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JAYAM CONSULTANTS PRIVATE LIMITED

H.O. : G-2, "SESHADRI MANOR" #1, SESHADRI ROAD, ALWARPET, CHENNAI - 600 018.
PHONE : 91 44 24990477, 91 44 24994734 E-mail : email@jayamcpl.com
Website : www.jayamconsultantsprivtlimited.com

STABILITY CERTIFICATE

It is certified that the plan showing the proposed Construction of Stilt + 4 floors + 5th floor (Part)Residential building (Height 18.3m) with 18 dwellings units with Availing premium FSI with TOD benefit at new door no 13, Old door no 24, Temple Avenue Road, Srinagar Colony, Saidapet, Chennai-600015, Comprised in block 8, Survey Nos 95(part) and 96/2 (part), T.S no 6 Venkatapuram Village, Guindy Taluk and within the limits of Greater Chennai corporation is designed to resist for earthquake. Check has been made and found safe and I hereby certify that

The minimum grade of concrete is M25

The Minimum column size if 300 mm in stilt areas

The design analysis using the code of practice for loading standards as per BIS-875 and seismic forces as per the latest code BIS- 1893 & BIS- 456.

I.S.456	-	2000 (Code of practice for PCC & RCC)
I.S.875	-	2015 (Code of practice for design loads for buildings & structures)
S.P.16 & S.P.34-		2002 (Code of practice for design and detailing)
I.S.13920	-	2016 (Code of practice for design and detailing for earthquake)
I.S.1893	-	2002 (Criteria for earthquake resistant building)
I.S.4236	-	1993 (Code of practice for design earthquake resistant building)
NBC	-	2005.

Signature of Structural Engineer,

J.S PADMANABHAN
S. PADMANABHAN
Registered Structural Engineer
Grade - 1 (SE)
Regn. No. SE/GR-I/19/05/123

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT + 4 FLOORS + 5TH FLOOR (PART)RESIDENTIAL BUILDING (HEIGHT 18.3M) WITH 18 DWELLINGS UNITS WITH AVAILING PREMIUM FSI WITH TOD BENEFIT AT NEW DOOR NO 13, OLD DOOR NO 24, TEMPLE AVENUE ROAD, SRINAGAR COLONY, SAIDAPET, CHENNAI-600015, COMPRISED IN BLOCK 8, SURVEY NOS 95(PART) AND 96/2 (PART), T.S NO 6 VENKATAPURAM VILLAGE, GUINDY TALUK AND WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION

TYPICAL STRUCTURAL DESIGN CALCULATION

01. General

Proposed Building S+5 floors for residential purpose. Stilt Floor is provided for car parking.

02. Design Basis :

Latest Design codes of BIS-456, 875 AND 1893 are followed with SP-16. Design Aid book. A Typical Frame was taken for analysis to arrive at the bending moment for column design, since the building is S+5 stories; wind force is taken in to account. Live Load reduction factor is applied in design. Pile foundation is proposed as per soil report. Fe-550 grade steel is used and 16mm bars for main steel and 8 mm bars for distributors.

03. Earthquake consideration.

For better stability during earthquake, the columns are braced in both directions with beams, continuous lintels are specified for outer walls and column ties are closely spaced for better ductility. For Building on stilt, Minimum size is taken as 300 mm (12")

04. WIND LOAD

Vz = Vb x K1 x K2 X K3
Vb = 50m/sec in chennai
K1 = Probability Factor = 1
K2 = Terrain, Height Factor = 1.03
K3 = Topography Factor = 1
K4 = Cyclonic Factor = 1.15

P = 0.6 x Vz x Vz
= 0.6 x 50 x 50
= 1500 N / Sq.m

FLOOR LOADS :

DEAD LOADS

Assuming 5"thk slab dead load	=	313 kg/sqm
Weight of floor finish, partitions etc.,	=	131 kg/sqm
Total dead load	=	444 kg/sqm

