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Er J.SRIRAMULU, M.E.(Struct), M.I.E,
Structural Consultant &
Registered Grade –I Structural Engineer
CMDA, GCC & DTCP, e-mail – j_sriramulu@yahoo.co.in
No. 51/1, Kujji Street
ANNA NAGAR EAST
CHENNAI - 600 102

STABILITY CERTIFICATE

The detailed engineering and structure design of the proposed construction of Residential Group Development with 2 Blocks; Block-1 Stilt Floor + 4 Floors (Height – 16.00m) Residential Building with 8 Dwelling units and Block-2 Stilt Floor + 4 Floors (Height – 16.00m) Residential Building with 8 Dwelling units, totally 16 Dwelling Units availing premium FSI at Door No.34, East Mada Street, Thiruvanmiyur, Chennai – 600041 comprised in Old S.No.193/42A, T.S.No.54, Block No.60 of Thiruvanmiyur Village, within the limits of Greater Chennai Corporation. have been designed by me based on the report of geotechnical investigation (soil test) done by T.J.ENGINEERS vide Project No. TJE/003114/2024 Dated 30.01.2024 and considering the functional requirement of the building.

2. It is certified that among other factors, the proposed building has been designed to resist earthquake. I have checked various parameters and found that the proposed building would be safe.

3. I further certify that:

(i) The minimum grade of concrete is M25.
(ii) The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS 456, design loads as per IS Code No.IS 875 and design of earthquake resistant structure as per IS Code No. IS 1893 & IS 13920.

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

Stamp and Signature

Encl.: Structural Design Calculation

J. SRIRAMULU, M.E, (STRUCT), M.I.E.,
STRUCTURAL CONSULTANT AND
REGD. STRUCTURAL ENGINEER CMDA
SE/GR-I/19/06/161
51/1, Kujji Street, Anna Nagar East,
Chennai-600 102. Mobile:94441 44193
Email. j_sriramulu@yahoo.co.in

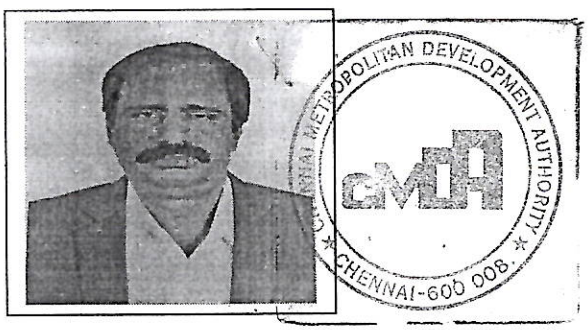
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'Thalamuthu Natarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that the **Thiru. J. SRIRAMULU** has enrolled as **Registered Structural Engineer Grade-I (SE)** with Chennai Metropolitan Development Authority (CMDA) who has the qualification of **M.E., (Structural Engg.)** and experience in the relevant field for **16years**.

He has been given the Registration No.**SE/GR-I/2019/06/161 Renewed** on **18.06.2024.** 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.

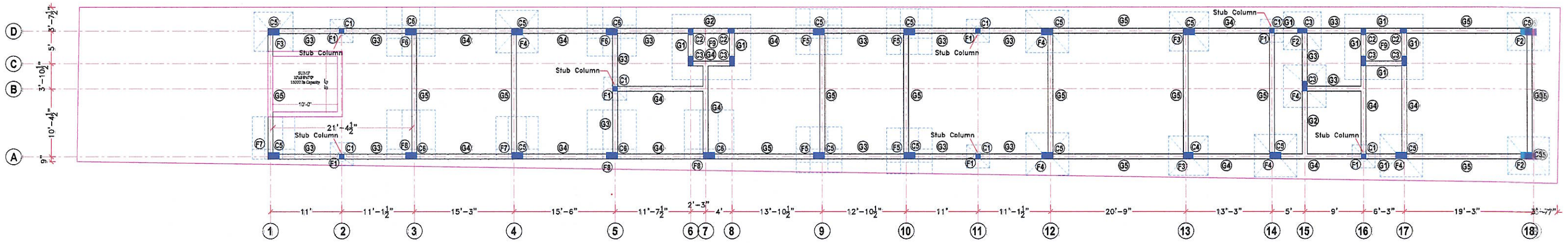
This Registration is valid upto **17.06.2029**.



18/6/24.

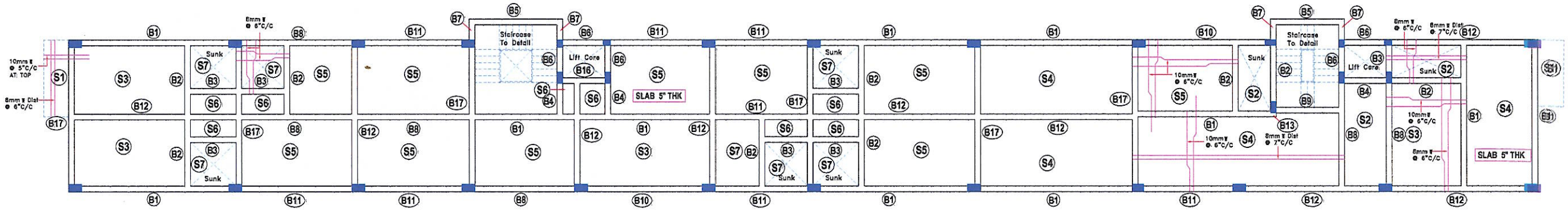
(A. MEGANATHAN)
Superintendent

J. SRIRAMULU, M.E, (STRUCT), M.I.E.,
STRUCTURAL CONSULTANT AND
REGD. STRUCTURAL ENGINEER CMDA
SE/GR-I/19/06/161
51/1, Kujji Street, Anna Nagar East,
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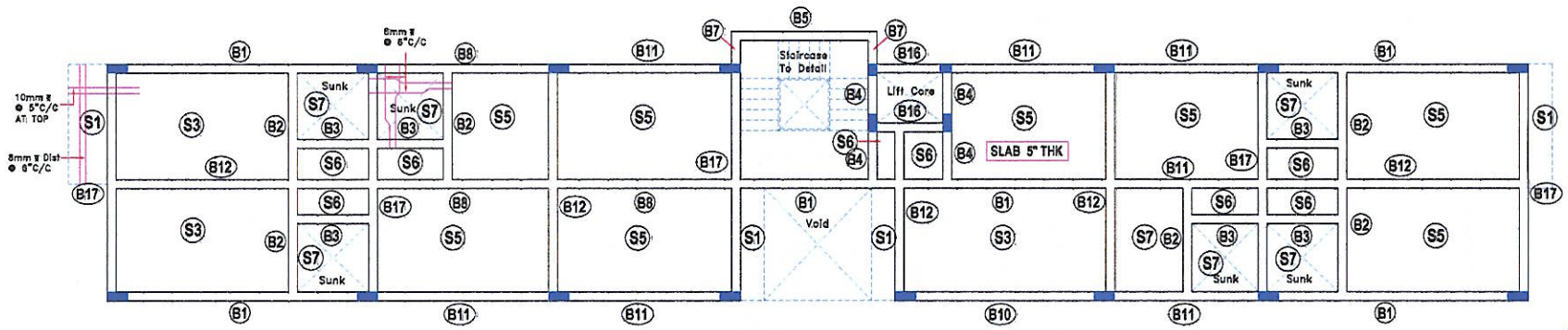
LAYOUT OF COLUMNS, FOOTINGS & GRADE BEAMS
(FRONT BLOCK)

LAYOUT OF COLUMNS, FOOTINGS & GRADE BEAMS
(REAR BLOCK)

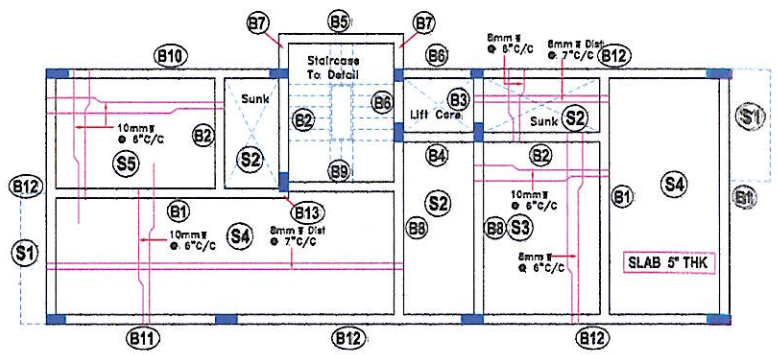


GROUND FLOOR ROOF SLAB & BEAMS
(FRONT BLOCK)

GROUND FLOOR ROOF SLAB & BEAMS
(REAR BLOCK)



FIRST, SECOND & THIRD FLOOR ROOF SLAB & BEAMS
(FRONT BLOCK)



FIRST & SECOND FLOOR ROOF SLAB & BEAMS
(REAR BLOCK)

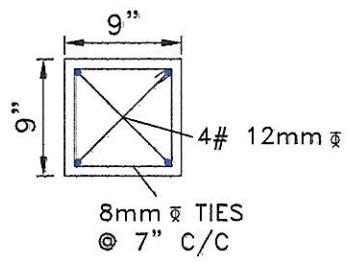
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PLAN SHOWING THE PROPOSED RESIDENTIAL GROUP DEVELOPEMENT WITH 2 BLOCKS; BLOCK-1: STILT + 4FLOORS (16.00m HEIGHT) RESIDENTIAL BUILDING WITH 8 DWELLING UNITS AND BLOCK - 2: STILT + 4 FLOORS (16.00m HEIGHT) RESIDENTIAL BUILDING WITH 8 DWELLING UNITS, TOTALLY 16 DWELLING UNITS, AVAILING PREMIUM FSI AT DOOR No.34, EAST MADA STREET, THIRUVANMIYUR, CHENNAI - 600041 COMPRISED IN OLD S.No. 193/42A, T.S.No. 54, BLOCK No. 60 OF THIRUVANMIYUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

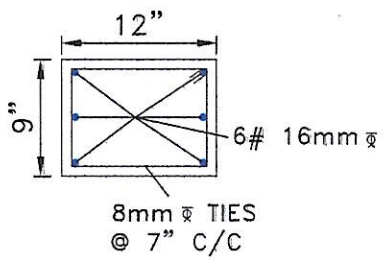
STRUCTURAL CONSULTANT:
HI-TECH CONSULTANTS
CHENNAI.
STRUCTURAL ENGINEER -
J.SRIRAMULU ; M.E (struct) ; M.I.E
MOBILE : 94441 44193.

