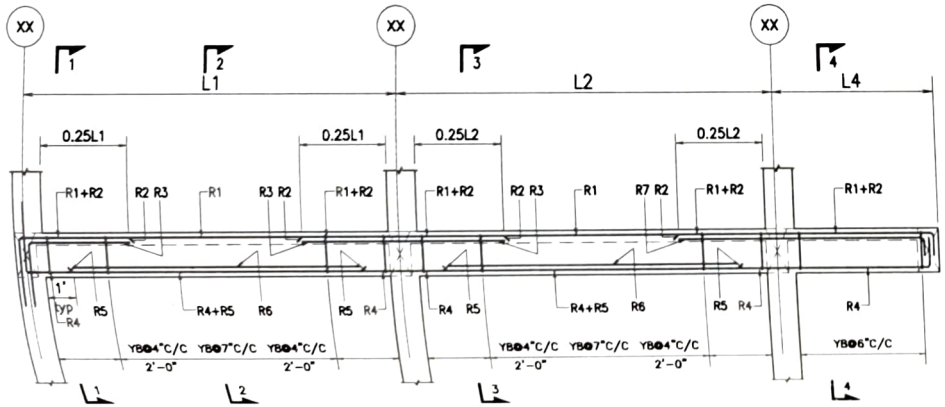
C.S OF SF9
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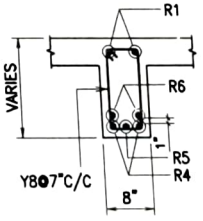
C.S OF CB
(CONCEALED BEAM)

NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.

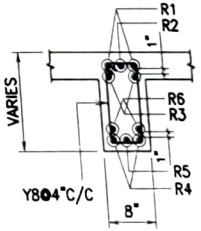
T.BHARANITHARAN,M.E.,C.Engg.
Registered Civil & Structural Engineer, CMDA
REGD NO:(RE/GR-IV/9063/TCC)&(SE/GR-III/19/04036)
Mob: 9791776635 / Tel No: 044-79670563



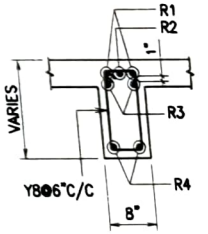
TYPICAL FLOOR BEAM DETAILS



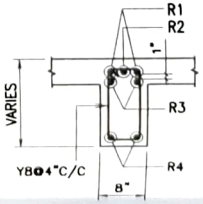
SECTION 2-2



SECTION 3-3



SECTION 4-4



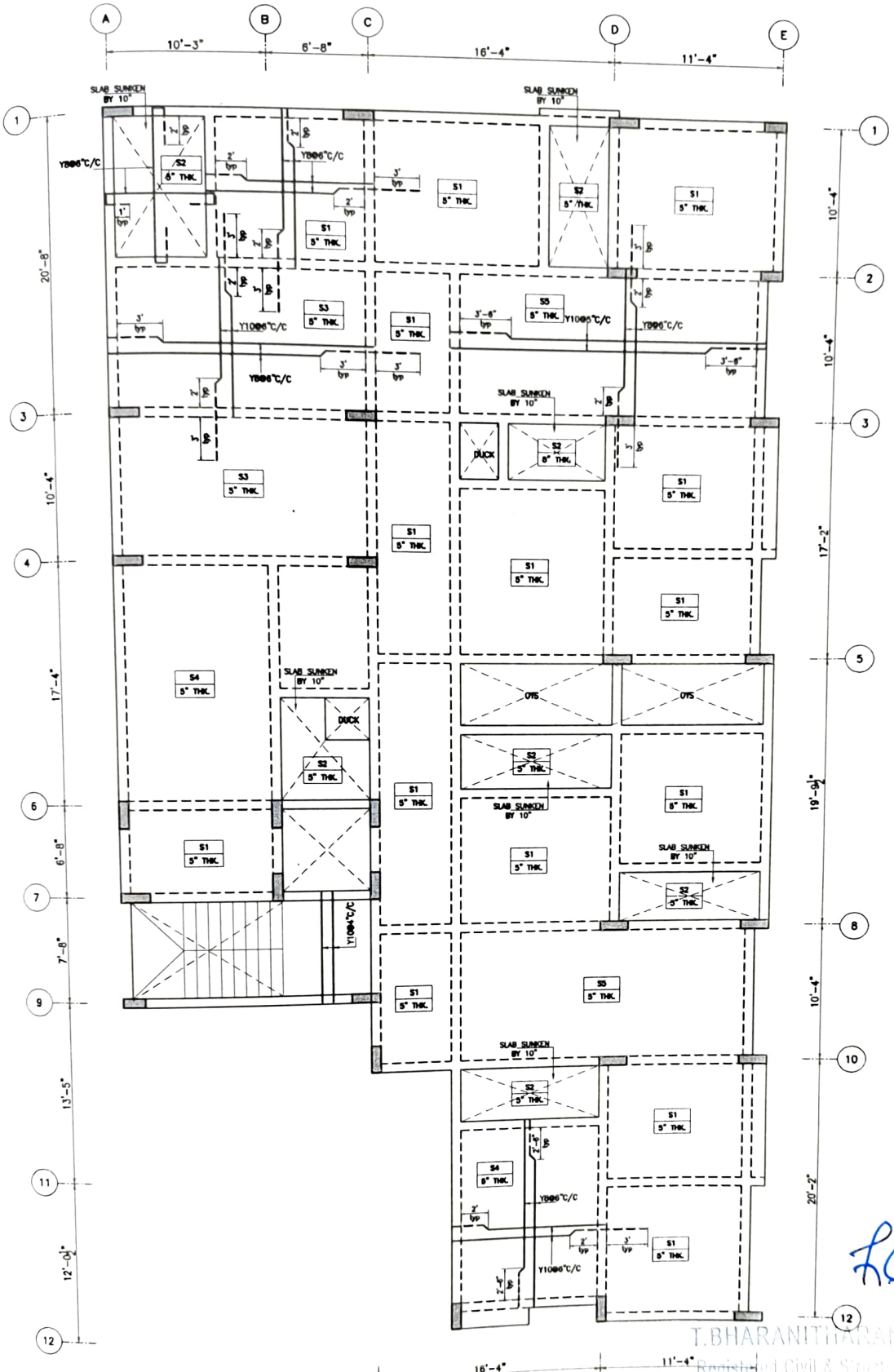
SECTION 1-1

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ϕ and all laps must be staggered

NOTE:
SECTION 1-1,2-2,3-3&4-4 ARE ONLY FOR

JOB NO: XXXT0001	All Dimensions are in feets and inches		Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by – date TBN – 01/05/2025	Filename	Date 01/05/2025	Scale 1:3.5
PROPOSED RESIDENTIAL AT CHOOLAIMEDU			LAYOUT OF REINFORCEMENT DETAILS OF FIRST FLOOR ROOF BEAMS
CLIENT:	CONSULTANTS: KURAL ASSOCIATES		Edition	Sheet

R0	GOOD FOR CONSTRUCTION	01/05/2025	TB



LAYOUT OF SECOND FLOOR ROOF SLAB

T.BHARANITHARAN, M.E., C.Eng(I).
Registered Civil & Structural Engineer, CMDA
REGD NO: RE/SR-III/13/05/168) & (SE/SR-III/19/04/036)
Mob: 9791776685 / Tel No: 044-79670563

NOTE:
1. Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-14.
2. Clear cover = 15mm.
3. — Denotes top reinforcement of slab
4. — Denotes bottom reinforcement of slab
5. Lap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
■	:	COLUMN
—	:	COLUMN CENTERLINE
—	:	SITE BOUNDARY

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 13 (A3 SHEET)	
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01-05-2025		TBN	01-05-2025		R0

