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RE REGULATORY RECORD

RERA Document

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Verified RealEstate™
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai 600 097, India

hello@verified.realestate
+91 9996 12 9996
verified.realestate

DIGITALLY VERIFIED RECORD

Er. K. Marimuthu, B.E.,M.I.S.trut.E.,M.I.C.I.,
Consulting Civil Engineer.

101, Basuvaraj Buildings,
Main Road, Thillainagar,
Trichy - 620 018.
✆ 0431 - 2741573
Cell : 94430 59910

Date .....

STRUCTURAL DESIGN OF FOUNDATION AND COLUMN DESIGN FOR THE PROPOSED CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING IN T.S.NO.9/2, (OLD WARD-B), NEW WARD-G, BLOCK-19 AT KONAKARAI ROAD, CHINTHAMANI VILLAGE, K.ABISHEKAPURAM ZONE, ZONE -V, TRICHIRAPPALLI CORPORATION.

Design

Foundation and shall be designed for the maximum span of 7.00m

Live Load = 400 kg/m^2

Dead Load = (1.00 x 1.00 x 0.10 x 2400)

Self weight of slab = 240 kg/m^2

Floor Finish = 100 kg/m^2

Total dead load = 340 kg/m^2

Live load + Dead Load = 400 + 340 = 740 kg/m^2

Load to be transferred to beam = 1 x 3x 740 x 1 = 2200 kg/m

Load to be taken by column = 2200 x 7.00 = 15400 kg

Since the proposed building will have Stilt + 3 upper floors

The column shall be designed for 4 floors i.e. 4 x 15400 = 61600 kg

(or) 70000 kg(70 Tones)

Using RCC M_{20} mix and Fe 550 Steel

Assuming area of column = AC cm^2

Area of column main rod = 4% of AC

Pu = 0.4 x 200 x Ac + 0.67 x fy x Ast

70000 = 0.4 x 200 x (Ac-0.04Ac) + 0.67 x 5500 x 0.04Ac

70000 = 0.4 x 200 x 0.96Ac + 147.4Ac

70000= 76.8Ac +147.4 Ac

70000 = 224.2Ac

Ac = 312.22 cm^2

Provide column to the size of 23 cm x 38 cm

Hence Ac = 874 cm^2 > 312.22 cm^2

Hence safe.

For NAVARATHNA PROPERTY DEVELOPERS

Managing Partner

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Ast required = 0.04 x 874 = 34.96 cm^2

Provide 8 No's of 25ϕ i.e. 8 x 4.91 = 39.28cm^2 > 34.96 cm^2

Design of Foundation:

From soil test report the safe bearing capacity of soil can be taken as 20T/m^2

Size of footing required = 70T/20T/m^2 = 3.5 m^2

Hence provide isolated footing to the size of 2.0 m x 2.0 m = 4m^2 > 3.5 m^2

Hence safe.

Er.K. MARIMUTHU,B.E.,M.I.STRUCT.E.M.I.C.I.,
CONSULTING STRUCTURAL ENGINEER
Corporation BL.S No: 086/LS/2021/00012
Registered Engineer
Reg No: RE/GR-I/DTCP/TRICHY/JULY-2024/23 ON 05.07.2024
Registered Structural Engineer
Reg. No: SE.GR -II /DTCP/TRICHY /JULY-2024/24 ON. 05.07.2024
Basuvaraj Building, Thillainagar,
Trichy - 620 018. Cell: 94430 59910