Column Details

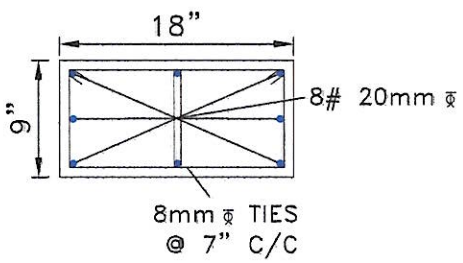
COLUMN C1



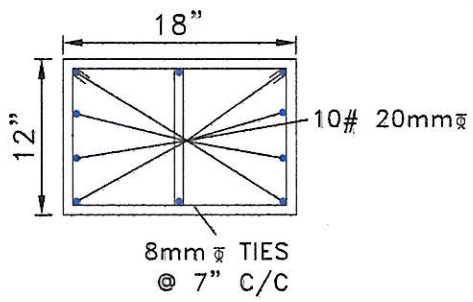
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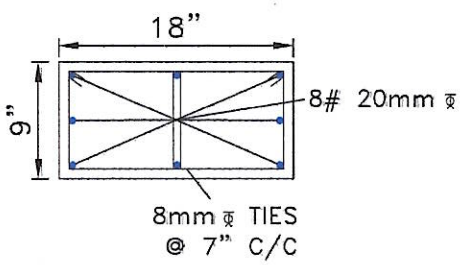
COLUMN C3



COLUMN C4

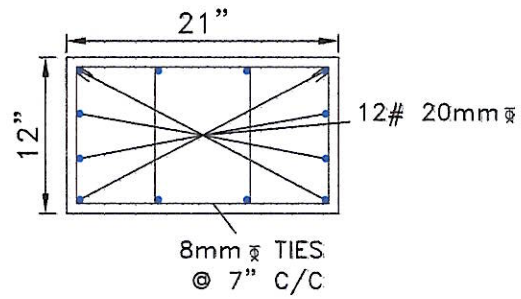


FOR STILT FLR

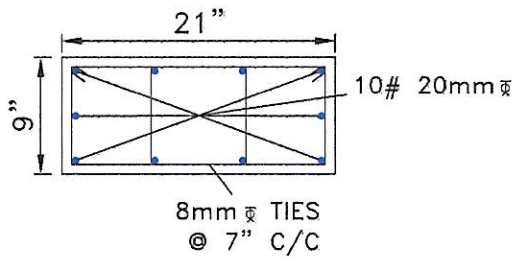


FOR UPPER FLR

COLUMN C5

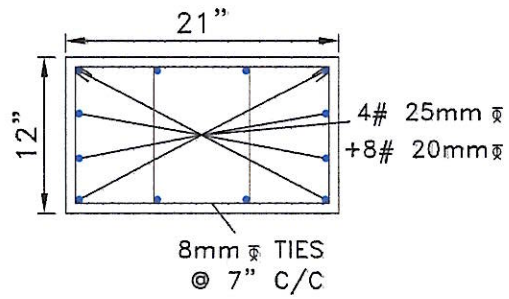


FOR STILT FLR

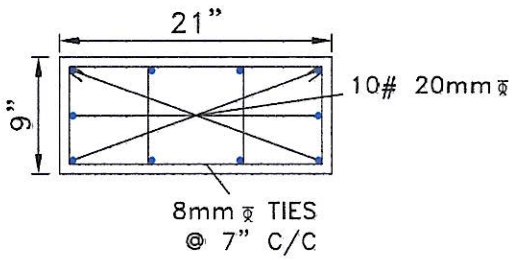


FOR UPPER FLR

COLUMN C6



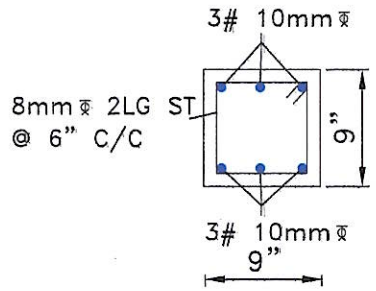
FOR STILT FLR



FOR UPPER FLR

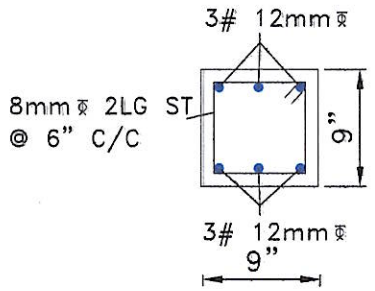
Grade Beam Details

GRADE BEAM G1



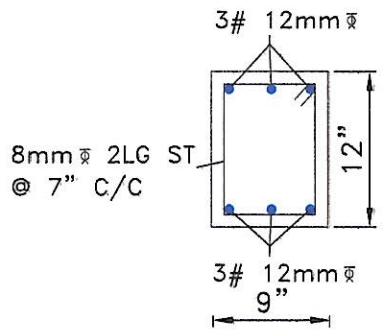
MID SPAN /END SPAN SECTION

GRADE BEAM G2



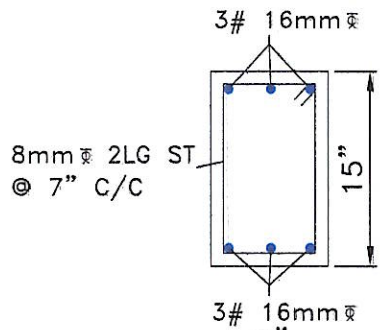
MID SPAN /END SPAN SECTION

GRADE BEAM G3



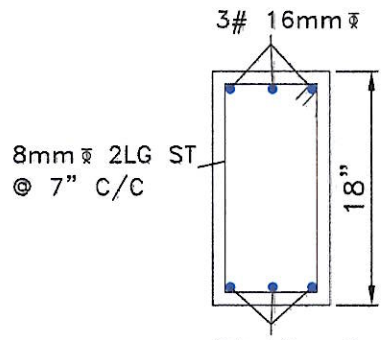
MID SPAN /END SPAN SECTION

GRADE BEAM G4



MID SPAN /END SPAN SECTION

GRADE BEAM G5



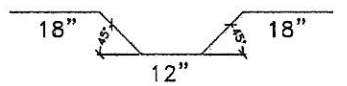
MID SPAN /END SPAN SECTION

DESIGN ELEMENTS

* CONCRETE - M25
* STEEL - Fe 500
* ⌀ DENOTES - TOR STEEL.
* DESIGN LOAD 6.50 KN/M².
* DESIGN FOR STILT FLOOR + 4 FLOORS.
* S.B.C AS PER SOIL REPORT - 240 KN/M²
* LAP LENGTH OF BARS - 55 Ø.

* CLEAR COVER FOR REINFORCEMENTS
  - SLAB - 20 MM
  - BEAMS - 25 MM
  - COLUMNS - 40 MM
  - FOOTINGS - 50 MM
* STRUCTURAL DRAWINGS SHOULD ALWAYS READ WITH THE ARCHITECT DRAWINGS.
* ALL INTERNAL PARTITION WALLS 4½" THK.

* PROVIDE 2Nos. 10 MM ANCHOR BARS AT BEAM TO BEAM JUNCTIONS.



* PLEASE DO NOT SCALE THE REINFORCEMENTS SHOWN IN THE DRAWINGS.
* MINIMUM DEPTH OF FOUNDATION 6'6" FROM EXISTING GROUND LEVEL. TO BE CHANGED ACCORDING TO SITE CONDITION

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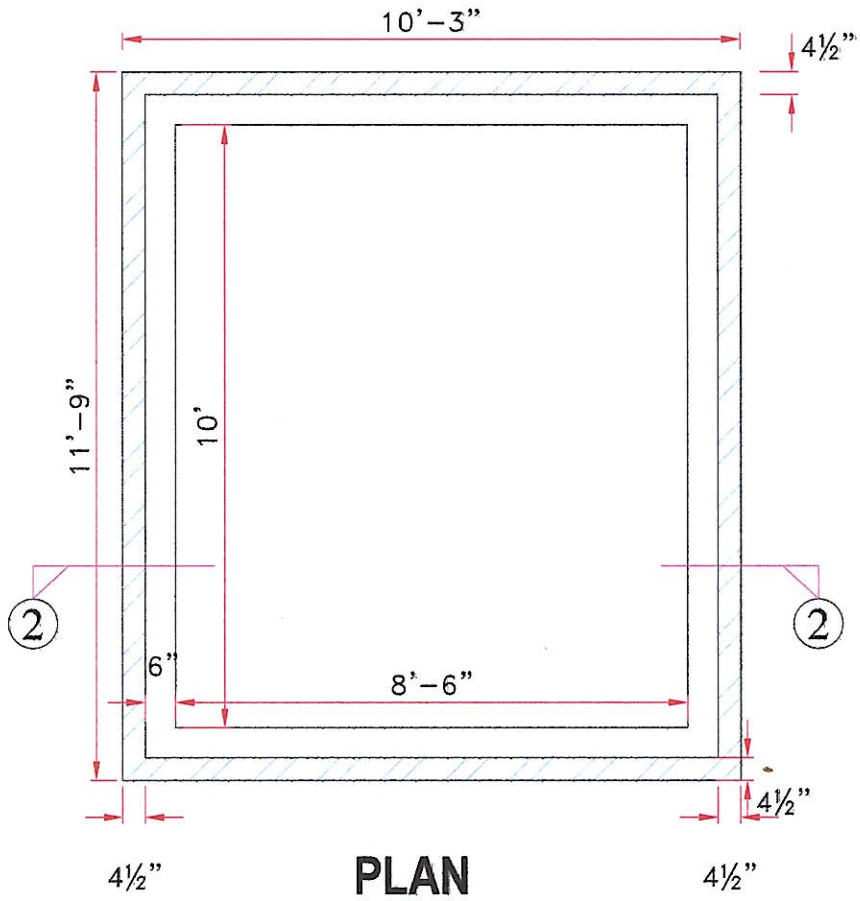
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STRUCTURAL CONSULTANT:

