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DIGITALLY VERIFIED RECORD

STRUCTURAL STABILITY CERTIFICATE
DESIGN CALCULATIONS
AND
STRUCTURAL DRAWINGS

PREPARED BY

W.JOE GLADE M.E.(Struct.), MIE.,

Mob: 9840188119

SOUTHGATE
CONSULTANT
Engineers | Builders | Interior Designers

27-12-2025

STRUCTURAL STABILITY CERTIFICATE

I hereby certify that the construction of Residential building(S+5) at Door no.5/3, Plot no.3A & 3B, Ram Nagar 6th street, Nanganallur, Chennai-61., is designed with other loads and also to resist earthquake forces, also check has been made and found Sound and Safe.

I hereby certify that

1. The least dimension of the column is 230 mm.
2. The Minimum grade of concrete is M25.
3. Safe Bearing Capcity of Soil is 35 T/M^2 based on the soil report.
4. The design analysis is using the code of practice for loading standards as per IS 875, IS 432, IS 456 and Seismic forces as per the code IS1893.

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STRUCTURAL DESIGN ANALYSIS FOR PROPOSED BUILDING

Name of work : Residential building at Door no.5/3, Plot no.3A & 3B, Ram Nagar 6th street, Nanganallur, Chennai-61

Preamble :

1. I hereby certify that the structural design is done by Limit State Method as per IS 456.
2. I hereby certify that the structural design sheet is done for critical column, beam, slab and Footing for the proposed building.
3. The usage of the building is Parking in Stilt and Residential in First, Second, Third, Fourth and Fifth Floor.
4. The building consists of Stilt + 5 Floors.
5. The superstructure is built on 230mm thick outer walls and 115mm thick inner walls.
6. The soil is Disintegrated rock
7. The safe bearing capacity of soil is 35 ton/m^2 based on the soil report.
8. All concrete for all proposed RCC members in Stilt + 5 Floors are R.C.C 1:1:2 mix (M25 concrete).
9. The structural design includes the earthquake criteria as per the IS1893.

I.S Code = IS 456 for concrete
IS 875 for design load
IS 432 for steel reinforcement
IS1893 for earthquake resistant design

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Load on Slab

Live Load	=	200 Kg/m^2
Dead load 0.15 x 1.0 x 2500	=	375 Kg/m^2
Floor Finish	=	150 Kg/m^2
Total	=	**725 Kg/m^2**

I. DESIGN OF SLAB:

Two Way Slab:

Design Of R C Slab As Per IS : 456 - 2000

Slab Designation = S1
Nature of Slab panel = TWO SHORT EDGES DISCONTINUOUS
Live Load Intensity [t/m2] = 0.2
Floor Finish [mm] = 40
Ceiling Finish [mm] = 20
Patition Load Intensity [t/m2] = 0.1
Slab Thickness = 150
Applied Load Factor = 1.5
Shorter Span [m] = 5.71
Longer Span [m] = 6.48
Exposure Condition = MILD
Fire Rating = 0.50 Hour.
Concrete Grade Required = M 25
Char. Reinforcement Strength (fy) [N/sq mm] = 550
Ratio LY/LX = 1.13
Clear Cover to Shorter Steel [mm] = 20
Slab Intensity [t/m2] = 0.81
+ ve Factored BM @ Shorter dir. [t-m] = 1.5
- ve Factored BM @ Shorter dir. [t-m] = 1.98
+ ve Factored BM @ Longer dir. [t-m] = 1.38
- ve Factored BM @ Longer dir. [t-m] = 0
Ultimate BM capacity of Slab [t-m] = 5.3
Factored Actual Shear Stress [kg/cm2] = 1.92
Permissible Shear Stress [kg/cm2] = 5.04
Bottom Steel @ Shorter dir. = 12 MM Ø @ 300 mm
Support Top Steel @ Shorter dir. = 12 MM Ø @ 300 mm
Bottom Steel @ Longer dir. = 12 MM Ø @ 300 mm
Support Top Steel @ Longer dir. = 12 MM Ø @ 300 mm
Min.Cement content required in Concrete [kg/m3] = 300
Maximum Water to Cement Ratio = 0.55
Actual L/d Raio = 46.04
Permissible L/d Raio [safe in deflection] = 49.57
Crack width under the bar on tension face = 0.08 mm
Crack width midway between bars at tension face = 0.19 mm
Permissible Crack width = 0.3 mm

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II. DESIGN OF BEAM:

