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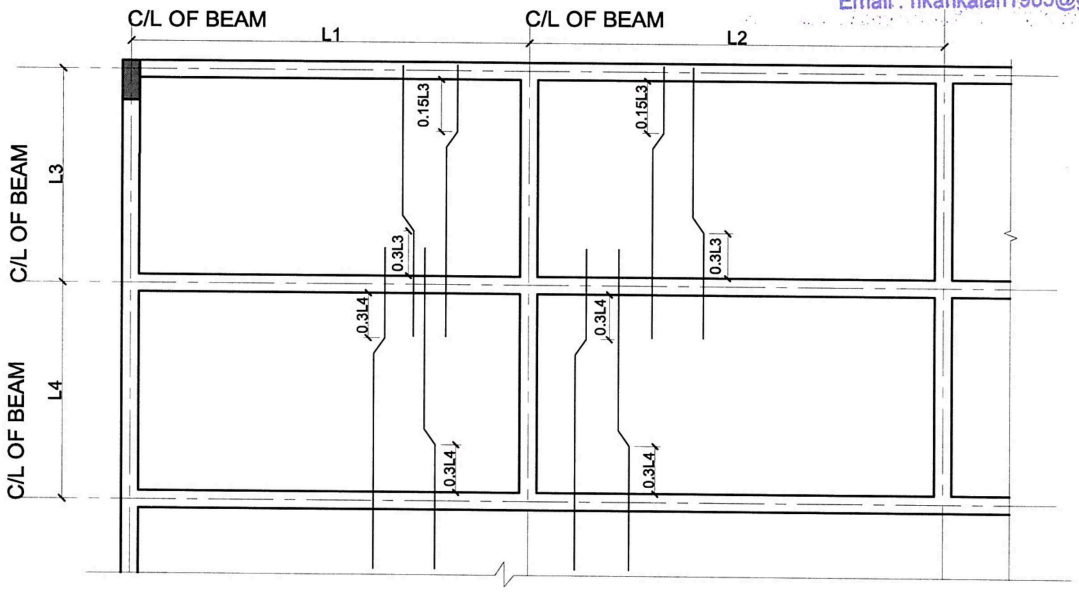
SCHEDULE OF SLAB REINFORCEMENT

SLAB NO	SLAB THICKNESS	SLAB TYPE	REINFORCEMENT		
			SHORT SPAN	LONG SPAN	DISTRIBUTION
S1	5"	ONE WAY	T8 AT 5" C/C	--------	T8 AT 7" C/C
S2	5"	TWO WAY	T10 AT 5" C/C	T10 AT 5" C/C	T8 AT 7" C/C
S3	5"	ONE WAY	T8 AT 6" C/C	-------	T8 AT 7" C/C
S4	5"	TWO WAY	T10 AT 5" C/C	T10 AT 5" C/C	T8 AT 7" C/C
S5	6"	ONE WAY	T10 AT 4" C/C	---------	T8 AT 7" C/C
S1a	6"	TWO WAY	T10 AT 5" C/C	T10 AT 5" C/C	T8 AT 7" C/C

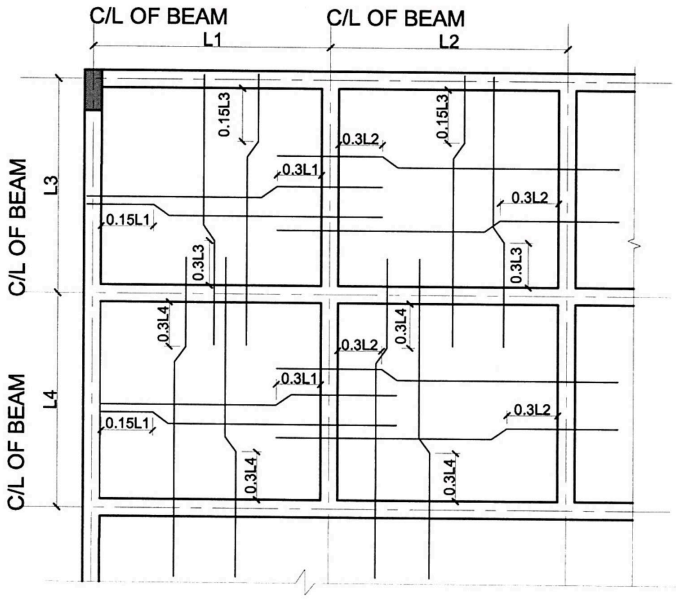
SCHEDULE OF SLAB REINFORCEMENT

SLAB NO	SLAB THICKNESS	SLAB TYPE	REINFORCEMENT		
			SHORT SPAN	LONG SPAN	DISTRIBUTION
CS1	5"	ONE WAY	T10 AT 6" C/C	--------	T8 AT 7" C/C
CS2	5"	TWO WAY	T10 AT 6" C/C	T10 AT 6" C/C	T8 AT 7" C/C
CS3	8"	TWO WAY	T8 AT 6" C/C	T8 AT 6" C/C	T8 AT 7" C/C
CS4	8"	TWO WAY	T8 AT 6" C/C	T8 AT 6" C/C	T8 AT 7" C/C
CS5	8"	TWO WAY	T10 AT 4" C/C	T10 AT 4" C/C	T8 AT 7" C/C

N. KARIKALAN, M.E.,(Struc.Engg.), MIE
CMDA Reg. No : SE/GR-I/19/03/012
Chartered Engineer (M-1644542/19)
No.15, Flat-B, Sri Ayyan Illam, 1st Floor,
1st Street, Narasimman Nagar,
Ramapuram, Chennai - 600 089
Mobile : 98942 45633
Email : nkarikalan1985@gmail.com



TYPICAL DETAIL OF ONE WAY SLAB REINFORCEMENT



TYPICAL DETAIL OF TWO WAY SLAB REINFORCEMENT

REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
0	ISSUED FOR CONSTRUCTION	RKS 10.05.2023	RKS 10.05.2023	NKK 10.05.2023	NKK 10.05.2023

SIVASANKARI STRUCTURAL CONSULTANT
MOBILE NO: 9894245633,
E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILT TECH ASSOCIATES

STRUCTURAL CONSULTANT : **SIVASANKARI STRUCTURAL CONSULTANT**

PROJECT : PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD ,CHENNAI.

CONCEPT ARCHITECT : SNS ASSOCIATES

SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	RKS		10.05.2023
DRWN	RKS		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE: LAYOUT & NUM.RC DET. OF SLAB

SECTION / ELEVATION MARKING
DRAWING NUMBER
SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NR- 0015

PROJECTION | SIZE A4 | REV 0

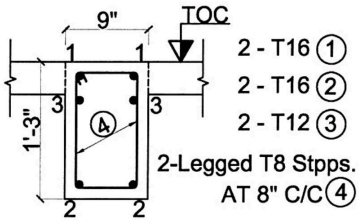
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SIVASANKARI Structural Consultant

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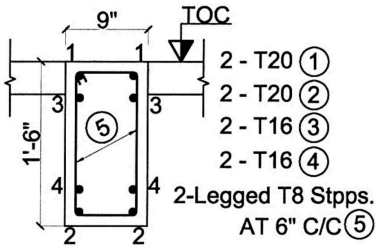
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STILT BEAM



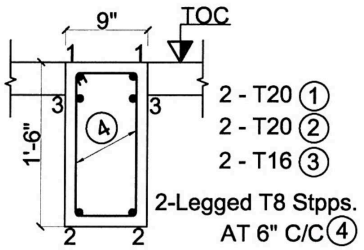
CS OF FLOOR BEAM - (9"x1'3")

FB28



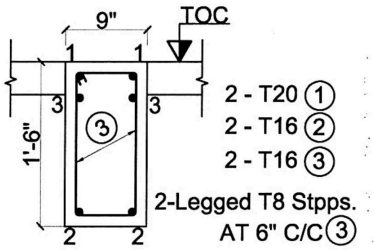
CS OF FLOOR BEAM - (9"x1'6")

FB02,FB27,FB31,FB59



CS OF FLOOR BEAM - (9"x1'6")

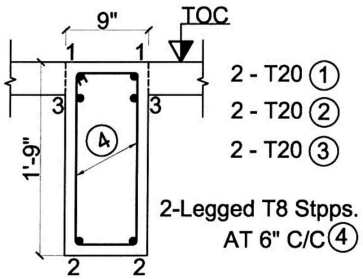
FB33,FB34,FB57,FB62



CS OF FLOOR BEAM - (9"x1'6")

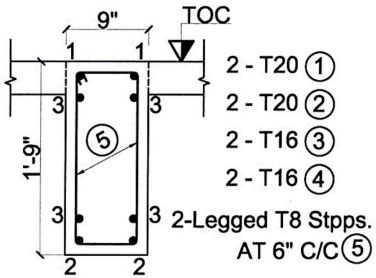
FB10,FB17,FB25,FB44,FB58

N. KARIKALAN, M.E.,(Struc.Engg.), MIE
CMDA Reg. No : SE/GR-I/19/03/012
Chartered Engineer (M-1644542/19)
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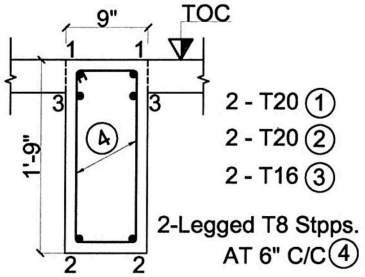
CS OF FLOOR BEAM - (9"x1'9")