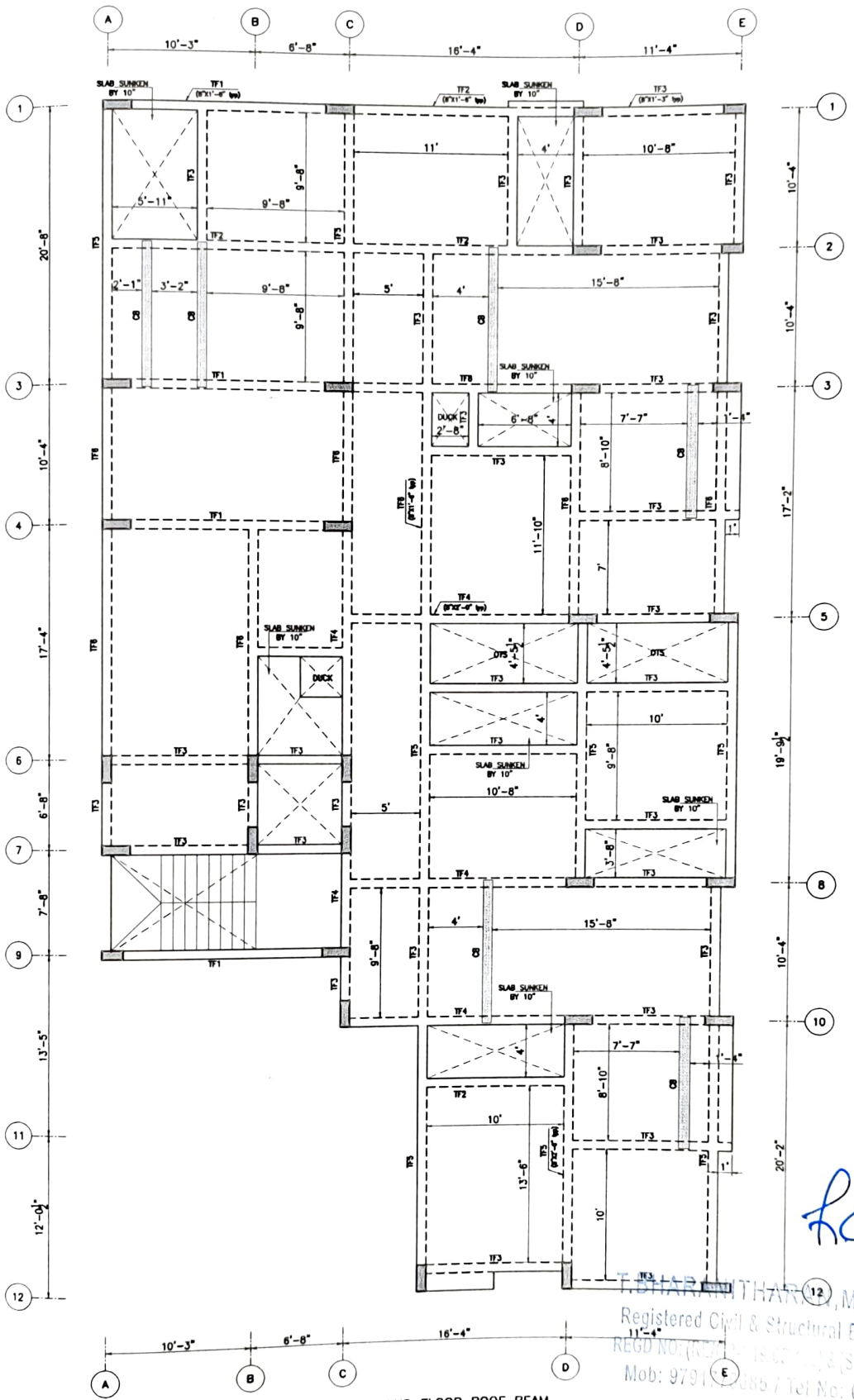
PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF SECOND FLOOR ROOF SLAB

CLIENT: ----

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugaliyakkam Main Road, Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776685
Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION	01/05/2025	TBN



LAYOUT OF SECOND FLOOR ROOF BEAM

T.BHARANITHARAN, M.E., C.Eng(I).
Registered Civil & Structural Engineer, CMDA
REGD NO: (R/[illegible]/1985 / [illegible]/S/E/R-II/19/04/036)
Mob: 9791[illegible]685 / Tel No: 044-79670563

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet–14.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggere

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
	:	COLUMN
	:	COLUMN CENTERLINE
	:	SITE BOUNDARY

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 14 (A3 SHEET)
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign / Revision
TBN		TBN	01-05-2025		TBN	01-05-2025	R0

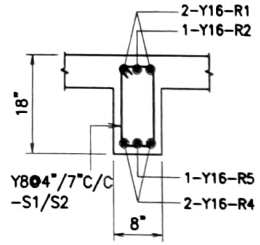
PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF SECOND FLOOR ROOF BEAM

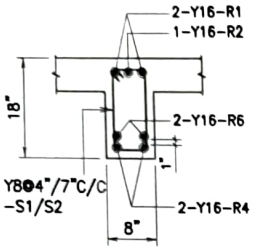
CLIENT: ----

CONSULTANT:
KURAL ASSOCIATES
Formerly Known as Associates
NO.3/1517, Mugaiyvaikkam Main Road, Madhanandhapuram, Porur, Chennai-125. PH:044-42866312. MOB:9791776655.
Email:kuralassociates.engineers@gmail.com

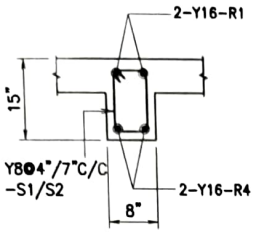
R0	GOOD FOR CONSTRUCTION	01/05/2025	TB



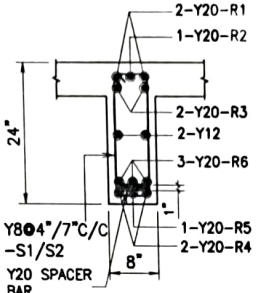
C.S OF TF1
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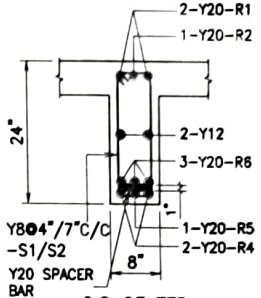
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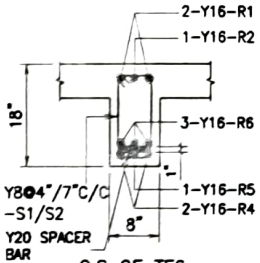
C.S OF TF3
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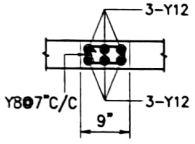
C.S OF TF4
[8"X2'-0"]



C.S OF TF5
[8"X2'-0"]



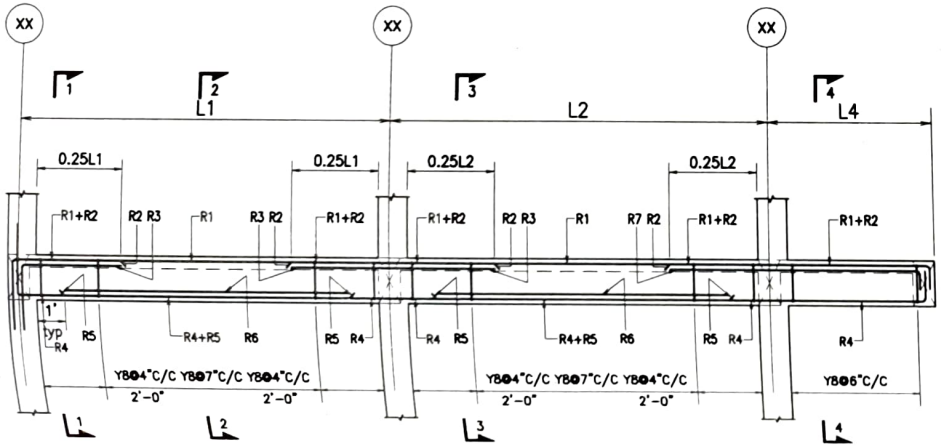
C.S OF TF6
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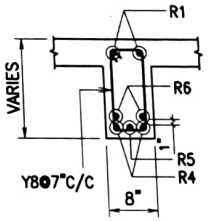
C.S OF CB
(CONCEALED BEAM)

NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.