Design Of R C Beam is OK : As Per IS-456-2000

Beam Designation = RB12
LHS Hogging Moment [t-m] = 18.7
LHS Sagging Moment [t-m] = 0
RHS Hogging Moment [t-m] = 24.4
RHS Sagging Moment [t-m] = 0
MID SPAN Sagging Moment [t-m] = 14
MID SPAN Hogging Moment [t-m] = 0
LHS Shear Force [t] = 17.4
RHS Shear Force [t] = 31.3
Applied Load Factor = 1.5
Beam Width [mm] = 300
Beam Depth [mm] = 600
Exposure Condition = MILD
Fire Rating = 0.50 Hour.
Nature of Beam = SIMPLY SUPPORTED
Redistribution of End Moments = ** NIL **
Concrete Grade Required = M 25
Char. Reinforcement Strength (fy) [N/sq mm] = 550
Number of bars required @ LHS TOP = 3-25 MM Ø
Number of bars required @ LHS BOTTOM = 2-25 MM Ø
Number of bars required @ RHS TOP = 4-25 MM Ø
Number of bars required @ RHS BOTTOM = 2-25 MM Ø
Number of bars required @ MID SPAN BOTTOM = 2-25 MM Ø
Number of bars required @ MID SPAN TOP = 2-25 MM Ø
Area Of Links (All Legs) [sq cm] = 13.27
Spacing of 2-legged Links [mm] = 8 MM Ø @ 76 c/c
Cover to Links (Nominal Cover) [mm] = 20
Ultimate Moment Cap. of Concrete Section [t-m] = 32.37
Maximum Factored Moment [t-m] = 36.59
Minimum Cement content Required in Concrete [kg/m3] = 300
Maximum Water to Cement Ratio = 0.55
Actual L/d Raio = 13.06
Permissible L/d Raio [safe in deflection] = 22
Crack width under MID SPAN BOTTOM bars = 0.11 mm
Crack width @ the bottom corner of beam at MID SPAN = 0.17 mm
Crack width at mid way between bottom bars at MID SPAN = 0.13 mm
Permissible Crack width = 0.3 mm

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Design Of R C Beam is OK : As Per IS-456-2000

Beam Designation = RB13
LHS Hogging Moment [t-m] = 28.9
LHS Sagging Moment [t-m] = 0
RHS Hogging Moment [t-m] = 0
RHS Sagging Moment [t-m] = 0
MID SPAN Sagging Moment [t-m] = 0
MID SPAN Hogging Moment [t-m] = 0
LHS Shear Force [t] = 12.7
RHS Shear Force [t] = 0
Applied Load Factor = 1.5
Beam Width [mm] = 230
Beam Depth [mm] = 600
Exposure Condition = MILD
Fire Rating = 0.50 Hour.
Nature of Beam = CANTILEVER
Redistribution of End Moments = ** NIL **
Concrete Grade Required = M 25
Char. Reinforcement Strength (fy) [N/sq mm] = 550
Number of bars required @ LHS TOP = 4-25 MM Ø
Number of bars required @ LHS BOTTOM = 3-25 MM Ø
Number of bars required @ RHS TOP = 3-25 MM Ø
Number of bars required @ RHS BOTTOM = 3-25 MM Ø
Number of bars required @ MID SPAN BOTTOM = 3-25 MM Ø
Number of bars required @ MID SPAN TOP = 3-25 MM Ø
Area Of Links (All Legs) [sq cm] = 1.92
Spacing of 2-legged Links [mm] = 8 MM Ø @ 286 c/c
Cover to Links (Nominal Cover) [mm] = 20
Ultimate Moment Cap. of Concrete Section [t-m] = 24.82
Maximum Factored Moment [t-m] = 43.34
Minimum Cement content Required in Concrete [kg/m3] = 300
Maximum Water to Cement Ratio = 0.55
Actual L/d Raio = 6.05
Permissible L/d Raio [safe in deflection] = 6.44
Crack width under MID SPAN BOTTOM bars = 0 mm
Crack width @ the bottom corner of beam at MID SPAN = 0 mm
Crack width at mid way between bottom bars at MID SPAN = 0 mm
Permissible Crack width = 0.3 mm

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III. DESIGN OF COLUMN:
Concrete M25

Consider a critical column which is taking more load.

Design Of Reinforced Concrete Column

Column Designation = C10
Applied Load [t] = 238
Nature of Load = COMPRESSIVE
Longer Column Dimension [mm] = 750
Shorter Column Dimension [mm] = 300
Eff. Length along Longer COl. Dimension [M] = 3.5
Eff. Length along Shorter COl. Dimension [M] = 3.5
BM along Longer Column Dimension [M] = 21.3
BM along Shorter Column Dimension [M] = 2.4
Reinforcement % = 3.05
Reinforcement Distribution on Faces = 4 FACES
Applied Load Factor = 1.5
Concrete Grade Required = M 25
Char. Reinforcement Strength (f y) [N/sq mm] = 550
Exposure Condition = MILD
Fire Rating = 0.50 Hour.
Axial Column Capacity Along Longer Dim.[ton] = 238.78
Moment Capacity Along Longer Dim.[t-m] = 24.07
Gross Applied Moment Along Longer Dim.[t-m] = 21.3
Axial Column Capacity Along Shorter Dim.[ton] = 238.58
Moment Capacity Along Shorter Dim.[t-m] = 7.84
Gross Applied Moment Along Shorter Dim.[t-m] = 2.4
Bending Ratio = 0.92 < 1 : OK
Area Of Main Tensile Reinforcement [sq cm] = 68.73
Number of main bars required = 14 Ø25 MM
Spacing of Links [mm] = Ø8 MM @ 300 c/c
Cover to Links (Nominal Cover) [mm] = 40
Minimum Cement content Required in Concrete [kg/m3] = 300
Maximum Water to Cement Ratio = 0.55

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IV. DESIGN OF FOOTING:

