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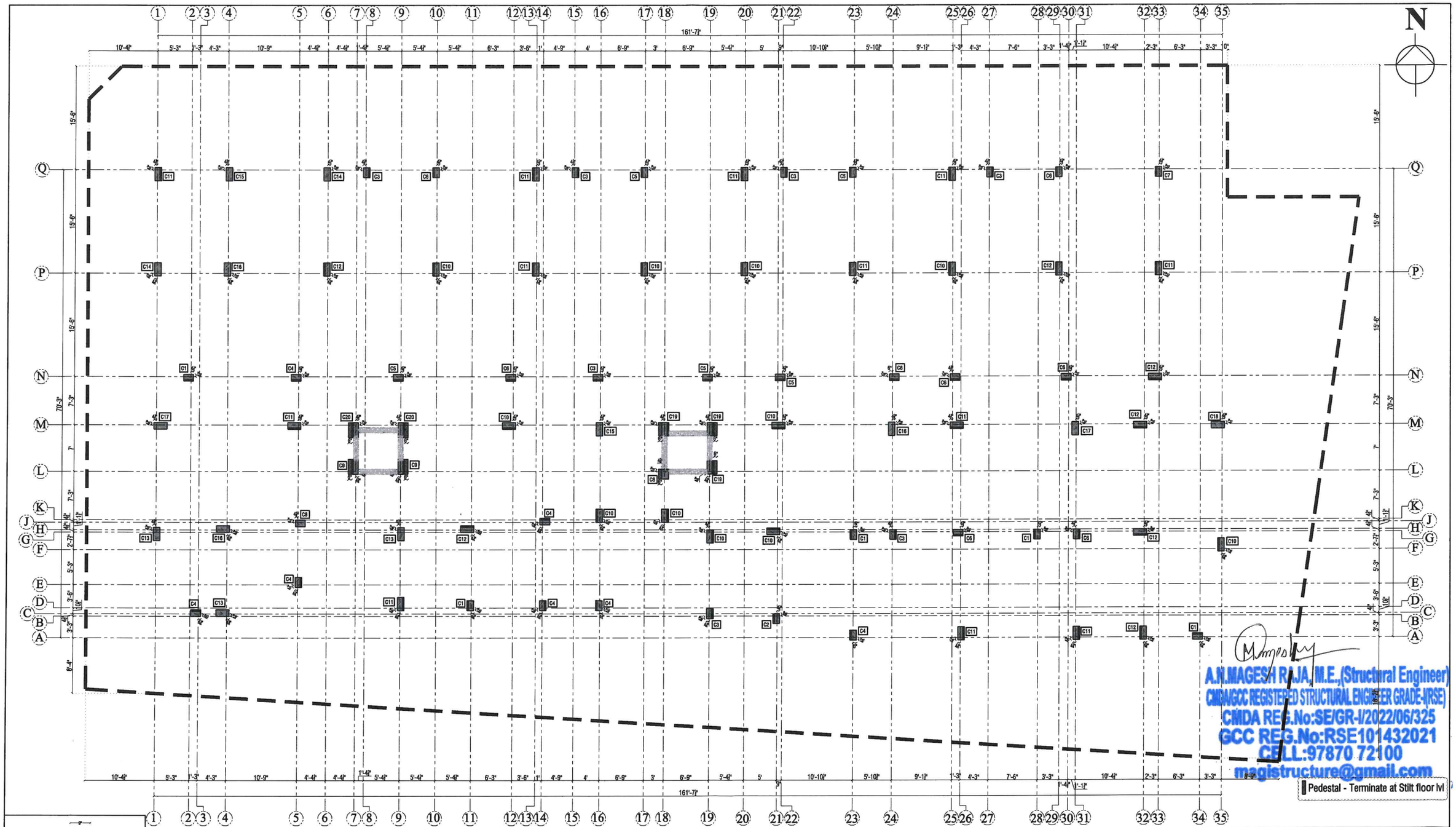
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Chennai, India

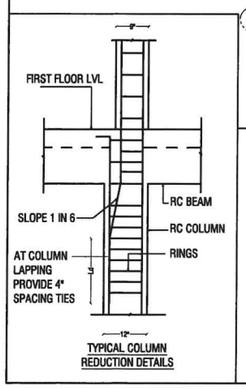
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CENTERLINE AND COLUMN LAYOUT

GENERAL NOTES

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4. THIS DRAWING SHOULD BE READ ALONG WITH THE RELEVANT ARCHITECTURAL DRAWING.
5. GRADE OF CONCRETE SHALL BE M25.GRADE OF STEEL SHALL BE Fe550
6. CLEAR COVER FOR

FOUNDATION:	PILE	:2"(50mm)
	PILE CAP	:3"(75mm)
COLUMN		:1 1/2"(40mm)
BEAM		:1"(25mm)
SLAB		:3/4"(20mm)

