Verified RealEstate™

Your trusted partner for buying, selling, and managing property, ensuring hassle-free service with 100% transparency.

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

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

Official Property Record



Digitally Verified Record - Powered by Verified RealEstate™

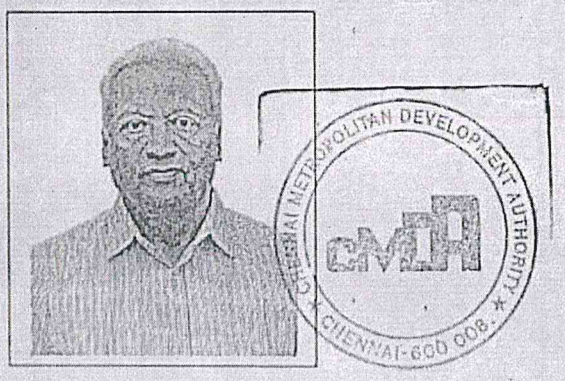
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'ThalamuthuNatarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that the **Thiru. ALEX JAOB** has enrolled as **Registered Structural Engineer Grade-I (SE)** with Chennai Metropolitan Development Authority (CMDA) who has the qualification of **M.Tech.,(Structural Engg.)** and experience in the relevant field for **52 years.**

He has been given the Registration No.**SE/GR-I/2024/02/001** on **11.02.2024.** He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part-V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. dated 04.02.2019.

This Registration is valid upto **10.02.2029.**



Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

11/2/24

(A. MEGANATHAN)
Superintendent

Dr. ALEX JACOB
B.E., M.Tech (Str)., Ph.D (Hon)., Dip. Bdg.Sc(Aust)., M.I.E.(Aust), M.I.E.(Ind)
CONSULTING ENGINEER
Old No.41/A, New No. 70, Beach Road, Kalakshetra Colony,
Besant Nagar, Chennai - 600 090.

Phone { Off : 044 - 24910945
044 - 24464478
Mob : +91-98401-59550
E-mail: alexjacobuc@gmail.com
alexjacob@unitedconsultants.in
Web : www.unitedconsultants.in

14.11.2024

STABILITY CERTIFICATE

It is certified that the Proposed Construction of Stilt Floor + 5 Floors (Height 18.30m) Residential Building with 20 Dwelling Units availing premium FSI at M-8, Old No: 150F, New No: 113/8F, M.I.G Colony, L.B. Road, Thiruvanmiyur, Chennai – 600 041. Comprised in Old S.No: 30/1 Part, T.S. No: 171/6, Block No: 10, of Thiruvanmiyur Village, within the Limits of Greater Chennai Corporation, Division No: 180 Zone - 13, is designed to resist earth quake. Check has been made and found safe and I hereby certify that,

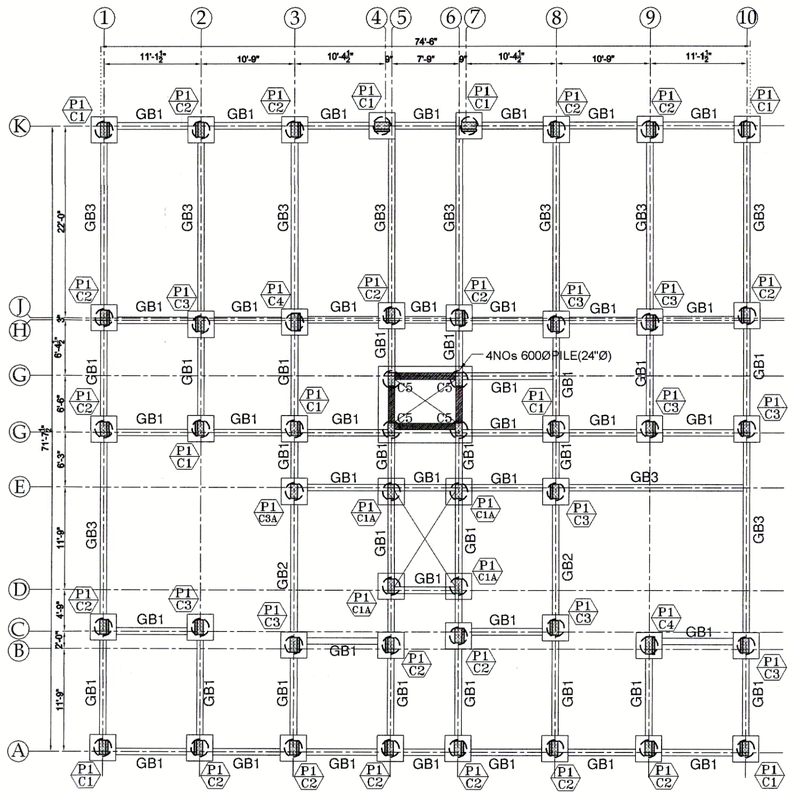
1. The minimum grade of concrete is M 25.