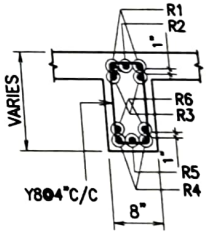
T.BHARANITHARAN,M.E.,C.Eng(I).
Registered Civil & Structural Engineer, CMDA
(REGD NO:(RISR/MS/0115) &(S/02-H/10/M/036)
Mob: 9791776685 / Tel No: 044-79071563



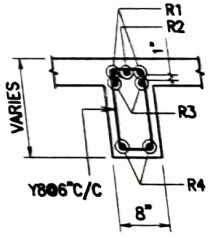
TYPICAL FLOOR BEAM DETAILS



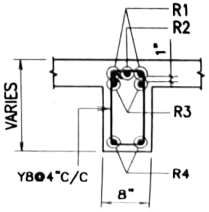
SECTION 2-2



SECTION 3-3



SECTION 4-4



SECTION 1-1

NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ϕ and all laps must be staggered

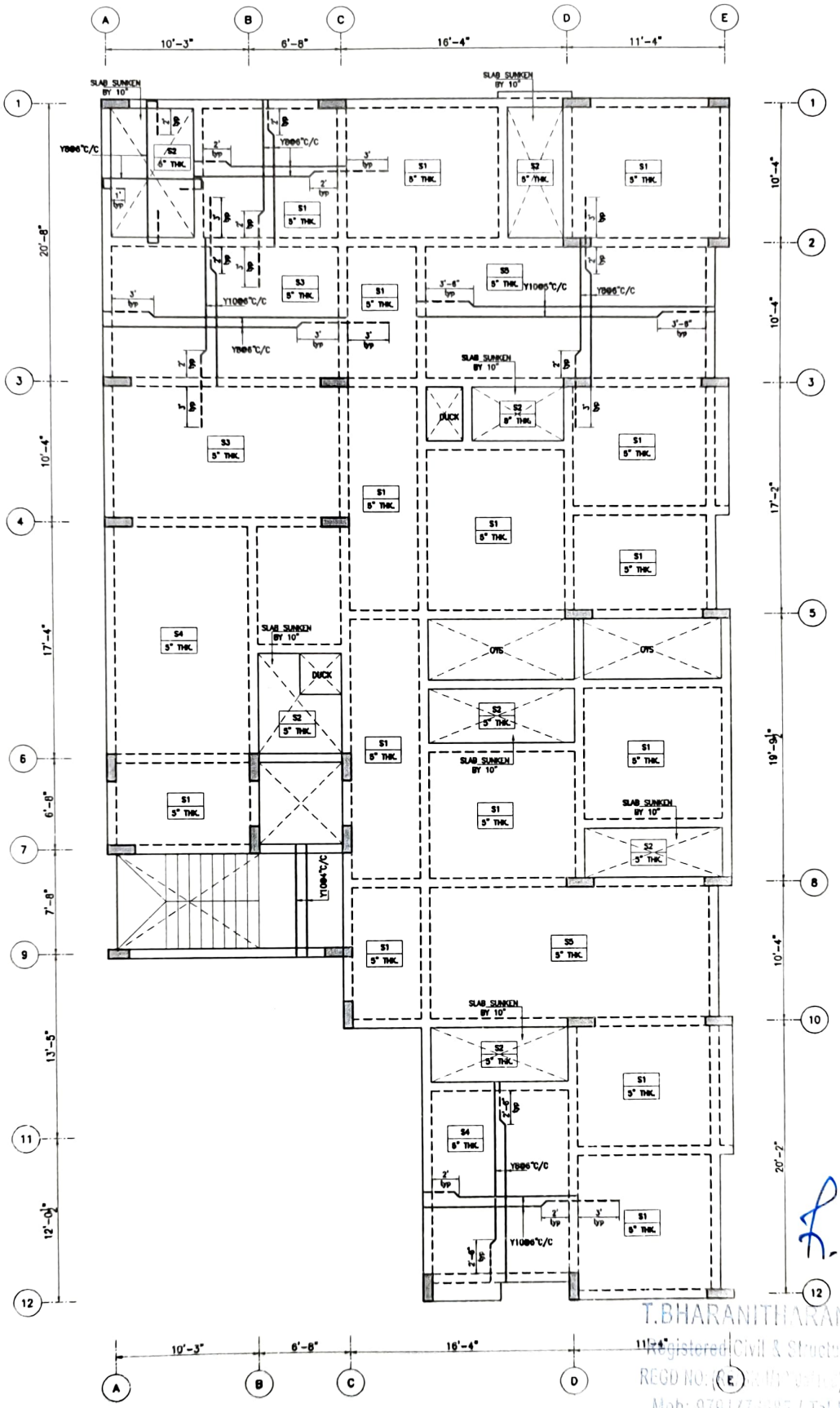
NOTE:
SECTION 1-1,2-2,3-3&4-4 ARE ONLY FOR EXPLANATORY PURPOSE

Job No: KAAF0001	All Dimensions are in feets and inches		Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by – date TBN – 01/05/2025	Filename	Date 01/05/2025	Scale 1:33

PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF REINFORCEMENT DETAILS OF SECOND FLOOR ROOF BEAMS

R0	GOOD FOR CONSTRUCTION	01/05/2025	TBN



LAYOUT OF THIRD FLOOR ROOF SLAB

T.BHARANITHARAN,M.E.,C.Eng(I).
Registered Civil & Structural Engineer, CMDA
REGD NO: (SE/GR-III/19/04/036)
Mob: 9791775885 / Tel No: 044-79670563

TE:
Crank length for slabs with typical reinforcements shall be made as per the miscellaneous details presented in sheet-14.
Clear cover = 15mm.
— Denotes top reinforcement of slab
— Denotes bottom reinforcement of slab
Lap length=50ϕ and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
■	:	COLUMN
—	:	COLUMN CENTERLINE
▬	:	SITE BOUNDARY

JOB NO: KAAF0001 — All dimensions are in Feets and Inches — Sheet: 16 (A3 SHEET)

Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01-05-2025		TBN	01-05-2025		R0