7. LAP LENGTH OF BARS : 50Ø, AT COLUMN LAPPING PROVIDE 4" SPACING OF TIES, NO LAPPING ALLOWED AT BEAM-COLUMN JOINT.
8. DEVELOPMENT LENGTH (Ld) FOR REINFORCEMENT BARS
   - IN COMPRESSION : 40Ø
   - IN TENSION : 50Ø
9. IN CASE OF BEAM REINFORCEMENT, NO LAPPING SHALL BE ALLOWED IN FOLLOWING PLACES
   - (a) TOP ROD NEAR COLUMN, L/4 ON EITHER SIDES OF COLUMN
   - (b) TOP ROD OF CANTILEVER BEAM ALONG THE LENGTH AND ALSO DEVELOPMENT LENGTH, BEYOND COLUMN
   - (c) BOTTOM ROD AT MID SPAN OF BEAM
11. REMOVAL OF SHUTTERING / FORM WORK

(a) COLUMN	: 24 HOURS
(b) BEAM SIDES	: 24 HOURS
(c) BEAM BOTTOM	: LESS THAN 6M SPAN : 14 DAYS
	: MORE THAN 6M SPAN : 28 DAYS
(d) SLAB	: LESS THAN 20'SPAN : 14 DAYS
	: MORE THAN 20'SPAN : 28 DAYS

HOWEVER 7 DAYS STRENGTH OF CONCRETE SHOULD BE 65% OF THE TARGET STRENGTH, TO REMOVE FORM WORK.

12. THIS BUILDING IS DESIGNED FOR S+5 FLOORS FOR AAC BLOCK LOAD.

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REVISIONS

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PLOT NO. 1, GREENBAY, MOONDRAMKATTALAI

COLUMN LAYOUT AND REINFORCEMENT DETAILS

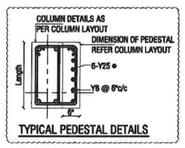
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Drawn	BINDHU
Design & Checked	MAGESH