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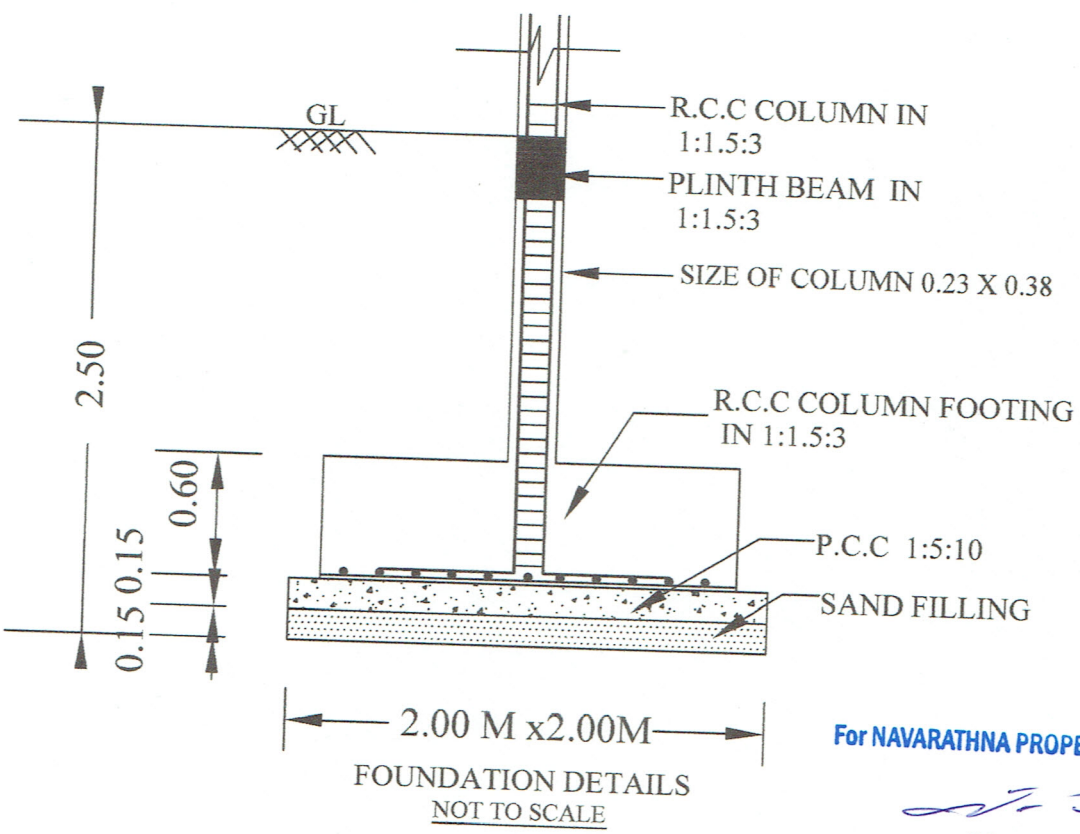
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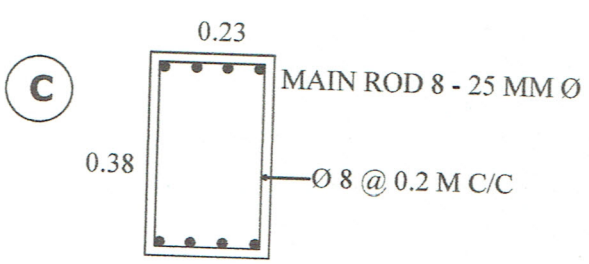
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FOUNDATION DETAILS
NOT TO SCALE