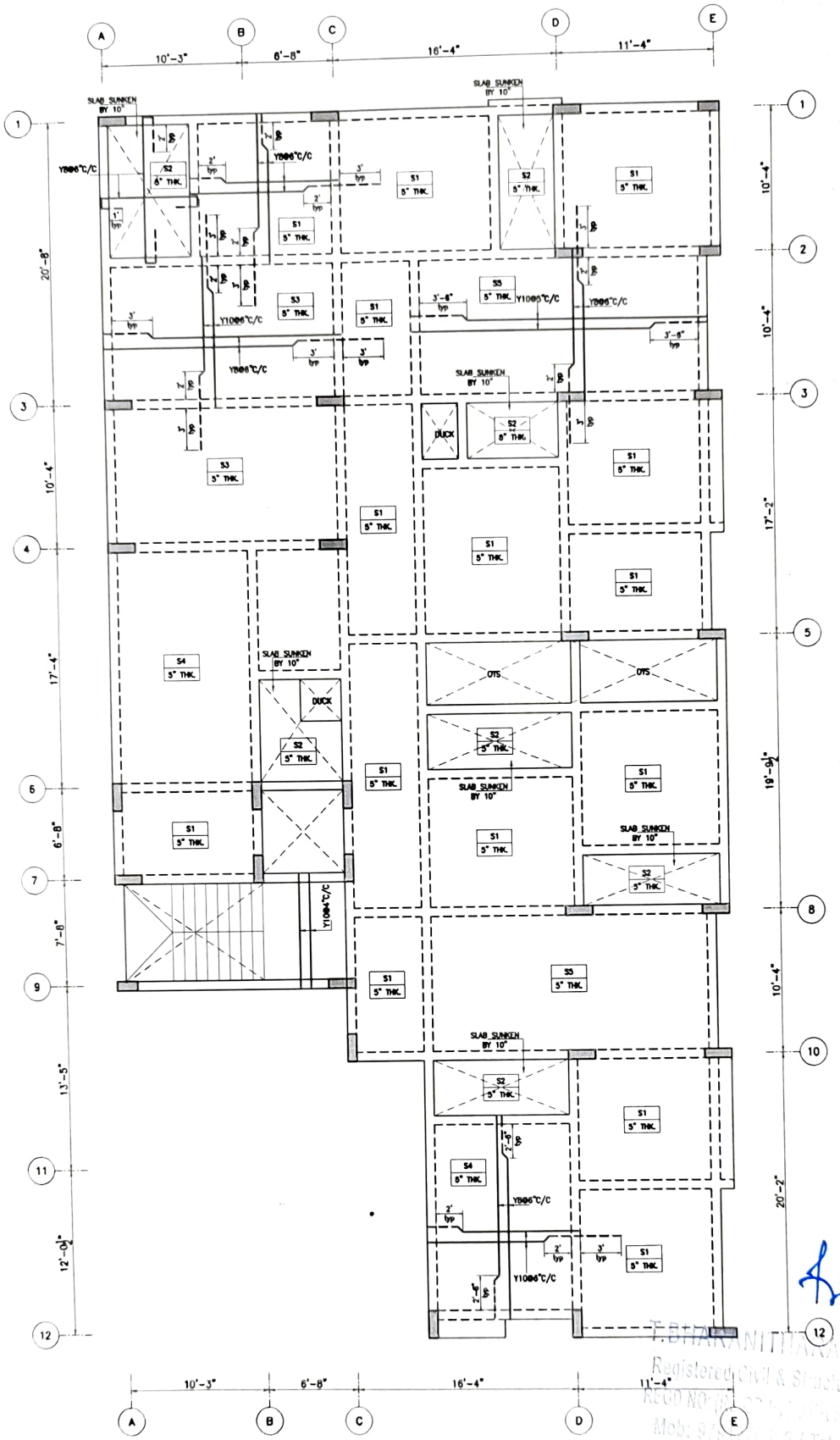
PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF THIRD FLOOR ROOF SLAB

CLIENT: ----

CONSULTANT: KURAL ASSOCIATES — Perception to Execution
NO.3/1317, Mugalivakkam Main Road, Madhanan[illegible]
Porur, Chennai-125. PH:044-42864312, MOB:9791[illegible]
Email:kuralassociates.engineers@gmail[illegible]

R0	GOOD FOR CONSTRUCTION					01/05/2025	TBN



LAYOUT OF THIRD FLOOR ROOF SLAB

T.BHARANITHARAN, M.E., C.Eng(I).
Registered Civil & Structural Engineer, CMDA
REGD NO: [illegible] (SE/CR-III/19/04/036)
Mob: [illegible] / Tel No: 044-79670563

E:
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— Denotes top reinforcement of slab
— Denotes bottom reinforcement of slab
Lap length=50ϕ and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
	:	COLUMN
	:	COLUMN CENTERLINE
	:	SITE BOUNDARY

JOB NO: KAAF0001 — All dimensions are in Feets and Inches — Sheet: 16 (A3 SHEET)

Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
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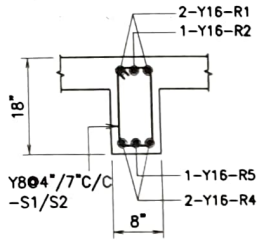
PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF THIRD FLOOR ROOF SLAB

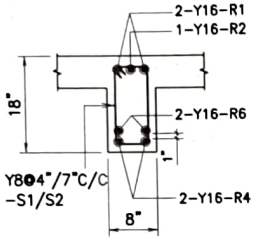
CLIENT: ----

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugaiyakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776665.
Email:kuralassociates.engineer@gmail.com

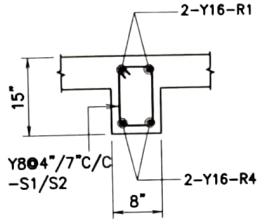
RO	GOOD FOR CONSTRUCTION	01/05/2025	TBN



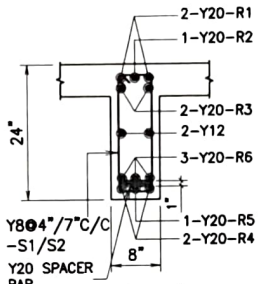
C.S OF FF1
[8"X1'-6"]



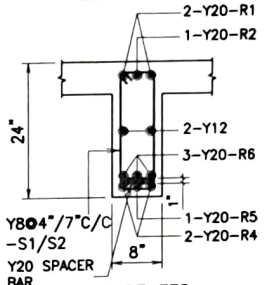
C.S OF FF2
[8"X1'-6"]



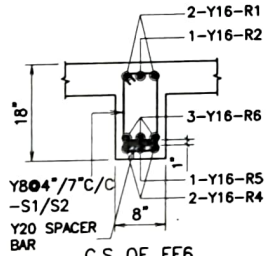
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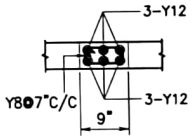
C.S OF FF4
[8"X2'-0"]



C.S OF FF5
[8"X2'-0"]



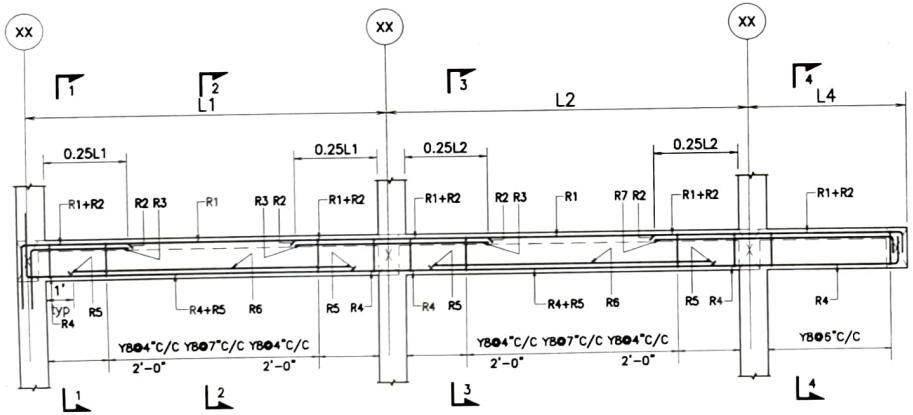
C.S OF FF6
[8"X1'-6"]



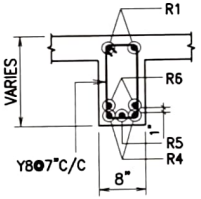
C.S OF CB
(CONCEALED BEAM)

NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.