Size	DWG No	
A0	DWG-M	-001

RCC COLUMN DETAIL

S No	Column No	Column Size	Column Reinforcement from Foundation to Stilt roof lvl	Column Reinforcement from Stilt to First Floor roof Lvl	Column Reinforcement from FF to Second Floor roof Lvl	Column Reinforcement from SF to Third floor roof lvl	ColumnReinforcement from Third floor to Fifth floor roof lvl	No. of columns	Ties
1	C1	12"/9" x 18"	4 - Y20 + 4 - Y16 ● Y8 @ 6"c/c	4 - Y20 + 4 - Y16 ● Y8 @ 6"c/c	8 - Y16 Y8 @ 6"c/c	4 - Y16 + 4 - Y12 ● Y8 @ 6"c/c	4 - Y16 + 4 - Y12 ● Y8 @ 6"c/c	5	
2	C2	12"/9" x 18"	8 - Y20 Y8 @ 6"c/c	8 - Y20 Y8 @ 6"c/c	4 - Y20 + 4 - Y16 ● Y8 @ 6"c/c	8 - Y16 Y8 @ 6"c/c	4 - Y16 + 4 - Y12 ● Y8 @ 6"c/c	1	
3	C3	12"/9" x 18"	8 - Y20 Y8 @ 6"c/c	8 - Y20 Y8 @ 6"c/c	8 - Y20 Y8 @ 6"c/c	4 - Y20 + 4 - Y16 ● Y8 @ 6"c/c	8 - Y16 Y8 @ 6"c/c	7	
4	C4	12"/9" x 18"	8 - Y20 + 2 - Y16 ● Y8 @ 6"c/c	8 - Y20 + 2 - Y16 ● Y8 @ 6"c/c	8 - Y20 Y8 @ 6"c/c	4 - Y20 + 4 - Y16 ● Y8 @ 6"c/c	8 - Y16 Y8 @ 6"c/c	7	
5	C5	12"/9" x 18"	4 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	8 - Y20 Y8 @ 6"c/c	4 - Y20 + 4 - Y16 ● Y8 @ 6"c/c	5	
6	C6	12"/9" x 18"	4 - Y25 + 4 - Y20 Y8 @ 6"c/c	4 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 4 - Y16 ● Y8 @ 6"c/c	4 - Y20 + 4 - Y16 ● Y8 @ 6"c/c	8	
7	C7	12"/9" x 18"	4 - Y25 + 4 - Y20 Y8 @ 6"c/c	4 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	8 - Y20 Y8 @ 6"c/c	1	
8	C8	12"/9" x 18"	8 - Y25 Y8 @ 6"c/c	8 - Y25 Y8 @ 6"c/c	4 - Y25 + 4 - Y20 Y8 @ 6"c/c	8 - Y20 Y8 @ 6"c/c	4 - Y20 + 4 - Y16 Y8 @ 6"c/c	2	
9	C9	12"/9" x 27"	12 - Y25 Y8 @ 6"c/c	4 - Y25+ 8 - Y20 ● Y8 @ 6"c/c	12 - Y20 Y8 @ 6"c/c	8 - Y20+ 4 - Y16 ● Y8 @ 6"c/c	12 - Y16 Y8 @ 6"c/c	2	
10	C10	12"/9" x 24"	10 - Y20 Y8 @ 6"c/c	10 - Y20 Y8 @ 6"c/c	8 - Y20 + 2 - Y16 ● Y8 @ 6"c/c	4 - Y20 + 6 - Y16 ● Y8 @ 6"c/c	10 - Y16 Y8 @ 6"c/c	11	
11	C11	12"/9" x 24"	4 - Y25 + 6 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 6 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 6 - Y20 ● Y8 @ 6"c/c	10 - Y20 Y8 @ 6"c/c	4 - Y20 + 6 - Y16 ● Y8 @ 6"c/c	12	
12	C12	12"/9" x 24"	6 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	6 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	6 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	10 - Y20 Y8 @ 6"c/c	4 - Y20 + 6 - Y16 ● Y8 @ 6"c/c	7	
13	C13	12"/9" x 24"	8 - Y25 + 2 - Y20 ● Y8 @ 6"c/c	8 - Y25 + 2 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 6 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 6 - Y20 ● Y8 @ 6"c/c	6 - Y20 + 4 - Y16 ● Y8 @ 6"c/c	3	
14	C14	12"/9" x 24"	10 - Y25 Y8 @ 6"c/c	10 - Y25 Y8 @ 6"c/c	6 - Y25 + 4 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 6 - Y20 ● Y8 @ 6"c/c	6 - Y20 + 4 - Y16 ● Y8 @ 6"c/c	2	
15	C15	12" x 24"	6 - Y25 + 2 - Y20 ● Y8 @ 6"c/c	6 - Y25 + 2 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 6 - Y20 ● Y8 @ 6"c/c	10 - Y20 Y8 @ 6"c/c	4 - Y20 + 6 - Y16 ● Y8 @ 6"c/c	2	
16	C16	12" x 24"	10 - Y25 Y8 @ 6"c/c	10 - Y25 Y8 @ 6"c/c	4 - Y25 + 6 - Y20 ● Y8 @ 6"c/c	10 - Y20 Y8 @ 6"c/c	6 - Y20 + 4 - Y16 ● Y8 @ 6"c/c	3	
17	C17	12" x 24"	10 - Y25 + 2 - Y20 ● Y8 @ 6"c/c	10 - Y25 + 2 - Y20 ● Y8 @ 6"c/c	4 - Y25 + 8 - Y20 ● Y8 @ 6"c/c	12 - Y20 Y8 @ 6"c/c	6 - Y20 + 6 - Y16 ● Y8 @ 6"c/c	2	
18	C18	12"/9" x 24"	12 - Y25 Y8 @ 6"c/c	12 - Y25 Y8 @ 6"c/c	4 - Y25 + 8 - Y20 ● Y8 @ 6"c/c	12 - Y20 Y8 @ 6"c/c	12 - Y16 Y8 @ 6"c/c	1	
19	C19	12"/9" x 24"	12 - Y25 Y8 @ 6"c/c	12 - Y20 Y8 @ 6"c/c	12 - Y20 Y8 @ 6"c/c	12 - Y16 Y8 @ 6"c/c	12 - Y16 Y8 @ 6"c/c	3	
20	C20	12"/9" x 27"	14 - Y25 Y8 @ 6"c/c	4 - Y25 + 8 - Y20 ● Y8 @ 6"c/c	4 - Y20 + 8 - Y16 ● Y8 @ 6"c/c	8 - Y16 + 4 - Y12 ● Y8 @ 6"c/c	8 - Y16 + 4 - Y12 ● Y8 @ 6"c/c	2	
							TOTAL NO. OF COLUMN	86	



