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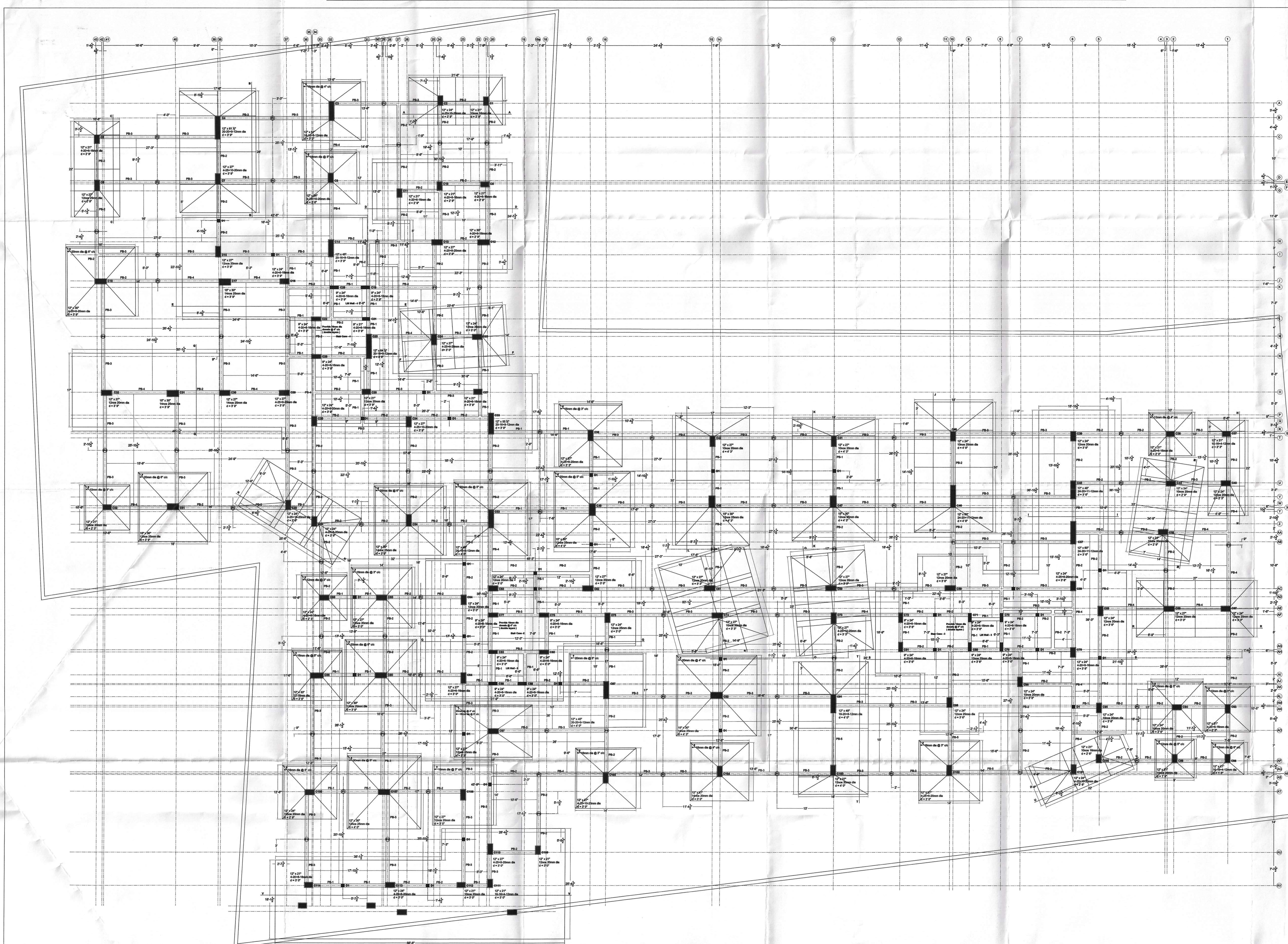
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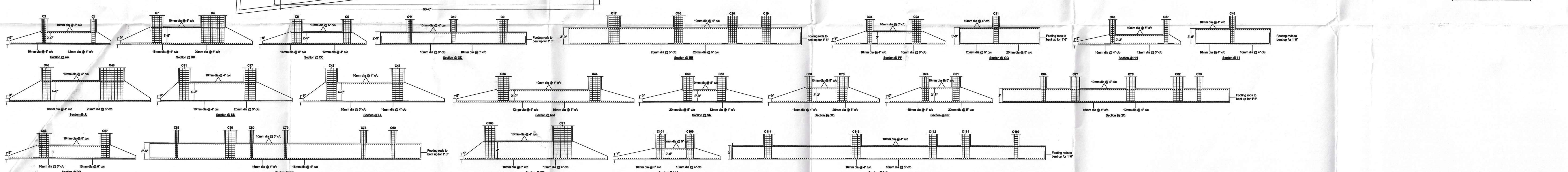
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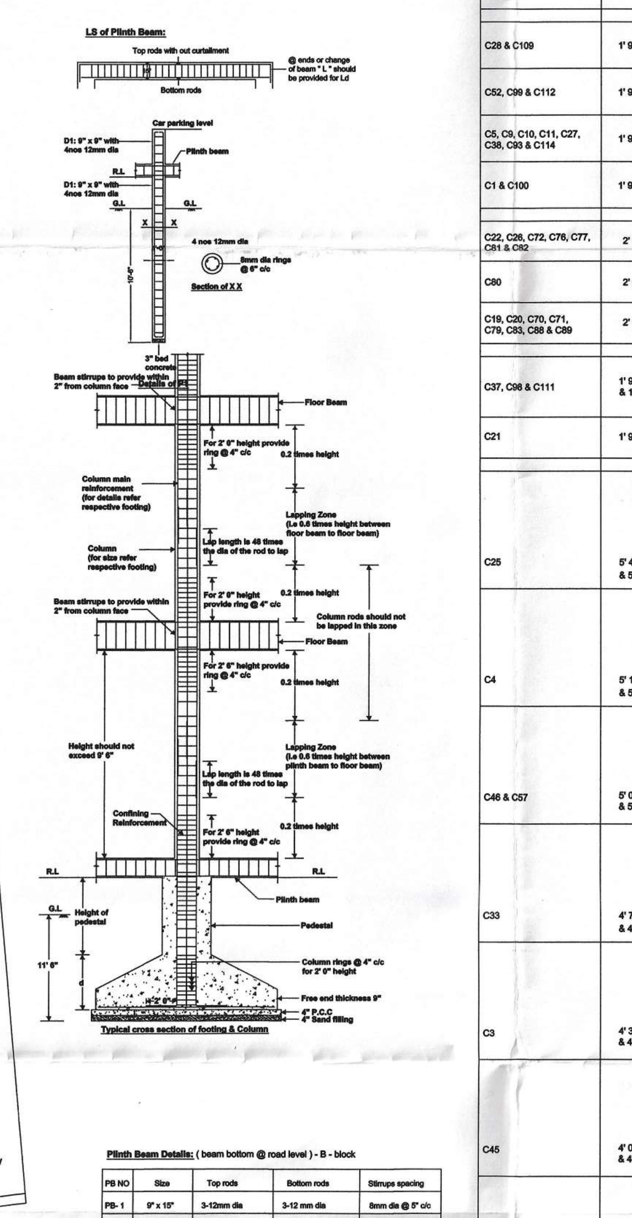
ETERNIA - BLOCK - B - FOUNDATION - 26.3.25