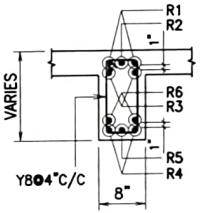
T.BHARANITHARAN,M.E.,C.Eng(I).
Registered Civil & Structural Engineer, CMDA
REGD NO:(RE/SE/VIII/SW/cell & SES/3/III/1904/036)
Mob: 9791776685 / Tel No: 044-23670533



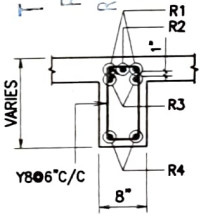
TYPICAL FLOOR BEAM DETAILS



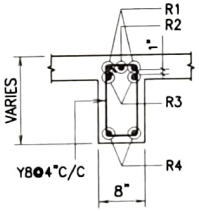
SECTION 2-2



SECTION 3-3



SECTION 4-4



SECTION 1-1

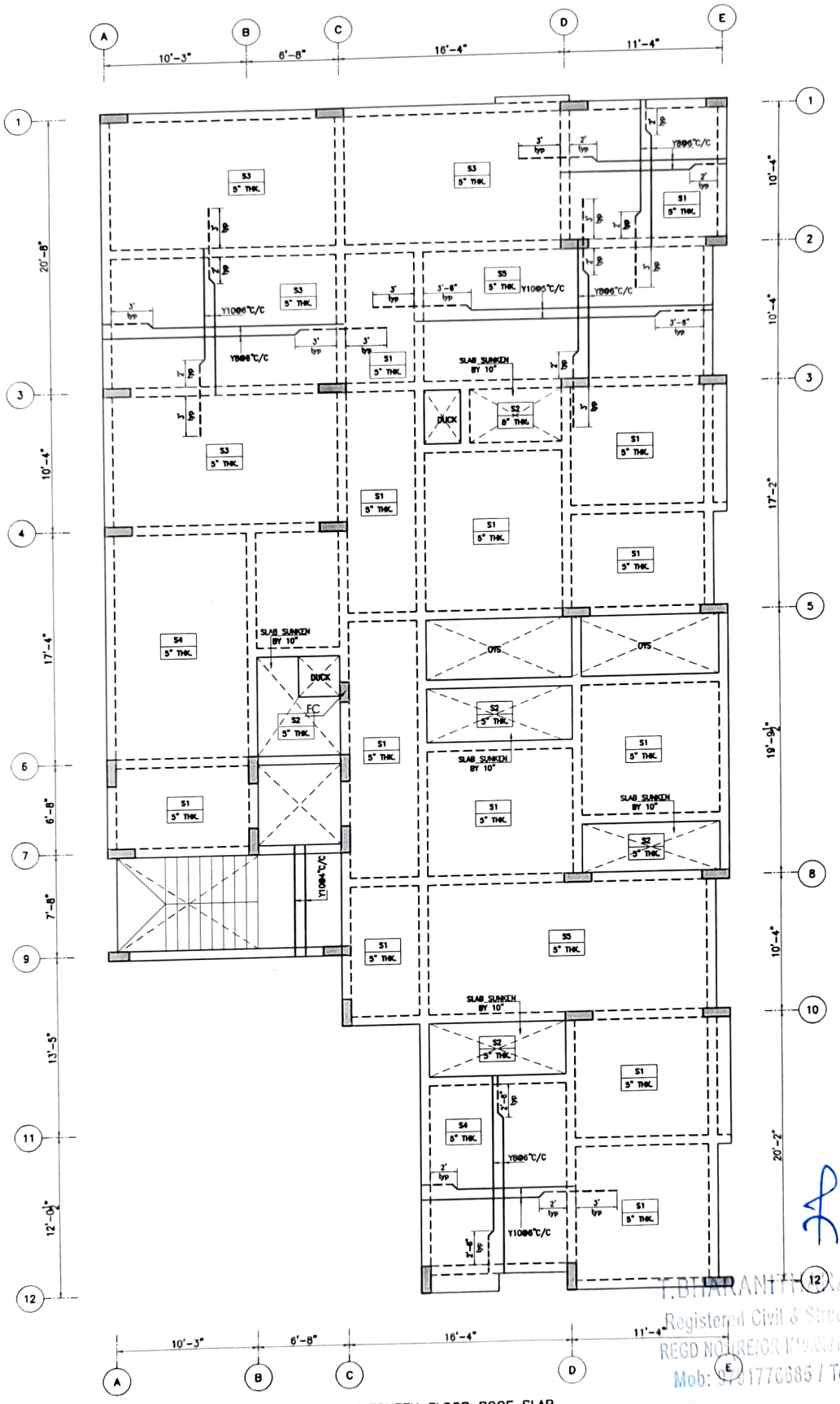
NOTE:
1. Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

JOB NO: KAAF0001	All Dimensions are in feets and inches		Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by – date TBN – 01/05/2025	Filename	Date 01/05/2025	Scale 1:3.3

PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF REINFORCEMENT DETAILS OF THIRD FLOOR ROOF BEAMS

R0	GOOD FOR CONSTRUCTION	01/05/2025	TBN



LAYOUT OF FOURTH FLOOR ROOF SLAB

T.BHARANITHARAN, M.E., C.Eng(I)
Registered Civil & Structural Engineer, CMDA
REGD NO: RE/CR/1719/87(86) & (SE/CR-II/19/04/036)
Mob: 9791776685 / Tel No: 044-79670563

rank length for slabs with typical reinforcements all be made as per the miscellaneous details esented in sheet-14.
lear cover = 15mm.
– Denotes top reinforcement of slab
– Denotes bottom reinforcement of slab
ap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
■	:	COLUMN
—	:	COLUMN CENTERLINE
▬	:	SITE BOUNDARY

JOB NO: KAAF0001 — All dimensions are in Feets and Inches — Sheet: 19 (A3 SHEET)

Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01-05-2025		TBN	01-05-2025		R0