FB04,FB06,FB09,FB18,FB20
FB30,FB38,FB45,FB53



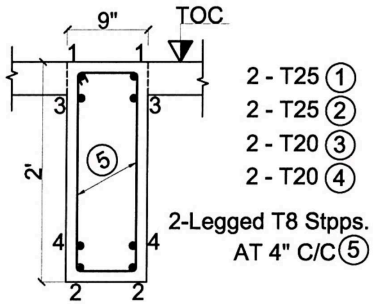
CS OF FLOOR BEAM - (9"x1'9")

FB08,FB11,FB19,FB50,FB55,FB60,FB61



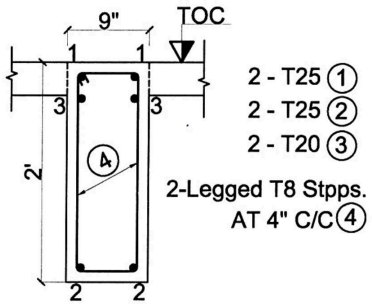
CS OF FLOOR BEAM - (9"x1'9")

FB07,FB12,FB14,FB15,FB16
FB21,FB40



CS OF FLOOR BEAM - (9"x2'0")

FB03,FB05,FB23,FB35,FB36,FB37,
FB39,FB46,FB47,FB51,FB62



CS OF FLOOR BEAM - (9"x2'0")

FB01,FB13,FB22,FB24,FB26,FB29,FB32,FB39
FB,41,FB42,FB43,FB48,FB49,FB52,FB54
FB56,FB63

NOTES:-

1. ALL DIMENSIONS ARE IN FEET AND INCHES & LEVELS ARE IN METRES.
2. "T" DENOTES HYSD BARS (Fe 500 / Fe 500 D) CONFORMING TO IS :- 1786: 2008.
3. UOS MINIMUM CLEAR COVER TO ANY REINFT. SHALL BE AS FOLLOWS:

MEMBER MKD.	CLEAR COVER
PILE, PILE CAP	75 mm
COLUMN	40 mm
BEAMS	30 mm OR BAR DIA WHICHEVER IS GREATER
SLAB	20 mm OR BAR DIA WHICHEVER IS GREATER

4. MIN. GRADE OF CONCRETE FOR PILE & PILE CAP SHALL BE M30 (MIN).
   MIN.GRADE OF CONCRETE FOR COLUMN,BEAM,SLAB SHALL BE M25 (MIN.).
   MIN. GRADE OF CONCRETE FOR LINTEL & SUNSHADE SHALL BE M20 (MIN.)
5. LAPS SHALL BE STAGGERED SUCH THAT NOT MORE THEN 50% OF REINFORCEMENT IS LAPPED AT ANY LOCATION.
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8. COL. REINFT. LAPS SHALL BE STAGGERED & DONE JUST ABOVE BEAM COL. INTERSECTIONS UOS.
9. ALL HOOKS, BENDS AND LAPS SHALL BE AS PER IS :- 2502:1963 & IS13920-1993 UNLESS OTHERWISE INDICATED.

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SIVASANKARI
STRUCTURAL CONSULTANT
MOBILE NO: 9894245633,
E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILT TECH ASSOCIATES

STRUCTURAL CONSULTANT : **SIVASANKARI STRUCTURAL CONSULTANT**

PROJECT : PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD ,CHENNAI.

CONCEPT ARCHITECT : SNS ASSOCIATES

SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	RKS		10.05.2023
DRWN	RKS		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE: RESIDENTIAL BUILDING

CS RC. DET. OF STILT BEAM

SECTION / ELEVATION MARKING

DRAWING NUMBER

SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - RC - 0013

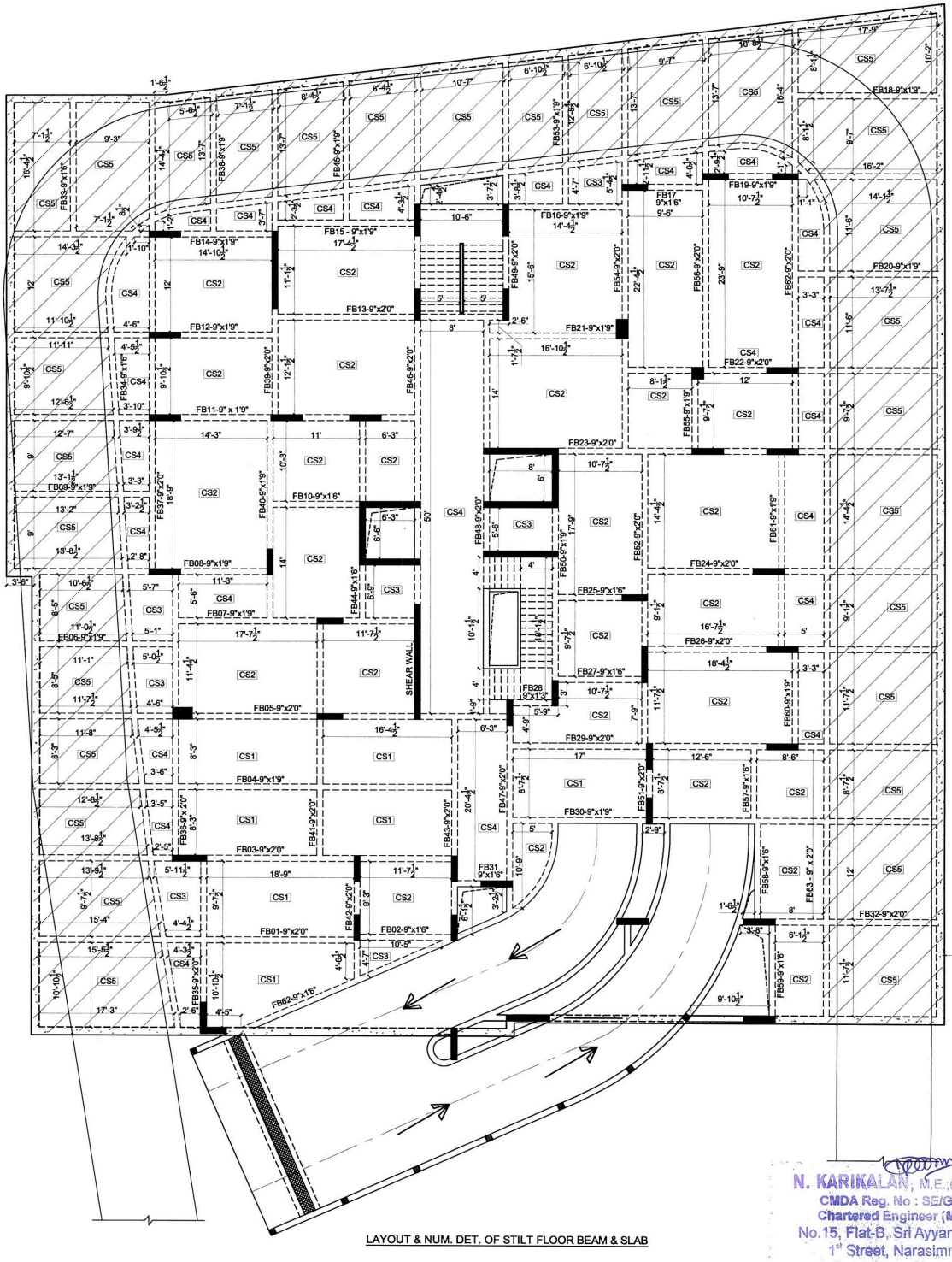
PROJECTION

SIZE A4

REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

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LAYOUT & NUM. DET. OF STILT FLOOR BEAM & SLAB

N. KARIKALAN, M.E.,(Struc.Engg.), MIE
CMDA Reg. No : SE/GR-I/19/03/012
Chartered Engineer (M-1644542/19)
No.15, Flat-B, Sri Ayyan Illam, 1st Floor,
1st Street, Narasimman Nagar,
Ramapuram, Chennai - 600 089
Mobile : 98942 45633
Email : nkarikalan1985@gmail.com

NOTES:-
1. ALL DIMENSIONS ARE IN FEET AND INCHES & LEVELS ARE IN METRES.

DE-SHUTTERING PERIOD:-

MEMBER MKD.	MINIMUM DE-SHUTTERING PERIOD
ROOF SLAB	14 DAYS
LINTEL&SUNSHADE	7 DAYS
COLUMN	24 HOURS

PLAIN CEMENT CONCRETE(PCC):-

	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
PCC	240	0.60

GRADE \ Ø(mm)	Ld - DEVELOPMENT LENGTH					
	8	10	12	16	20	25
M20	1'4.5"	1'9"	2'0"	2'7.5"	3'4.5"	3'10.5"
M25	1'3"	1'6"	1'9"	2'4.5"	2'10.5"	3'7.5"
M30	1'1.5"	1'4.5"	1'7.5"	2'3"	2'7.5"	3'4.5"

REINFORCED CEMENT CONCRETE(RCC):-

GRADE OF CONCRETE	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
M20	300	0.55
M25	300	0.50
M30	320	0.45

NOTES:-
1. ALL DIMENSIONS ARE IN FEET AND INCHES & LEVELS ARE IN METRES.
2. "T" DENOTES HYSD BARS (Fe 500 / Fe 500 D) CONFORMING TO IS :- 1786: 2008.
3. UOS MINIMUM CLEAR COVER TO ANY REINFT. SHALL BE AS FOLLOWS:

MEMBER MKD.	CLEAR COVER
PILE, PILE CAP	75 mm
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BEAMS	30 mm OR BAR DIA WHICHEVER IS GREATER
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4. MIN. GRADE OF CONCRETE FOR PILE & PILE CAP SHALL BE M30 (MIN). MIN.GRADE OF CONCRETE FOR COLUMN,BEAM,SLAB SHALL BE M25 (MIN.). MIN. GRADE OF CONCRETE FOR LINTEL & SUNSHADE SHALL BE M20 (MIN.)
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BUILDING CO-ORDINATES TO BE DECIDED BY ARCHITECT / CLIENT

IN CASE OF ANY OTHER SERVICE LINE FOULING WITH FOUNDATION, THEN SAME TO BE REPORTED TO STRUCTURAL DESIGNER IMMEDIATELY.