For NAVARATHNA PROPERTY DEVEL

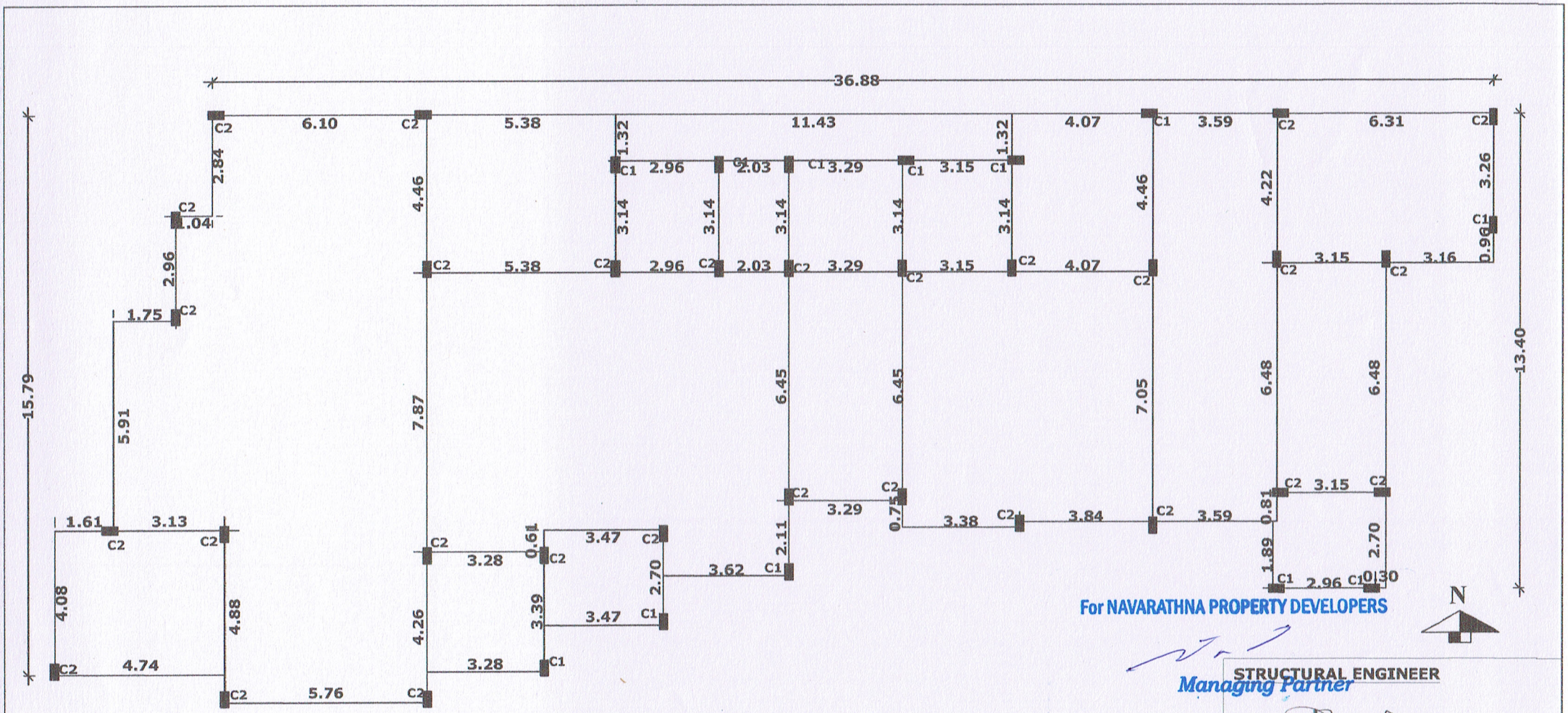
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COLUMN DESIGN

ENGINEER.

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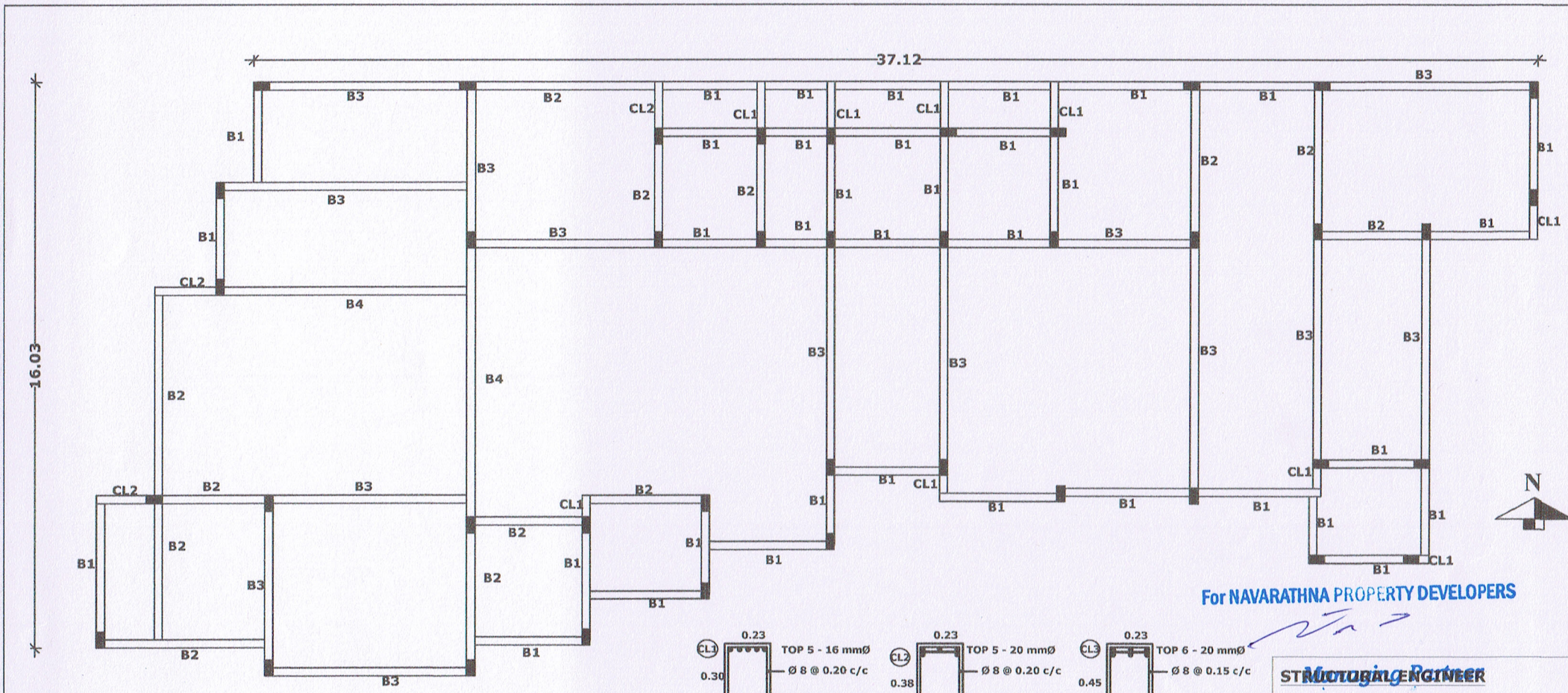
For NAVARATHNA PROPERTY DEVELOPERS