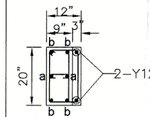
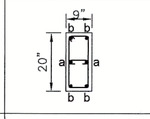
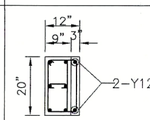
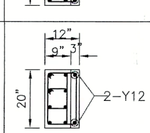
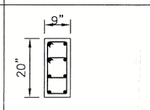
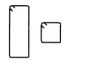
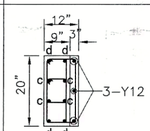
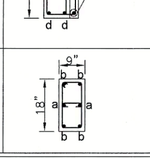
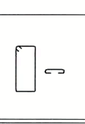
2. The design and analysis using the Code of Practice for Plain and Reinforced concrete as per IS 456, Design Loads as per IS-875 Part I to V and Design of Earthquake Resistant Structures as per IS 1893 are carried out.

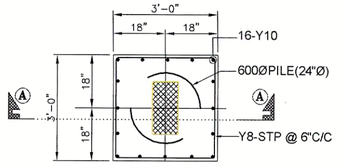
The building will be sound and stable when used for the purpose for which it is designed.

(Dr.ALEX JACOB)

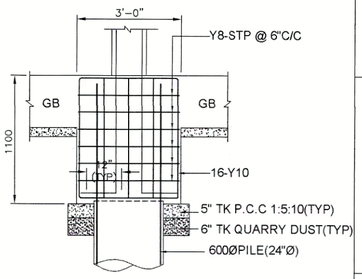
Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019



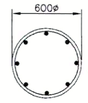
COL-NO	SIZE	REINFORCEMENT		SECTION	SHAPE OF TIES
		MAIN REINF.	TIES		
COL- C1	12" X 20"	4-Y16(b)+ 2-Y12(a)	Y8-TIES @ 8"C/C		
COL- C1A	9" X 20"	4-Y16(b)+ 2-Y12(a)	Y8-TIES @ 8"C/C		
COL- C2	12" X 20"	6-Y20	Y8-TIES @ 8"C/C		
COL- C3	12" X 20"	8-Y20	Y8-TIES @ 8"C/C		
COL- C3A	9" X 20"	8-Y20	Y8-TIES @ 8"C/C		
COL- C4	12" X 24"	4-Y25(d)+ 4-Y20(c)	Y8-TIES @ 8"C/C		
COL-C5 (LIFT WELL)	9" X 18"	4-Y16(b)+ 2-Y12(a)	Y8-TIES @ 8"C/C		



PILE - P1

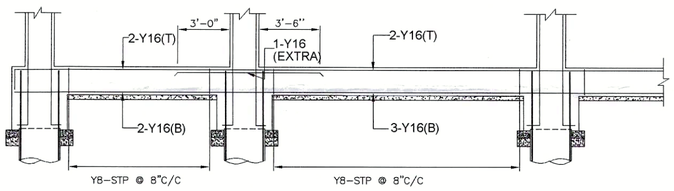


SECTION - A A

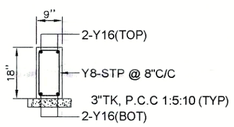


600ø PILE(24"ø)

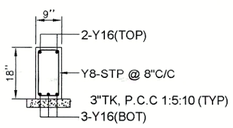
(SAFE LOAD 160 TONNES)