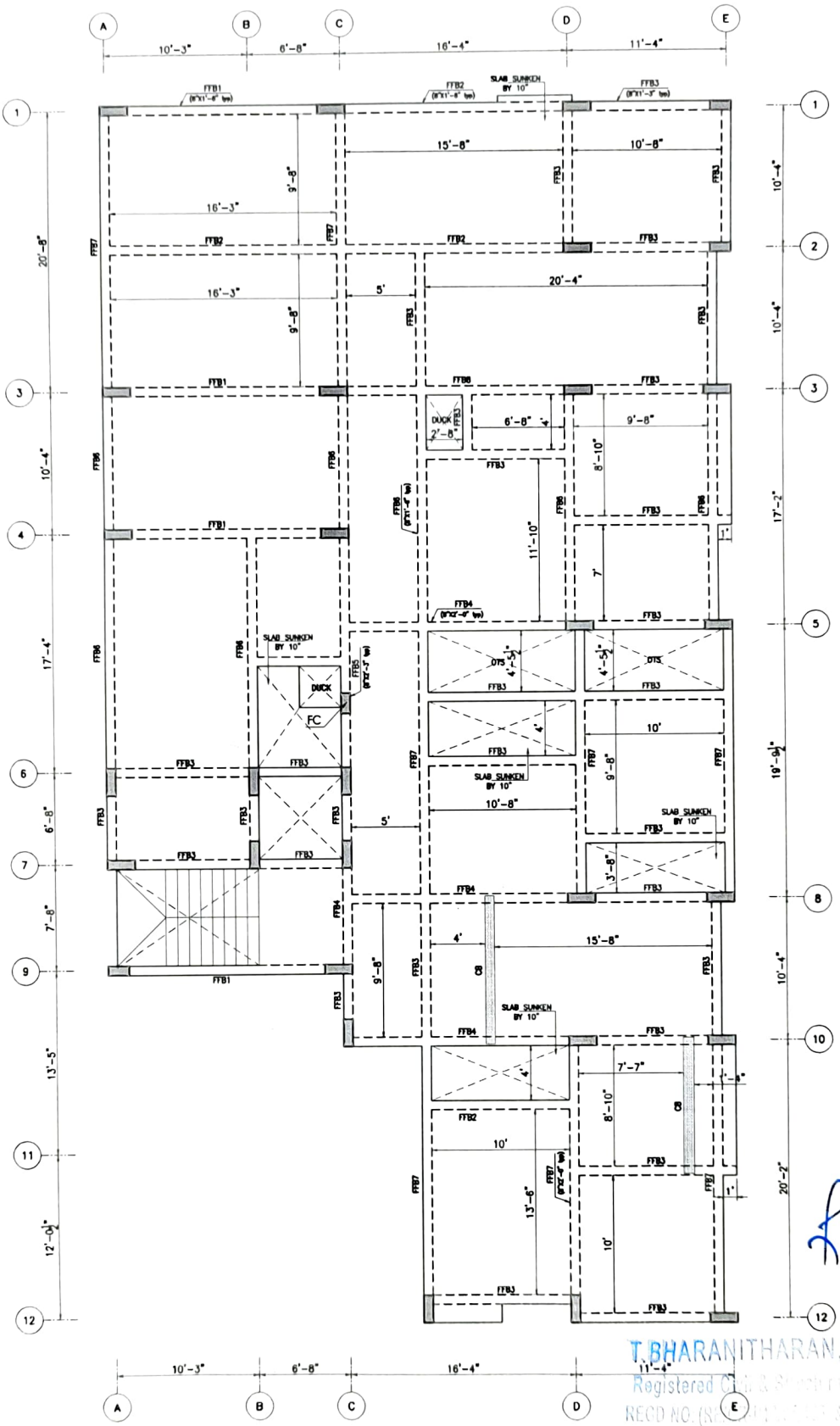
PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOURTH FLOOR ROOF SLAB

CLIENT: ----

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugaiyakkam Main Road, Madhanandhapuram, Porur, Chennai-125. PH:044-42864312, MOB:9791776685.
Email:kuralassociates.engineer@gmail.com

R0	GOOD FOR CONSTRUCTION		01/05/2025	TBN



LAYOUT OF FOURTH FLOOR ROOF BEAM

T.BHARANITHARAN,M.E., C.Eng(I).
Registered Civil & Structural Engineer, CMDA
RECD NO.(S/[illegible]/036)
Mob: 9791776[illegible] Ph: 044-[illegible]

E:
Beam column junction and main beam – secondary beam junctions must be reinforced as per miscellaneous details presented in sheet–14.
Clear cover = 25mm.
Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
length=50ø and all laps must be staggere

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
	:	COLUMN
	:	COLUMN CENTERLINE
	:	SITE BOUNDARY

JOB NO: KAAF0001		All dimensions are in Feets and Inches					Sheet: 20 (A3 SHEET)		
Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision	
TBN		TBN	01-05-2025		TBN	01-05-2025		R0	

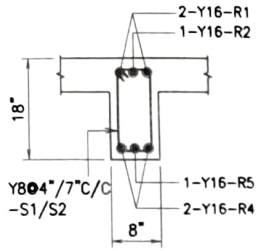
PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FOURTH FLOOR ROOF BEAM

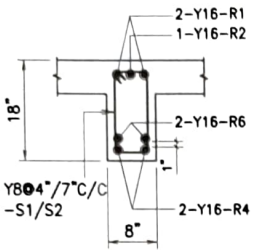
CLIENT: ----

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugaiyhaiyam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42866312, MOB:9791776665. Email:kuralassociates.engineers@gmail.com

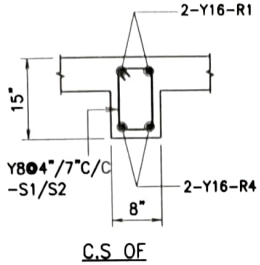
R0	GOOD FOR CONSTRUCTION	01/05/2025	TBN



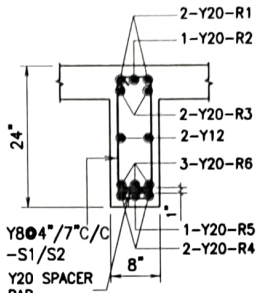
C.S OF FFB1
[8"X1'-6"]



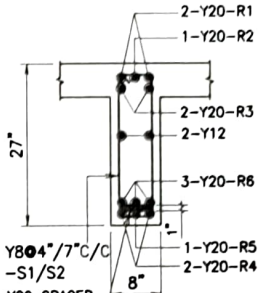
C.S OF FFB2
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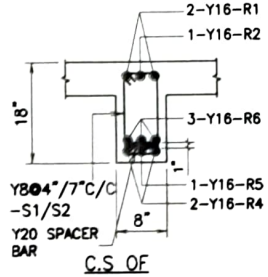
C.S OF FFB3
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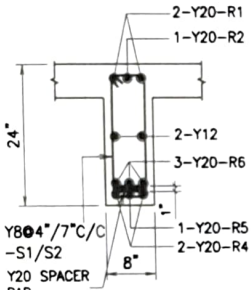
C.S OF FFB4
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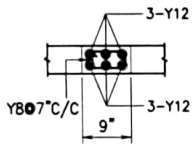
C.S OF FFB5
[8"X2'-3"]



C.S OF FFB6
[8"X1'-6"]



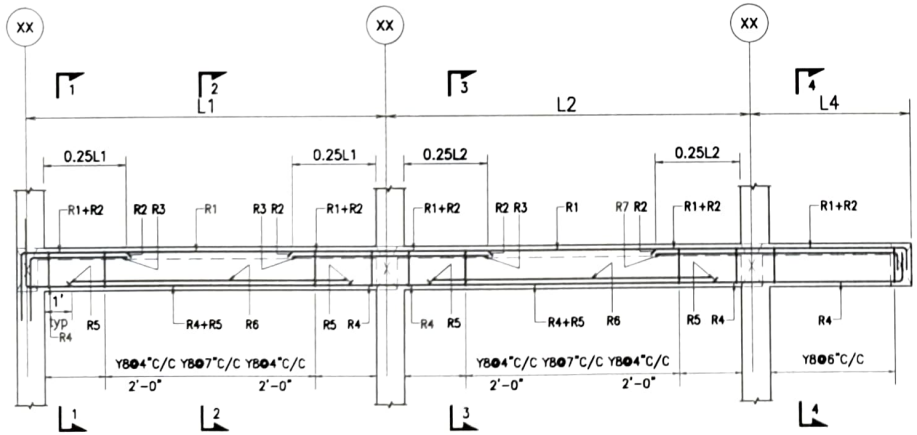
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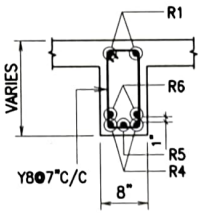
C.S OF CB
(CONCEALED BEAM)

NOTE:
AT INTERIOR BEAM COLUMN JUNCTIONS THE TOP REINFORCEMENT PROVIEDED MUST BE MAXIMUM OF THE TWO BEAMS MEETING AT THAT JUNCTION.