Orientation Of Column Rods Details - B - Block:

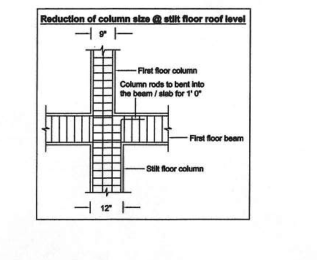
Column no.	Column Size	Pedestal Size	Stilt Floor	First & Second floors	Third, Fourth & Fifth Floors	Maximum Spacing of Rings / Confining Rings
C17, C31 & C92	2' 6" x 1' 3"	2' 9" x 1' 6"	14nos 25mm	14nos 25mm	14nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C47, C48, C49 & C51	2' 6" x 1' 3"	2' 9" x 1' 6"	12nos 25mm	12nos 25mm	12nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C86	2' 9" x 1' 0"	3' 0" x 1' 3"	12nos 16mm	12nos 16mm	12nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C54	2' 6" x 1' 0"	2' 9" x 1' 3"	14nos 25mm	14nos 25mm	14nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C85 & C107	2' 6" x 1' 0"	2' 9" x 1' 3"	12nos 25mm	12nos 25mm	12nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C18	2' 6" x 1' 0"	2' 9" x 1' 3"	4-25 + 8-20	4-25 + 8-20	4-20 + 8-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C12	2' 6" x 1' 0"	2' 9" x 1' 3"	4-20 + 8-16	4-20 + 8-16	12nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C30	2' 3" x 1' 0"	2' 6" x 1' 3"	14nos 25mm	14nos 25mm	14nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C7, C34, C73 & C105	2' 3" x 1' 0"	2' 6" x 1' 3"	4-25 + 10-20	4-25 + 10-20	4-20 + 10-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C104	2' 3" x 1' 0"	2' 6" x 1' 3"	14nos 20mm	14nos 20mm	4-20 + 10-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C8 & C97	2' 3" x 1' 0"	2' 6" x 1' 3"	12nos 25mm	12nos 25mm	12nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C13, C24, C29, C36, C102 & C110	2' 3" x 1' 0"	2' 6" x 1' 3"	4-25 + 8-20	4-25 + 8-20	4-20 + 8-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C15, C32, C59, C60, C61, C62, C65, C68, C103 & C106	2' 3" x 1' 0"	2' 6" x 1' 3"	12nos 20mm	12nos 20mm	4-20 + 8-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C41, C42 & C74	2' 3" x 1' 0"	2' 6" x 1' 3"	10nos 20mm	10nos 20mm	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C84	2' 3" x 1' 0"	2' 6" x 1' 3"	4-20 + 6-16	4-20 + 6-16	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C2, C6, C50, & C101	2' 0" x 1' 0"	2' 3" x 1' 3"	4-25 + 10-20	4-25 + 10-20	4-20 + 10-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C75 & C96	2' 0" x 1' 0"	2' 3" x 1' 3"	12nos 25mm	12nos 25mm	12nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C35, C55, C58 & C113	2' 0" x 1' 0"	2' 3" x 1' 3"	4-25 + 8-20	4-25 + 8-20	4-20 + 8-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C23, C39, C43, C63, C64, C67, C69 & C108	2' 0" x 1' 0"	2' 3" x 1' 3"	12nos 20mm	12nos 20mm	4-20 + 8-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C40, C44, C56, C90, C94 & C95	2' 0" x 1' 0"	2' 3" x 1' 3"	10nos 20mm	10nos 20mm	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C16, C66 & C78	2' 0" x 1' 0"	2' 3" x 1' 3"	4-20 + 6-16	4-20 + 6-16	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C28 & C109	1' 9" x 1' 0"	2' 0" x 1' 3"	12nos 20mm	12nos 20mm	4-20 + 8-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C52, C99 & C112	1' 9" x 1' 0"	2' 0" x 1' 3"	10nos 20mm	10nos 20mm	10nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C5, C9, C10, C11, C27, C38, C93 & C114	1' 9" x 1' 0"	2' 0" x 1' 3"	4-20 + 6-16	4-20 + 6-16	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C1 & C100	1' 9" x 1' 0"	2' 0" x 1' 3"	10nos 16mm	10nos 16mm	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C22, C26, C72, C76, C77, C81 & C82	2' 0" x 9"	2' 3" x 1' 0"	4-20 + 6-16	4-20 + 6-16	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C80	2' 0" x 9"	2' 0" x 9"	12nos 20mm	12nos 20mm	4-20 + 8-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C19, C20, C70, C71, C79, C83, C88 & C89	2' 0" x 9"	2' 0" x 9"	4-20 + 6-16	4-20 + 6-16	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C37, C98 & C111	1' 9" x 1' 0" & 1' 9" x 9"	2' 0" x 1' 3"	4nos 12mm; 10nos 16mm	10nos 16mm	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C21	1' 9" x 9"	1' 9" x 9"	4-20 + 6-16	4-20 + 6-16	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C25	5' 4½" x 1' 0" & 5' 4½" x 9"	5' 7½" x 1' 3"	9nos 12mm; 20nos 16mm	cross tie; 20nos 16mm	cross tie; 20nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C4	5' 1½" x 1' 0" & 5' 1½" x 9"	5' 4½" x 1' 3"	9nos 12mm; 20nos 20mm	cross tie; 20nos 16mm	cross tie; 20nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C46 & C57	5' 0" x 1' 0" & 5' 0" x 9"	5' 3" x 1' 3"	11nos 12mm; 24nos 20mm	cross tie; 24nos 20mm	cross tie; 24nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C33	4' 7½" x 1' 0" & 4' 7½" x 9"	4' 10½" x 1' 3"	9nos 12mm; 20nos 16mm	cross tie; 20nos 16mm	cross tie; 20nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C3	4' 3" x 1' 0" & 4' 3" x 9"	4' 6" x 1' 3"	8nos 12mm; 18nos 16mm	cross tie; 18nos 16mm	cross tie; 18nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C45	4' 0" x 1' 0" & 4' 0" x 9"	4' 3" x 1' 3"	11nos 12mm; 24nos 20mm	cross tie; 24nos 20mm	cross tie; 24nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C53	4' 0" x 1' 0" & 4' 0" x 9"	4' 3" x 1' 3"	9nos 12mm; 20nos 16mm	cross tie; 20nos 16mm	cross tie; 20nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C91	4' 0" x 1' 0" & 4' 0" x 9"	4' 3" x 1' 3"	8nos 12mm; 18nos 20mm	cross tie; 18nos 20mm	cross tie; 18nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C14	3' 9" x 1' 0" & 3' 9" x 9"	4' 0" x 1' 3"	9nos 12mm; 20nos 16mm	cross tie; 20nos 16mm	cross tie; 20nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C87	3' 9" x 1' 0" & 3' 9" x 9"	4' 0" x 1' 3"	9nos 12mm; 20nos 20mm	cross tie; 20nos 20mm	cross tie; 20nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
D1 (terminate the column @ car parking level)	9" x 9"	9" x 9"	4nos 12mm			2- legged 8mm dia @ 6" c/c