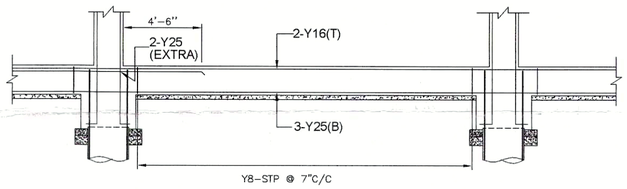
L.S OF GB1 L.S OF GB2



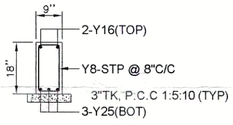
C.S OF GB1



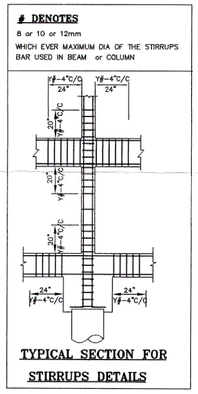
C.S OF GB2

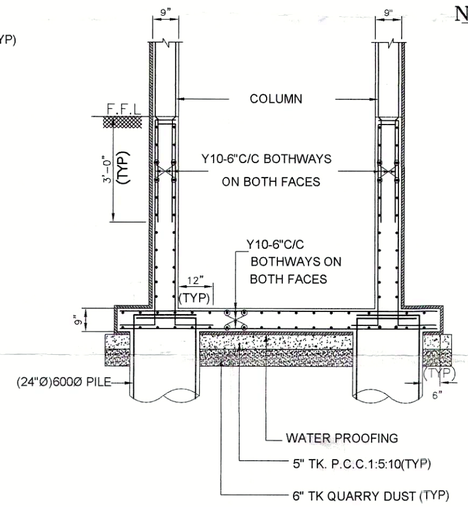


L.S OF GB3

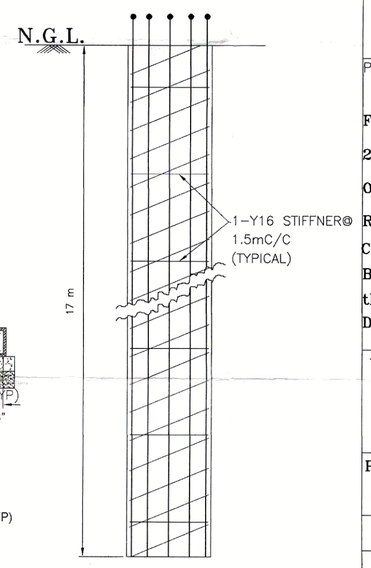


C.S OF GB3





LIFT WELL SECTION



TYP. SEC. OF PILE

(BORED CAST-IN-SITU PILE)

SCHEDULE OF STRUCTURAL DETAIL

NOTES

G+5

- **REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.**
- CONCRETE MIX SHALL BE M30 FOR COLUMN & M25 (1:1.5:3) FOR ALL OTHER R.C.C WORKS
- CONCRETE MIX SHALL BE M40 FOR PILE WITH MINIMUM CEMENT CONTENT OF 400KG/M^3
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
  - (i) PILE 50mm
  - (ii) PILE CAP 50mm
  - (iii) COLUMN 40mm
  - (iv) GRADE BEAM 30mm
  - (v) R.C.C WALL 25mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.NO	DATE	DESCRIPTION OF REVISION	REVISED BY

STRUCTURAL CONSULTANT

UNITED CONSULTANTS

CIVIL & STRUCTURAL CONSULTING ENGINEERS.
41/A, BEACH ROAD,
KALAKSHETRA COLONY,
BESANT NAGAR, CHENNAI 600 090
P.H. NO: 044-24910945,24464478
email: alexjacobuc@gmail.com
Web site: www.unitedconsultants.in

PROJECT

Proposed Constructionof Stilt Floor + 5 Floors (Height 18.30m)Residential Building with 20 DwellingUnits availing premium FSI at M-8, Old No: 150F, New No: 113/8F, M.I.G Colony,L.B. Road,Thiruvanmiyur, Chennai - 600 041. Comprised in Old S.No: 30/1 Part,T.S. No:171/6 Block No: 10,of Thiruvanmiyur Village, within the Limits ofGreater Chennai Corporation, Division No: 180 Zone - 13.