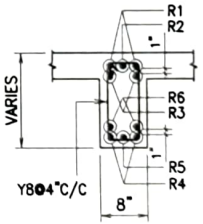
T.BHARANITHARAN,M.E.,C.Eng(I)
Registered Civil & Structural Engineer, CMDA
REID No.(INDIVIDUAL) / AA/STR/IN/304/036
Mob: 9791776605 / Tel No: 044-78670563



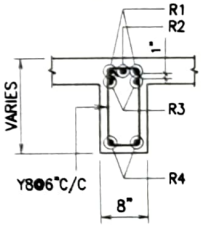
TYPICAL FLOOR BEAM DETAILS



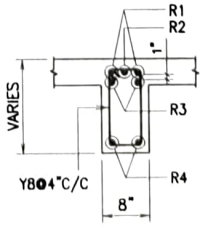
SECTION 2-2



SECTION 3-3



SECTION 4-4



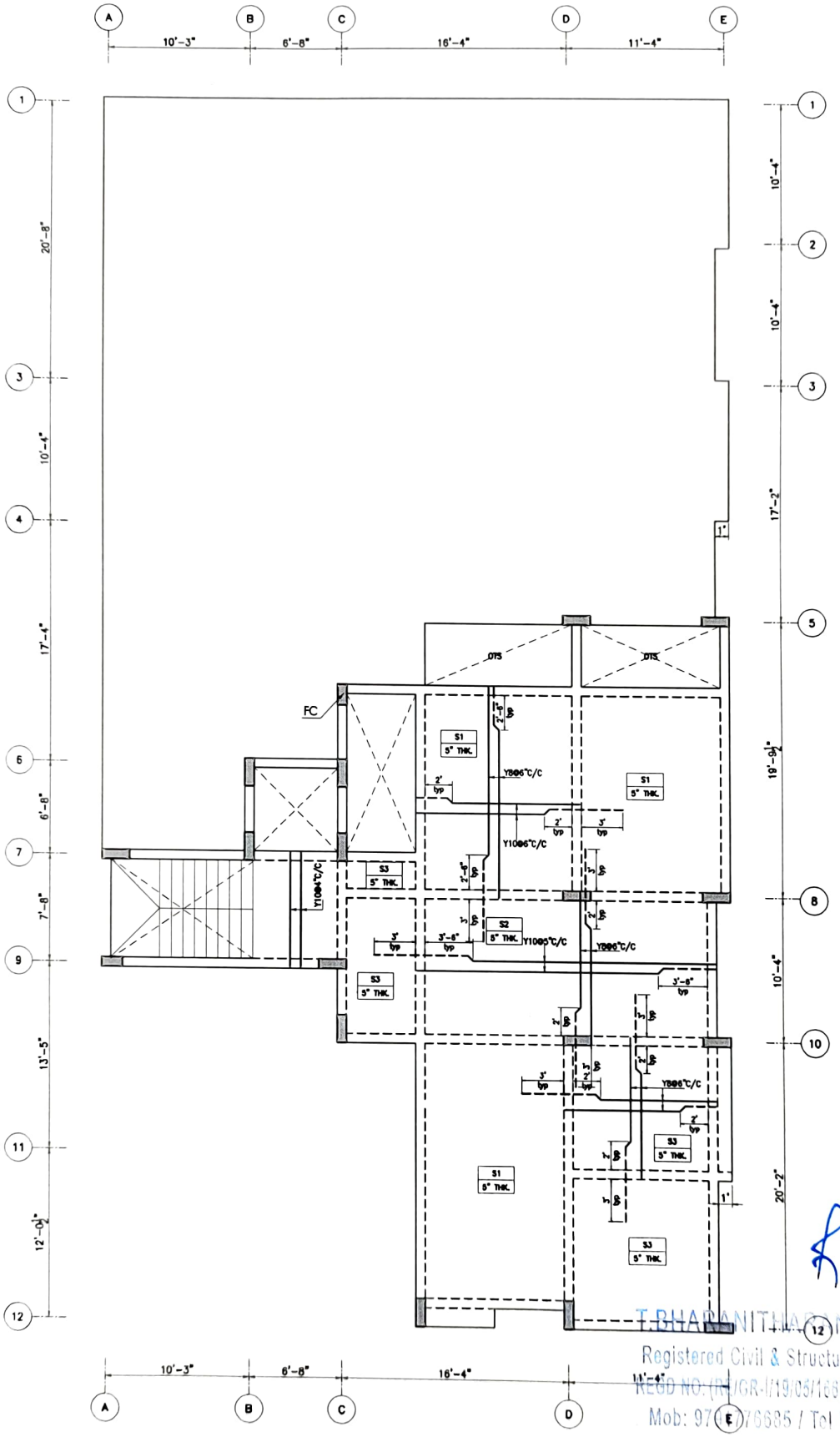
SECTION 1-1

NOTE:
SECTION 1-1,2-2,3-3&4-4 ARE ONLY FOR

NOTE:
1. Beam column junction and main beam - secondary beam junctions must be reinforced as per miscellaneous details presented in sheet-16.
2. Clear cover = 25mm.
3. Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
4. Lap length=50ø and all laps must be staggered

JOB NO: KAAF0001	All Dimensions are in feets and inches			Ref:Architectural Drawings
Designed by TBN	Checked by TBN	Approved by - date TBN - 01/05/2025	Filename [redacted]	Date 01/05/2025 / Scale 1:3.3
PROPOSED RESIDENTIAL AT CHOOLAIMEDU				LAYOUT OF REINFORCEMENT DETAILS OF FOURTH FLOOR ROOF BEAMS

R0	GOOD FOR CONSTRUCTION	01/05/2025	TBN



LAYOUT OF FIFTH FLOOR ROOF SLAB

T.BHARANITHARAN,M.E.,C.Eng(I).
Registered Civil & Structural Engineer, CMDA
REGD NO: (SE/GR-I/19/05/168) & (SE/GR-II/19/04/036)
Mob: 97[illegible]6685 / Tel No: 044-79670563

rank length for slabs with typical reinforcements
all be made as per the miscellaneous details
esented in sheet-14.
lear cover = 15mm.
- Denotes top reinforcement of slab
- Denotes bottom reinforcement of slab
ap length=50ø and all laps must be staggered

LEGEND

℄	:	CENTRE LINE
NGL	:	NATURAL GROUND LEVEL
FFL	:	FINISHED FLOOR LEVEL
TYP.	:	TYPICAL
■	:	COLUMN
—	:	COLUMN CENTERLINE
▬	:	SITE BOUNDARY

JOB NO: KAAF0001 — All dimensions are in Feets and Inches — Sheet: 22 (A3 SHEET)

Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01-05-2025		TBN	01-05-2025		R0