Design Of R C Isolated Foundation As Per IS-456-2000

Footing Designation = F6
Foundation Depth [m] = 3
SBC [t/m2] = 35
Foundation Width [m] = 2.5
Foundation Length [m] = 3
Applied Bending Moment [t-m] = 0
Applied Load [tons] = 245
Nature of Axial Load = COMPRESSIVE
Column Size Along Longer FTG dir. [mm] = 750
Column Size Along Shorter FTG dir. [mm] = 300
Applied Load Factor = 1.5
Exposure Condition = MILD
Concrete Grade Required = M 25
Char. Reinforcement Strength (fy) = 550 N/mm2
Clear Cover to Longer Bars [mm] = 50
Minimum Cement content Required in Concrete [kg/m3] = 300
Maximum Water to Cement Ratio = 0.55
Uniform Thickness of Foundation Required [mm] = 800
Reinforcement Required Along Longer Dir @ Bottom = 9.6 CM2/M
Reinforcement Required along SHORTER Dir @ Bottom = 9.6 CM2/M
Reinforcement Spacing Along Longer Dir @ Bottom = Ø 16 @ 209 mm c/c
Reinforcement Spacing Along Shorter Dir @ Bottom = Ø 16 @ 209 mm c/c
Concrete Quantity [m3] = 6

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V. CHECK FOR EARTHQUAKE FORCES:

Check the column, critical and its foundation to Earthquake force as per IS 1893-criteria for earthquake resistant design of structure

Use seismic coefficient method as per clause 3.4.2-3 (a)

α_h = β I α_b

α_h = Horizontal seismic coefficient

β = a coefficient depend upon soil foundation coefficient as per Table-3
= 1.0

I = a coefficient depend upon soil importance of structure as per Table-4
= 1.00

α_b = Basic horizontal seismic coefficient as per seismic zone of the place Madras/Chennai seismic zone III.
= 0.04

α_h = 1.00 x 1.00 x 0.04

= .04

Total load on column = 245 tons

Size of footing = 2.50 m x 3.00 m

Safe bearing capacity of soil = 35 tons /m^2

H_Σ = Horizontal force component of earthquake

= α_h x w

w = Load on column

= 245 tons

H_Σ = 0.04 x 245 tons

= 9.80 tons

say = 10.00 tons

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Column size = 30 cm x 75 cm

B = 30 cm

D = 75 cm

Effective depth (d) = 70 cm

Concrete M25

Shear due to Earthquake = 10.00 tons

Shear Stress = $\frac{H\Sigma}{bjd}$

$= \frac{10000}{30 \times 0.90 \times 70}$

$= 5.29\ Kg/cm^2 < 8\ Kg/cm^2$

Hence column safe against Earthquake.

Footing

Hv = Vertical component of Earthquake forces as per clause 3.4.5 of 1893

Hv = Co-efficient of vertical component of seismic force

$= \frac{\alpha_h}{2} = \frac{0.04}{2} = 0.02$

Vertical load on column (p) = 245 tons

Vertical component force due to seismic (P1) = Hv x p

= 0.02 x 245 tons

= 4.90 tons

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Total load on footing (P) = p + P1

= 245 tons + 4.90 tons

= 249.90 tons

say = 250.00 tons

Size of footing = 2.50 m x 3.00 m

Stress on soil = $\frac{P}{A}$

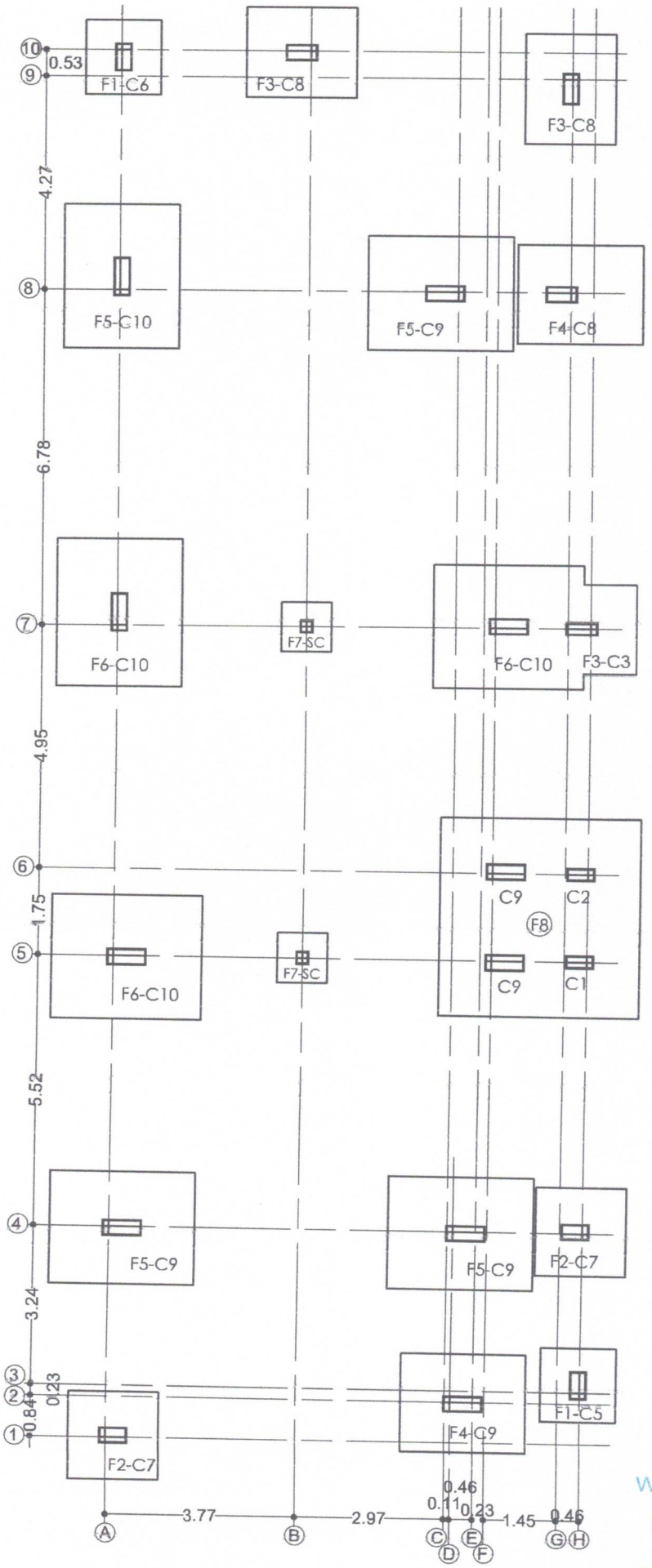
= $\frac{250}{2.50 \text{ m} \times 3.00 \text{ m}}$

= 33.33 ton/m^2 < 35 ton/m^2
as per seismic force above.