TYPICAL PEDESTAL DETAILS

Notes: Terminate Pedestal @ Stilt Floor lvl

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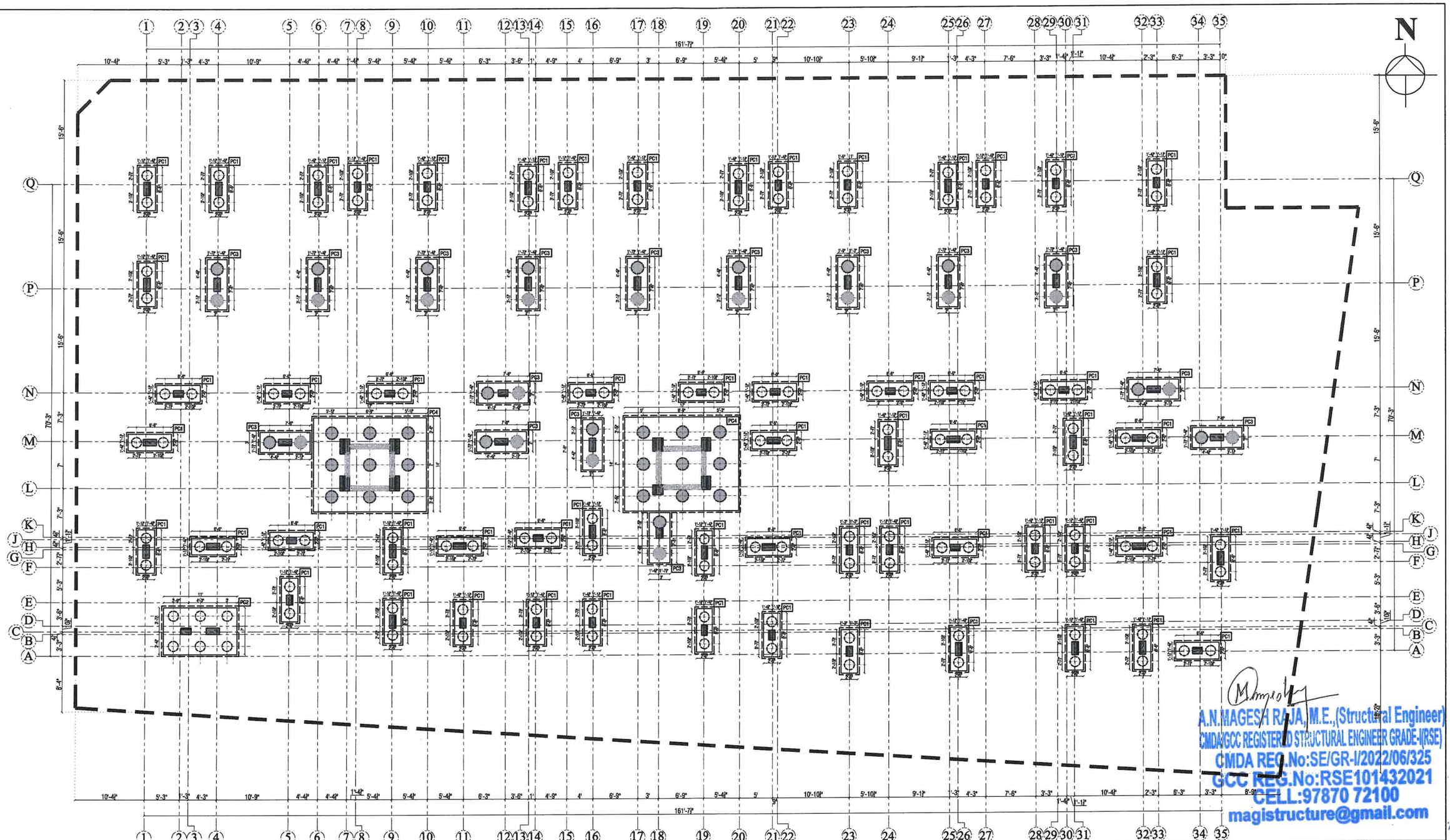
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COLUMN REINFORCEMENT DETAILS

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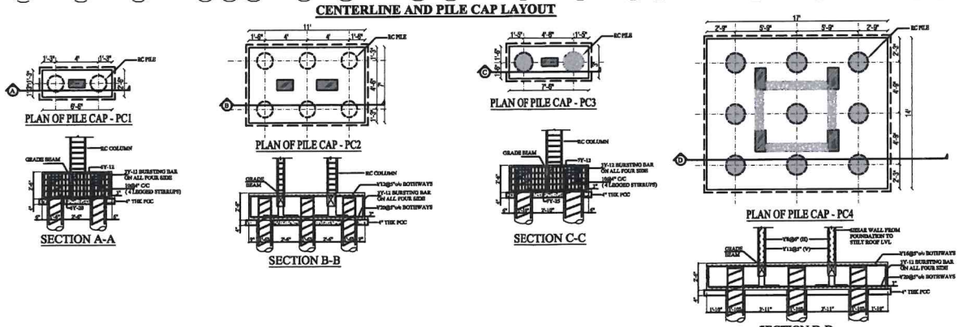
Drawn	BINDHU
Design & Checked	MAGESH
Size	A0
DWG No	DWG-M -002