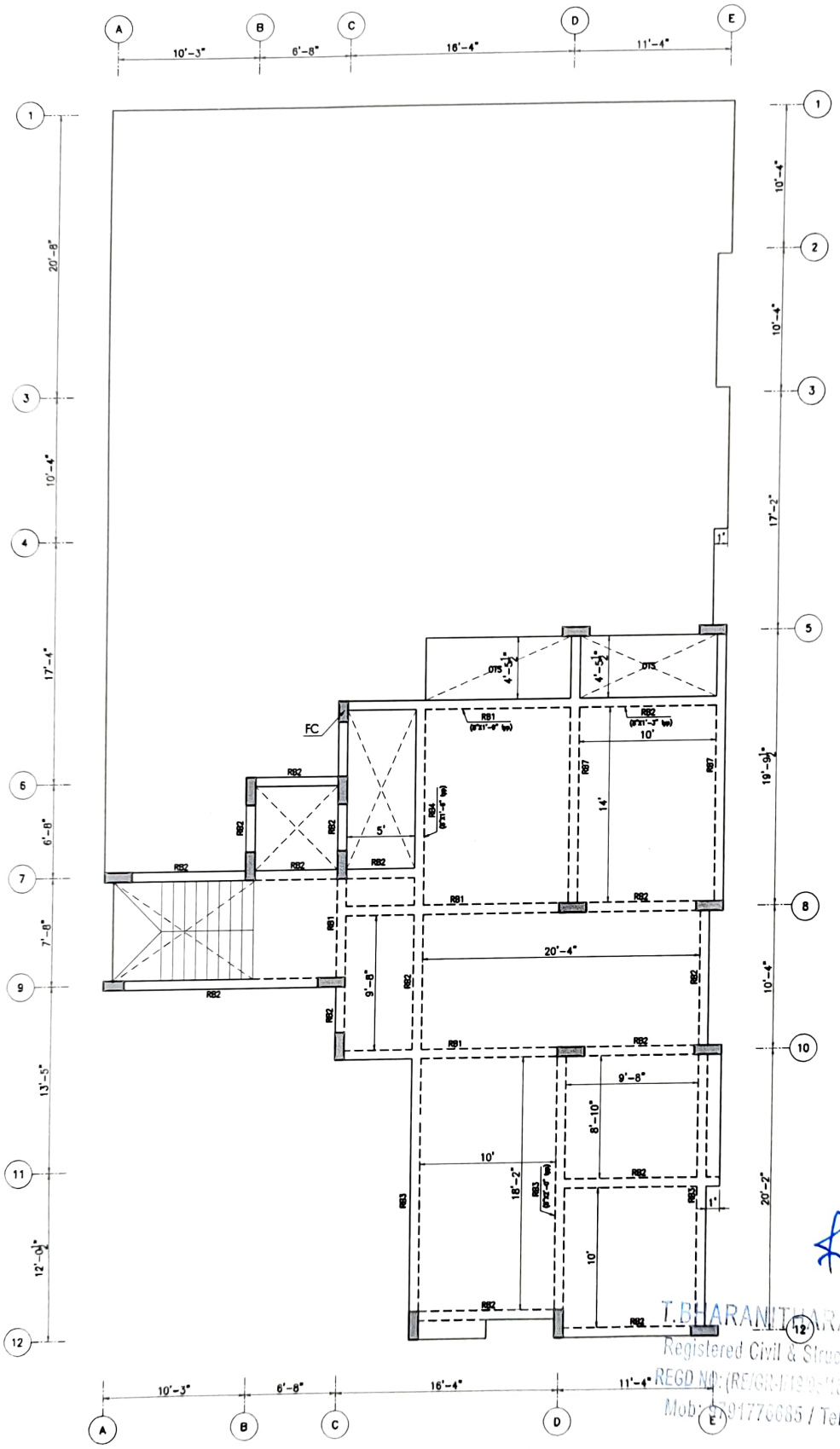
PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIFTH FLOOR ROOF SLAB

CLIENT: ----

CONSULTANT:
KURAL ASSOCIATES
Perception to Execution
NO.3/1517, Mugalivakkam Main Road,Madhanandhapuram, Porur, Chennai-125. PH:044-42864312, MOB:9791776685. Email:kuralassociates.engineers@gmail.com

R0	GOOD FOR CONSTRUCTION					01/05/2025	TBN



LAYOUT OF FIFTH FLOOR ROOF BEAM

T.BHARANITHARAN, M.E., C.Eng (I).
Registered Civil & Structural Engineer, CMDA
REGD NO: (RE/GR-II/19/04/036) & (SE/GR-II/19/04/036)
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Top reinforcement shall be lapped at midspan and bottom reinforcement at support.
Length=50ø and all laps must be staggere

LEGEND

℄	:	CENTRE LINE
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FFL	:	FINISHED FLOOR LEVEL
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—	:	COLUMN CENTERLINE
▬	:	SITE BOUNDARY

JOB NO: KAAF0001 — All dimensions are in Feets and Inches — Sheet: 23 (A3 SHEET)

Designed by	Sign	Checked by	Date	Sign	Approved by	Date	Sign	Revision
TBN		TBN	01-05-2025		TBN	01-05-2025		R0

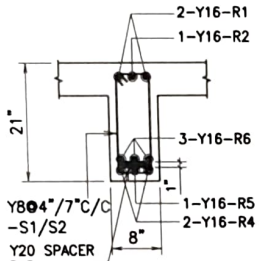
PROPOSED RESIDENTIAL AT CHOOLAIMEDU

LAYOUT OF DIMENSIONAL AND REINFORCEMENT DETAILS OF FIFTH FLOOR ROOF BEAM

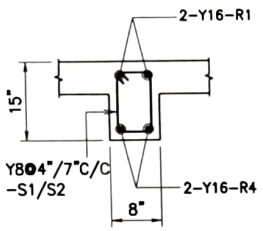
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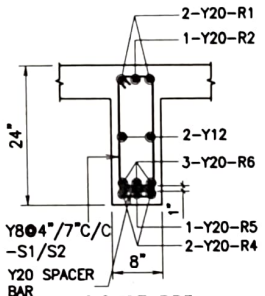
R0	GOOD FOR CONSTRUCTION	01/05/2025	TBN



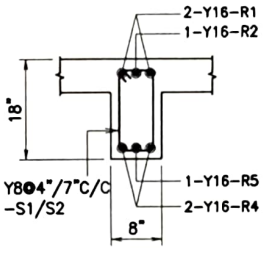
C.S OF RB1
[8"X1'-9"]



C.S OF RB2
[8"X1'-3"]

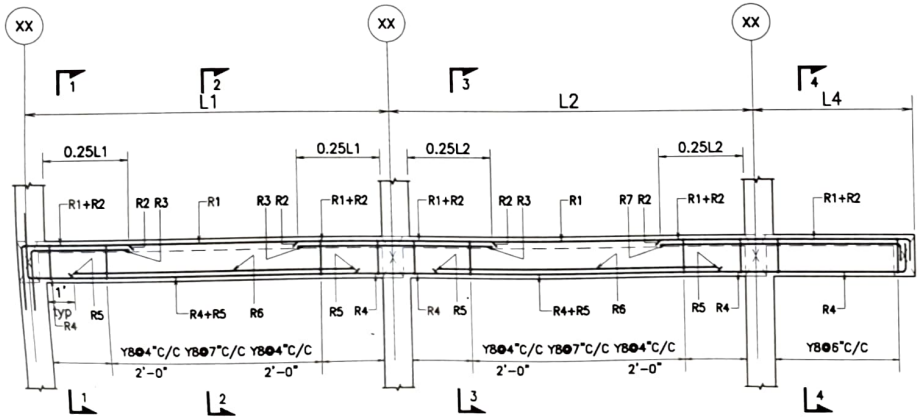


C.S OF RB3
[8"X2'-0"]

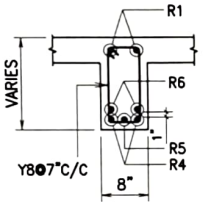


C.S OF RB4
[8"X1'-6"]

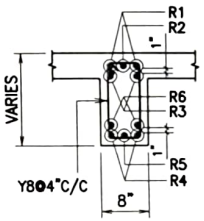
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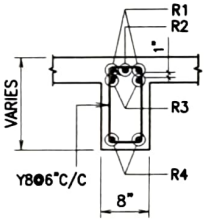
TYPICAL FLOOR BEAM DETAILS



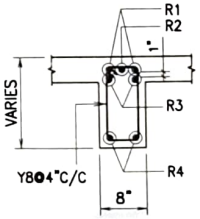
SECTION 2-2



SECTION 3-3



SECTION 4-4



SECTION 1-1

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LAYOUT OF REINFORCEMENT DETAILS OF

NOTE:

THE LANDLENS SUITE

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

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

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

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

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

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

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

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

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

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

FREE TOOLS · NO ACCOUNT NEEDED

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

Records and verification

The registers themselves, read for you.

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

Value and duty

What it is worth and what it costs to register.

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

Zoning and land use

What the plan says can happen on this land.

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

Registers and directories

Who holds it, and which office keeps the record.

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

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

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

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

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

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