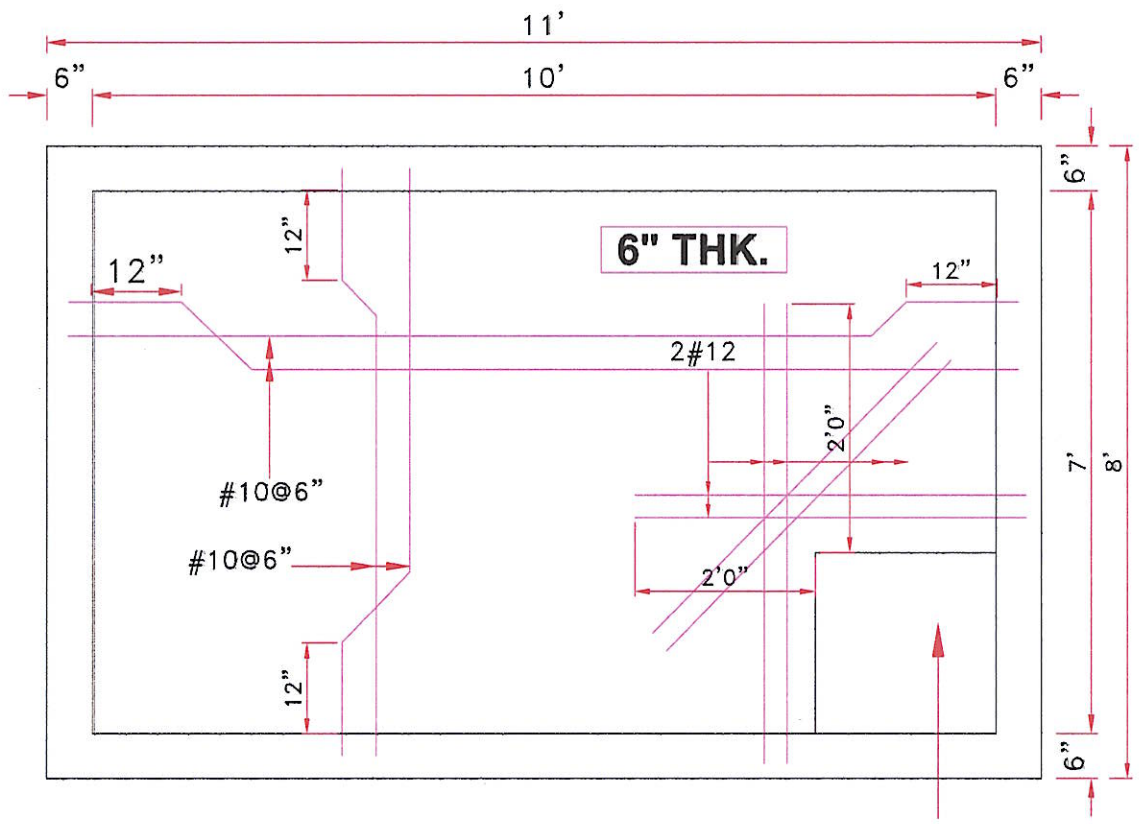
HI-TECH CONSULTANTS

CHENNAI.

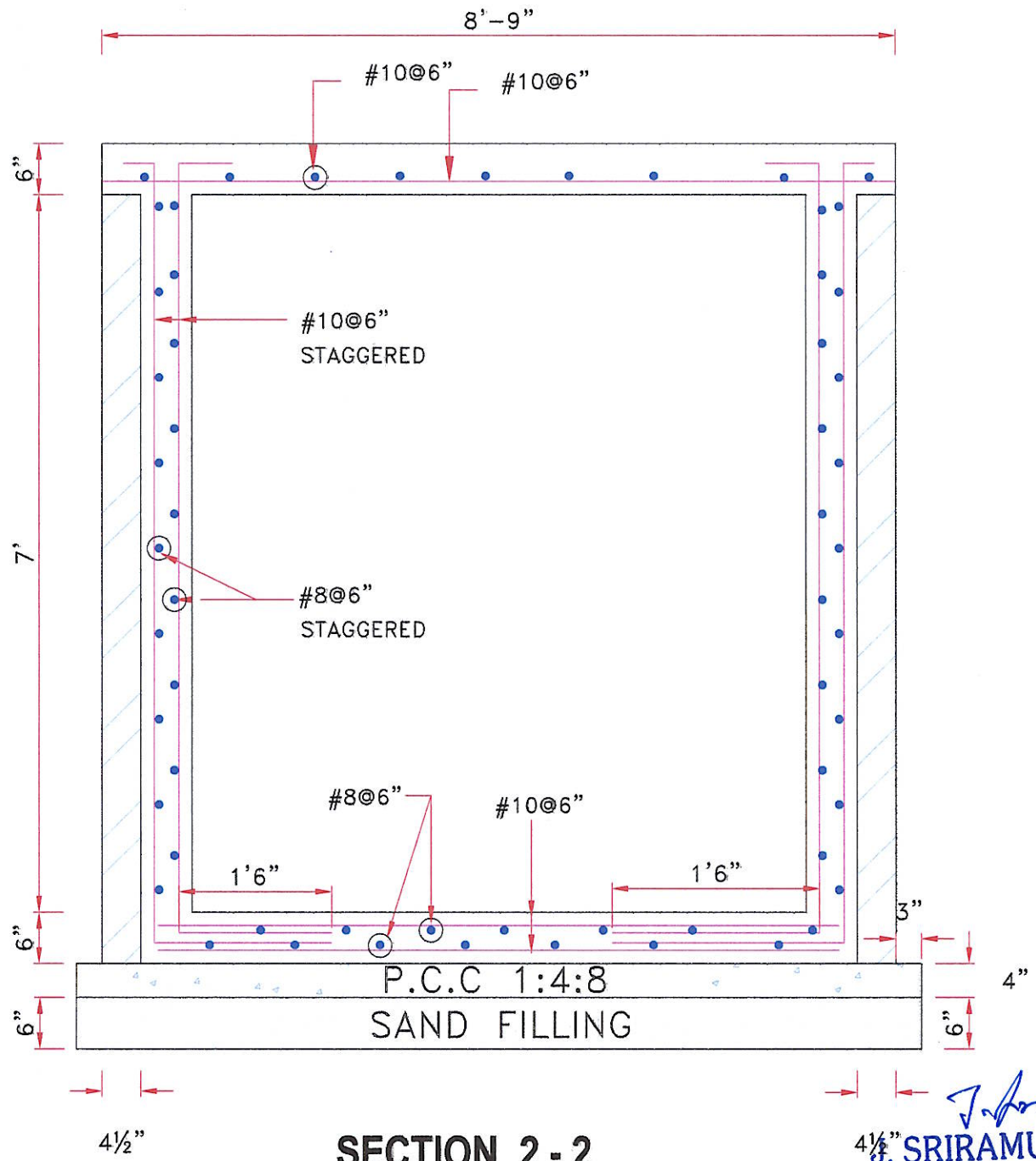
STRUCTURAL ENGINEER -
J.SRIRAMULU ; M.E (struct) ; M.I.E
MOBILE : 94441 44193.



PLAN



COVER SLAB DETAILS MANHOLE 2'x2'



SECTION 2 - 2

UNDERGROUND SUMP DETAILS

J. SRIRAMULU, M.E, (STRUCT), M.I.E.,
STRUCTURAL CONSULTANT AND
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STRUCTURAL CONSULTANT:

HI-TECH CONSULTANTS

CHENNAI.

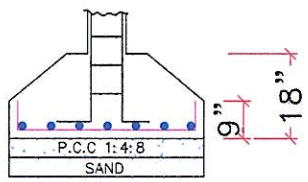
STRUCTURAL ENGINEER -

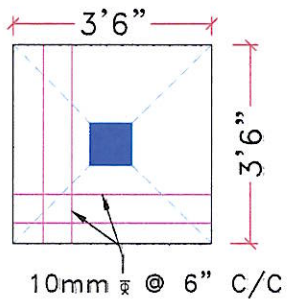
J.SRIRAMULU ; M.E (struct) ; M.I.E

MOBILE : 94441 44193.

