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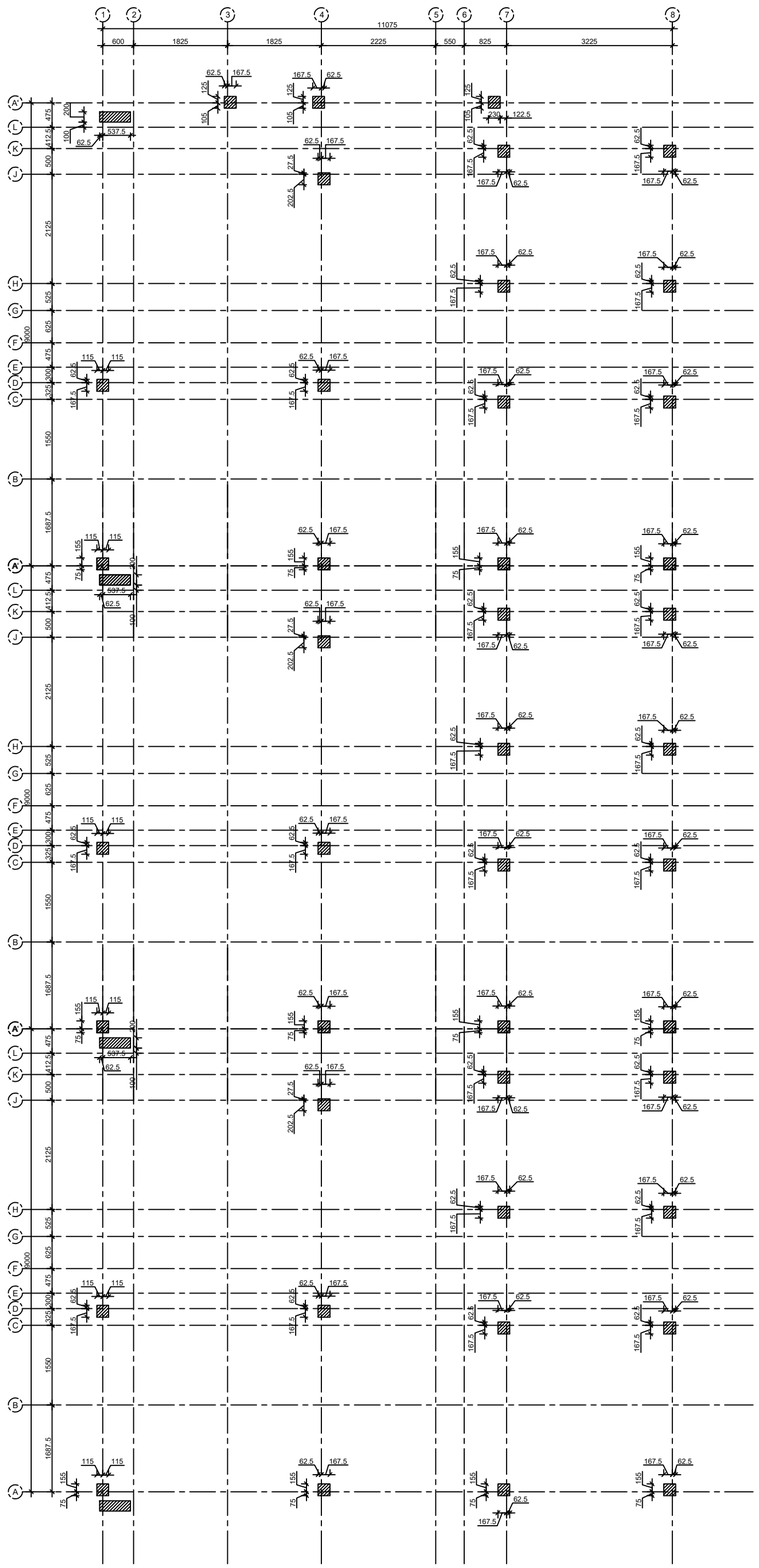
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai, India