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LIVE LOADS

Live load on typical floor	=	200 kg/sqm
Total load on typical floor	=	644 kg/sqm

ROOF LOADS

Assuming 5''thk slab dead load	=	313 kg/sqm
Weight of weathering course	=	273 kg/sqm
Total dead load	=	586 kg/sqm
Live load on roof with success assumed	=	150 kg/sqm
Total roof load	=	736 kg/sqm
Staircase loading liable to overcrowding	=	500 kg/sqm
Wind load considering height of building	=	200 kg/sqm

BRICK LOADS

Weight of brick per sqm	=	1890 kg/cum
Assuming beam size of 9''x24''	=	335 kg/rm
R.C.C Mix to be adopted	=	M25

LOAD ON TYPICAL COLUMN

Slab load of stilt floor	=	9.02 ton
Slab load for four floors	=	36.08ton
Roof load	=	10.31ton
Beam load	=	12.57ton
Brick work load	=	37.50ton
Self weight of column assuming (12''x24'')	=	5.07ton
Total load on column	=	110.55ton
Say	=	111ton

Provide 10-Y25

Safe capacity of above section = 178ton

Hence safe

TYPICAL FOUNDATION

Capacity of pile = 500mm dia pile, 28.5m deep, capacity of 65Mt
As per soil report

No of pile required = 2 Nos

No of piles provided = 3 Nos.

Hence safe.

TYPICAL SLAB

Ly/Lx = 4.0/3.5 =1.14

Hence two way slab

Provide 5''thk slab

Provide Y8 @ 4'' C/C (shorter direction)

Provide Y8 @ 7'' C/C (longer direction)

TYPICAL BEAM

Span = 5.965m

Slab load = 1805kg/m

Self weight = 350 kg/m

Total load = 2155kg/m

Bending moment = 8028.01kg-m

B.M due to conc 1 = 6545.3kg-m

B.M due to conc 2 = 3145.00kg-m

Total bending moment = 17718.31kg-m

EARTHQUAKE ANALYSIS

Calculation of horizontal seismic coefficient
As per code I.S.1893/2016 Ah = ZI/2R x Sa/g

Zone factor (Chennai zone) z = 0.16

Importance factor I = 1.2

Response reduction factor R = 5.0

Natural period

Ta = 0.075h

= 0.075x18.25

= 1.368secs

H = (Ht of buildg)

Sa/g = 1.67/t

Sa/g = 1.67/1.368 = 1.22

$$Sa/g = \frac{0.16 \times 1.2}{2 \times 5.0} \times 1.22$$

= 0.0233

CALCULATION OF BASE SHEAR/SEISMIC FORCES

Floor	Wi	Hi	Wi x Hi^2	Qi
Terrace	87.108	18.25	29012.08	11.825
5	113.483	15.25	26391.89	11.825
4	113.483	12.25	20258.05	11.825
3	113.483	9.15	9501.08	1.8718
2	113.483	6.3	4504.14	0.887
1	113.483	3.45	1350.73	0.266
Stilt	14.691	0.6	5.288	1.04×10^{-3}
EWI	442.248		E 91023.258	

Base shear V = Ah EWI

= 0.0233 x 91023.258 = 8.29ton

Seismic force per column = 8.29/4 =2.07

Seismic moment per column = 2.07x3/2 =1.39

Column provided is safe against the additional seismic moment of 1.39mt.