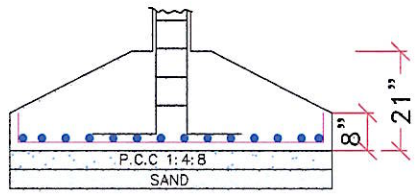
Footing Details

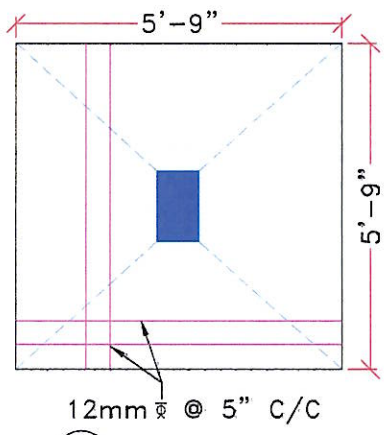
FOOTING F1



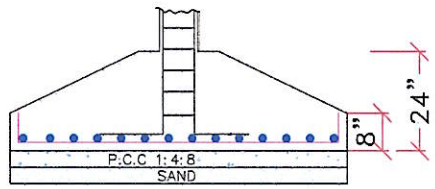


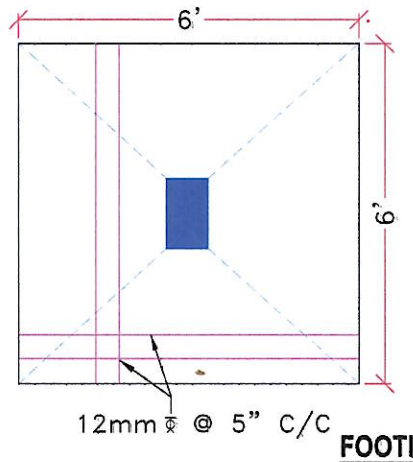
FOOTING F2



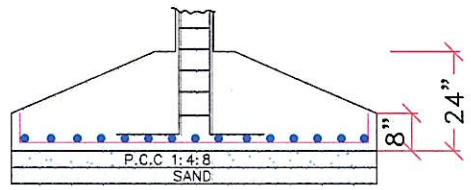


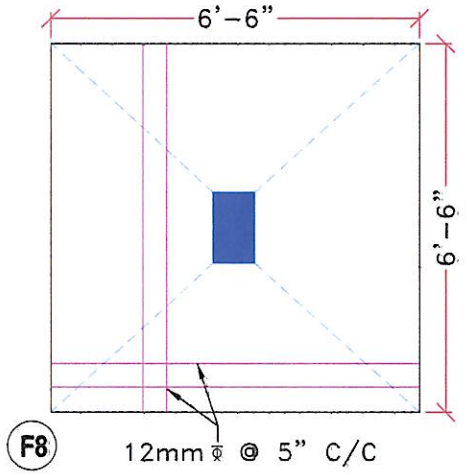
FOOTING F3



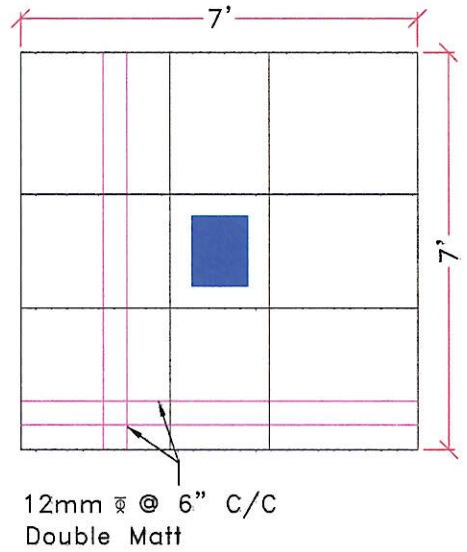


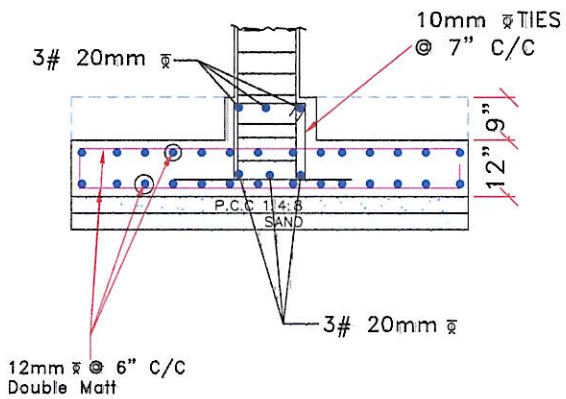
FOOTING F4



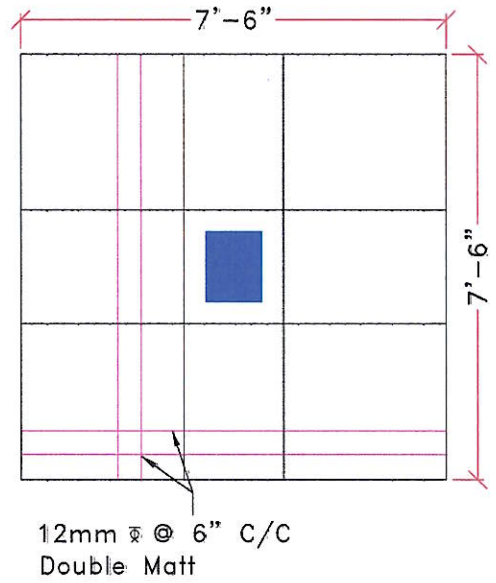


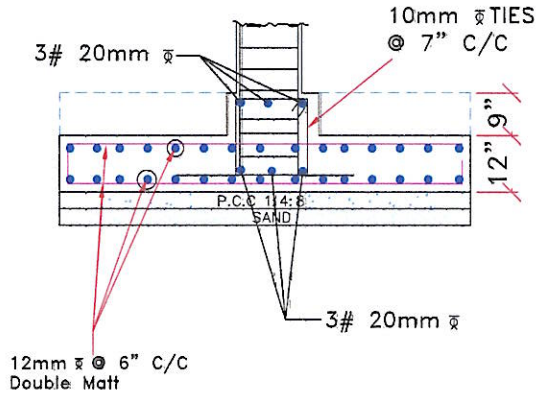
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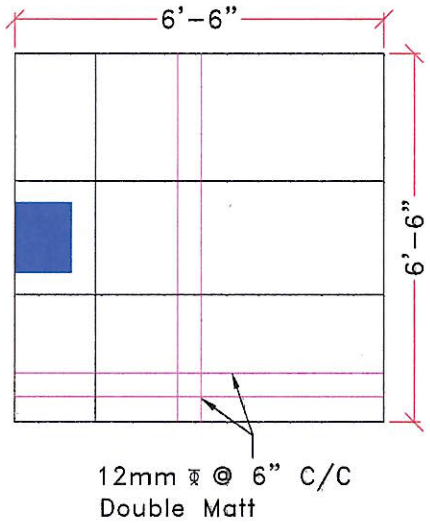


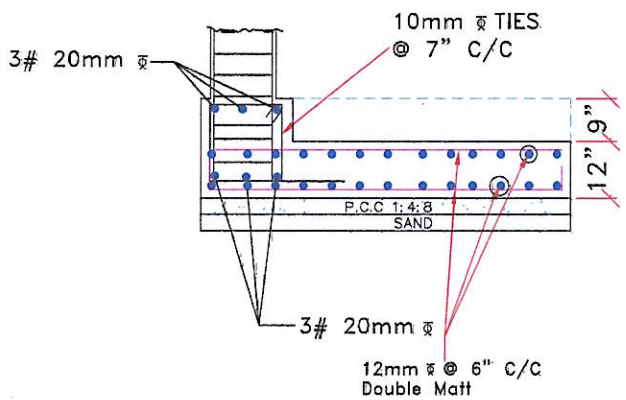
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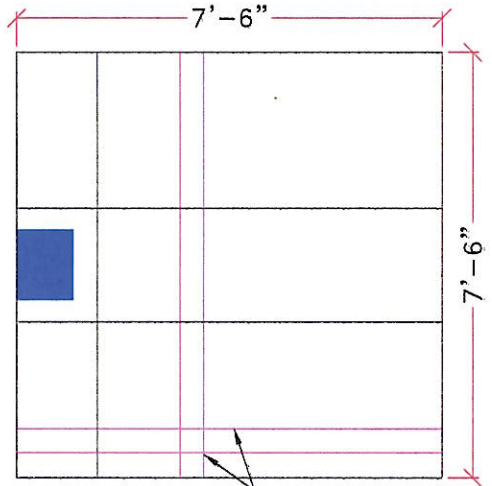