Plinth Beam Details: (beam bottom @ road level) - B - block

PB NO	Size	Top rods	Bottom rods	Stirrups spacing
PB- 1	9" x 15"	3-12mm dia	3-12 mm dia	8mm dia @ 5" c/c
PB- 2	9" x 15"	3 -12 mm dia	2-12+1-16 mm dia	8mm dia @ 5" c/c
PB- 3	9" x 15"	2-12+1-16 mm dia	2-16+1-12 mm dia	8mm dia @ 5" c/c
PB- 4	9" x 15"	2-16+1-12 mm dia	2-16+1-20 mm dia	8mm dia @ 4" c/c
PB- 5	9" x 15"	2-16+1-20 mm dia	2-20+1-16 mm dia	8mm dia @ 4" c/c

Reduction of column size @ stilt floor roof level



Notes:

1. Foundation and column are designed for seismic load of stilt + five floors as per IS1893(part-1):2016 (wall load considered is for light weight block with unit weight not to exceed 6.5kn/m^3)
2. Cover & grade of concrete

	Cover	Grade of concrete
Footing	2"	M30
Column	1½"	M30
Plinth beam	1"	M30

3. Grade of steel to be used is Fe 550
4. Lap length for column rods is 48 times dia of the bar
5. Depth of foundation and SBC considered are as per Nagadi Consultants (P) Ltd., soil report no: 10013 dated
6. Plinth beam bottom level is to be @ the existing road level
7. Designing is done based on the details shown in drawing dated 10.02.2025
8. Footing side shuttering should be done
9. Use potable water for all construction activities including curing
10. Column rods lapping should be done only @ mid height between floors
11. Do not provide pedestal for columns C19, C20, C21, C70, C71, C79, C80, C83, C88 & C89 in B-block

N. KANAGAVEL M.E, M.B.A., MIE., FIV
Registered Structural Engineer Grade-I
CMDA Reg.No. SE/GR-I/19/03/049
GCC Reg.No.RSE100022019
CA-12, Tarangani Complex,
Ambattur Industrial Estate
Mogappair West, Chennai-600 058

Project Title: Proposed Residencial Apartment Building Nest ETERNIA @ S.No: 259/2A1B, 259/2B1B @ Ottiyambakkam Main Road, Ottiyambakkam, Chennai - 600 130