TITLE

PILE FOUNDATION DETAIL

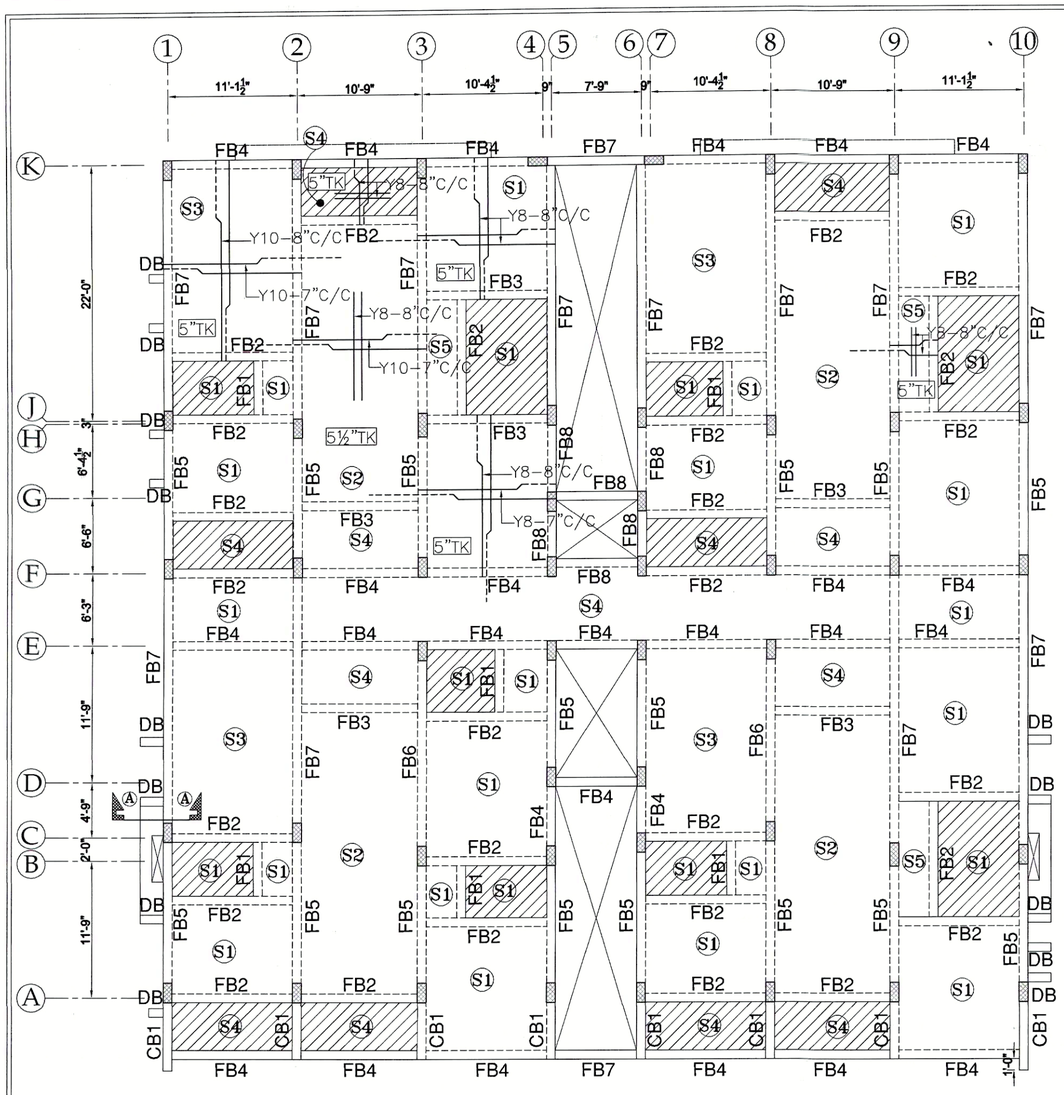
PROJECT NO:

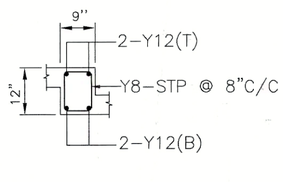
AJ/ 3602-CORPORATION- PUSHKAR PROPERTIES -THIRUVANMIYUR

DSND	**Dr.Alex Jacob**
DRN	LAVANYA
DATE	14.11.24
SCALE	1 : 8"

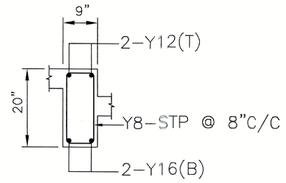
DR.ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