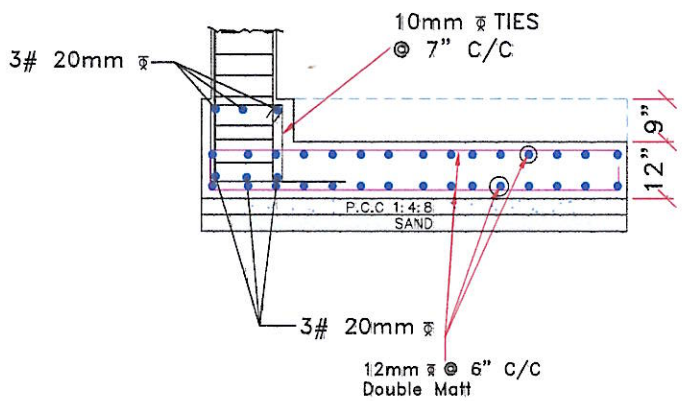
FOOTING F7



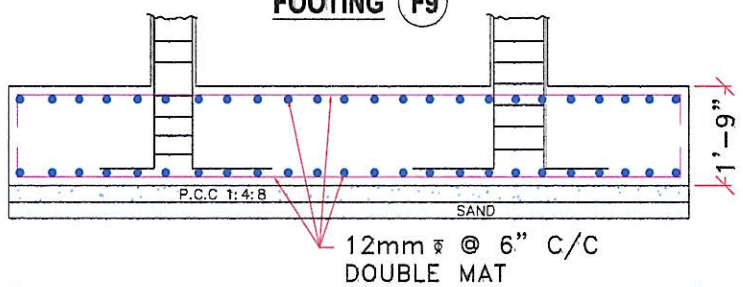


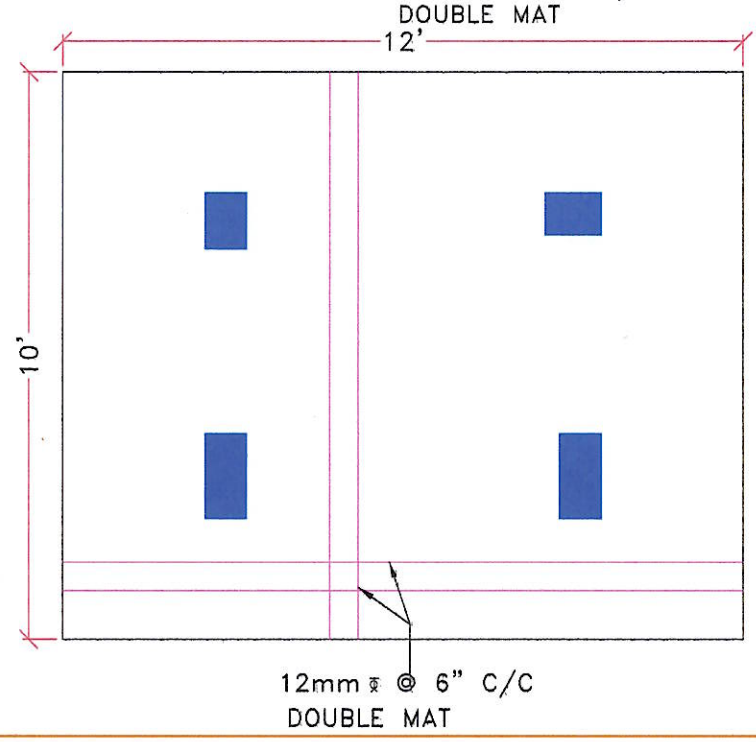
FOOTING F8





FOOTING F9





PLAN SHOWING THE PROPOSED RESIDENTIAL GROUP DEVELOPEMENT WITH 2 BLOCKS; BLOCK-1: STILT + 4FLOORS (16.00m HEIGHT) RESIDENTIAL BUILDING WITH 8 DWELLING UNITS AND BLOCK - 2: STILT + 4 FLOORS (16.00m HEIGHT) RESIDENTIAL BUILDING WITH 8 DWELLING UNITS, TOTALLY 16 DWELLING UNITS, AVAILING PREMIUM FSI AT DOOR No.34, EAST MADA STREET, THIRUVANMIYUR, CHENNAI - 600041 COMPRISED IN OLD S.No. 193/42A, T.S.No. 54, BLOCK No. 60 OF THIRUVANMIYUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

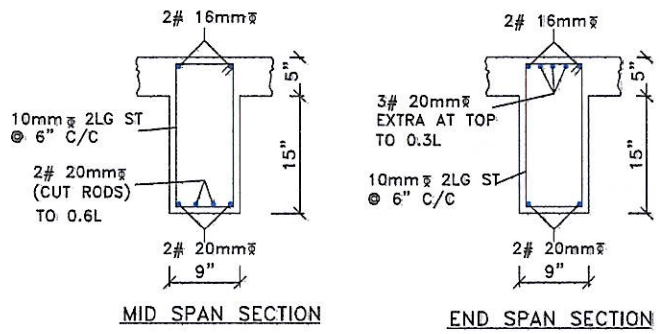
J. SRIRAMULU, M.E, (STRUCT), M.I.E.,
STRUCTURAL CONSULTANT AND
REGD. STRUCTURAL ENGINEER CMDA
SE/GR-I/19/06/161
51/1, Kujji Street, Anna Nagar East,
Chennai-600 102. Mobile:94441 44193
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Details For Front & Rear Blocks

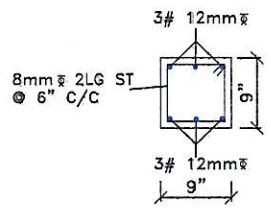
STRUCTURAL CONSULTANT:
HI-TECH CONSULTANTS
CHENNAI.
STRUCTURAL ENGINEER -
J.SRIRAMULU ; M.E (struct) ; M.I.E
MOBILE : 94441 44193.

Roof Beam Details

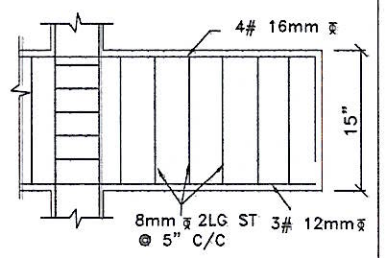
BEAM (B1)



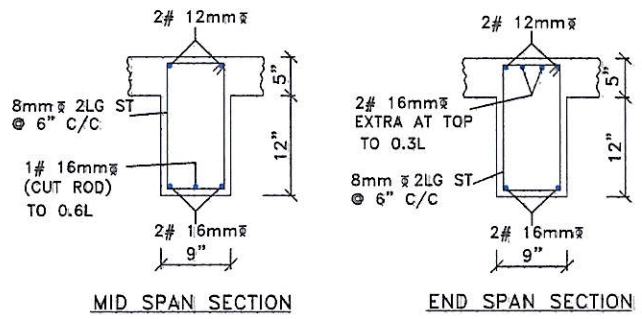
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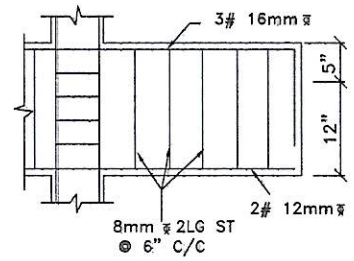
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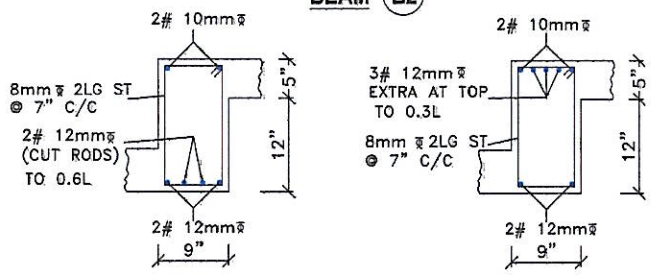
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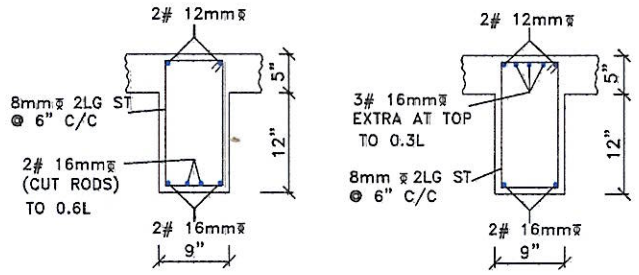
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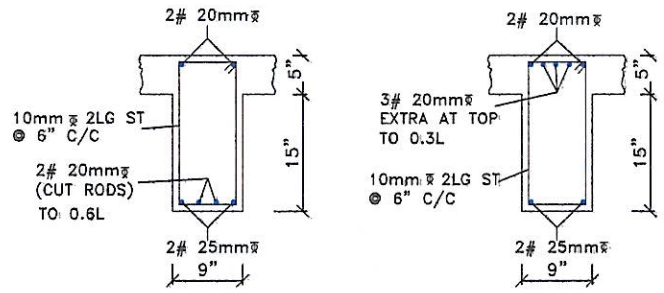
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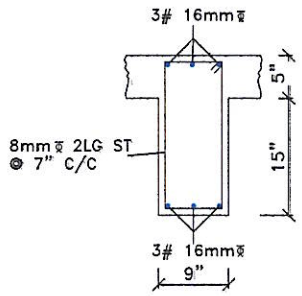
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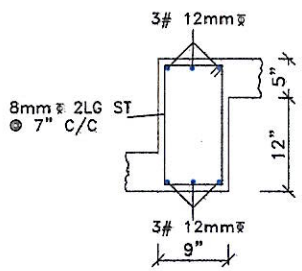
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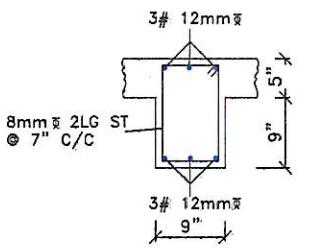
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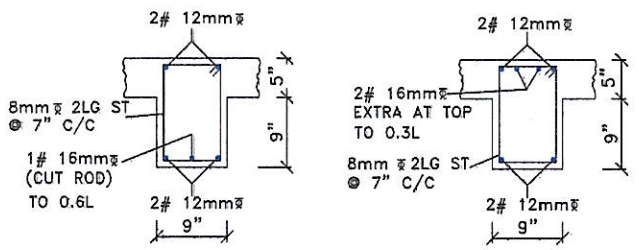
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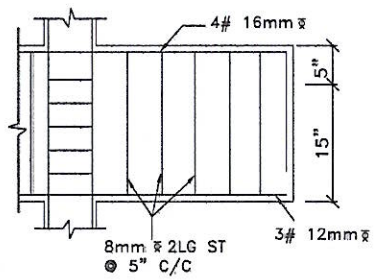
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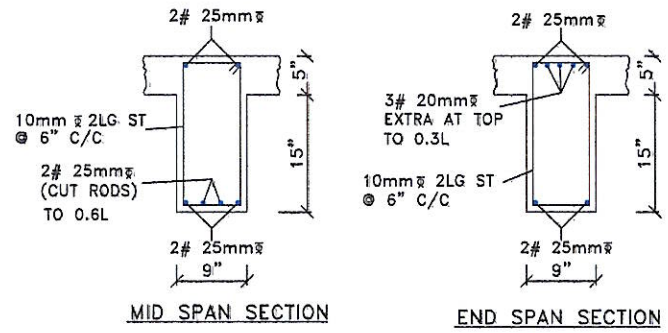
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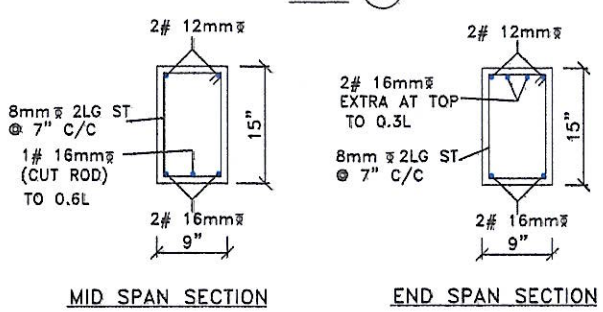
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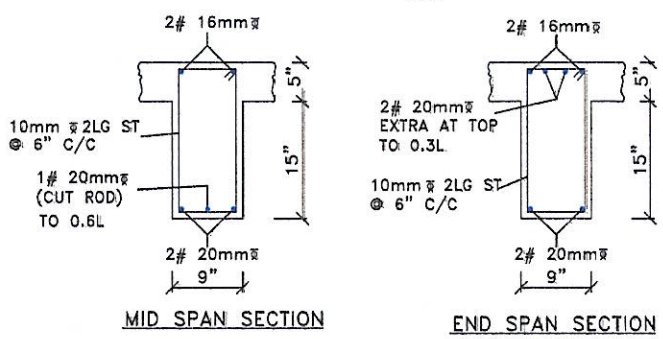
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BEAM (B5)