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PILE CAP SCHEDULE							
S.NO	PILE SIZE	LENGTH	BREADTH	DEPTH	REINFORCEMENT	BURSTING REINF.	No.
PC1	2 No of 1'6"Ø pile	6'-6"	2'-6"	2'-6"	TOP 6-Y12 BOTTOM 6-Y20 USE 4 LEGGED STIRRUPS Y10@4"c/c	3 Nos 12Ø	60
PC2	6 Nos of 1'6"Ø pile	11'-0"	7'-0"	2'-6"	TOP-Y12 @ 5" c/c BOTH WAYS BOTTOM - Y20 @ 5"c/c BOTH WAYS	3 Nos 12Ø	1
PC3	2 No of 1'10"Ø pile	7'-6"	3'-0"	2'-6"	TOP 7-Y12 BOTTOM 7-Y20 USE 4 LEGGED STIRRUPS Y10@4"c/c	3 Nos 12Ø	16
PC4	9 Nos of 1'10"Ø pile	17'-0"	14'-0"	2'-6"	TOP-Y16 @ 5" c/c BOTH WAYS BOTTOM - Y20 @ 5"c/c BOTH WAYS	3 Nos 12Ø	2

CENTERLINE AND PILE CAP LAYOUT



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5. PILE CAPACITY - AXIAL COMPRESSION - 600KN ;
6. AXIAL TENSION - 270 KN ; LATERAL CAPACITY - 20KN
7. GRADE OF CONCRETE SHALL BE M25.GRADE OF STEEL SHALL BE Fe550
8. CLEAR COVER FOR
   PILE : PILE :2"(50mm)
   PILE CAP :2"(50mm)
   COLUMN :1 1/2"(40mm)
   PLINTH BEAM :1"(25mm)
9. LAP LENGTH OF BARS : 50Ø, AT COLUMN LAPPING PROVIDE 4" SPACING OF TIES, NO LAPPING ALLOWED AT BEAM-COLUMN JOINT.
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12. REMOVAL OF SHUTTERING / FORM WORK
    (a) COLUMN : 24 HOURS
    (b) PILE CAP SIDES : 24 HOURS
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14. THIS BUILDING IS DESIGNED FOR S+5 FLOORS FOR AAC BLOCK LOAD.

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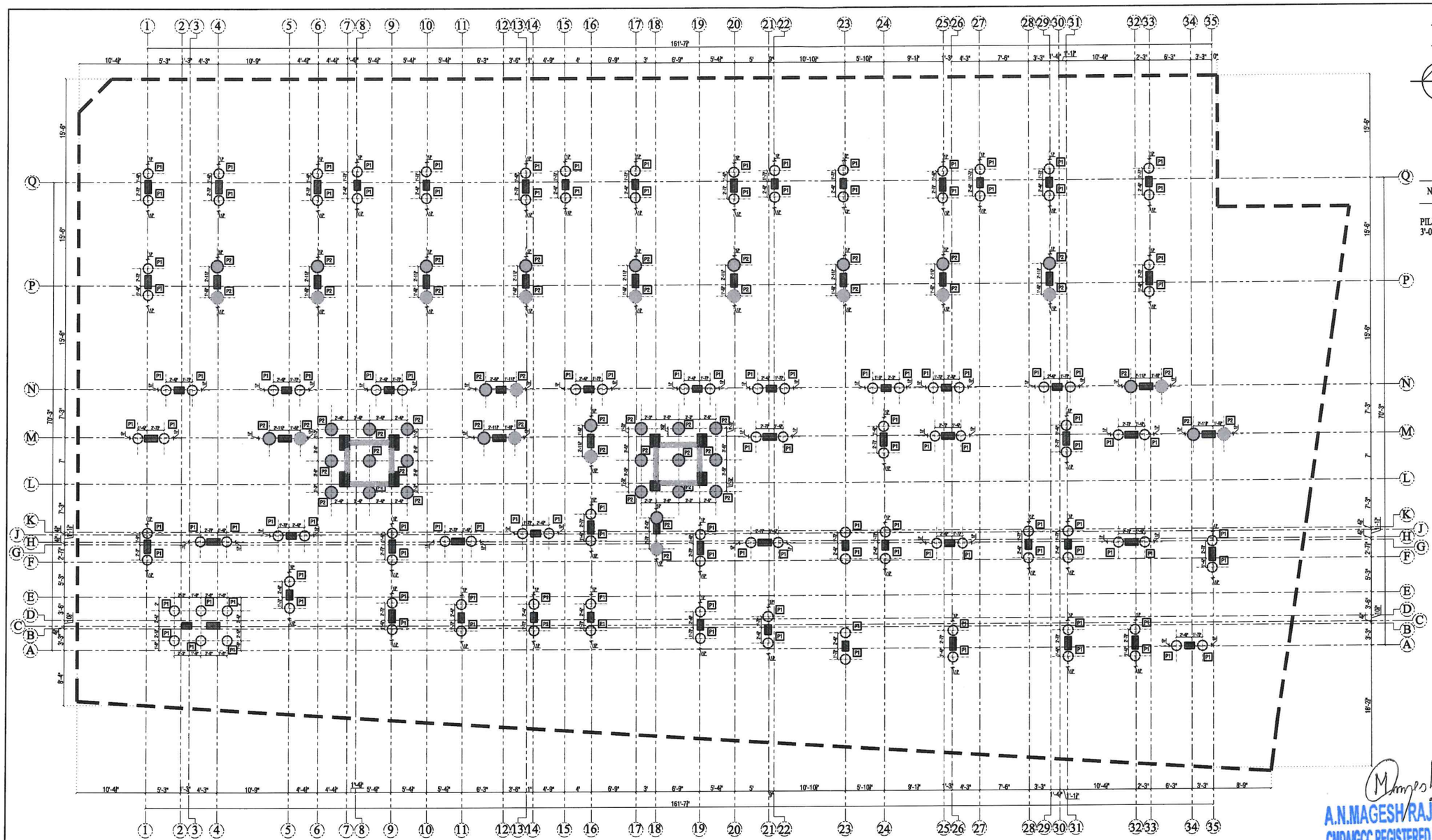
PLOT NO. 1, GREENBAY, MOONDRAMKATTALAI