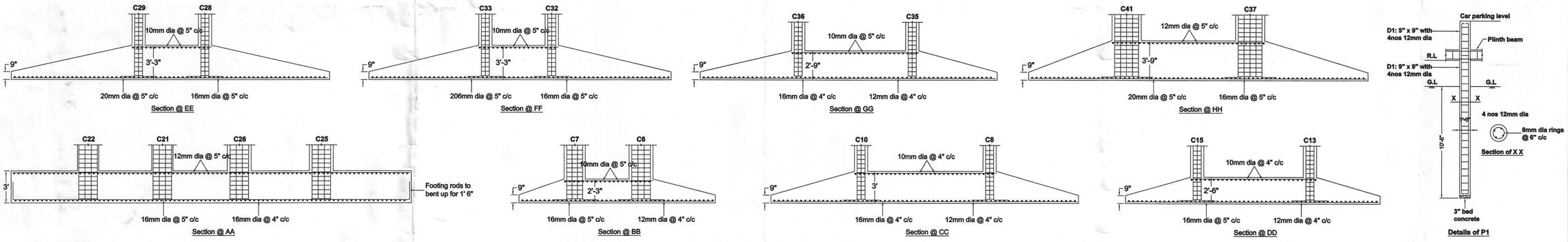
Drawing Title: Foundation, Column And Plinth Beam Details - B - Block