FILE NAME E:\LAVANYA\AJ/ 3602-CORPORATION -PUSHKAR PROPERTIES- THIRUVANMIYUR-PILE FOUNDATION DETAIL

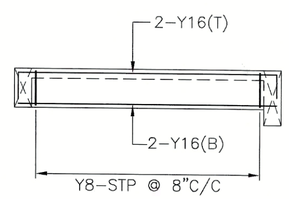




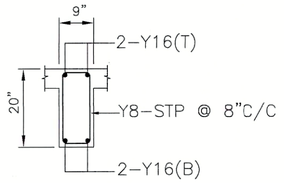
C.S OF FB1



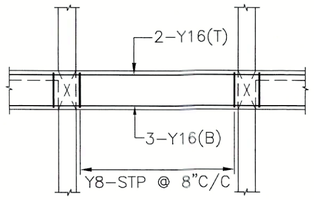
C.S OF FB2



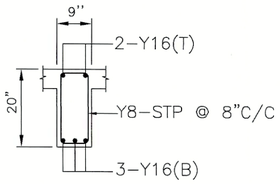
L.S OF FB3



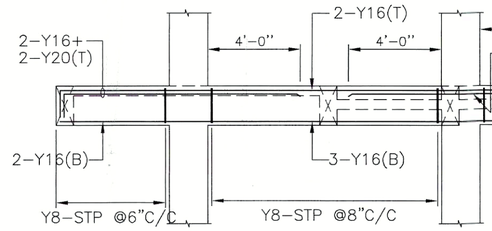
C.S OF FB3



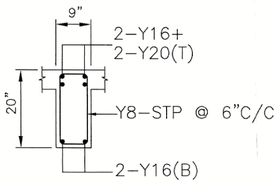
L.S OF FB4



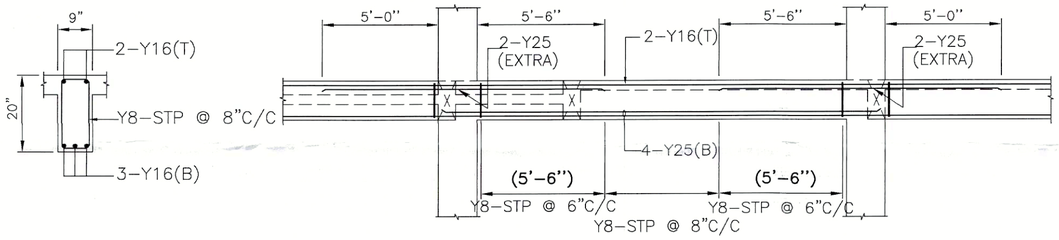
C.S OF FB4



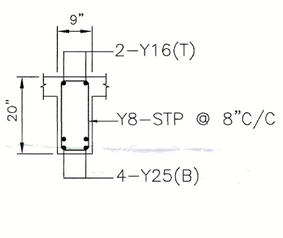
L.S OF CB1 L.S OF FB5



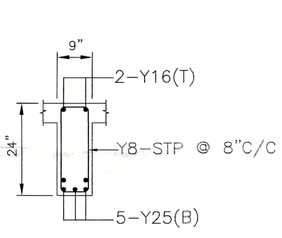
C.S OF CB1



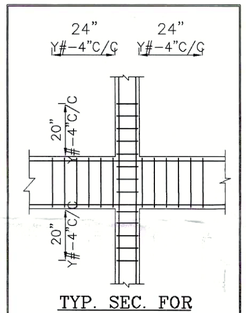
C.S OF FB5 L.S OF FB6



C.S OF FB6



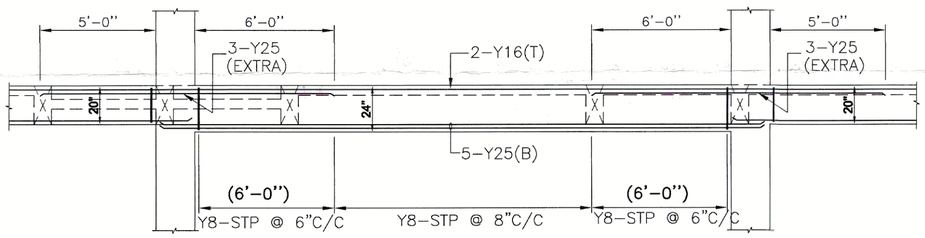
C.S OF FB7



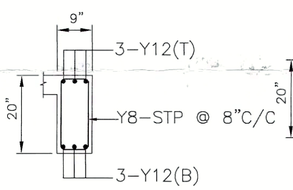
TYP. SEC. FOR STP. DETAILS

NOTE

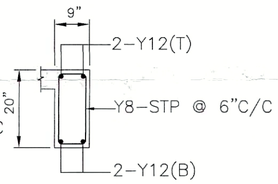
# DENOTES 8 OR 10 OR 12MM WHICH EVER MAXIMUM DIA OF THE STRIUPPS BAR USED IN BEAM OR COLUMN



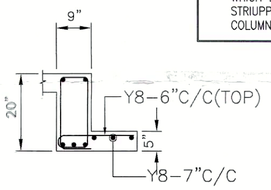
L.S OF FB7



C.S OF FB8



C.S OF DB



SECTION- A A

SCHEDULE OF STRUCTURAL DETAIL

NOTES

G+5

- **REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.**
- CONCRETE MIX SHALL BE M30 FOR COLUMN & M25 (1:1.5:3) FOR ALL OTHER R.C.C WORKS
- CONCRETE MIX SHALL BE M40 FOR PILE WITH MINIMUM CEMENT CONTENT OF 400KG/M³
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE

(i) SLAB	20mm
(ii) COLUMN	40mm
(iii) BEAM	30mm
(iv) R.C.C.WALL	25mm

- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.NO	DATE	DESCRIPTION OF REVISION	REVISED BY

STRUCTURAL CONSULTANT

UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS.
41/A, BEACH ROAD,
KALAKSHETRA COLONY,
BESANT NAGAR, CHENNAI 600 090
P.H. NO: 044-24910945,24464478
email: alexjacobuc@gmail.com
Web site: www.unitedconsultants.in

PROJECT

Proposed Constructionof Stilt Floor + 5 Floors (Height 18.30m)Residential Building with 20 DwellingUnits availing premium FSI at M-8, Old No: 150F, New No: 113/8F, M.I.G Colony,L.B. Road,Thiruvanmiyur, Chennai - 600 041. Comprised in Old S.No: 30/1 Part,T.S. No:171/6 Block No: 10,of Thiruvanmiyur Village, within the Limits ofGreater Chennai Corporation, Division No: 180 Zone - 13.