THE STRUCTURE IS DESIGNED FOR BASEMENT + STILT + 11 FLOORS ONLY

REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
0	ISSUED FOR CONSTRUCTION	CPA 10.05.2023	CPA 10.05.2023	NKK 10.05.2023	NKK 10.05.2023

SIVASANKARI MOBILE NO: 9894245633,
STRUCTURAL CONSULTANT E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILT TECH ASSOCIATES

CONSULTANT : **SIVASANKARI STRUCTURAL CONSULTANT**

PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD ,CHENNAI.

CONCEPT ARCHITECT : SNS ASSOCIATES

SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	CPA		10.05.2023
DRWN	CPA		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE:
RESIDENTIAL BUILDING
LAYOUT & NUM. DET. OF STILT FLOOR BEAM & SLAB

SECTION / ELEVATION MARKING
DRAWING NUMBER
SCALE 1:100

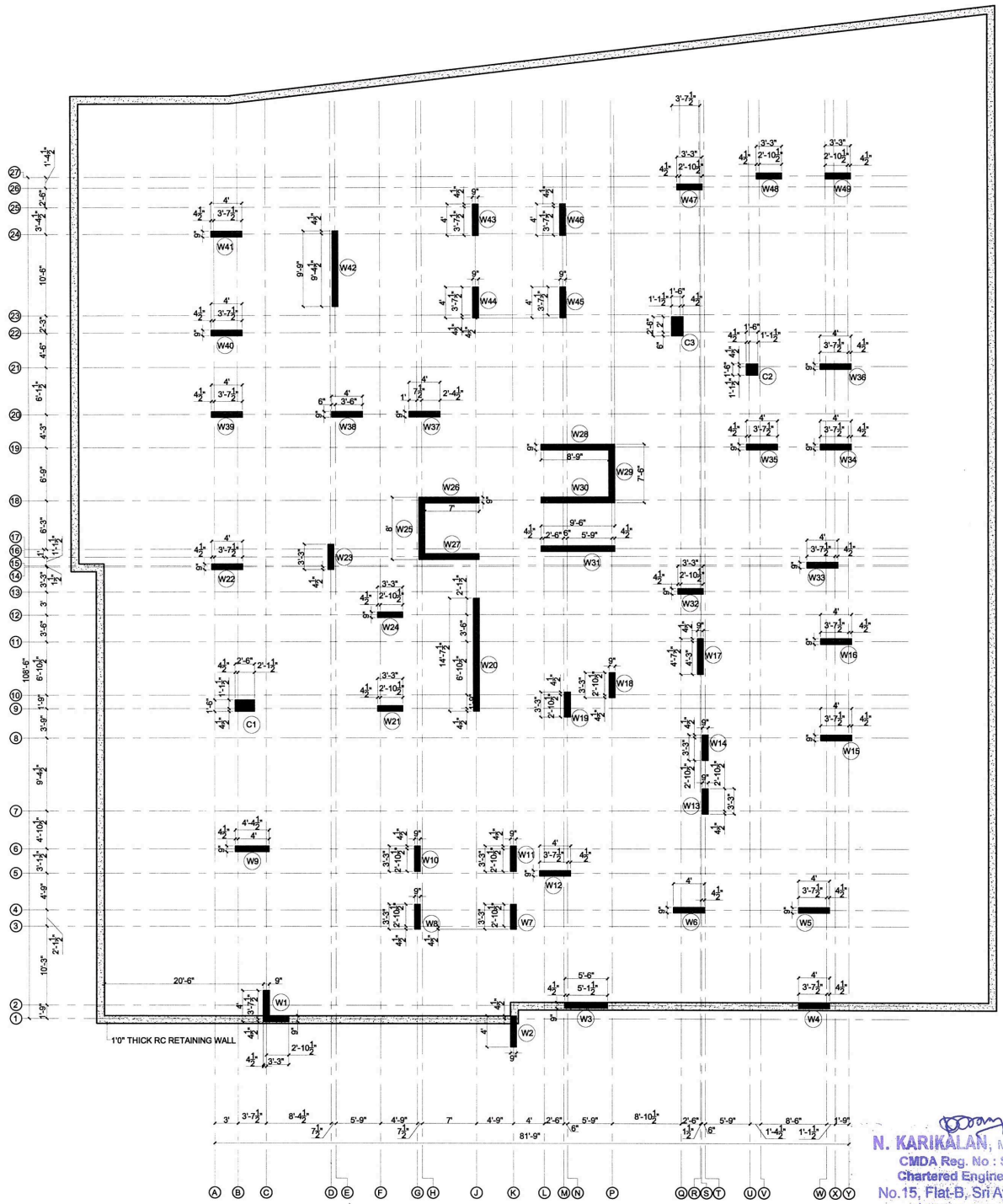
DRAWING No. O21051 - C - RB - 01 - NU- 0005

PROJECTION

SIZE	REV
A2	0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

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LAYOUT,NUM.DET. OF RETAINING WALL, SHEAR WALL & COLUMN

N. KARIKALAN, M.E.,(Struc.Engg.), MIE
CMDA Reg. No : SE/GR-I/19/03/012
Chartered Engineer (M-1644542/19)
No.15, Flat-B, Sri Ayyan Illam, 1st Floor,
1st Street, Narasimman Nagar,
Ramapuram, Chennai - 600 089
Mobile : 98942 45633
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MEMBER MKD.	MINIMUM DE-SHUTTERING PERIOD
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LINTEL&SUNSHADE	7 DAYS
COLUMN	24 HOURS

PLAIN CEMENT CONCRETE(PCC):-

	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
PCC	240	0.60

Ld - DEVELOPMENT LENGTH

GRADE \ Ø(mm)	8	10	12	16	20	25
M20	1'4.5"	1'9"	2'0"	2'7.5"	3'4.5"	3'10.5"
M25	1'3"	1'6"	1'9"	2'4.5"	2'10.5"	3'7.5"
M30	1'1.5"	1'4.5"	1'7.5"	2'3"	2'7.5"	3'4.5"

REINFORCED CEMENT CONCRETE(RCC):-

GRADE OF CONCRETE	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
M20	300	0.55
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NOTES:-
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APPD	NKK		10.05.2023