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S.NO	COLUMN	SIZE	MAIN ROD	TIES	MAT	FOOTING	FOOTING DEPTH	MIX
1	C1	0.23 x 0.38	8 - 16 MM Ø	Ø 8 @ 0.20 C/C Ø	Ø 12 @ 0.17 C/C Ø	1.80 X 1.80	0.45	M20
1	C2	0.23 X 0.38	8 - 25 MM Ø	Ø 8 @ 0.20 C/C Ø	Ø 12 @ 0.15 C/C Ø	2.00 X 2.00	0.53	M 20

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CL3	0.23	0.30	TOP 5 - 16 mmØ Ø 8 @ 0.20 c/c BOT 2 - 12 mmØ
CL2	0.23	0.38	TOP 5 - 20 mmØ Ø 8 @ 0.20 c/c BOT 2 - 16 mmØ
CL3	0.23	0.45	TOP 6 - 20 mmØ Ø 8 @ 0.15 c/c BOT 2 - 16 mmØ

B1	0.23		TOP 2 - 12 mmØ Ø 8 @ 0.20 c/c BOT 4 - 12 mmØ (2s+2ckd)
B2	0.23	0.38	TOP 2 - 12 mmØ 8 @ 0.20 c/c BOT 4 - 16 mmØ (2s+2ckd)
B3	0.23	0.45	TOP 2 - 16 mmØ 8 @ 0.15 c/c BOT 4 - 20 mmØ (2s+2ckd)
B4	9"	0.53	TOP 2 - 16 mmØ 8 @ 0.15 c/c 2 - 12 mmØ BOT 5 - 20 mmØ (3s+2ckd)