CHECK FOR FOUNDATION

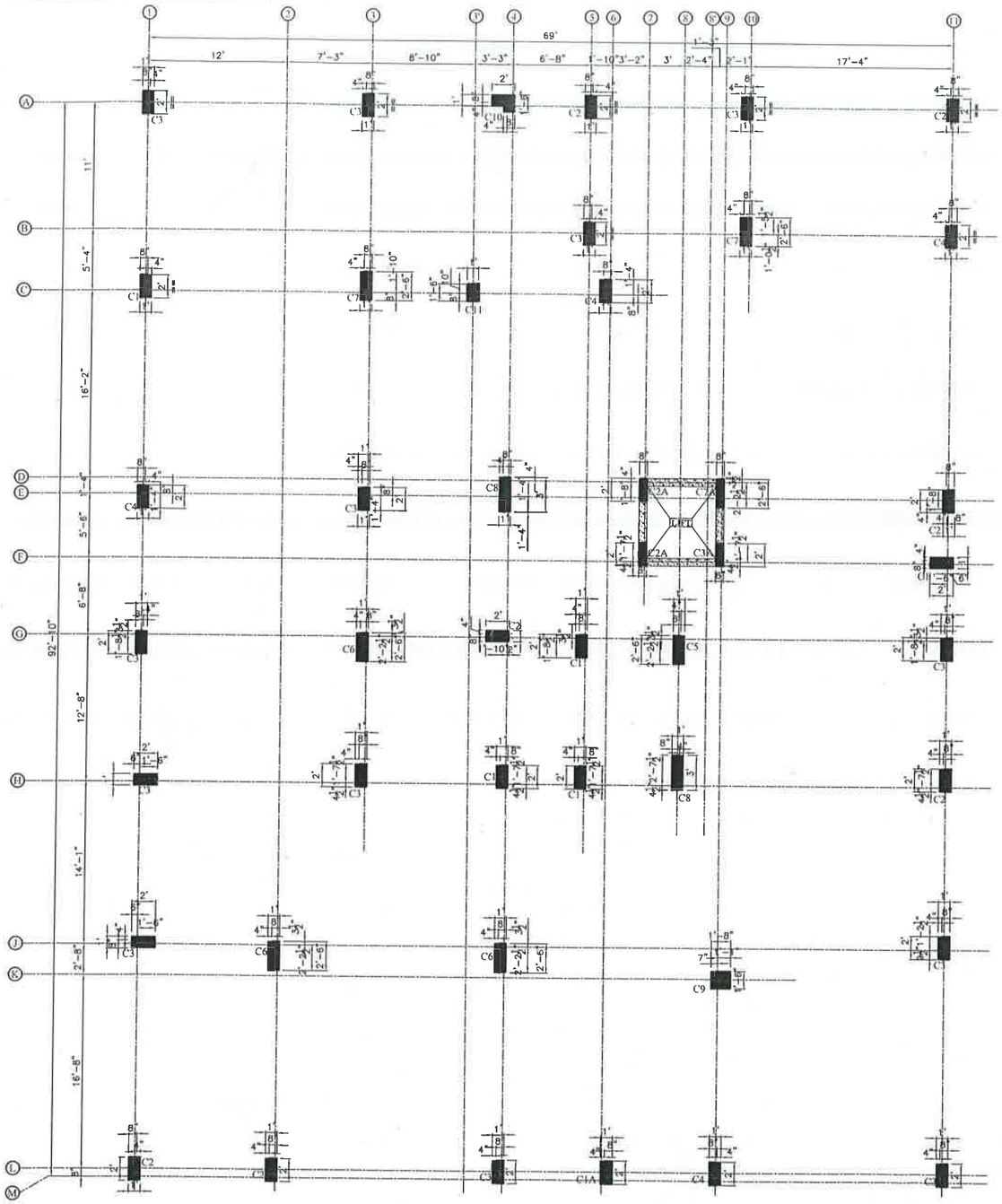
P/N +(M/L)/N

$$\frac{111}{2} \pm \frac{1.39/1.25}{1}$$

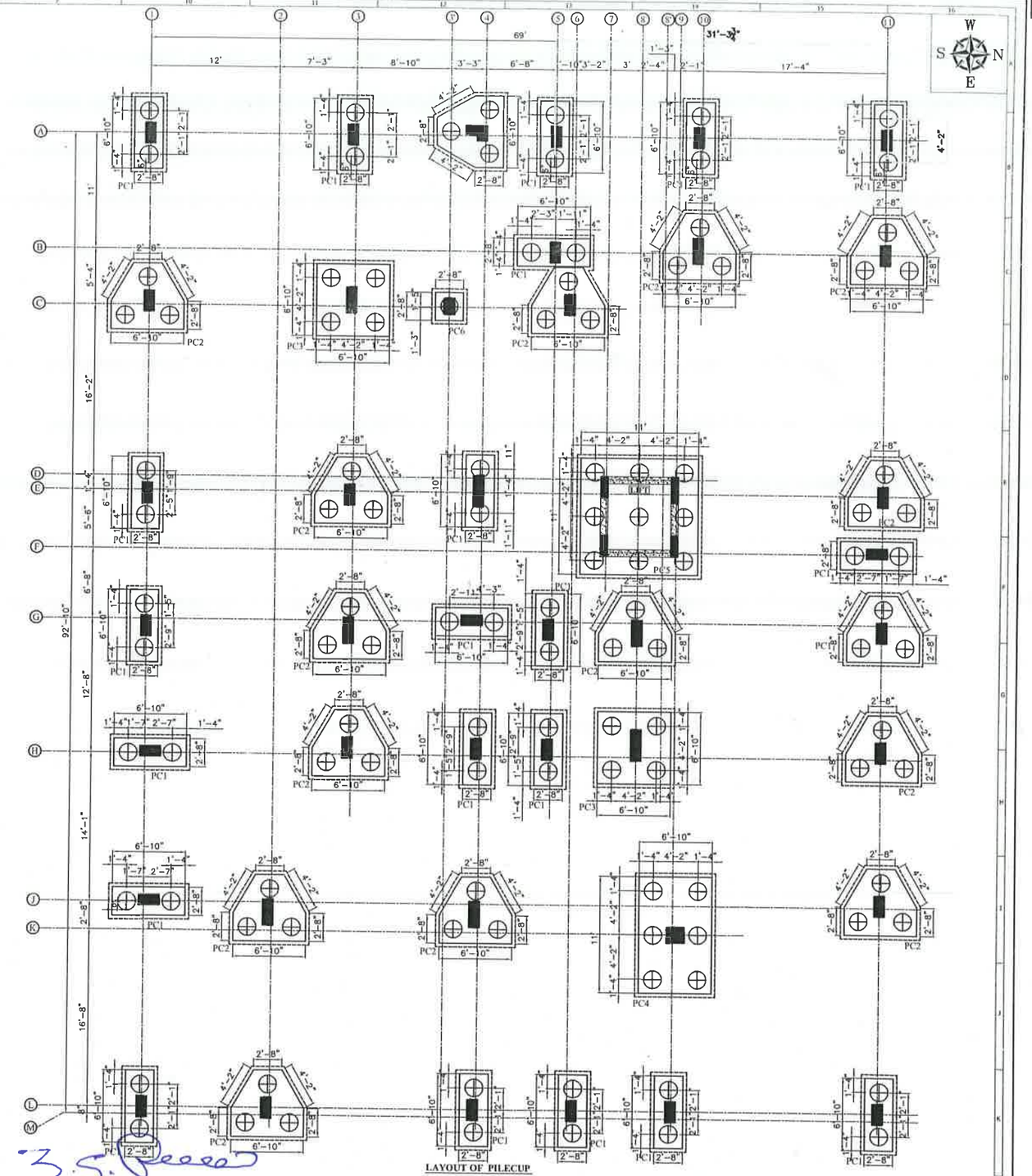
55.5 +- 1.12
=56.62
=1.25 x 65
=81.25ton