Hence column footing safe

For additional safety to building all columns are tied in the X and Y axis positively.

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LAYOUT OF FOOTING, COLUMN & CENTERLINE FOR PROPOSED BIILDING AT DOOR NO.5/3, PLOT NO.3A&3B, RAM NAGAR 6th STREET, NANGANALLUR, CHENNAI-61.

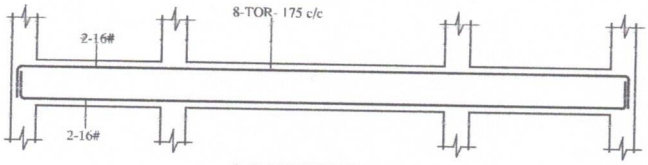
SHEET-1

COLUMN SCHEDULE

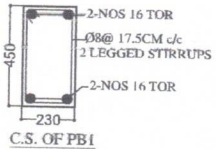
S.No.	Column Marked	Stilt Floor		Column Size	Reinforcement					Ties
		Column Size	Reinforcement		First Floor	Second Floor	Third Floor	Fourth Floor	Fifth Floor	
1	C1	230X530	10#20	230X530	10#20	10#20	10#20	10#20	10#20	Ø8@150 c/c
2	C2	230X530	10#25	230X530	10#25	10#25	10#25	6#25 + 4#20	6#25 + 4#20	Ø8@150 c/c
3	C3	230X600	10#25	230X600	10#25	10#25	10#25	6#25 + 4#20	6#25 + 4#20	Ø8@150 c/c
4	C4	230X750	14#25	230X750	14#25	14#25	14#25	12#25	12#25	Ø8@150 c/c
5	C5	300X530	10#16	230X530	10#16	10#16	10#16	10#16	10#16	Ø8@150 c/c
6	C6	300X530	10#20	230X530	10#20	10#20	10#20	10#20	10#20	Ø8@150 c/c
7	C7	300X530	10#25	230X530	10#25	10#25	10#25	6#25 + 4#20	6#25 + 4#20	Ø8@150 c/c
8	C8	300X600	12#25	230X600	12#25	12#25	12#25	6#25 + 6#20	6#25 + 6#20	Ø8@150 c/c
9	C9	300X750	14#25	230X750	14#25	14#25	14#25	12#25	12#25	Ø8@150 c/c
10	C10	300X750	14#25	300X750	14#25	14#25	14#25	12#25	12#25	Ø8@150 c/c
11	SC	230X230	4#12							Ø8@150 c/c

FOOTING SCHEDULE

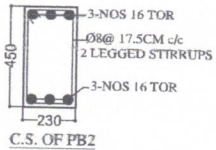
S.No.	Footing Marked	Footing Size	Excavation Size	Depth (D)	Reinforcement	
					Bottom	Top
1	F1	1.50x1.50	1.65x1.65	0.45	Ø12@175	Ø10@175
2	F2	1.80x1.80	1.95x1.95	0.50	Ø12@150	Ø10@150
3	F3	1.80x2.20	1.95x2.35	0.55	Ø12@150	Ø10@150
4	F4	2.00x2.50	2.15x2.65	0.65	Ø12@125	Ø10@125
5	F5	2.30x2.90	2.45x3.05	0.75	Ø16@175	Ø12@175
6	F6	2.50x3.00	2.65x3.15	0.80	Ø16@175	Ø12@175
7	F7	1.00x1.00	1.15x1.15	0.20	Ø10@175	——



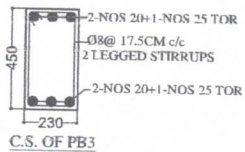
L.S. OF PLINTH BEAM



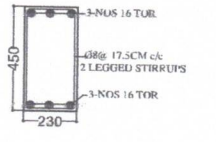
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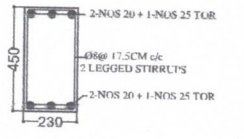