BEAM (B10)

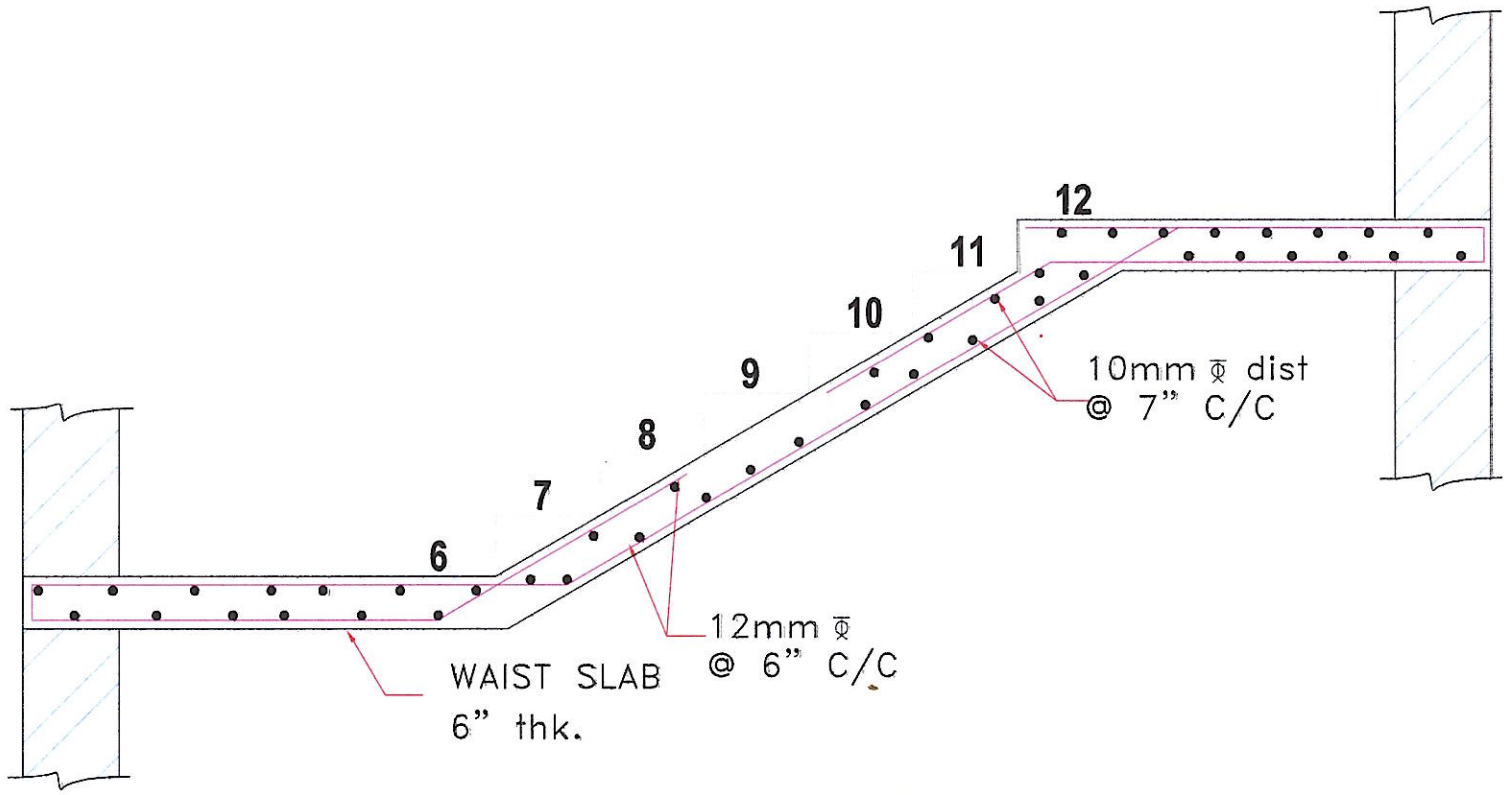


PLAN SHOWING THE PROPOSED RESIDENTIAL GROUP DEVELOPEMENT WITH 2 BLOCKS; BLOCK-1: STILT + 4FLOORS (16.00m HEIGHT) RESIDENTIAL BUILDING WITH 8 DWELLING UNITS AND BLOCK - 2:STILT + 4 FLOORS (16.00m HEIGHT) RESIDENTIAL BUILDING WITH 8 DWELLING UNITS, TOTALLY 16 DWELLING UNITS, AVAILING PREMIUM FSI AT DOOR No.34, EAST MADA STREET, THIRUVANMIYUR,CHENNAI - 600041 COMPRISED IN OLD S.No. 193/42A, T.S.No. 54, BLOCK No. 60 OF THIRUVANMIYUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

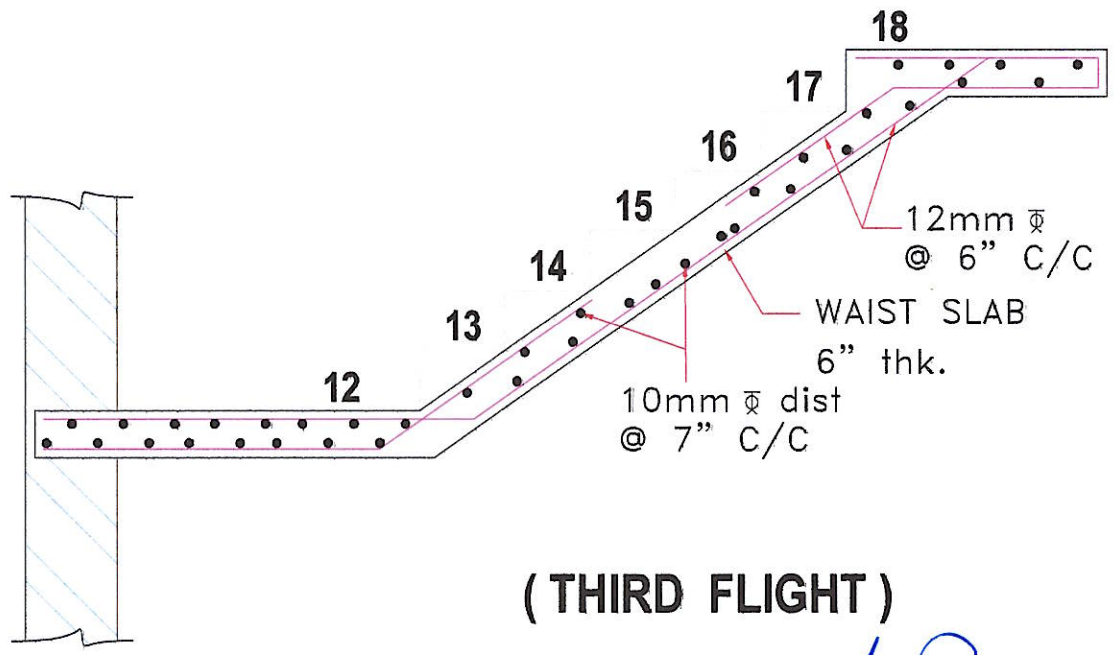
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Details For Front & Rear Blocks

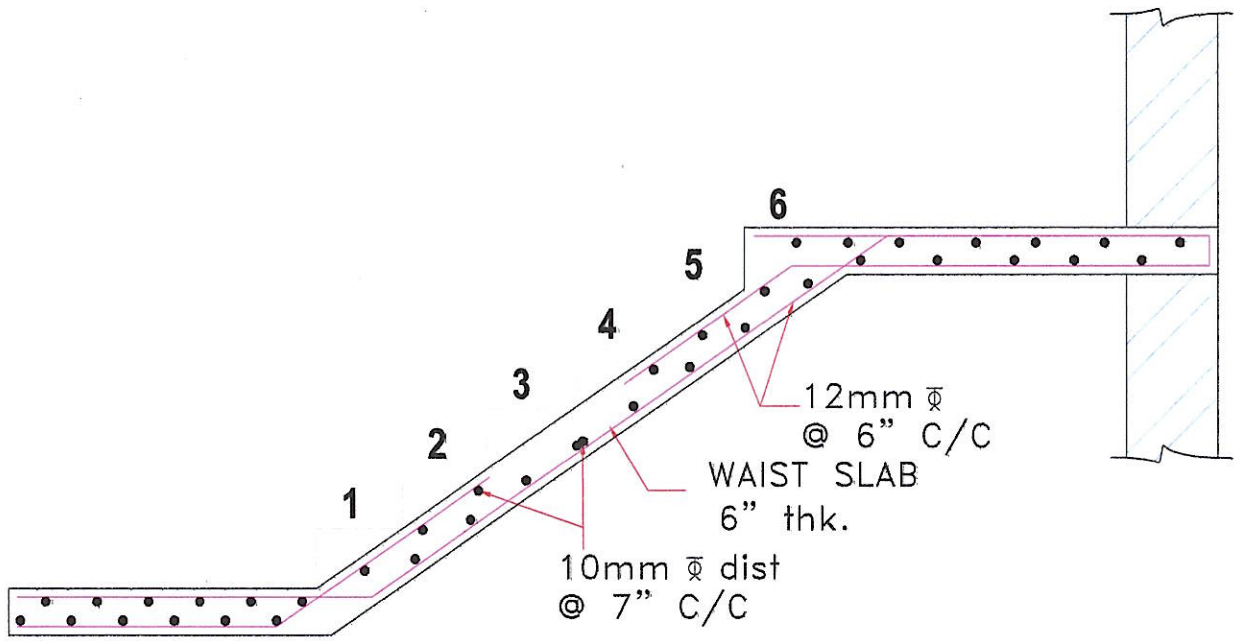
STRUCTURAL CONSULTANT:
HI-TECH CONSULTANTS
CHENNAI.
STRUCTURAL ENGINEER -
J.SRIRAMULU ; M.E (struct) ; M.I.E
MOBILE : 94441 44193.