PILE & PILE CAP LAYOUT AND REINFORCEMENT DETAILS

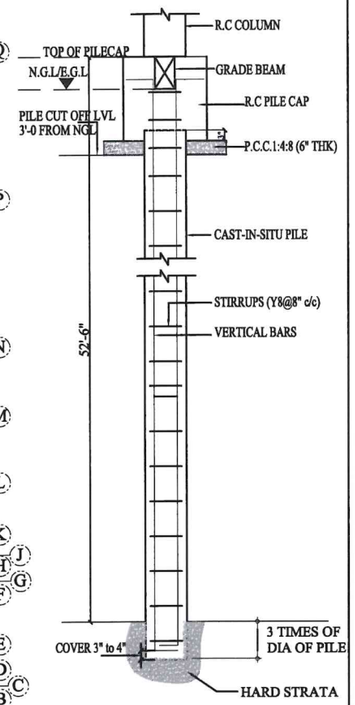
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Design & Checked	MAGESH

Size	A0	DWG No	DWG-M -003

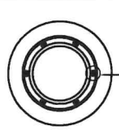
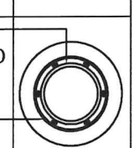
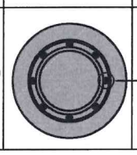
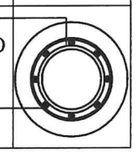


CENTERLINE AND PILE LAYOUT



TYPICAL SECTION OF CAST-IN-SITU PILE

BORED CAST IN SITU PILE SCHEDULE:

SL NO	PILE No.	PILE SIZE	PILE INDICATION	MAIN REINFT.	LATERAL TIES	PILE SHAPE
1	P1	1'-6"Ø		6-Y20	16Y INNER RING @ 5'-0" c/c WELDED TO VERTICALS 8Y @ 8"c/c OUTER HELICAL RING	
2	P2	1'-10"Ø		8-Y20	16Y INNER RING @ 5'-0" c/c WELDED TO VERTICALS 8Y @ 8"c/c OUTER HELICAL RING	

IMPORTANT NOTES :

* MINIMUM M35. THE MINIMUM CEMENT CONTENT SHALL BE 400 Kg/M³. HOWEVER WITH PROPER MIX DESIGN AND USE OF PROPER ADMIXTURE, THE CEMENT CONTENT MAY BE REDUCED. BUT IN NO CASE THE CEMENT CONTENT SHALL BE LESS THAN 350Kg/M³.

* PILE CUT-OFF LEVEL IS LESS THAN THAN 5'-0" BELOW WORKING LEVEL, THE CONCRETE SHALL BE CAST TO A MINIMUM OF 2'-0" ABOVE THE CUT-OFF LEVEL