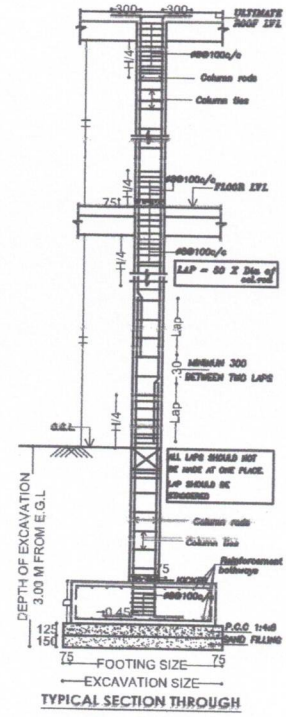
C.S. OF PB2



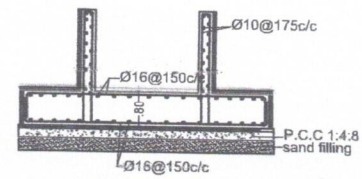
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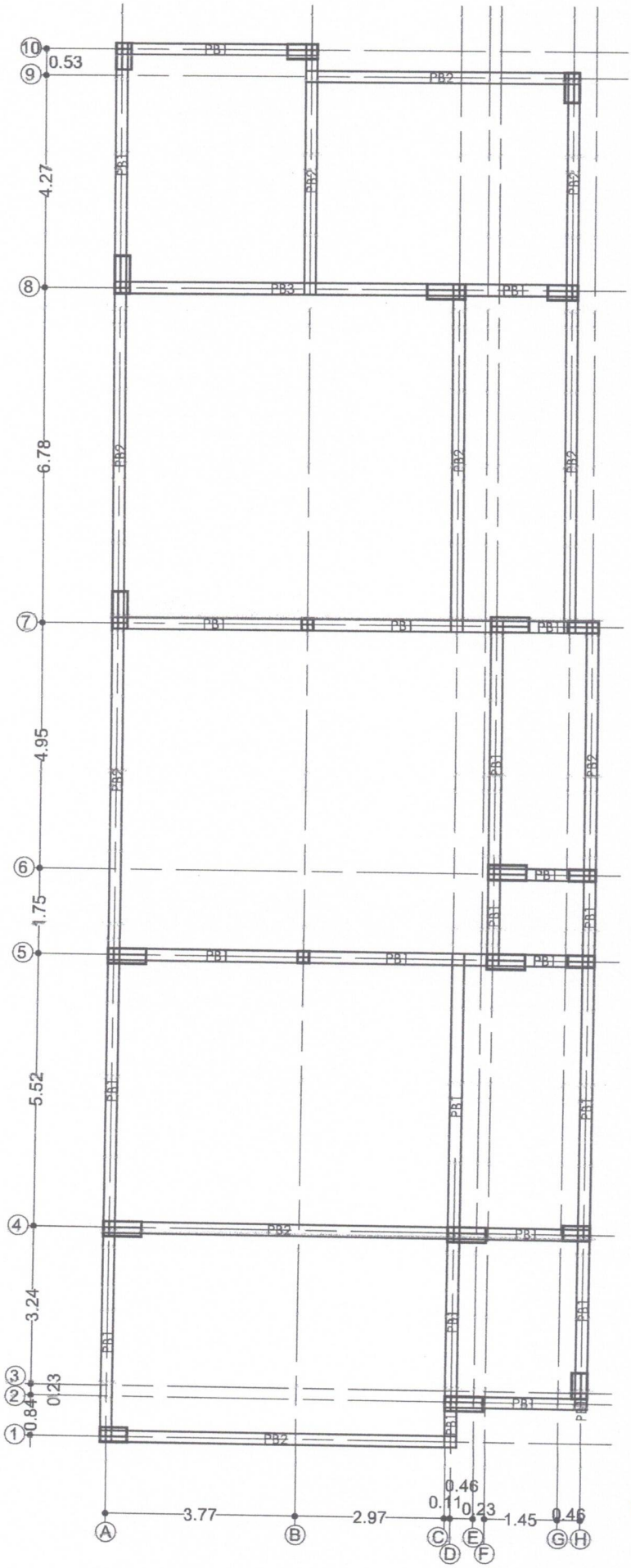
TYPICAL SECTION THROUGH COLUMN FOOTING



F8 DETAILS (4.00x4.00)

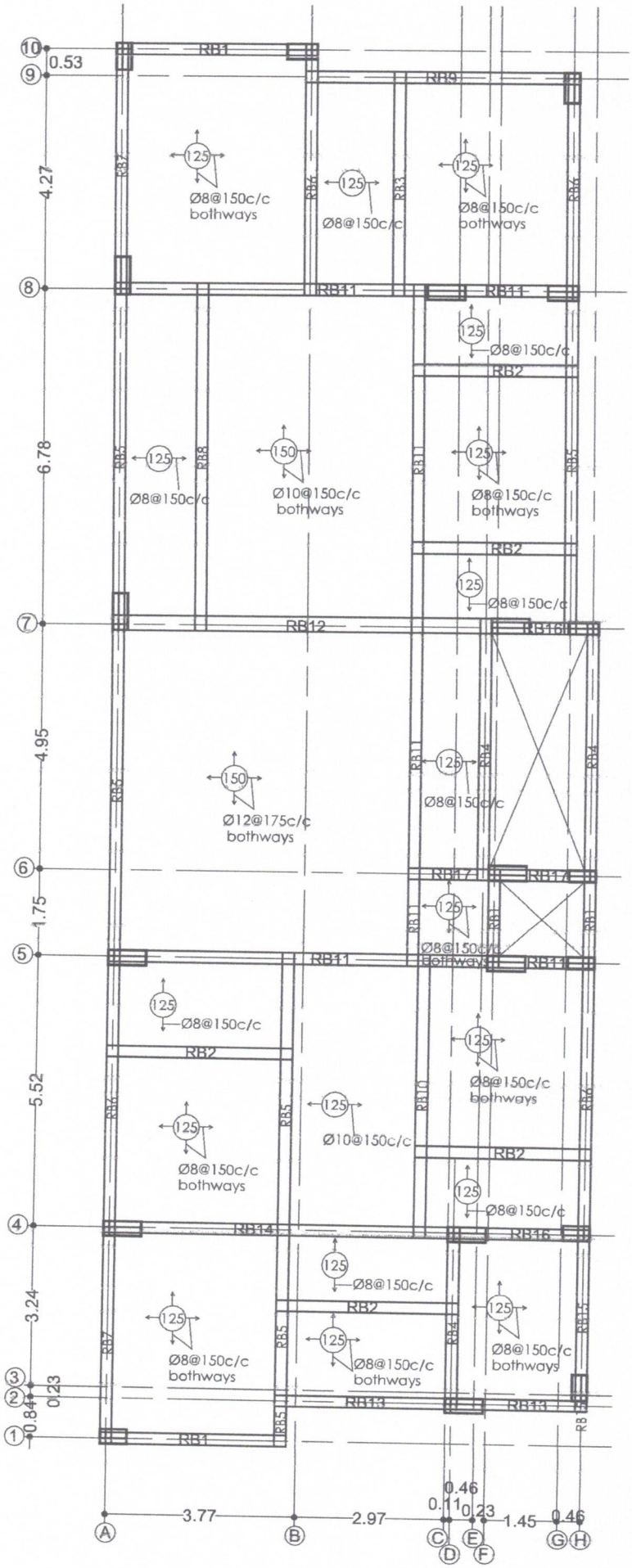
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REINFORCEMENT DETAILS OF FOOTING, COLUMN & PLINTH BEAM FOR PROPOSED BUILDING AT DOOR NO.5/3, PLOT NO.3A&3B, RAM NAGAR 6th STREET, NANGANALLUR, CHENNAI-61.