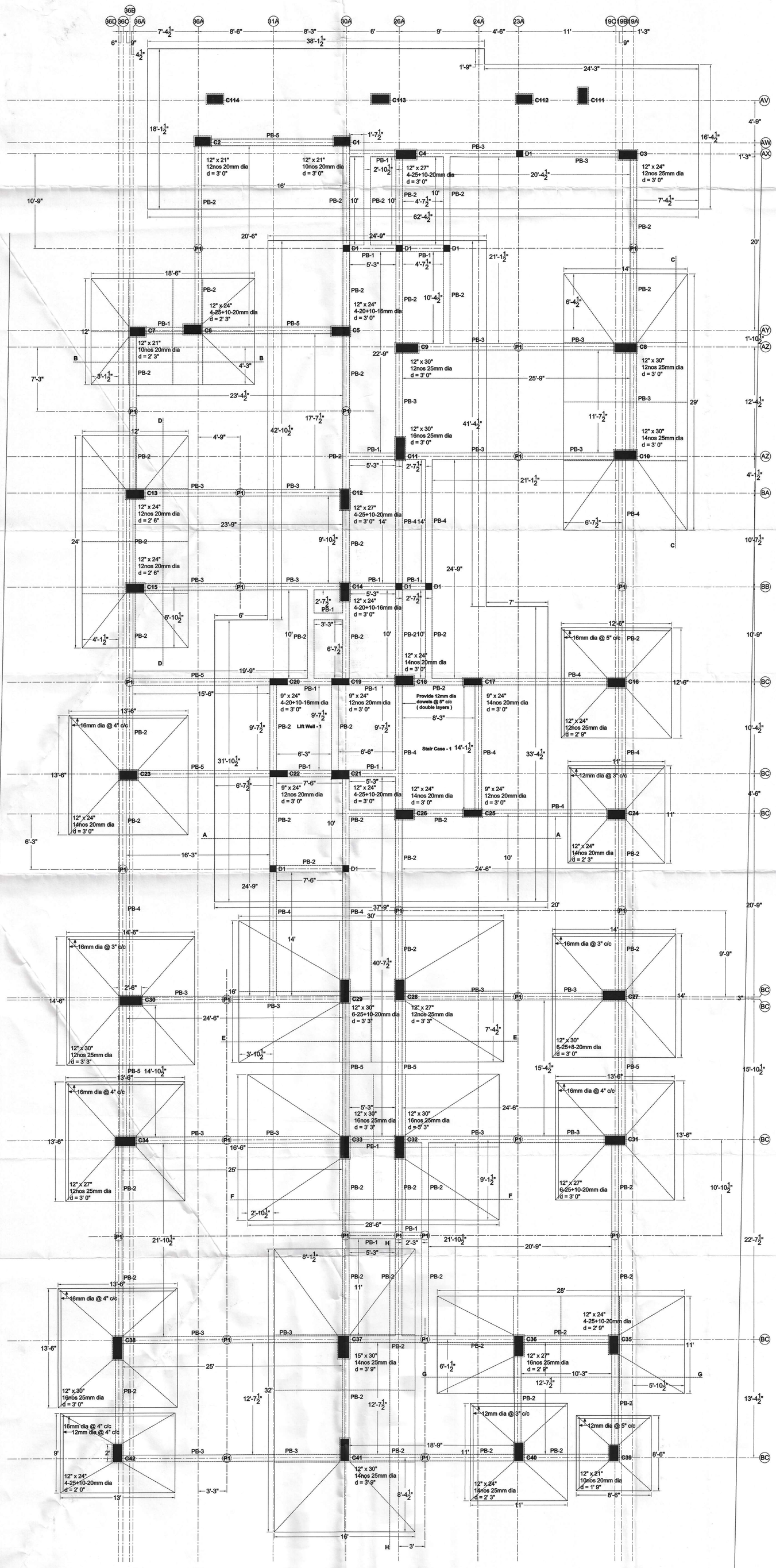
Scale: N.T.S | Date: 14.03.2025

Promoter: The Nest, No: 15, 4th street, Kamarajar Nagar, Choolaimedu, Chennai - 600 094

Structural Consultant: N. Kanagavel M.E., M.B.A., M.I.E., F.I.V, CA-12, Tarangini Complex, Ambattur Industrial Estate, Chennai - 600 058

ETERNIA BLOCK -A- FOUNDATION 09-04-25

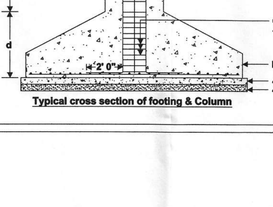




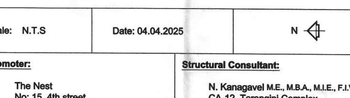
Orientation Of Column Rods Details - A - Block:

Column no.	Column Size	Pedestal Size	Stilt Floor	First & Second floors	Third, Fourth & Fifth Floors	Maximum Spacing of Rings / Confining Rings
C37	2' 6" x 1' 3"	2' 9" x 1' 6"	14nos 25mm	14nos 25mm	14nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C11, C32, C33 & C38	2' 6" x 1' 0"	2' 9" x 1' 3"	16nos 25mm	16nos 25mm	16nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C29	2' 6" x 1' 0"	2' 9" x 1' 3"	6-25 + 10-20	6-25 + 10-20	6-20 + 10-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C10 & C41	2' 6" x 1' 0"	2' 9" x 1' 3"	14nos 25mm	14nos 25mm	14nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C27	2' 6" x 1' 0"	2' 9" x 1' 3"	6-25 + 8-20	6-25 + 8-20	6-20 + 8-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C8, C9 & C30	2' 6" x 1' 0"	2' 9" x 1' 3"	12nos 25mm	12nos 25mm	4-25 + 8-20	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C36	2' 3" x 1' 0"	2' 6" x 1' 3"	16nos 25mm	16nos 25mm	16nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C31	2' 3" x 1' 0"	2' 6" x 1' 3"	6-25 + 10-20	6-25 + 10-20	6-20 + 10-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C4 & C12	2' 3" x 1' 0"	2' 6" x 1' 3"	4-25 + 10-20	4-25 + 10-20	4-20 + 10-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C28 & C34	2' 3" x 1' 