TITLE:
RESIDENTIAL BUILDING
LAYOUT & NUM. DET. OF RETAINING WALL SHEAR WALL & COLUMN

SECTION / ELEVATION MARKING
DRAWING NUMBER
SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NU- 0006

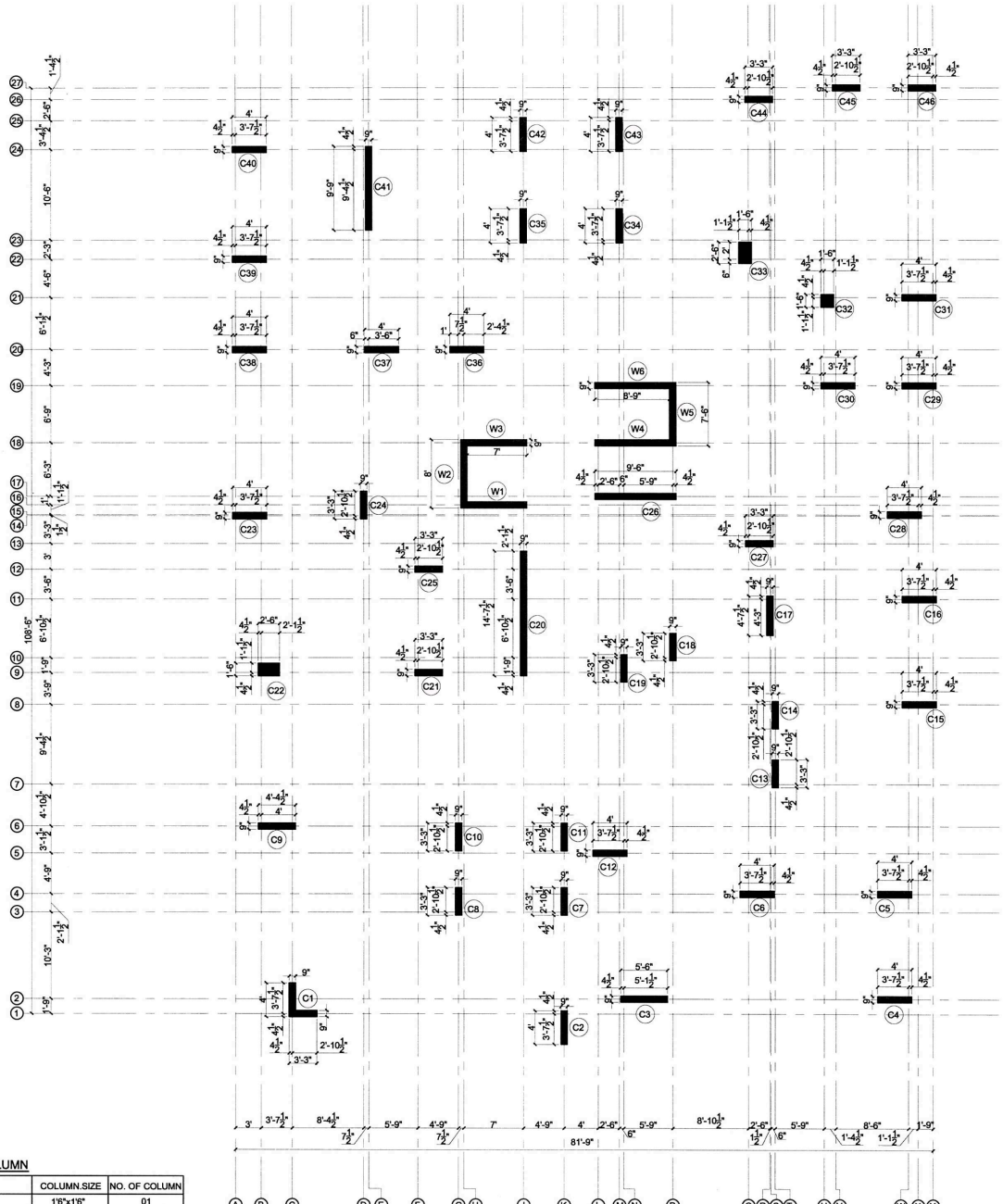
PROJECTION

SIZE A2

REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

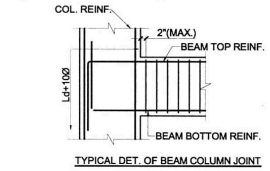
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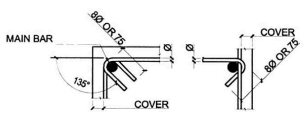
LAYOUT & NUM. DET. OF COLUMN FROM STILT FLOOR TO TERRACE

SCHEDULE OF COLUMN

COLUMN ID	COLUMN.SIZE	NO. OF COLUMN
C32	1'6"x1'6"	01
C22,C33	2'6"x1'6"	02
C7,C8,C10,C11,C13,C14,C18 C19,C21,C24,C25,C27,C44 C45,C46	3'3"x 9"	15
C2,C4,C5,C6,C12,C15,C16,C23 C28,C29,C30,C31,C32,C34,C35 C36,C37,C38,C39,C40,C42,C43	4'0"x9"	22
C1	4'0"x 3'3"x9"	01
C9	4'4.5"x9"	01
C17	4'7.5"x9"	01
C3	5'6"x9"	01
C26	9'6"x9"	01
C41	9'9"x9"	01
C20	14'7.5"x9"	01



TYPICAL DET. OF BEAM COLUMN JOINT



DET. OF HOOK FOR TIES IN COLUMN & STIRRUPS IN BEAMS
(Ø- INDICATES DIA OF THE BAR)

PLAIN CEMENT CONCRETE(PCC):-

	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
PCC	240	0.60

Ld - DEVELOPMENT LENGTH

GRADE Ø(mm)	8	10	12	16	20	25
M20	1'4.5"	1'9"	2'0"	2'7.5"	3'4.5"	3'10.5"
M25	1'3"	1'6"	1'9"	2'4.5"	2'10.5"	3'7.5"
M30	1'1.5"	1'4.5"	1'7.5"	2'3"	2'7.5"	3'4.5"

REINFORCED CEMENT CONCRETE(RCC):-

GRADE OF CONCRETE	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
M20	300	0.55
M25	300	0.50
M30	320	0.45

DE-SHUTTERING PERIOD:-

MEMBER MKD.	MINIMUM DE-SHUTTERING PERIOD
ROOF SLAB	14 DAYS
LINTEL&SUNSHADE	7 DAYS
COLUMN	24 HOURS

NOTES:-
1. ALL DIMENSIONS ARE IN FEET AND INCHES & LEVELS ARE IN METRES.
2. "T" DENOTES HYSD BARS (Fe 500 / Fe 500 D) CONFORMING TO IS :- 1786: 2008.
3.UOS MINIMUM CLEAR COVER TO ANY REINFT. SHALL BE AS FOLLOWS:

MEMBER MKD.	CLEAR COVER
PILE, PILE CAP	75 mm
COLUMN	40 mm
BEAMS	30 mm OR BAR DIA WHICHEVER IS GREATER
SLAB	20 mm OR BAR DIA WHICHEVER IS GREATER

4.MIN. GRADE OF CONCRETE FOR PILE & PILE CAP SHALL BE M30 (MIN). MIN.GRADE OF CONCRETE FOR COLUMN,BEAM,SLAB SHALL BE M25 (MIN.). MIN. GRADE OF CONCRETE FOR LINTEL & SUNSHADE SHALL BE M20 (MIN.)
5. LAPS SHALL BE STAGGERED SUCH THAT NOT MORE THEN 50% OF REINFORCEMENT IS LAPPED AT ANY LOCATION.
6. TOP BARS IN BEAMS & SLABS SHALL BE LAPPED AT MID SPAN AND NOT AT SUPPORT ZONE.
7. BOTTOM BARS IN BEAMS & SLABS SHALL BE LAPPED AT END ONE THIRD SPAN.
8. COL. REINFT. LAPS SHALL BE STAGGERED & DONE JUST ABOVE BEAM COL. INTERSECTIONS UOS.
9. ALL HOOKS, BENDS AND LAPS SHALL BE AS PER IS :- 2502:1963 & IS13920-1993 UNLESS OTHERWISE INDICATED.

BUILDING CO-ORDINATES TO BE DECIDED BY ARCHITECT / CLIENT

IN CASE OF ANY OTHER SERVICE LINE FOULING WITH FOUNDATION, THEN SAME TO BE REPORTED TO STRUCTURAL DESIGNER IMMEDIATELY.

THE STRUCTURE IS DESIGNED FOR BASEMENT + STILT + 11 FLOORS ONLY

N. KARIKALAN, M.E.,(Struc.Engg.), MIE
CMDA Reg. No : SE/GR-I/19/03/012
Chartered Engineer (M-1644542/19)
No.15, Flat-B, Sri Ayyan Illam, 1st Floor,
1st Street, Narasimman Nagar,
Ramapuram, Chennai - 600 089
Mobile : 98942 45633
Email : nkarikalan1985@gmail.com

NOTES:-
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REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
0	ISSUED FOR CONSTRUCTION	CPA 10.05.2023	CPA 10.05.2023	NKK 10.05.2023	NKK 10.05.2023

SIVASANKARI STRUCTURAL CONSULTANT MOBILE NO: 9894245633, E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILT TECH ASSOCIATES

CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT

PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD ,CHENNAI.

CONCEPT ARCHITECT : SNS ASSOCIATES

SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	CPA		10.05.2023
DRWN	CPA		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE:

RESIDENTIAL BUILDING

LAYOUT & NUM. DET. OF COLUMN FROM STILT FLOOR TO TERRACE FLOOR

SECTION / ELEVATION MARKING

DRAWING NUMBER

SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NU- 0007

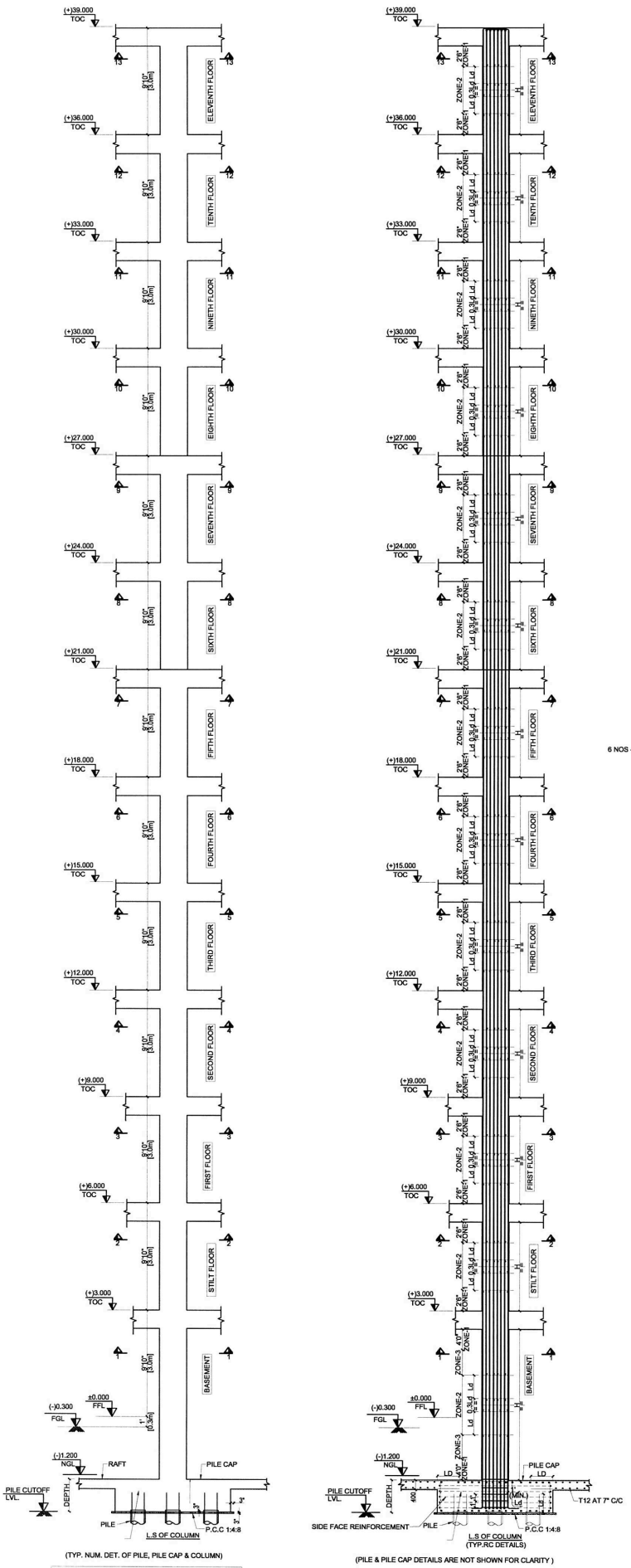
PROJECTION

SIZE A2

REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

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(TYP. NUM. DET. OF PILE, PILE CAP & COLUMN)