TITLE

TYPICAL FLOOR ROOF DETAIL

PROJECT NO:

AJ/3602-CORPORATION- PUSHKAR PROPERTIES -THIRUVANMIYUR

DSND	**Dr.Alex Jacob**
DRN	LAVANYA
DATE	14.11.2024
SCALE	1 : 8"

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE10039/2019

FILE NAME E:\LAVANYA\AJ-3602-CORPORATION -PUSHKAR PROPERTIES- THIRUVANMIYUR-TYPICAL FLOOR ROOF DETAIL

```
*****************************************************
*                                                   *
*          STAAD.Pro CONNECT Edition                *
*          Version  22.12.00.142                    *
*          Proprietary Program of                   *
*          Bentley Systems, Inc.                    *
*          Date=    NOV 14, 2024                    *
*          Time=    16:14:29                        *
*                                                   *
*  Licensed to: United Consultanta                  *
*****************************************************
```

```
     1. STAAD SPACE
INPUT FILE: D:\HARIHARAN V\STABILITY REPORT\PUSKAR TIRUVANMIYUR\THE PROPOSED G+5 RESIDENTIAL BUILDING,.. .STD
     2. START JOB INFORMATION
     3. JOB NAME THE PROPOSED G+5 RESIDENTIAL BUILDING, TIRUVANMIYUR
     4. JOB CLIENT PUSHKAR PROPERTIES
     5. JOB NO AJ 3602
     6. ENGINEER NAME HARIHARAN V
     7. CHECKER NAME DR ALEX JACOB
     8. ENGINEER DATE 14-NOV-24
     9. END JOB INFORMATION
    10. INPUT WIDTH 79
    11. UNIT METER KN
    12. JOINT COORDINATES
    13. 2 2.025 0 0; 3 5.55 0 0; 4 12.975 0 0; 5 16.85 0 0; 6 23.225 0 0; 7 0 3.2 0
    14. 8 2.025 3.2 0; 9 5.55 3.2 0; 10 12.975 3.2 0; 11 16.85 3.2 0; 12 23.225 3.2 0
    15. 13 0 6.4 0; 14 2.025 6.4 0; 15 5.55 6.4 0; 16 12.975 6.4 0; 17 16.85 6.4 0
    16. 18 23.225 6.4 0; 19 0 9.6 0; 20 2.025 9.6 0; 21 5.55 9.6 0; 22 12.975 9.6 0
    17. 23 16.85 9.6 0; 24 23.225 9.6 0; 25 0 12.8 0; 26 2.025 12.8 0; 27 5.55 12.8 0
    18. 28 12.975 12.8 0; 29 16.85 12.8 0; 30 23.225 12.8 0; 31 0 16 0; 32 2.025 16 0
    19. 33 5.55 16 0; 34 12.975 16 0; 35 16.85 16 0; 36 23.225 16 0; 37 0 19.2 0
    20. 38 2.025 19.2 0; 39 5.55 19.2 0; 40 12.975 19.2 0; 41 16.85 19.2 0
    21. 42 23.225 19.2 0
    22. MEMBER INCIDENCES
    23. 7 2 8; 8 3 9; 9 4 10; 10 5 11; 11 6 12; 12 7 8; 13 8 9; 14 9 10; 15 10 11
    24. 16 11 12; 18 8 14; 19 9 15; 20 10 16; 21 11 17; 22 12 18; 23 13 14; 24 14 15
    25. 25 15 16; 26 16 17; 27 17 18; 29 14 20; 30 15 21; 31 16 22; 32 17 23; 33 18 24
    26. 34 19 20; 35 20 21; 36 21 22; 37 22 23; 38 23 24; 40 20 26; 41 21 27; 42 22 28
    27. 43 23 29; 44 24 30; 45 25 26; 46 26 27; 47 27 28; 48 28 29; 49 29 30; 51 26 32
    28. 52 27 33; 53 28 34; 54 29 35; 55 30 36; 56 31 32; 57 32 33; 58 33 34; 59 34 35
    29. 60 35 36; 62 32 38; 63 33 39; 64 34 40; 65 35 41; 66 36 42; 67 37 38; 68 38 39
    30. 69 39 40; 70 40 41; 71 41 42
    31. DEFINE MATERIAL START
    32. ISOTROPIC CONCRETE
    33. E 2.17185E+07
    34. POISSON 0.17
    35. DENSITY 23.5616
    36. ALPHA 1E-05
    37. DAMP 0.05
    38. G 9.28139E+06
```