0"	2' 6" x 1' 3"	12nos 25mm	12nos 25mm	12nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C40	2' 0" x 1' 0"	2' 3" x 1' 3"	14nos 25mm	14nos 25mm	14nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C6, C35 & C42	2' 0" x 1' 0"	2' 3" x 1' 3"	4-25 + 10-20	4-25 + 10-20	4-20 + 10-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C18, C23, C24 & C26	2' 0" x 1' 0"	2' 3" x 1' 3"	14nos 20mm	14nos 20mm	4-20 + 10-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C5 & C14	2' 0" x 1' 0"	2' 3" x 1' 3"	4-20 + 10-16	4-20 + 10-16	14nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C3 & C16	2' 0" x 1' 0"	2' 3" x 1' 3"	12nos 25mm	12nos 25mm	12nos 20mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C13 & C15	2' 0" x 1' 0"	2' 3" x 1' 3"	12nos 20mm	12nos 20mm	12nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C21	2' 0" x 1' 0"	2' 0" x 1' 0"	4-25 + 10-20	4-25 + 10-20	4-20 + 10-16	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C2	1' 9" x 1' 0"	2' 0" x 1' 3"	12nos 20mm	12nos 20mm	12nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C1, C7 & C39	1' 9" x 1' 0"	2' 0" x 1' 3"	10nos 20mm	10nos 20mm	10nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C17	2' 0" x 9"	2' 3" x 1' 0"	14nos 20mm	14nos 20mm	14nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C25	2' 0" x 9"	2' 3" x 1' 0"	12nos 20mm	12nos 20mm	12nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C20	2' 0" x 9"	2' 0" x 9"	4-20 + 10-16	4-20 + 10-16	14nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
C19 & C22	2' 0" x 9"	2' 0" x 9"	12nos 20mm	12nos 20mm	12nos 16mm	6- legged 8mm dia @ 6" c/c / 8mm dia @ 4" c/c
D1 (terminate the column @ car parking level)	9" x 9"	9" x 9"	4nos 12mm			2- legged 8mm dia @ 6" c/c