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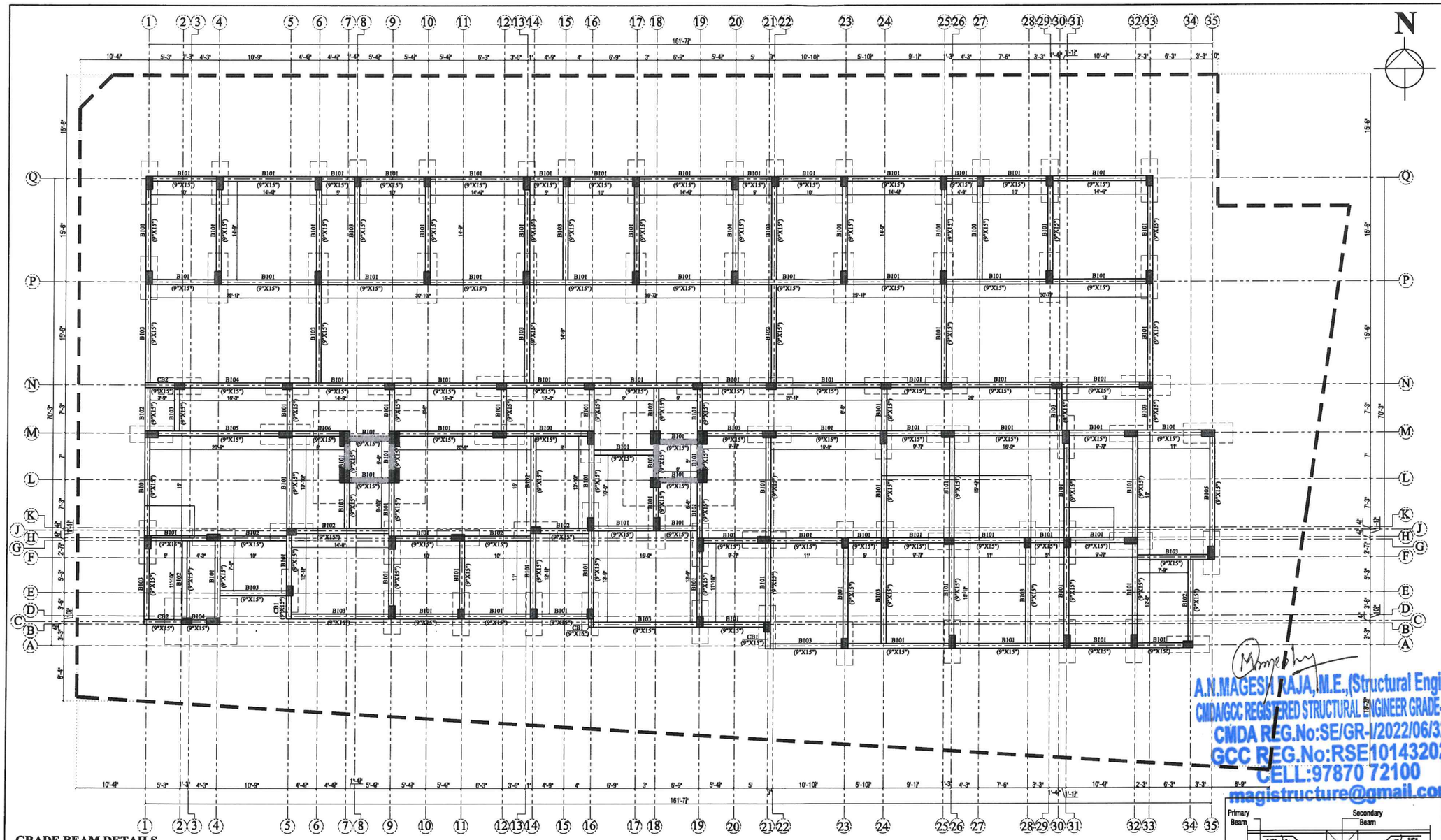
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PILE LAYOUT AND REINFORCEMENT DETAILS

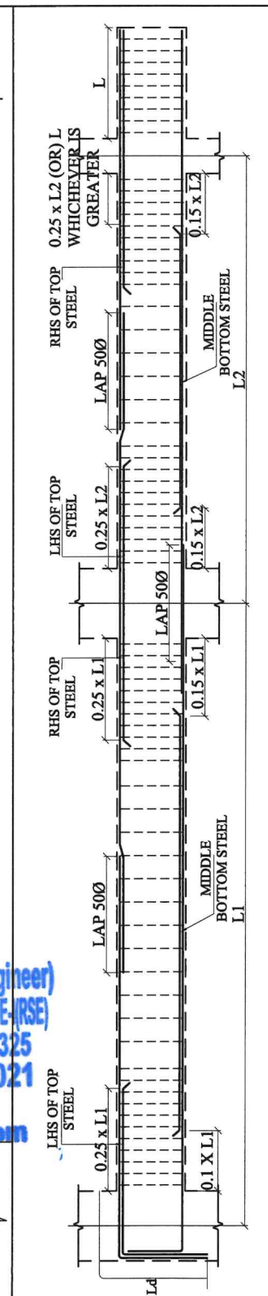
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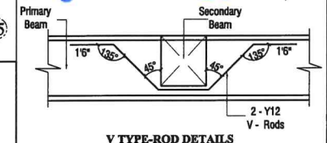
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TYPICAL LAPPING & CURTAILMENT DETAILS OF BEAM