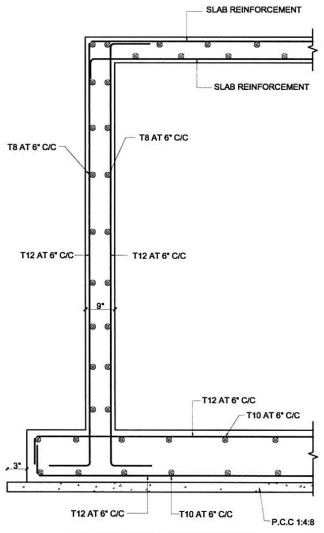
ZONE-1, TIES SPACING IS CONSIDERED AS 100MM C/C

ZONE-2, TIES SPACING IS CONSIDERED AS 150MM C/C

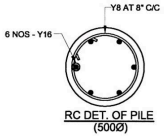
ZONE-3, TIES SPACING IS CONSIDERED AS 200MM C/C

(PILE & PILE CAP DETAILS ARE NOT SHOWN FOR CLARITY)

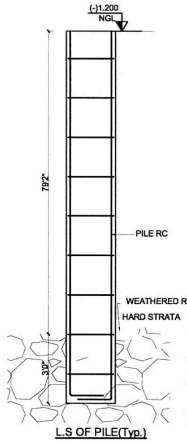
COLUMN LONGITUDINAL SECTION



LS OF RETAINING WALL



RC DET. OF PILE (500Ø)



L.S OF PILE(Typ.)

SCHEDULE OF PILE LOADING:-

PILE DIAMETER	500 Ø
VERTICAL CAPACITY	821 kN
HORIZONTAL CAPACITY	72.0 kN
UPLIFT CAPACITY	204 kN

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Email : nkarikalan1985@gmail.com

Ld - DEVELOPMENT LENGTH

GRADE \ Ø(mm)	8	10	12	16	20	25
M20	1'4.5"	1'9"	2'0"	2'7.5"	3'4.5"	3'10.5"
M25	1'3"	1'6"	1'9"	2'4.5"	2'10.5"	3'7.5"
M30	1'1.5"	1'4.5"	1'7.5"	2'3"	2'7.5"	3'4.5"

PLAIN CEMENT CONCRETE(PCC):-

	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
PCC	240	0.60

DE-SHUTTERING PERIOD:-

MEMBER MKD.	MINIMUM DE-SHUTTERING PERIOD
ROOF SLAB	14 DAYS
LINTEL&SUNSHADE	7 DAYS
COLUMN	24 HOURS

REINFORCED CEMENT CONCRETE(RCC):-

GRADE OF CONCRETE	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
M20	300	0.55
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M30	320	0.45

NOTES:-

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0	ISSUED FOR CONSTRUCTION	RKS 10.05.2023	RKS 10.05.2023	NKK 10.05.2023	NKK 10.05.2023

SIVASANKARI STRUCTURAL CONSULTANT
MOBILE NO: 9894245633,
E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILT TECH ASSOCIATES

PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD ,CHENNAI.

STRUCTURAL CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT

CONCEPT ARCHITECT : SNS ASSOCIATES

SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	RKS		10.05.2023
DRWN	RKS		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE: RESIDENTIAL BUILDING

COLUMN LONGITUDINAL SECTION

SECTION / ELEVATION MARKING

DRAWING NUMBER

SCALE 1:100

DRAWING No. O21051 - C - RB - 04 - NU- 0008

PROJECTION

SIZE A1

REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

SIVASANKARI Structural Consultant

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LAYOUT & NUM. DET. OF PILE CAP

SCHEDULE OF PILECAP

SL NO	PILE CAP ID	A	B	D	S1&S2	S3&S4	SIDE FACE REINFORCEMENT
1	PC1	7'8"	7'8"	3'0"	T16 AT 4" C/C	T16 AT 4" C/C	T10 AT 8" C/C
2	PC2	12'8"	7'8"	3'0"	T16 AT 4" C/C	T16 AT 4" C/C	
3	PC3	17'8"	7'8"	3'0"	T16 AT 4" C/C	T16 AT 4" C/C	
4	PC4	18'0"	7'8"	3'0"	T16 AT 4" C/C	T16 AT 4" C/C	
5	PC5	12'8"	12'8"	3'0"	T16 AT 4" C/C	T16 AT 4" C/C	
6	PC6	17'8"	13'8"	3'0"	T16 AT 4" C/C	T16 AT 4" C/C	
7	PC7	19'8"	12'8"	3'0"	T16 AT 4" C/C	T16 AT 4" C/C	
8	PC8	22'8"	7'8"	3'0"	T16 AT 4" C/C	T16 AT 4" C/C	

REINFORCED CEMENT CONCRETE(RCC):-

GRADE OF CONCRETE	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
M20	300	0.55
M25	300	0.50
M30	320	0.45

DE-SHUTTERING PERIOD:-

MEMBER MKD.	MINIMUM DE-SHUTTERING PERIOD
ROOF SLAB	14 DAYS
LINTEL&SUNSHADE	7 DAYS
COLUMN	24 HOURS

PLAIN CEMENT CONCRETE(PCC):-

	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
PCC	240	0.60

Ld - DEVELOPMENT LENGTH

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Mobile : 98942 45633
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REV.NO.	DESCRIPTION	DESIGNED		DRAWN		CHECKED		APPROVED	
0	ISSUED FOR CONSTRUCTION	RKS	10.05.2023	RKS	10.05.2023	NKK	10.05.2023	NKK	10.05.2023

SIVASANKARI STRUCTURAL CONSULTANT MOBILE NO: 9894245633,
E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILT TECH ASSOCIATES

CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT

PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD ,CHENNAI.

CONCEPT ARCHITECT : SNS ASSOCIATES

SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	RKS		10.05.2023
DRWN	RKS		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE:
RESIDENTIAL BUILDING
LAYOUT & NUM. DET. OF PILE CAP

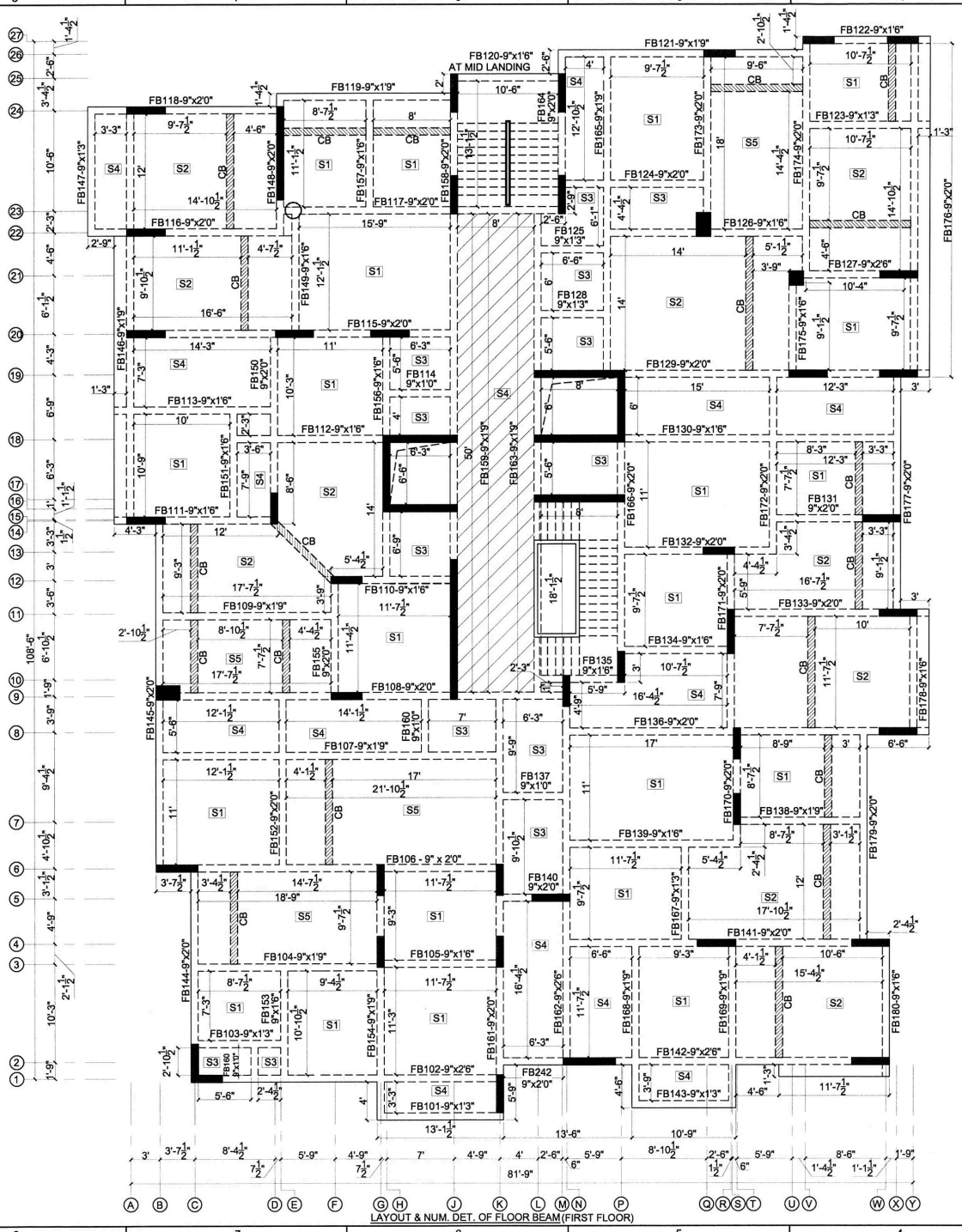
SECTION / ELEVATION MARKING
DRAWING NUMBER
SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NU- 0009