(SECOND FLIGHT)



(THIRD FLIGHT)



(FIRST FLIGHT)

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Front Block

PLAN SHOWING THE PROPOSED RESIDENTIAL GROUP DEVELOPEMENT WITH 2 BLOCKS; BLOCK-1: STILT + 4FLOORS (16.00m HEIGHT) RESIDENTIAL BUILDING WITH 8 DWELLING UNITS AND BLOCK - 2:STILT + 4 FLOORS (16.00m HEIGHT) RESIDENTIAL BUILDING WITH 8 DWELLING UNITS, TOTALLY 16 DWELLING UNITS, AVAILING PREMIUM FSI AT DOOR No.34, EAST MADA STREET, THIRUVANMIYUR,CHENNAI - 600041 COMPRISED IN OLD S.No. 193/42A, T.S.No. 54, BLOCK No. 60 OF THIRUVANMIYUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

STRUCTURAL CONSULTANT:

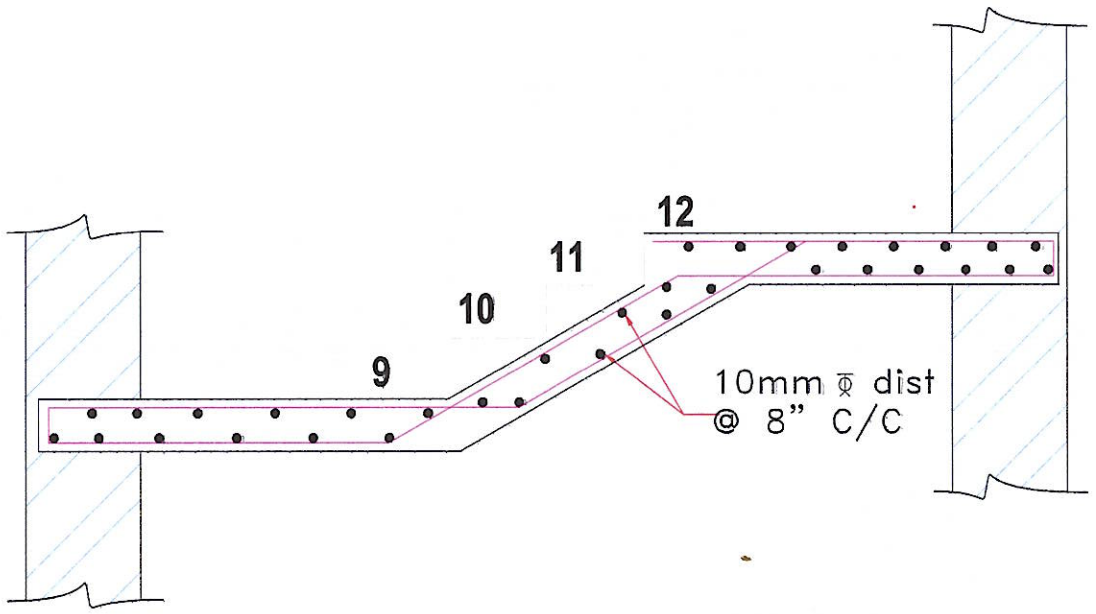
HI-TECH CONSULTANTS

CHENNAI.

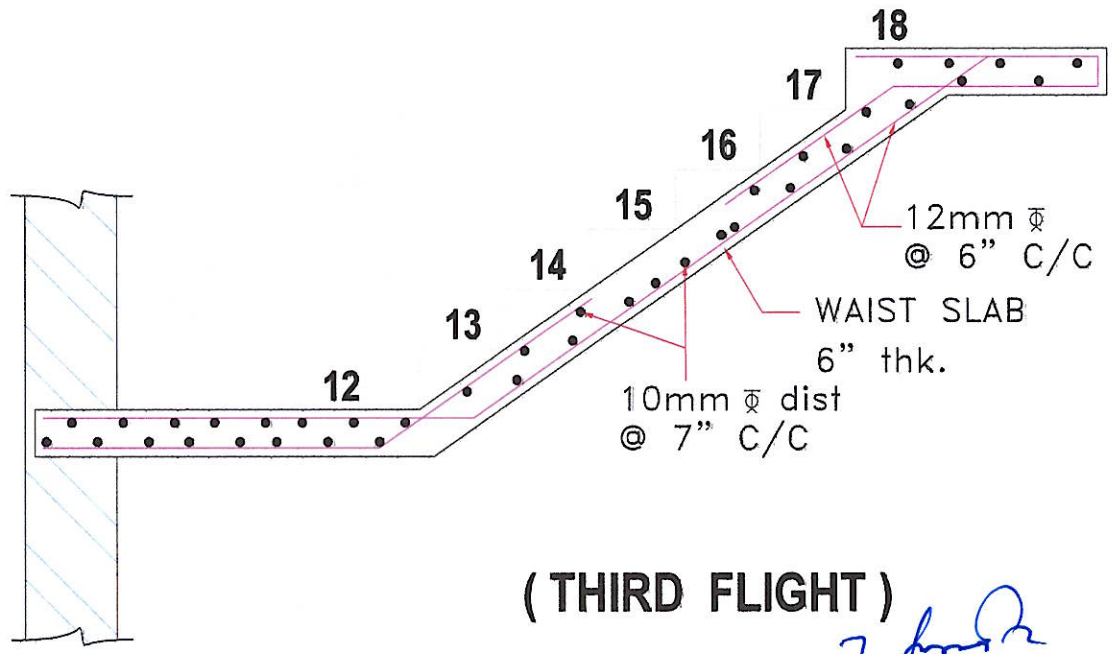
STRUCTURAL ENGINEER -

J.SRIRAMULU ; M.E (struct) ; M.I.E

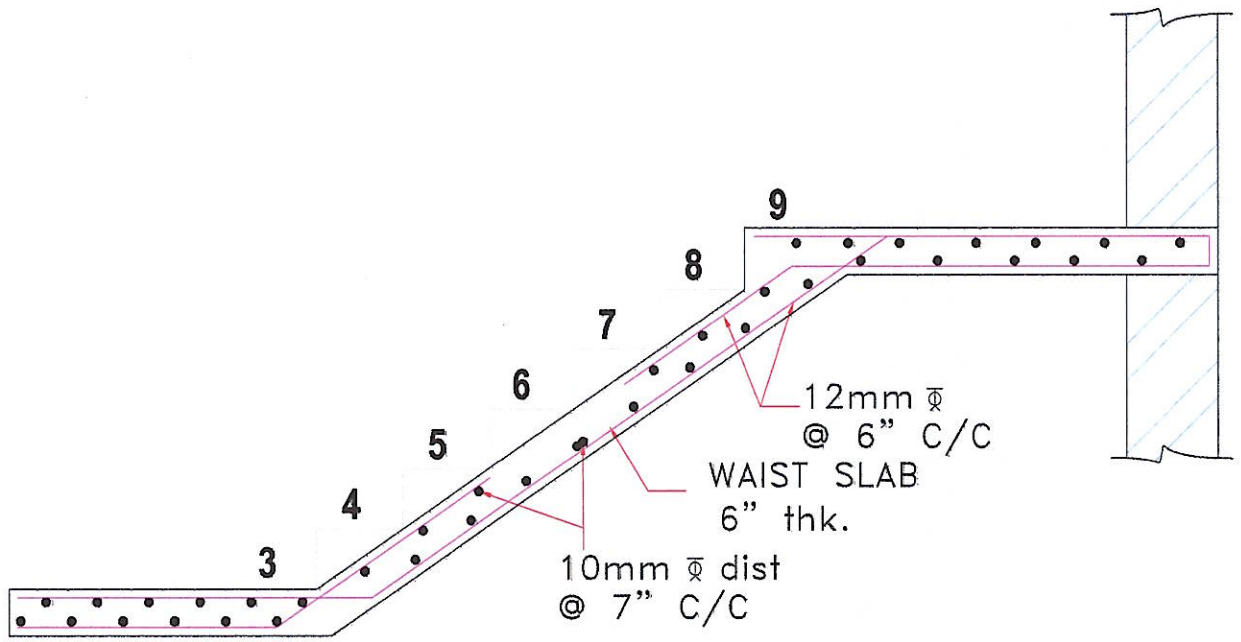
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(SECOND FLIGHT)



(THIRD FLIGHT)