Hence safe

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LAYOUT OF COLUMN



LAYOUT OF PILECUP

SPECIAL NOTES FOR FRICTION CUM END BEARING PILING:-

1. ALL REINFORCEMENT FROM PILE SHOULD BE TAKEN UPTO TOP OF CAP AS SHOWN
2. PILE DRILLING & CONCRETING TO BE CARRIED OUT FOR EACH PILE IN SEQUENCE & COMPLETED BEFORE TAKING UP NEXT PILE DRILLING. TIME GAP BETWEEN COMPLETION OF DRILLING AND START OF CONCRETING SHOULD NOT BE MORE THAN 4 HOURS.
3. CASTING OF PILE CAP TO BE DONE ONLY AFTER ALL PILING FOR OTHER STRUCTURE IN THE VICINITY ARE COMPLETED
4. USE OF BENTONITE SLURRY SHOULD BE ENSURE WITH CONSECTENCY FROM STABILISING BORE HOLE TILL CONCRETING AS PER IS-2911(PART1/SEC-2)-1979
5. CONCRETING MUST BE ADOPTED USING TERMIE METHOD WITH GENERAL PRECAUTIONS
6. LOWERING OF WATER TABLE MUST BE ENSURED TO MAXIMUM LEVEL SHOULD BE MAINTAINED
7. SLUMP OF CONCRETE BY TERMIE METHOD SHALL BE MAINTAINED NOT LESS THAN 6"
8. CONCRETING SHALL GO UNINTERRUPTED, IF INTERRUPTED NECESSARY PRECATIONS SHOULD BE ENSURED AS PER IS-2911(PART1/SEC-2)-1979
9. INCASE OF DEFECTIVE PILING SHOULD BE INFORMED TO DESIGN OFFICE TO GO AHEAD WITH CHANGE IN DESIGN THEREAFTER. DATA SHEETS AS PROVIDED IN APPENDIX-D OF IS-2911(PART1/SEC-2)-1979
10. TEMPORARY CASING SHALL BE CONSIDERED INTO ACCOUNT DUE TO HIGH WATER TABLE AT THE TIME OF CONCRETING

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NOTES:
1. ALL DIMENSIONS ARE IN ` FEET & INCHES '
2. USE CONCRETE GRADE M30
3. LAP LENGTH FOR COLUMN 40ϕ & OTHERS 50ϕ.
4. CLEAR COVER TO THE REINFORCEMENT OF COLUMN : 1½" PILE TOP & BOTTOM IS 2", SIDE: 2", PILE CAP :2"
5. HIGH YIELD STRENGTH DEFORMED BARS CONFIRMING IS 1785-2017 TO BE USED FE 550.
6. Y DENOTES FOR TOR STEEL.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+5 FLOORS

PROJECT :-

PROPOSED RESIDENCE SRINAGAR COLONY

STRUCTURAL CONSULTANTS :-

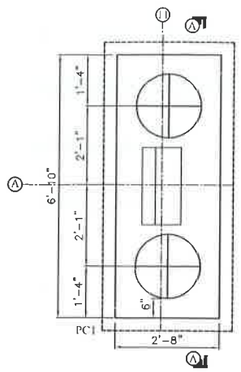
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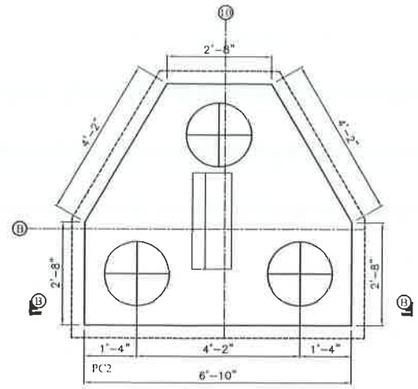
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DRN.	ABI				
CHKD.	S.RS				
APPD.	J.S.P				
DATE	30-08-25	SCALE:- 1:75	DRG. No : JCPL-	SHEET - 1 OF 1	REV. R0