PROJECTION

SIZE	REV
A2	0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION



LAYOUT & NUM. DET. OF FLOOR BEAM(FIRST FLOOR)

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GRADE \ Ø(mm)	8	10	12	16	20	25
M20	1'4.5"	1'9"	2'0"	2'7.5"	3'4.5"	3'10.5"
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M30	1'1.5"	1'4.5"	1'7.5"	2'3"	2'7.5"	3'4.5"

Ld - DEVELOPMENT LENGTH

PLAIN CEMENT CONCRETE(PCC):-

	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
PCC	240	0.60

DE-SHUTTERING PERIOD:-

MEMBER MKD.	MINIMUM DE-SHUTTERING PERIOD
ROOF SLAB	14 DAYS
LINTEL&SUNSHADE	7 DAYS
COLUMN	24 HOURS

REINFORCED CEMENT CONCRETE(RCC):-

GRADE OF CONCRETE	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
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NOTES:-

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MEMBER MKD.	CLEAR COVER
PILE, PILE CAP	75 mm
COLUMN	40 mm
BEAMS	30 mm OR BAR DIA WHICHEVER IS GREATER
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STRUCTURAL CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT

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DSGN	CPA		10.05.2023
DRWN	CPA		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE:

RESIDENTIAL BUILDING

LAYOUT AND DETAIL OF FLOOR BEAM & SLAB (FIRST FLOOR)

SECTION / ELEVATION MARKING

DRAWING NUMBER

SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NU- 0010

PROJECTION

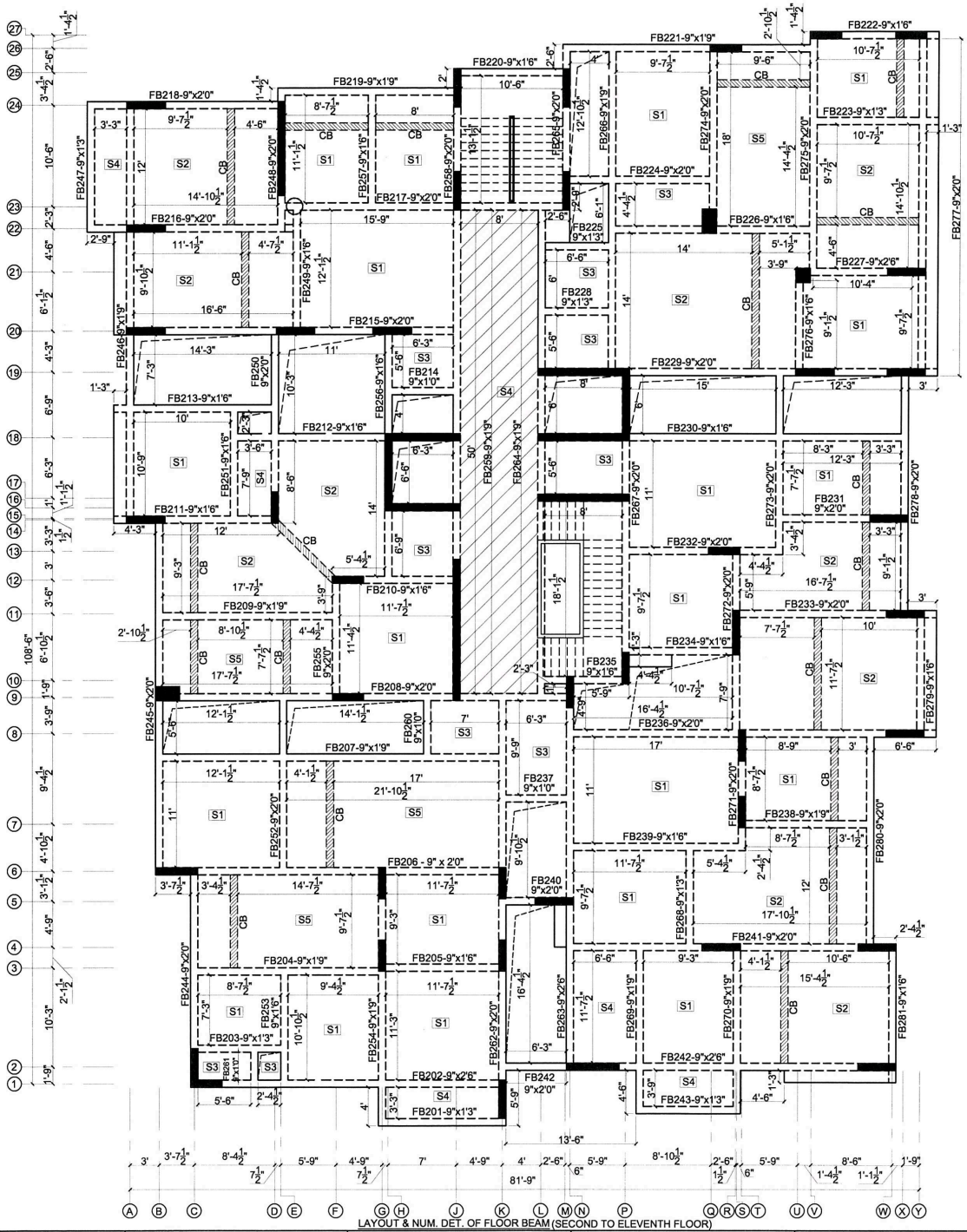
SIZE A2

REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

SIVASANKARI Structural Consultant

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LAYOUT & NUM. DET. OF FLOOR BEAM (SECOND TO ELEVENTH FLOOR)

GRADE \ Ø(mm)	8	10	12	16	20	25
M20	1'4.5"	1'9"	2'0"	2'7.5"	3'4.5"	3'10.5"
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Ld - DEVELOPMENT LENGTH

PLAIN CEMENT CONCRETE(PCC):-

	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
PCC	240	0.60

DE-SHUTTERING PERIOD:-

MEMBER MKD.	MINIMUM DE-SHUTTERING PERIOD
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No.15, Flat-B, Sri Ayyan Illam, 1st Floor,
1st Street, Narasimman Nagar,
Ramapuram, Chennai - 600 089
Mobile : 98942 45633
Email : nkarikalan1985@gmail.com

REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
0	ISSUED FOR CONSTRUCTION	CPA 10.05.2023	CPA 10.05.2023	NKK 10.05.2023	NKK 10.05.2023

SIVASANKARI STRUCTURAL CONSULTANT MOBILE NO: 9894245633,
E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILT TECH ASSOCIATES

STRUCTURAL CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT

PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD ,CHENNAI.

CONCEPT ARCHITECT : SNS ASSOCIATES

SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	CPA		10.05.2023
DRWN	CPA		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE:

RESIDENTIAL BUILDING

LAYOUT AND DETAIL OF FLOOR BEAM & SLAB (SECOND TO ELEVENTH FLOOR)