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

```
39. TYPE CONCRETE
40. STRENGTH FCU 27579
41. END DEFINE MATERIAL
42. MEMBER PROPERTY
43. 7 TO 11 18 TO 22 29 TO 33 40 TO 44 51 TO 55 62 TO 66 PRIS YD 0.5 ZD 0.23
44. 12 TO 16 23 TO 27 34 TO 38 45 TO 49 56 TO 60 67 TO 71 PRIS YD 0.6 ZD 0.23
45. CONSTANTS
46. MATERIAL CONCRETE ALL
47. SUPPORTS
48. 2 TO 6 FIXED
49. DEFINE IS1893 2016 LOAD
50. ZONE 0.16 RF 3 I 1.2 SS 2 ST 1 DM 0.05 PX 0.68 PZ 0.68
51. SELFWEIGHT -1
52. MEMBER WEIGHT
53. 12 TO 16 23 TO 27 34 TO 38 45 TO 49 56 TO 60 67 TO 71 UNI -12.8 0 0
54. 12 TO 16 23 TO 27 34 TO 38 45 TO 49 56 TO 60 67 TO 71 UNI -13.67 0 0
55. DEFINE WIND LOAD

*** NOTE: If any floor diaphragm is present in the model Wind Load definition
          should be defined after Floor Diaphragm definition. Otherwise wind
          load generation may be unsuccessful during analysis.

56. TYPE 1 WIND 1
57. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
58. IS875-2015:PARAMS 0 0 0 19.200 0.000 3.200 0 CHENNAI 50.000 0 1.000 1 7 -
59. 1.000 1.000 1.000 1.000 1.028 1.054 1.067 1.000 2 1.000 0.020 0 23.225 0.000 -
60. 19.200 0 0 0 1.000 0 0 0.200 1.000 0 1.000 1.000 1.000
61. !> END GENERATED DATA BLOCK
62. INT 1.5 1.5 1.5 1.5 1.585 1.666 1.707 HEIG  0  3.2  6.4  9.6  12.8  16  19.2
63. EXP 1 JOINT 2 TO 42
64. LOAD 1 LOADTYPE SEISMIC-H  TITLE EQX
65. 1893 LOAD X 1
66. LOAD 2 LOADTYPE SEISMIC-H  TITLE EQ-X
67. 1893 LOAD X -1.
68. LOAD 3 LOADTYPE SEISMIC-H  TITLE EQZ
69. 1893 LOAD Z 1
70. LOAD 4 LOADTYPE SEISMIC-H  TITLE EQ-Z
71. 1893 LOAD Z -1.
72. LOAD 5 LOADTYPE DEAD  TITLE DL
73. SELFWEIGHT Y -1 LIST ALL
74. MEMBER LOAD
75. 12 TO 16 23 TO 27 34 TO 38 45 TO 49 56 TO 60 67 TO 71 UNI GY -12.8
76. LOAD 6 LOADTYPE LIVE  TITLE LL
77. MEMBER LOAD
```

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

```
78. 12 TO 16 23 TO 27 34 TO 38 45 TO 49 56 TO 60 67 TO 71 UNI GY -13.67
79. LOAD 7 LOADTYPE WIND  TITLE WLZ
80. WIND LOAD Z 1 TYPE 1
81. LOAD 8 LOADTYPE WIND  TITLE WL-Z
82. WIND LOAD -Z 1 TYPE 1
83. LOAD COMB 9 1.5(DL+LL)
84. 5 1.5 6 1.5
85. LOAD COMB 10 1.2(DL+LL+EQX)
86. 1 1.2 5 1.2 6 1.2
87. LOAD COMB 11 1.2(DL+LL-EQX)
88. 2 1.2 5 1.2 6 1.2
89. LOAD COMB 12 1.2(DL+LL+EQZ)
90. 3 1.2 5 1.2 6 1.2
91. LOAD COMB 13 1.2(DL+LL-EQZ)
92. 4 1.2 5 1.2 6 1.2
93. LOAD COMB 14 1.2(DL+LL+WLZ)
94. 5 1.2 6 1.2 7 1.2
95. LOAD COMB 15 1.2(DL+LL-WLZ)
96. 5 1.2 6 1.2 8 1.2
97. LOAD COMB 16 1.5(DL+EQX)
98. 1 1.5 5 1.5
99. LOAD COMB 17 1.5(DL-EQX)
100. 2 1.5 5 1.5
101. LOAD COMB 18 1.5(DL+EQZ)
102. 3 1.5 5 1.5
103. LOAD COMB 19 1.5(DL-EQZ)
104. 4 1.5 5 1.5
105. LOAD COMB 20 1.5(DL+WLZ)
106. 5 1.5 7 1.5
107. LOAD COMB 21 1.5(DL-WLZ)
108. 5 1.5 8 1.5
109. LOAD COMB 22 0.9DL+1.5EQX
110. 1 1.5 5 0.9
111. LOAD COMB 23 0.9DL-1.5EQX
112. 5 0.9 2 1.5
113. LOAD COMB 24 0.9DL+1.5EQZ
114. 5 0.9 3 1.5
115. LOAD COMB 25 0.9DL-1.5EQZ
116. 5 0.9 4 1.5
117. LOAD COMB 26 0.9DL+1.5WLZ
118. 5 0.9 7 1.5
119. LOAD COMB 27 0.9DL-1.5WLZ
120. 5 0.9 8 1.5
121. PERFORM ANALYSIS
```