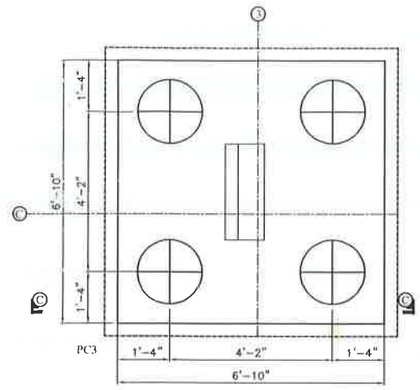
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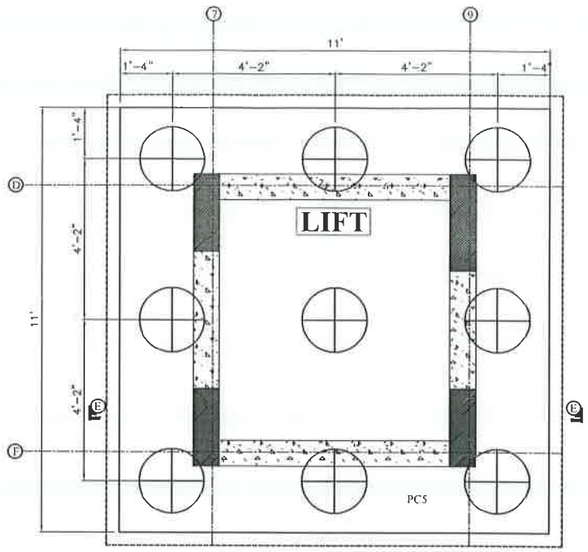
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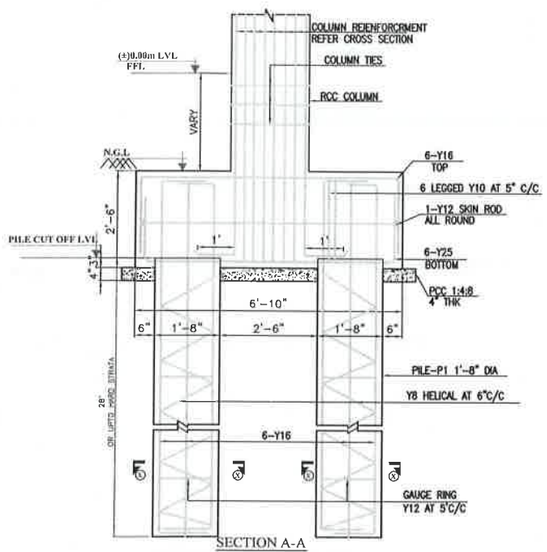
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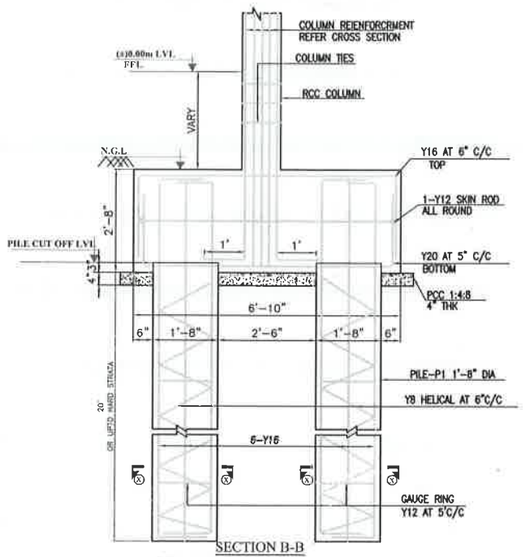