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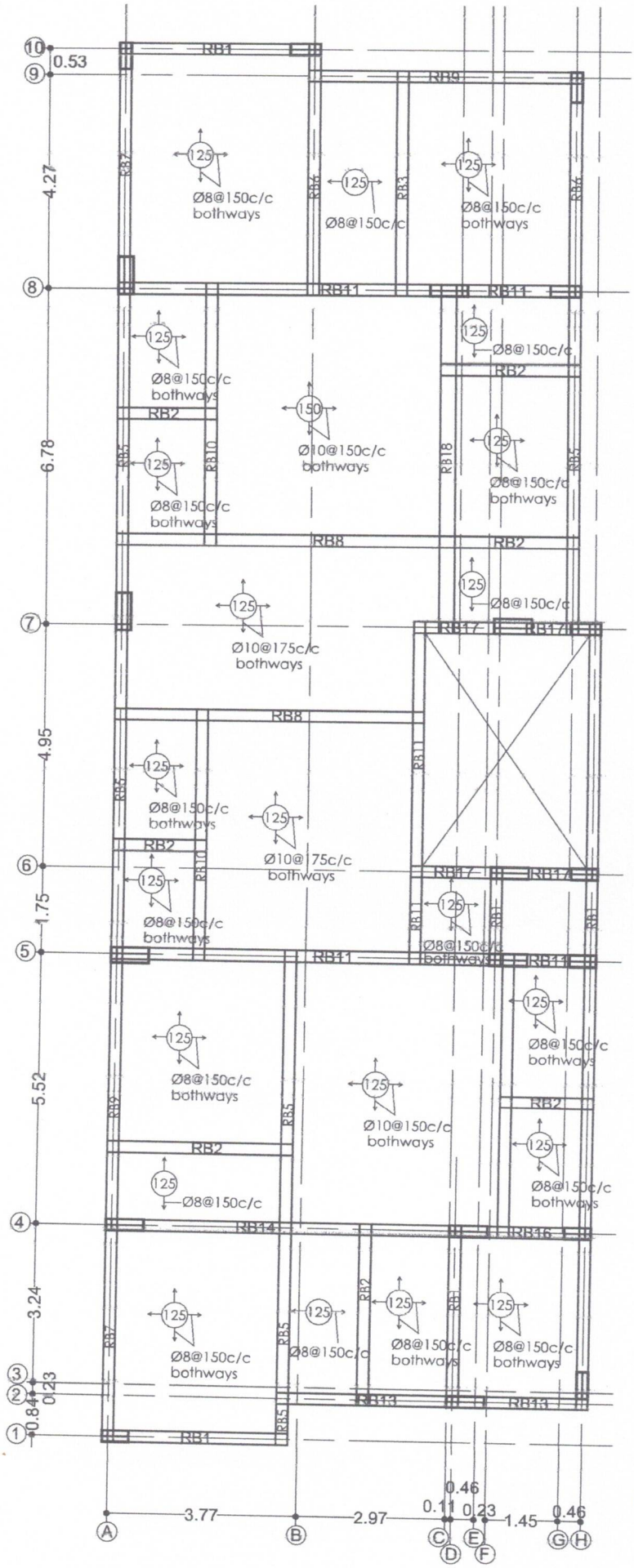
REINFORCEMENT DETAILS OF PLINTH BEAM FOR PROPOSED BUILDING AT DOOR NO.5/3, PLOT NO.3A&3B, RAM NAGAR 6th STREET, NANGANALLUR, CHENNAI-61.



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REINFORCEMENT DETAILS OF STILT FLOOR ROOF SLAB & BEAM FOR PROPOSED BUILDING AT DOOR NO.5/3, PLOT NO.3A&3B, RAM NAGAR 6th STREET, NANGANALLUR, CHENNAI-61.