Reduction of column size @ stilt floor roof level

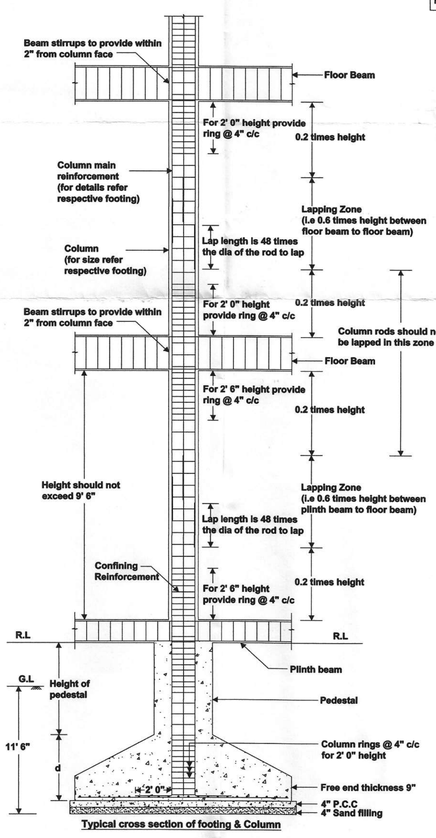


LS of Plinth Beam:



Plinth Beam Details: (beam bottom @ road level) - B - block

PB NO	Size	Top rods	Bottom rods	Stirrups spacing
PB- 1	9" x 15"	3-12mm dia	3-12 mm dia	8mm dia @ 5" c/c
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PB- 3	9" x 15"	2-12+1-16 mm dia	2-16+1-12 mm dia	8mm dia @ 5" c/c
PB- 4	9" x 15"	2-16+1-12 mm dia	2-16+1-20 mm dia	8mm dia @ 4" c/c
PB- 5	9" x 15"	2-16+1-20 mm dia	2-20+1-16 mm dia	8mm dia @ 4" c/c



Typical cross section of footing & Column

N. KANAGAVEL M.E, M.B.A., MIE., FIV
Registered Structural Engineer Grade-I
CMDA Reg.No. SE/GR-I/19/03/049
GCC Reg.No.RSE100022019
CA-12, Tarangani Complex,
Ambattur Industrial Estate
Mogappair West, Chennai-600 058

Notes:

1. Foundation and column are designed for seismic load of stilt + five floors as per IS1893(part-1)-2016 (wall load considered is for light weight block with unit weight not to exceed 6.5kn/m^3)
2. Cover & grade of concrete

	Cover	Grade of concrete
Footing	2"	M30
Column	1½"	M30
Plinth beam	1"	M30

3. Grade of steel to be used is Fe 550
4. Lap length for column rods is 48 times dia of the bar
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7. Designing is done based on the details shown in drawing dated 10.02.2025
8. Footing side shuttering should be done
9. Use potable water for all construction activities including curing
10. Column rods lapping should be done only @ mid height between floors
11. Do not provide pedestal for columns C19, C20, C21 & C22 in A-block

Project Title:

Proposed Residencial Apartment Building Nest ETERNIA @ S.No: 259/2A1B, 259/2B1B @ Ottiyambakkam Main Road, Ottiyambakkam, Chennai - 600 130

Drawing Title:

Foundation, Column And Plinth Beam Details - A - Block

Scale: N.T.S | Date: 04.04.2025 | N

Promoter:

The Nest
No: 15, 4th street,
Kamarajar Nagar,
Choolaimedu, Chennai - 600 094

Structural Consultant:

N. Kanagavel M.E., M.B.A., M.I.E., F.I.V
CA-12, Tarangini Complex,
Ambattur Industrial Estate,
Chennai - 600 058



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