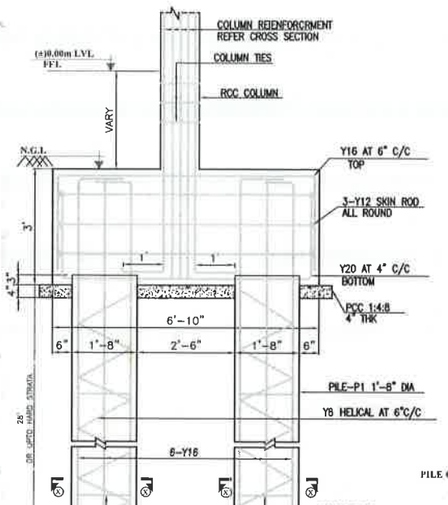




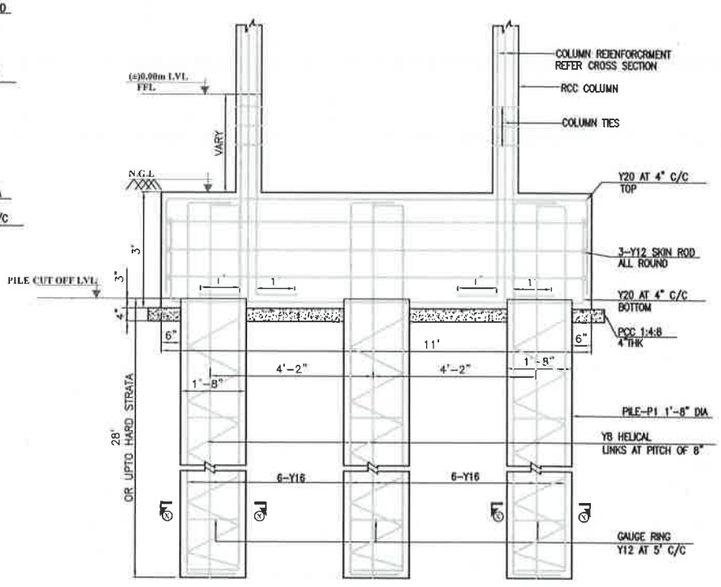
SECTION A-A
C.S DETAIL OF PILECAP - PC1



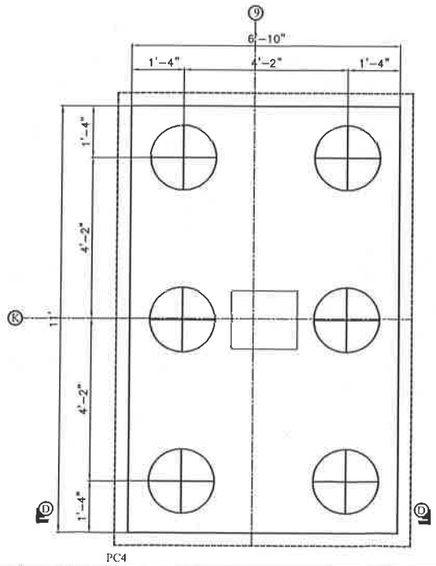
SECTION B-B
C.S DETAIL OF PILECAP - PC2

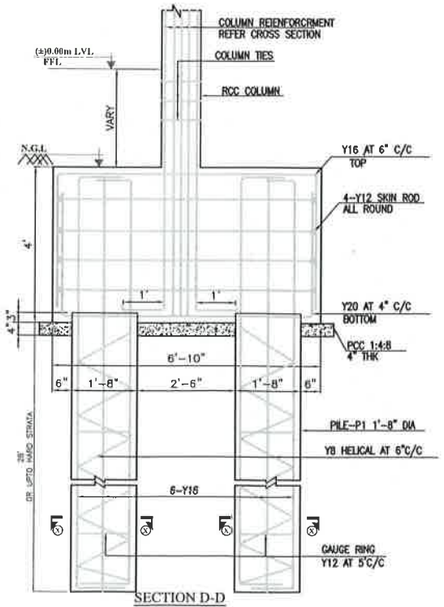


SECTION C-C
C.S DETAIL OF PILECAP - PC3

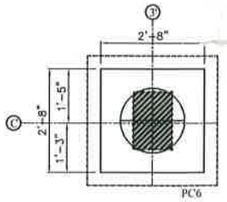


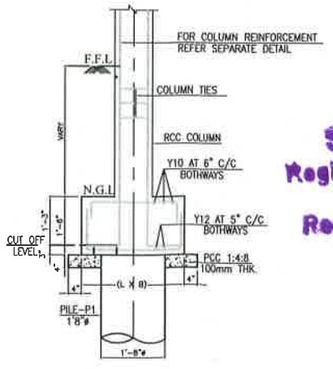
SECTION E-E
C.S DETAIL OF PILECAP - PC5



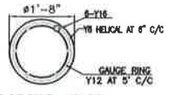


SECTION D-D
C.S DETAIL OF PILECAP - PC4





SECTION F-F
C.S DETAIL OF PILECAP - PC6



C.S OF PILE - 1'8" DIA
SECTION X-X

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DGN.	S.RS
DRN.	ABI
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TITLE:-

DETAIL OF PILE & PILECAP

DATE	SCALE:-	DRG. No :	SHEET	REV.
30-08-25	1:75	JCPL-	1 OF 1	R0

FILE NAME :- XXXXXXXX

SIZE : A1

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

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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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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.