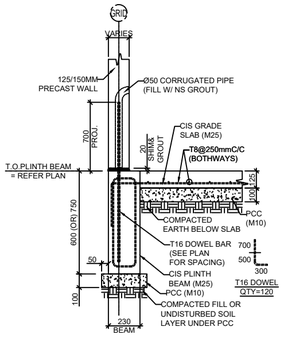
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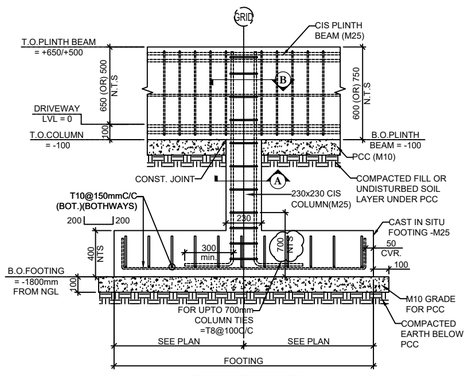
Official Property Record

Digitally Verified Record - Powered by Verified RealEstate™

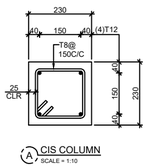




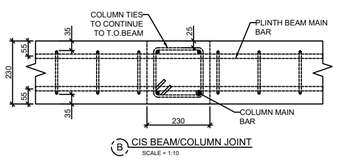




TYP. FOOTING DETAIL



A CIS COLUMN
SCALE = 1:10



B CIS BEAM/COLUMN JOINT
SCALE = 1:10

Design Report

Load Calculation

Dead Load

Slab load 150mm tk.	3.75 kN/sqm.
Floor finish	1.50 kN/sqm.
Live Load	2 kN/sqm.
Factored of safety	1.5
Factored Total Load	10.875 kN/Sqm.

Design of Isolated square footing

Unfactored Load of column	389 kN
Safe bearing capacity of soil	131 kN/Sqm.
Required area of footing	2.97 Sqm.
Footing dimensions	
Length "l"	1.75 m
Breadth "b"	1.75 m
Provided area of footing	3.06 Sqm.
Ultimate pressure below foundation	126.9 kN/sqm.

Depth for bending moment

Lx	0.76 m
Ly	0.76 m
Mux	96.20 kN-m
Muy	96.20 kN-m
dx	348.19 mm
dy	348.19 mm
Provide	
D	400 mm
Cover	50 mm
Effective depth,d	350 mm

Reinforcement

Mux/bd2	0.45 N/mm2
Pt	0.12 %
Ast	735 mm2
Dia of Rod	10 mm
Area of Rod	78.54 mm2
Spacing, Req	187 mm
Spacing, Prov	150 mm

One Way Shear

distX	0.41 m
Vux	136.57 kN
Tv	0.323 N/mm2
Ast prov	916.29 mm2
Pt prov	0.15 %
Tc	0.29 N/mm2
Tv < Tc	Hence Safe

Two Way Shear

b	2320 mm
Vus	518.9 kN
Tv	0.639 N/mm2
Tc	1.25 N/mm2
Tv < Tc	Hence Safe

Size of footing to provide 1.75 x 1.75 x 0.40 m

Reinforcement to provide

Dia	Spacing	C/C
10.0	**150**	**mm**

Design of Column

Column Dimensions;

Breadth , 'b'	230 mm
Depth , 'D'	230 mm
Concrete Grade	M 25
Yield Strength of steel , fy	500 N/sqmm.
Concrete Cover to main bars	40 mm

Details of Reinforcement:-

Diameter of bars	12 mm
No. of bars on 230mm face	2
No. of bars on 230mm face	2
Total numbers of bars	4 nos
Total Ast	452 sqmm
Percentage of reinforcement	0.854 < 4% OK

Therefore we can adopt 230x 230 column with 4 numbers of 12 dia rod

PLAN SHOWING THE PROPOSED ROW HOUSING PROJECT BUILDING IN S.F.No:784/1F1, 748/4B,784/7 KALAPATTY VILLAGE, COIMBATORE NORTH TALUK, COIMBATORE CORPORATION.

APPLICANT - TOWN AND CITYDEVELOPERS

INDEX

RCC COLUMN --- (200x600 mm)

N

Ar. PRESTON VARGHESE
REG No. CA/2008/42373
Coimbatore LPA/RA/GR-I/19/04/019

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Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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We're honored to be part of your real estate journey

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