SECTION / ELEVATION MARKING

DRAWING NUMBER

SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NU- 0011

PROJECTION

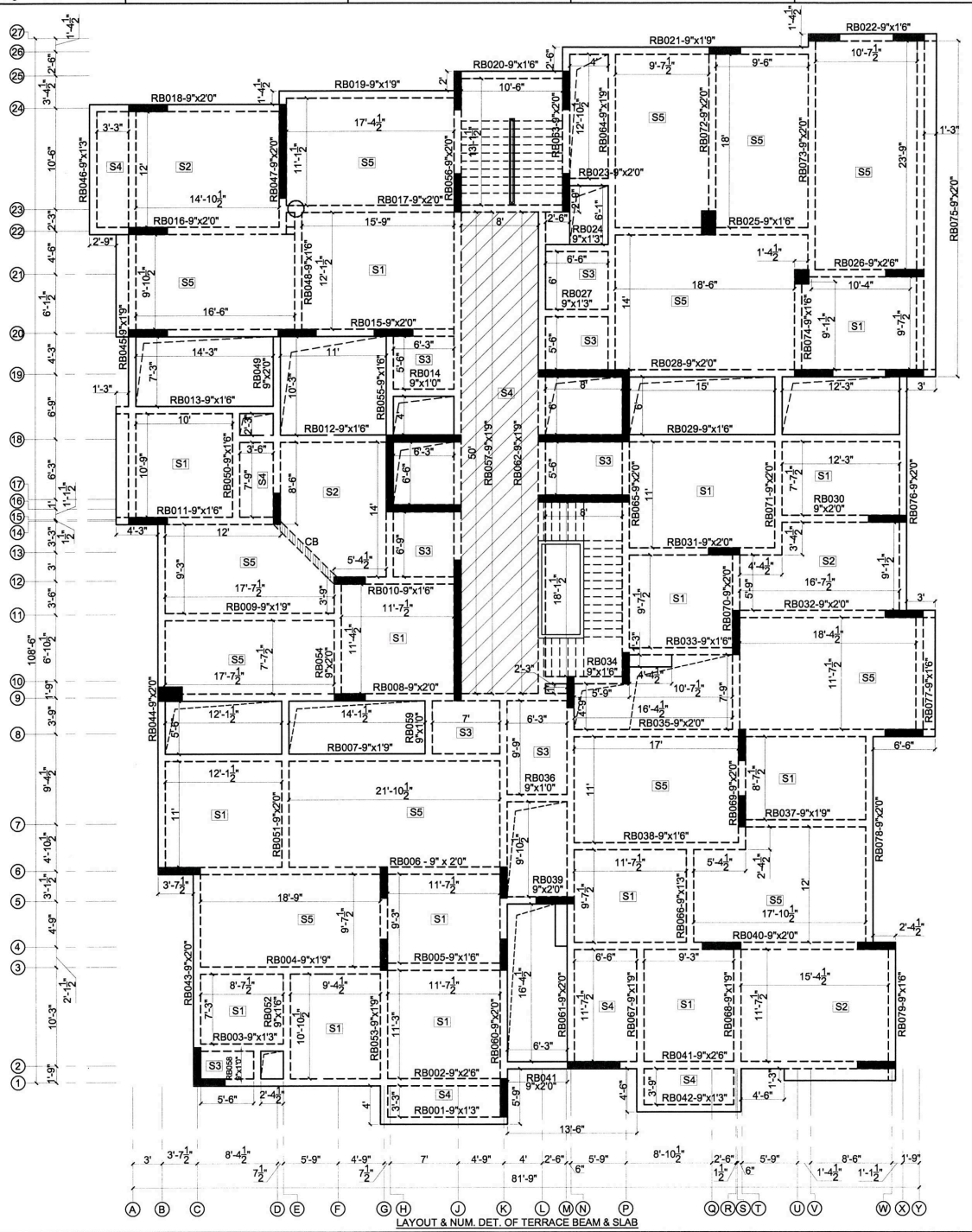
SIZE A2

REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

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LAYOUT & NUM. DET. OF TERRACE BEAM & SLAB

GRADE \ Ø(mm)	8	10	12	16	20	25
M20	1'4.5"	1'9"	2'0"	2'7.5"	3'4.5"	3'10.5"
M25	1'3"	1'6"	1'9"	2'4.5"	2'10.5"	3'7.5"
M30	1'1.5"	1'4.5"	1'7.5"	2'3"	2'7.5"	3'4.5"

Ld - DEVELOPMENT LENGTH

PLAIN CEMENT CONCRETE(PCC):-

	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
PCC	240	0.60

DE-SHUTTERING PERIOD:-

MEMBER MKD.	MINIMUM DE-SHUTTERING PERIOD
ROOF SLAB	14 DAYS
LINTEL&SUNSHADE	7 DAYS
COLUMN	24 HOURS

REINFORCED CEMENT CONCRETE(RCC):-

GRADE OF CONCRETE	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
M20	300	0.55
M25	300	0.50
M30	320	0.45

NOTES:-

1. ALL DIMENSIONS ARE IN FEET AND INCHES & LEVELS ARE IN METRES.
2. "T" DENOTES HYSD BARS (Fe 500 / Fe 500 D) CONFORMING TO IS :- 1786: 2008.
3. UOS MINIMUM CLEAR COVER TO ANY REINFT. SHALL BE AS FOLLOWS:

MEMBER MKD.	CLEAR COVER
PILE, PILE CAP	75 mm
COLUMN	40 mm
BEAMS	30 mm OR BAR DIA WHICHEVER IS GREATER
SLAB	20 mm OR BAR DIA WHICHEVER IS GREATER

4. MIN. GRADE OF CONCRETE FOR PILE & PILE CAP SHALL BE M30 (MIN). MIN.GRADE OF CONCRETE FOR COLUMN,BEAM,SLAB SHALL BE M25 (MIN.). MIN. GRADE OF CONCRETE FOR LINTEL & SUNSHADE SHALL BE M20 (MIN.)
5. LAPS SHALL BE STAGGERED SUCH THAT NOT MORE THEN 50% OF REINFORCEMENT IS LAPPED AT ANY LOCATION.
6. TOP BARS IN BEAMS & SLABS SHALL BE LAPPED AT MID SPAN AND NOT AT SUPPORT ZONE.
7. BOTTOM BARS IN BEAMS & SLABS SHALL BE LAPPED AT END ONE THIRD SPAN.
8. COL. REINFT. LAPS SHALL BE STAGGERED & DONE JUST ABOVE BEAM COL. INTERSECTIONS UOS.
9. ALL HOOKS, BENDS AND LAPS SHALL BE AS PER IS :- 2502:1963 & IS13920-1993 UNLESS OTHERWISE INDICATED.

BUILDING CO-ORDINATES TO BE DECIDED BY ARCHITECT / CLIENT

IN CASE OF ANY OTHER SERVICE LINE FOULING WITH FOUNDATION, THEN SAME TO BE REPORTED TO STRUCTURAL DESIGNER IMMEDIATELY.

THE STRUCTURE IS DESIGNED FOR BASEMENT + STILT + 11 FLOORS ONLY

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MOBILE NO: 9894245633,
E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILT TECH ASSOCIATES

STRUCTURAL CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT

PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD ,CHENNAI.

CONCEPT ARCHITECT : SNS ASSOCIATES

SUPPLIER/ CONTRACTOR :

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DSGN	CPA		10.05.2023
DRWN	CPA		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE:

RESIDENTIAL BUILDING

LAYOUT AND DETAIL OF TERRACE BEAM & SLAB

SECTION / ELEVATION MARKING

DRAWING NUMBER

SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NU- 0012

PROJECTION

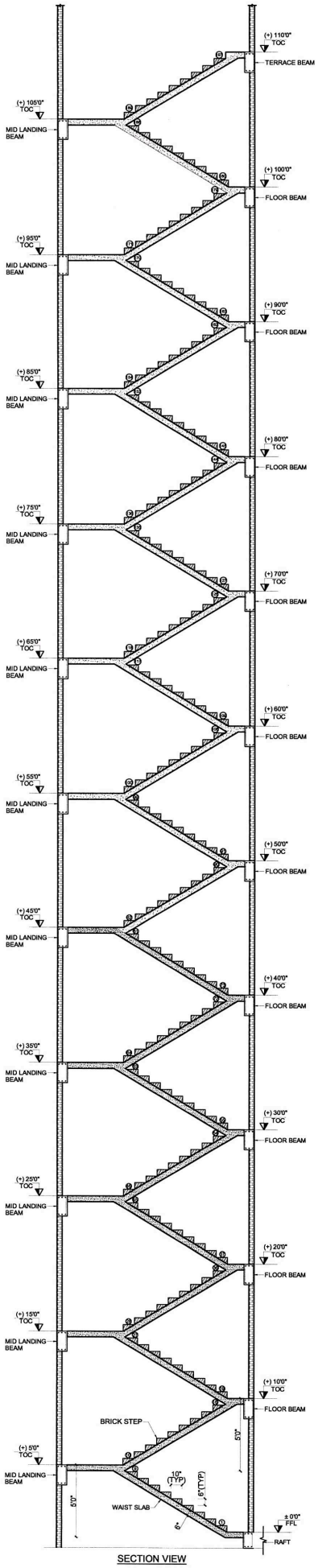
SIZE A2

REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

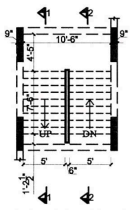
SIVASANKARI Structural Consultant

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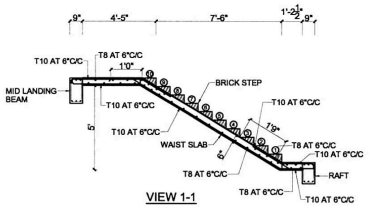


SECTION VIEW

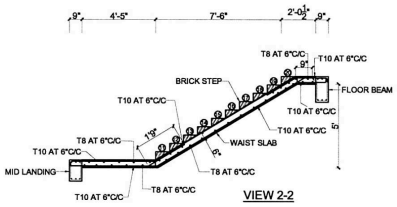
LAYOUT & NUM. RC DET. OF STAIRCASE



PART PLAN OF STAIRCASE



VIEW 1-1



VIEW 2-2

DE-SHUTTERING PERIOD:-

MEMBER MKD.	MINIMUM DE-SHUTTERING PERIOD
ROOF SLAB	14 DAYS
LINTEL&SUNSHADE	7 DAYS
COLUMN	24 HOURS

REINFORCED CEMENT CONCRETE(RCC):-

GRADE OF CONCRETE	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
M20	300	0.55
M25	300	0.50
M30	320	0.45

Ld - DEVELOPMENT LENGTH

GRADE \ Ø(mm)	8	10	12	16	20	25
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M30	1'1.5"	1'4.5"	1'7.5"	2'3"	2'7.5"	3'4.5"

PLAIN CEMENT CONCRETE(PCC):-

	MINIMUM CEMENT CONTENT (kg/m3)	WATER CEMENT RATIO
PCC	240	0.60

NOTES:-
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THE STRUCTURE IS DESIGNED FOR BASEMENT + STILT + 11 FLOORS ONLY

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SIVASANKARI STRUCTURAL CONSULTANT MOBILE NO: 9894245633, E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILT TECH ASSOCIATES

CONSULTANT : **SIVASANKARI STRUCTURAL CONSULTANT**

PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD ,CHENNAI.