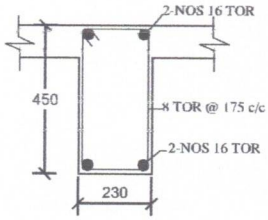
SHEET-4



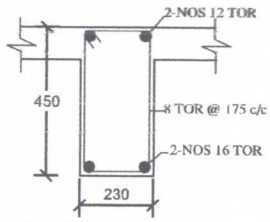
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REINFORCEMENT DETAILS OF TYPICAL FLOOR ROOF SLAB & BEAM FOR PROPOSED BUILDING AT DOOR NO.5/3, PLOT NO.3A&3B, RAM NAGAR 6th STREET, NANGANALLUR, CHENNAI-61.

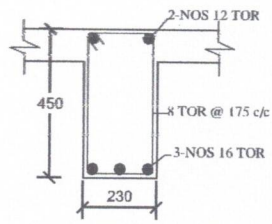
SHEET-5



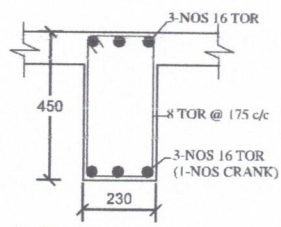
DETAILS OF BEAM (RB1)



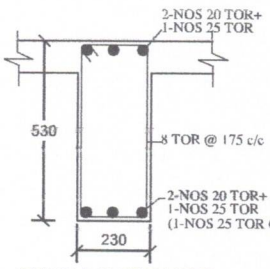
DETAILS OF BEAM (RB2)



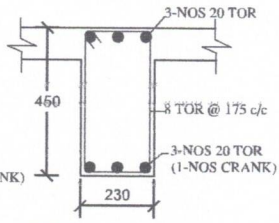
DETAILS OF BEAM (RB3)



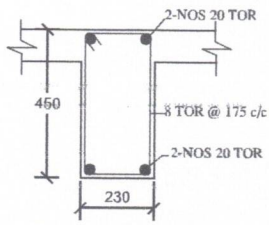
DETAILS OF BEAM (RB4)



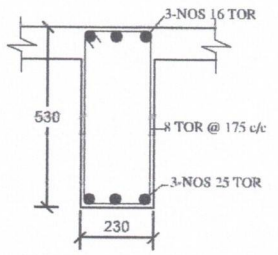
DETAILS OF BEAM (RB5)



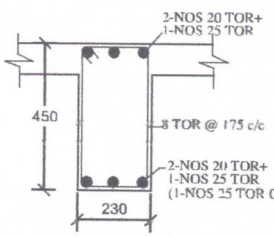
DETAILS OF BEAM (RB6)



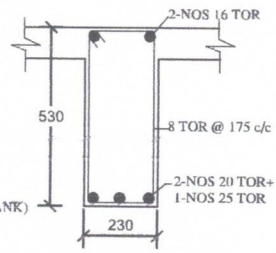
DETAILS OF BEAM (RB7)



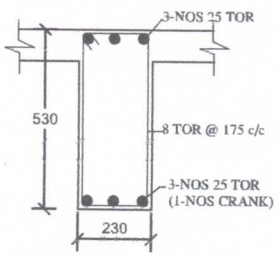
DETAILS OF BEAM (RB8)



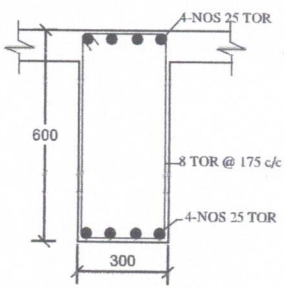
DETAILS OF BEAM (RB9)



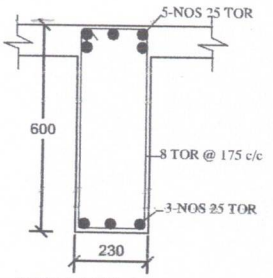
DETAILS OF BEAM (RB10)



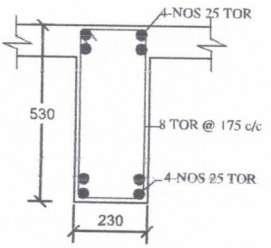
DETAILS OF BEAM (RB11)



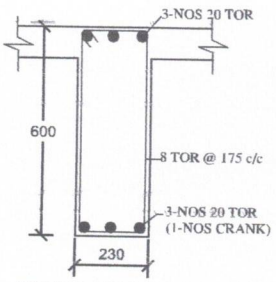
DETAILS OF BEAM (RB12)



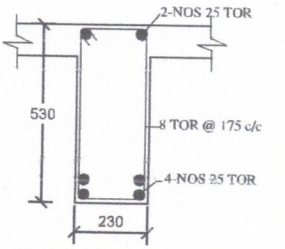
DETAILS OF BEAM (RB13)



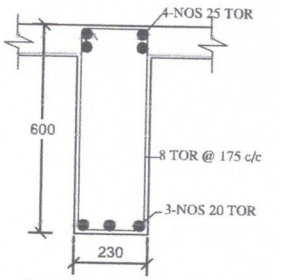
DETAILS OF BEAM (RB14)



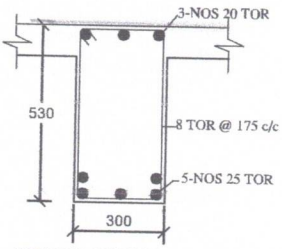
DETAILS OF BEAM (RB15)