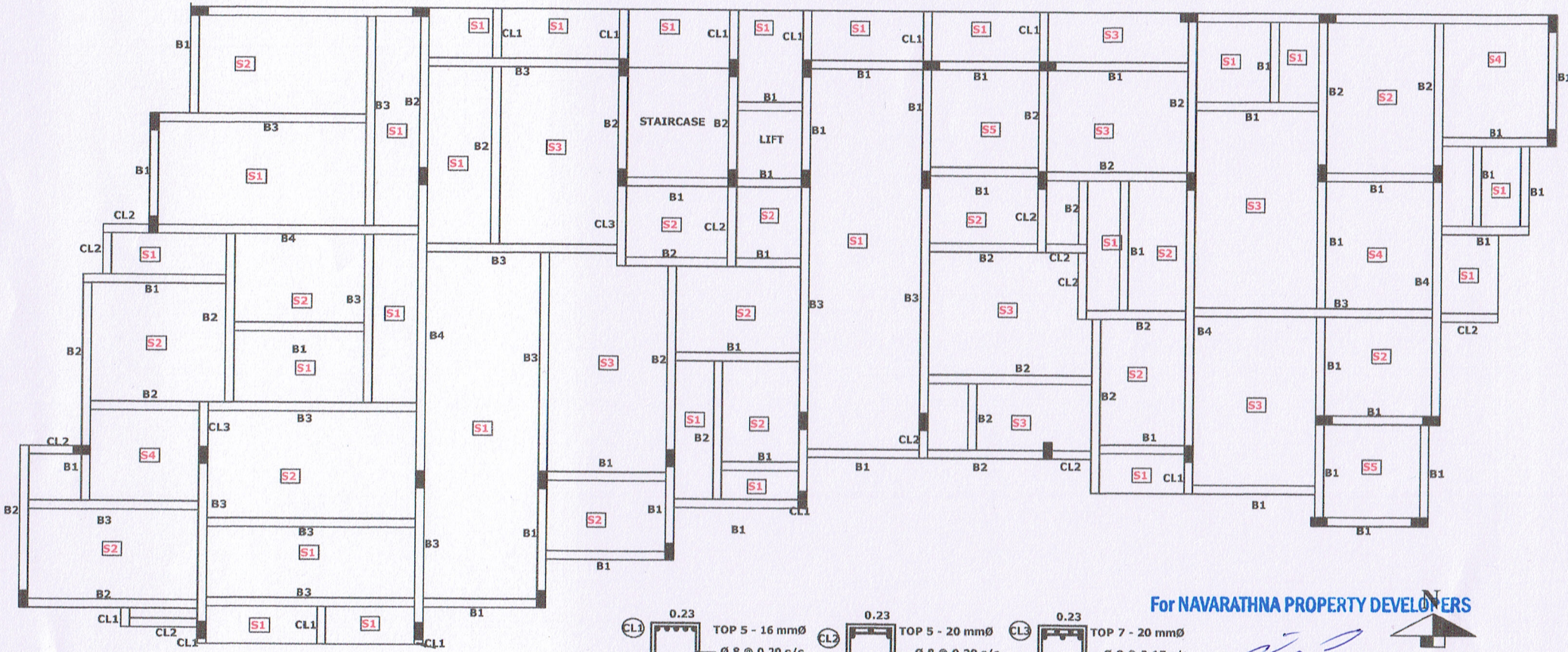
ANNAMALAI NAGAR PLINTH BEAM DRAWING

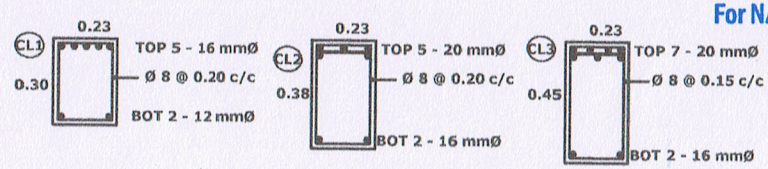
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Er.K. MANIMARAN, B.E., M.I.STRUCT.E.M.I.C.A.,
CONSULTING STRUCTURAL ENGINEER
Corporation BL.S No: 086/LS/2021/00012
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ANNAMALAI NAGAR ROOF BEAM DRAWING

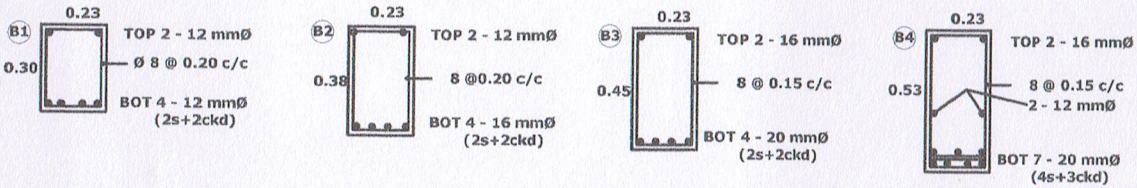
FLATS @ ANNAMALAI NAGAR





For NAVARATHNA PROPERTY DEVELOPERS

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SLAB REINFORCEMENT

S1 -	MAIN ROD	Ø 10 @ 0.17 C/C	0.10 THK
	DISTRIBUTOR	Ø 8 @ 0.20 C/C	
S2 - SHORT SPAN		Ø 10 @ 0.17 C/C	0.10 THK
	LONG SPAN	Ø 8 @ 0.15 C/C	
S3 -SHORT SPAN		Ø 10 @ 0.10 C/C	0.12 THK
	LONG SPAN	Ø 10 @ 0.17 C/C	
S4 - Ø 10 @ 0.17 C/C BOTH WAYS			0.10 THK

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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.