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	41	NUMBER OF MEMBERS	60
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	5

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 8, TOTAL DEGREES OF FREEDOM = 216
TOTAL LOAD COMBINATION CASES = 19 SO FAR.

**WARNING: IF THIS UBC/IBC ANALYSIS HAS TENSION/COMPRESSION
OR REPEAT LOAD OR RE-ANALYSIS OR SELECT OPTIMIZE, THEN EACH
UBC/IBC CASE SHOULD BE FOLLOWED BY PERFORM ANALYSIS & CHANGE.

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6
BASE SHEAR AND TIME PERIOD IN X

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.68000 SEC       *
* SA/G PER 1893=    2.000, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0640 X     2975.38=     190.42 KN   *
* VB Act Based on Clause 7.2.1 =      190.42 KN         *
* VB Min based on Clause 7.2.2 =       32.73 KN         *
*                                                       *
*********************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6
BASE SHEAR AND TIME PERIOD IN X

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.68000 SEC       *
* SA/G PER 1893=    2.000, LOAD FACTOR=-1.000           *
* VB PER 1893=    0.0640 X     2975.38=    -190.42 KN   *
* VB Act Based on Clause 7.2.1 =     -190.42 KN         *
* VB Min based on Clause 7.2.2 =      -32.73 KN         *
*                                                       *
*********************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

STAAD SPACE -- PAGE NO. 5

BASE SHEAR AND TIME PERIOD IN Z

```
*******************************************************
* UNITS - KN    METE                                  *
* TIME PERIOD FOR Z 1893 LOADING =    0.68000 SEC     *
* SA/G PER 1893=    2.000, LOAD FACTOR= 1.000         *
* VB PER 1893=    0.0640 X     2975.38=     190.42 KN  *
* VB Act Based on Clause 7.2.1 =      190.42 KN       *
* VB Min based on Clause 7.2.2 =       32.73 KN       *
*                                                     *
*******************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6

BASE SHEAR AND TIME PERIOD IN Z

```
*******************************************************
* UNITS - KN    METE                                  *
* TIME PERIOD FOR Z 1893 LOADING =    0.68000 SEC     *
* SA/G PER 1893=    2.000, LOAD FACTOR=-1.000         *
* VB PER 1893=    0.0640 X     2975.38=    -190.42 KN  *
* VB Act Based on Clause 7.2.1 =     -190.42 KN       *
* VB Min based on Clause 7.2.2 =      -32.73 KN       *
*                                                     *
*******************************************************
```

122. FINISH

********** END OF THE STAAD.Pro RUN **********

**** DATE= NOV 14,2024 TIME= 16:14:31 ****

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

```
*************************************************************
*   For technical assistance on STAAD.Pro, please visit     *
*   http://www.bentley.com/en/support/                      *
*                                                           *
*   Details about additional assistance from                *
*   Bentley and Partners can be found at program menu       *
*   Help->Technical Support                                 *
*                                                           *
*           Copyright (c) Bentley Systems, Inc.             *
*                http://www.bentley.com                     *
*************************************************************
```

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

Our services go beyond

Buying & Selling Services

Property Buying Assistance, Property Selling Support, Market Price Analysis, Owner Outreach and Negotiation.

Legal & Documentation Services

Certified EC, Patta, legal opinions, property verification, due diligence, litigation solutions, and legal heir certificates.

Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.

NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.

Smarter Tools, Stronger Decisions

Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

Verified RealEstate™

Verified RealEstate™

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

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

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