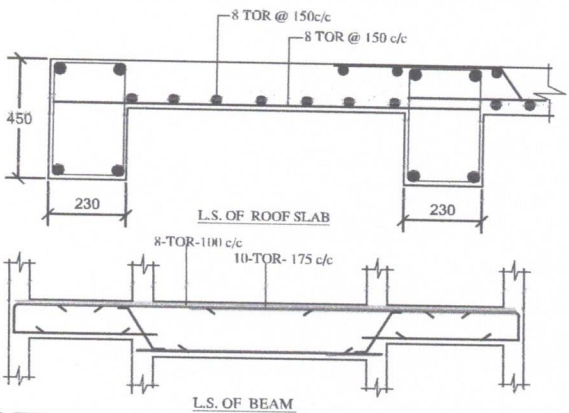
DETAILS OF BEAM (RB16)



DETAILS OF BEAM (RB17)



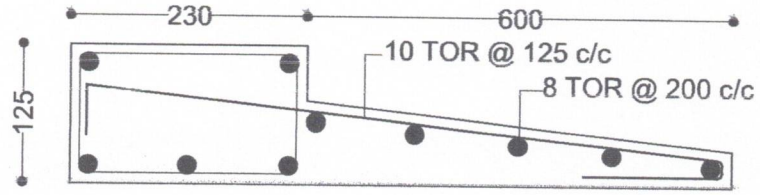
DETAILS OF BEAM (RB18)



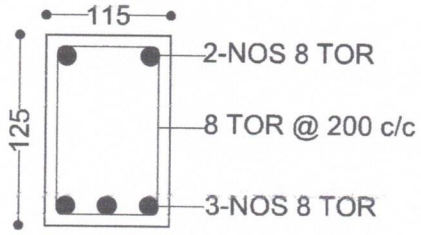
L.S. OF BEAM

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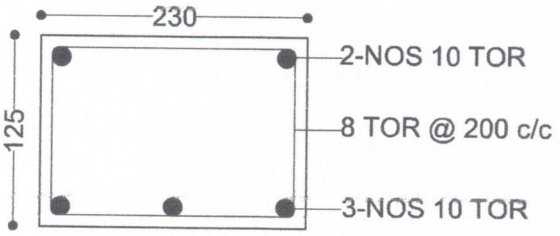
REINFORCEMENT DETAILS OF STILT & TYPICAL FLOOR ROOF BEAM FOR PROPOSED BUILDING AT DOOR NO.5/3, PLOT NO.3A&3B, RAM NAGAR 6th STREET, NANGANALLUR, CHENNAI-61.



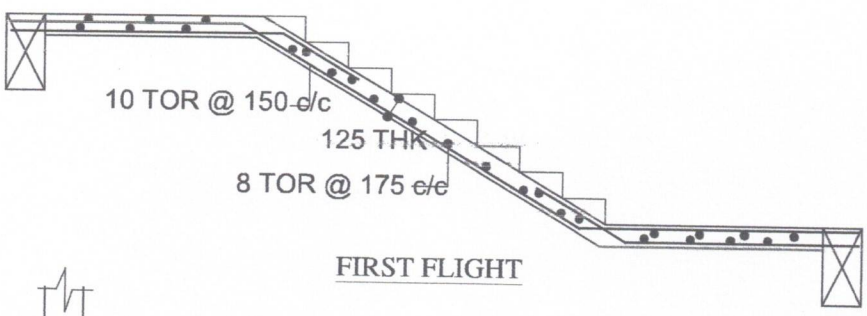
DETAILS OF LINTEL CUM SUNSHADE



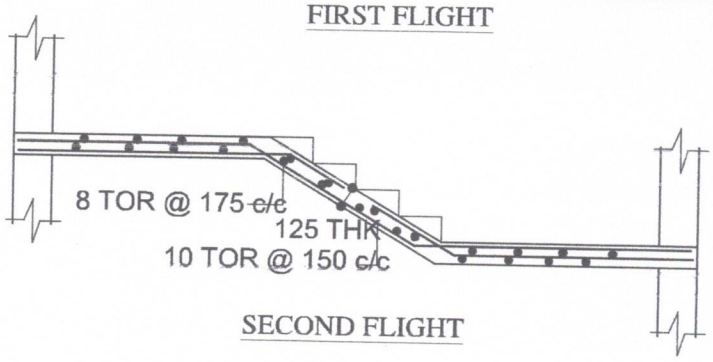
C.S. OF 115 THK LINTEL



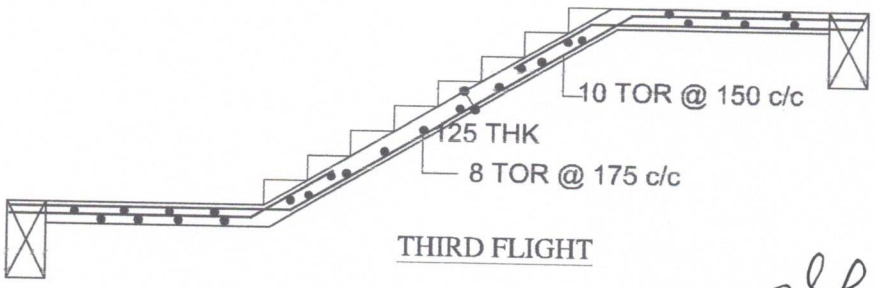
C.S. OF 230 THK LINTEL



FIRST FLIGHT



SECOND FLIGHT



THIRD FLIGHT

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REINFORCEMENT DETAILS OF LINTEL BEAM, SUNSHADE & STAIRCASE FOR PROPOSED BUILDING AT DOOR NO.5/3, PLOT NO.3A&3B, RAM NAGAR 6th STREET, NANGANALLUR, CHENNAI-61.

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

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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.