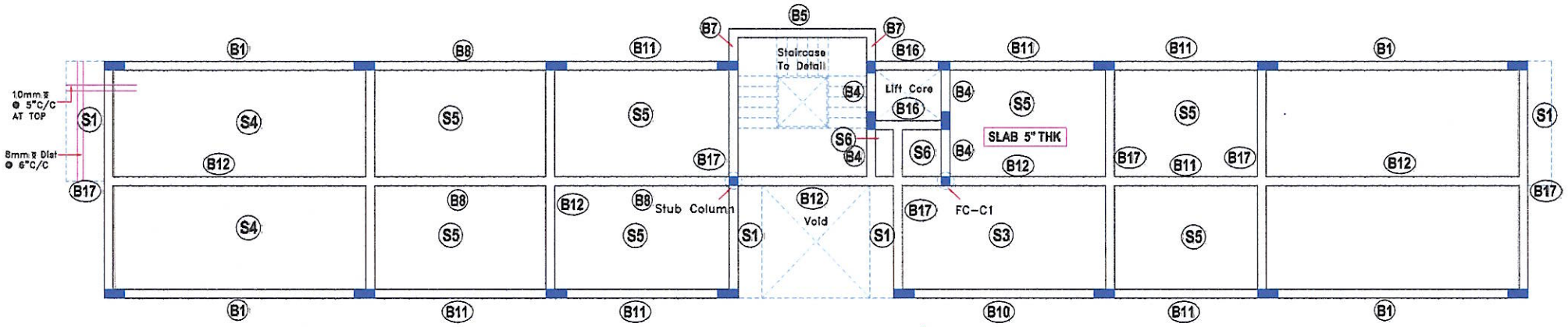
(FIRST FLIGHT)

PLAN SHOWING THE PROPOSED RESIDENTIAL GROUP DEVELOPEMENT WITH 2 BLOCKS; BLOCK-1: STILT + 4FLOORS (16.00m HEIGHT) RESIDENTIAL BUILDING WITH 8 DWELLING UNITS AND BLOCK - 2:STILT + 4 FLOORS (16.00m HEIGHT) RESIDENTIAL BUILDING WITH 8 DWELLING UNITS, TOTALLY 16 DWELLING UNITS, AVAILING PREMIUM FSI AT DOOR No.34, EAST MADA STREET, THIRUVANMIYUR,CHENNAI - 600041 COMPRISED IN OLD S.No. 193/42A, T.S.No. 54, BLOCK No. 60 OF THIRUVANMIYUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

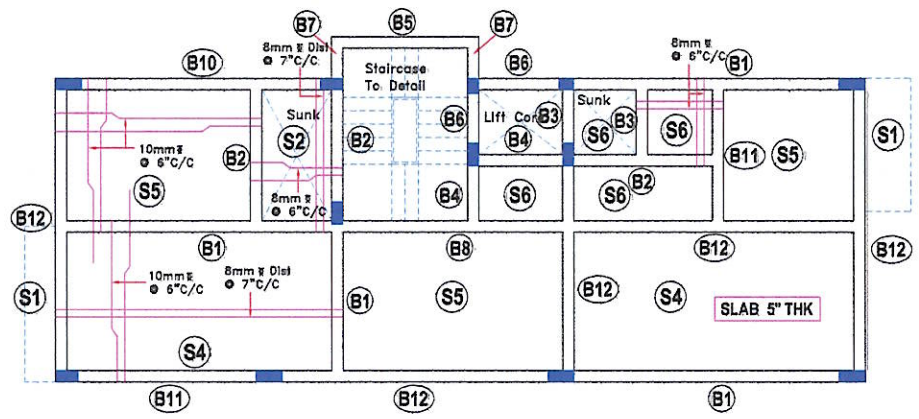
J. SRIRAMULU, M.E. (STRUCT), M.I.E.,
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SE/GR-I/19/06/161
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Chennai-600 102. Mobile:94441 44193
Email. j_sriramulu@yahoo.co.in

Rear Block

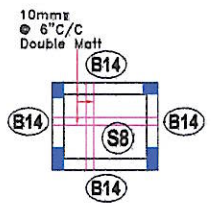
STRUCTURAL CONSULTANT:
HI-TECH CONSULTANTS
CHENNAI.
STRUCTURAL ENGINEER -
J.SRIRAMULU ; M.E (struct) ; M.I.E
MOBILE : 94441 44193.



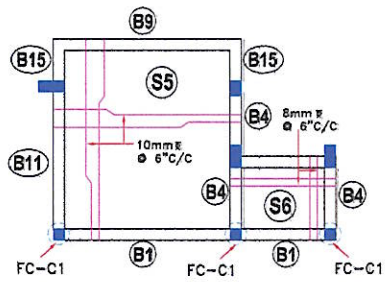
FOURTH FLOOR ROOF SLAB & BEAMS
(FRONT BLOCK)



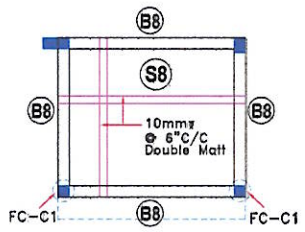
THIRD FLOOR ROOF SLAB & BEAMS
(REAR BLOCK)



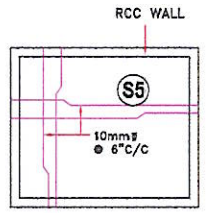
LIFT MACHINE HOIST SLAB & BEAMS
SLAB 6" THK
(FRONT BLOCK)



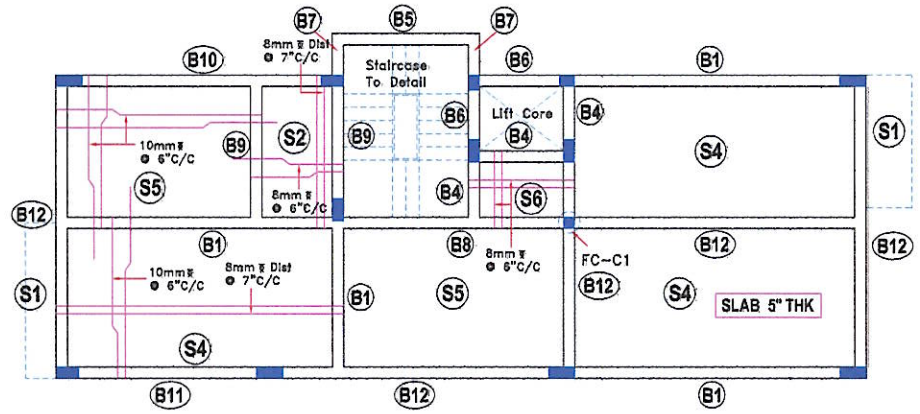
HEADROOM SLAB & BEAMS
SLAB 5" THK
(FRONT BLOCK)



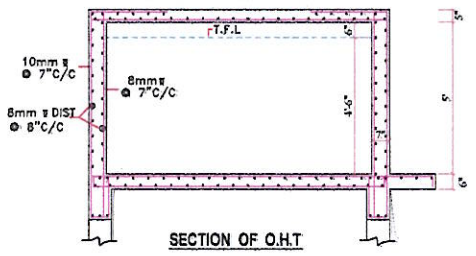
O.H.T BOTTOM SLAB & BEAMS
SLAB 6" THK
(FRONT BLOCK)



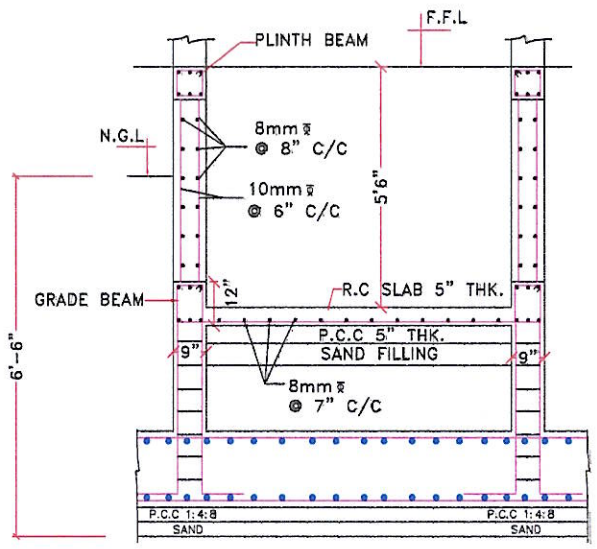
O.H.T COVER SLAB
SLAB 5" THK
(FRONT BLOCK)



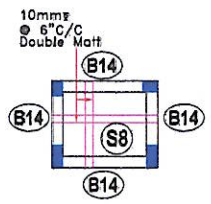
FOURTH FLOOR ROOF SLAB & BEAMS
(REAR BLOCK)



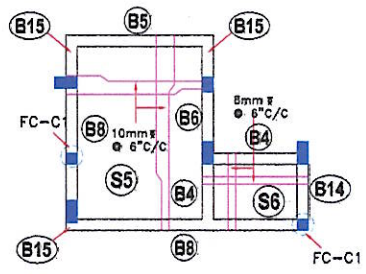
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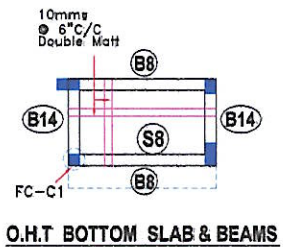
LIFT WELL DETAILS



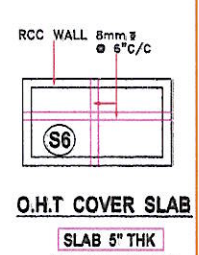
LIFT MACHINE HOIST SLAB & BEAMS
SLAB 6" THK
(REAR BLOCK)



HEADROOM SLAB & BEAMS
SLAB 5" THK
(REAR BLOCK)



O.H.T BOTTOM SLAB & BEAMS
SLAB 6" THK
(REAR BLOCK)



O.H.T COVER SLAB
SLAB 5" THK
(REAR BLOCK)

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