V TYPE-ROD DETAILS

GRADE BEAM DETAILS

S No	Beam No	Beam Size	C/S of LHS support	C/S of Mid span	C/S of RHS support
1	B101	9" x 15"	2 - Y12 + 1 - Y12 (ext) ● Y8 @ 6"c/c 2 - Y12	2 - Y12 Y8 @ 8"c/c 2 - Y12 + 1 - Y12 (ext) ●	2 - Y12 + 1 - Y12 (ext) ● Y8 @ 6"c/c 2 - Y12
2	B102	9" x 15"	2 - Y12 + 1 - Y12 (ext) ● Y8 @ 6"c/c 2 - Y12	2 - Y12 Y8 @ 8"c/c 2 - Y12 + 1 - Y12 (ext) ●	2 - Y12 Y8 @ 6"c/c 2 - Y12
3	B103	9" x 15"	2 - Y12 Y8 @ 6"c/c 2 - Y12	2 - Y12 Y8 @ 8"c/c 2 - Y12 + 1 - Y12 (ext) ●	2 - Y12 + 1 - Y12 (ext) ● Y8 @ 6"c/c 2 - Y12
4	B104	9" x 15"	2 - Y12 + 1 - Y20 (ext) ● Y8 @ 6"c/c 2 - Y12	2 - Y12 Y8 @ 8"c/c 2 - Y12 + 1 - Y20 (ext) ●	2 - Y12 + 1 - Y12 (ext) ● Y8 @ 6"c/c 2 - Y12
5	B105	9" x 15"	3 - Y12 + 2 - Y16 (ext) ● Y8 @ 6"c/c 3 - Y12	3 - Y12 Y8 @ 8"c/c 3 - Y12 + 2 - Y16 (ext) ●	3 - Y12 + 2 - Y16 (ext) ● Y8 @ 6"c/c 3 - Y12
6	B106	9" x 15"	3 - Y12 + 2 - Y16 (ext) ● Y8 @ 6"c/c 2 - Y12	2 - Y12 Y8 @ 8"c/c 2 - Y12	2 - Y12 Y8 @ 6"c/c 2 - Y12
7	CB1	9" x 15"	3 - Y12 Y8 @ 6"c/c 2 - Y12		
8	CB2	9" x 15"	2 - Y12 + 1 - Y20 ● Y8 @ 6"c/c 2 - Y12		

GENERAL NOTES

1. ALL DIMENSIONS ARE IN FEET & INCHES, UNLESS OTHERWISE SPECIFIED.
2. DRAWING SHOULD NOT BE SCALED, FOLLOW FIGURED DIMENSIONS.
3. ANY DISCREPANCY IN DRAWING SHALL BE BRING TO NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
4. THIS DRAWING SHOULD BE READ ALONG WITH THE RELEVANT ARCHITECTURAL DRAWING.
5. PILE CAPACITY - AXIAL COMPRESSION - 600KN ;
6. AXIAL TENSION - 270 KN ; LATERAL CAPACITY - 20KN
7. GRADE OF CONCRETE SHALL BE M25.GRADE OF STEEL SHALL BE Fe550
8. CLEAR COVER FOR
   PILE : PILE :2"(50mm)
   PILE CAP :2"(50mm)
   COLUMN :1 1/2"(40mm)
   PLINTH BEAM :1"(25mm)
9. LAP LENGTH OF BARS : 50Ø, AT COLUMN LAPPING PROVIDE 4" SPACING OF TIES, NO LAPPING ALLOWED AT BEAM-COLUMN JOINT.
10. DEVELOPMENT LENGTH (Ld) FOR REINFORCEMENT BARS
    IN COMPRESSION : 40Ø
    IN TENSION : 50Ø
11. IN CASE OF BEAM REINFORCEMENT, NO LAPPING SHALL BE ALLOWED IN FOLLOWING PLACES
    (a) TOP ROD NEAR COLUMN, L/4 ON EITHER SIDES OF COLUMN
    (b) TOP ROD OF CANTILEVER BEAM ALONG THE LENGTH AND ALSO DEVELOPMENT LENGTH, BEYOND COLUMN
    (c) BOTTOM ROD AT MID SPAN OF BEAM
12. REMOVAL OF SHUTTERING / FORM WORK
    (a) COLUMN : 24 HOURS
    (b) PILE CAP SIDES : 24 HOURS
    (C) PLINTH BEAM : 24 HOURS
13. HOWEVER 7 DAYS STRENGTH OF CONCRETE SHOULD BE 65% OF THE TARGET STRENGTH, TO REMOVE FORM WORK.
14. THIS BUILDING IS DESIGNED FOR S+5 FLOORS FOR AAC BLOCK LOAD.

Ref.	Description	Date	Sign
R0	GOOD FOR CONSTRUCTION	28.08.24	

REVISIONS

☐ Advance copy ☒ Good for construction

PLOT NO. 1, GREENBAY, MOONDRAMKATTALAI

PLINTH BEAM LAYOUT AND REINFORCEMENT DETAILS

mp developers
Plot No.3,
Tannery Street,
Somasundaram Nagar,
Pallavaram, Chennai - 600 043

Drawn	BINDHU
Design & Checked	MAGESH
Size	A0
DWG No	DWG-M -004



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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

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