CONCEPT ARCHITECT : SNS ASSOCIATES

SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	RKS		10.05.2023
DRWN	RKS		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE:

RESIDENTIAL BUILDING

LAYOUT & NUM. DET. OF STILT FLOOR BEAM & SLAB

SECTION / ELEVATION MARKING

DRAWING NUMBER

SCALE 1:100

DRAWING No. O21051 - C - CB - 01 - NR- 0014

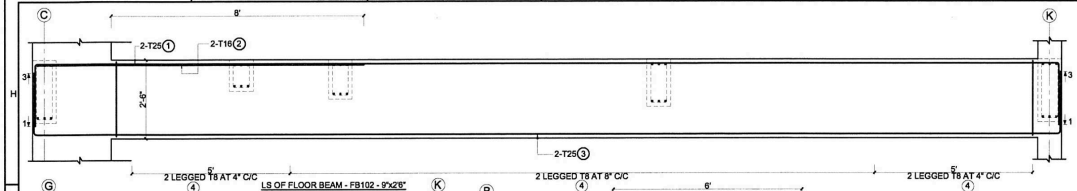
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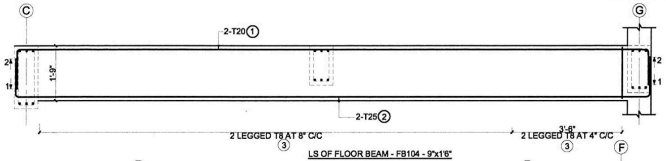
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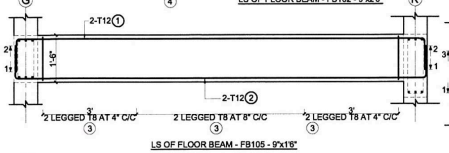
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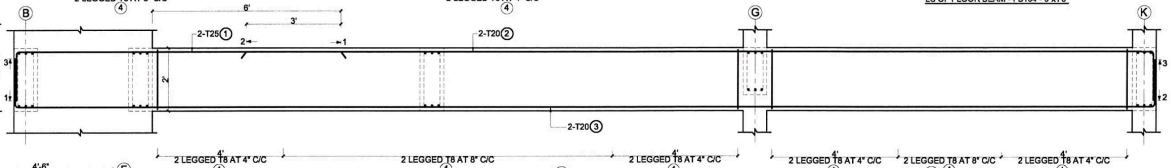
RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

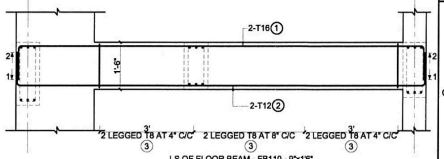
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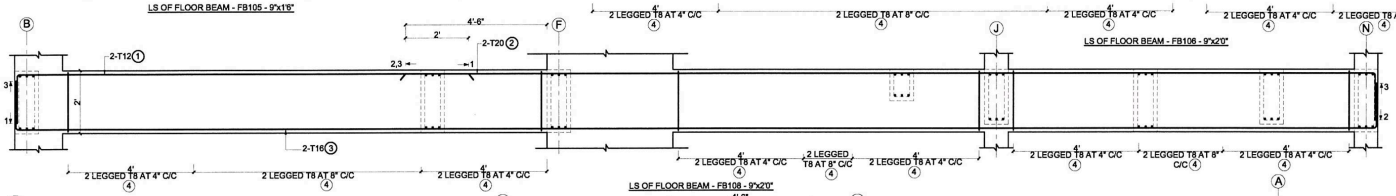


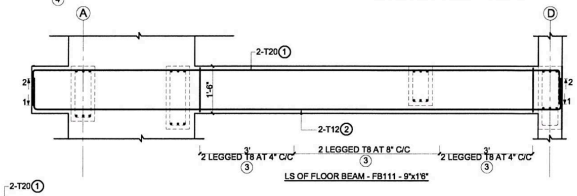


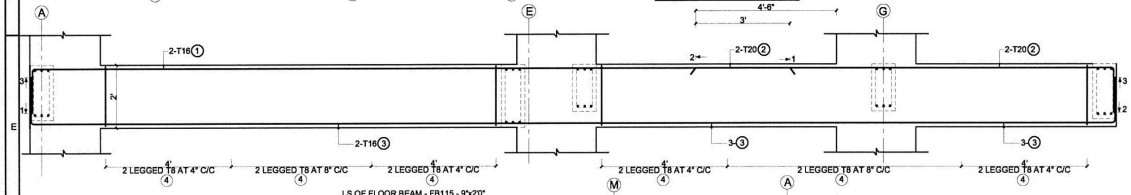


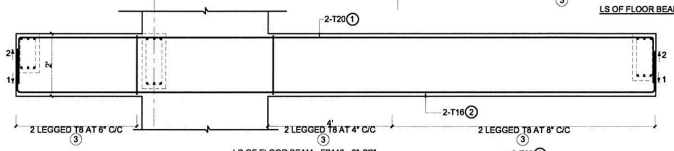


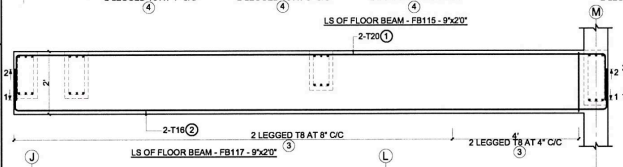


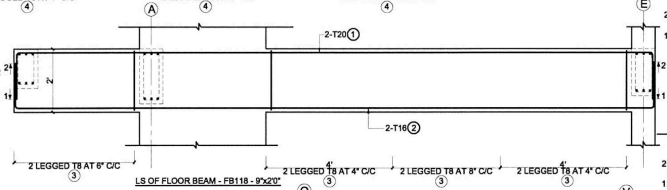


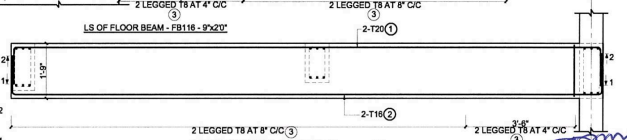


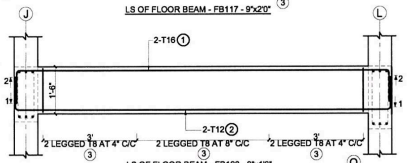


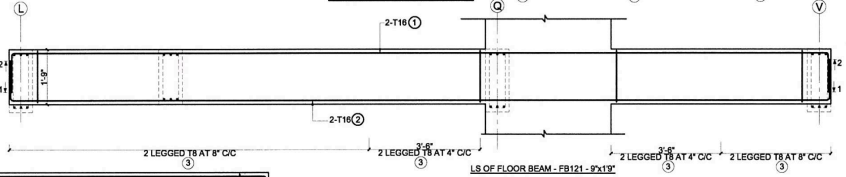


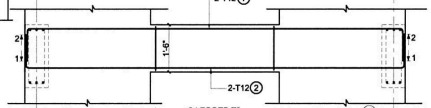


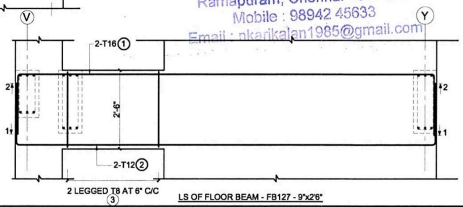


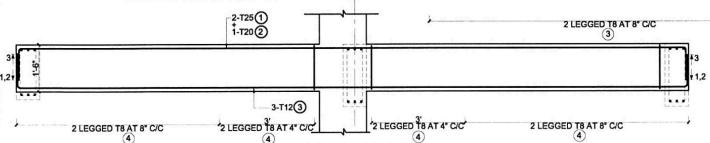


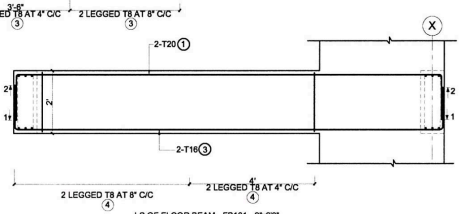


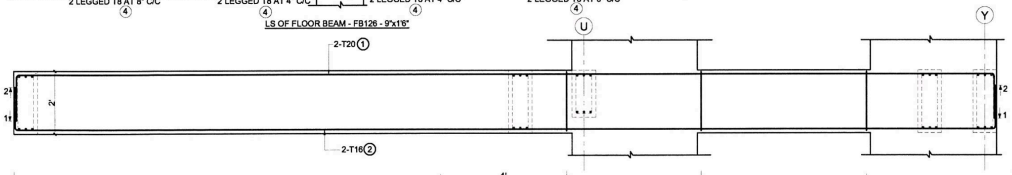


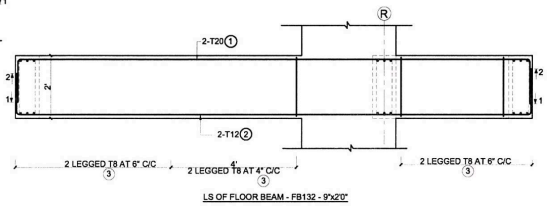












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PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD,CHENNAI.	CONCEPT ARCHITECT : SNS ASSOCIATES
SUPPLIER/ CONTRACTOR :	

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CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE: RESIDENTIAL BUILDING
L/S DET. OF BEAM

SECTION / ELEVATION MARKING
DRAWING NUMBER
SCALE 1:100

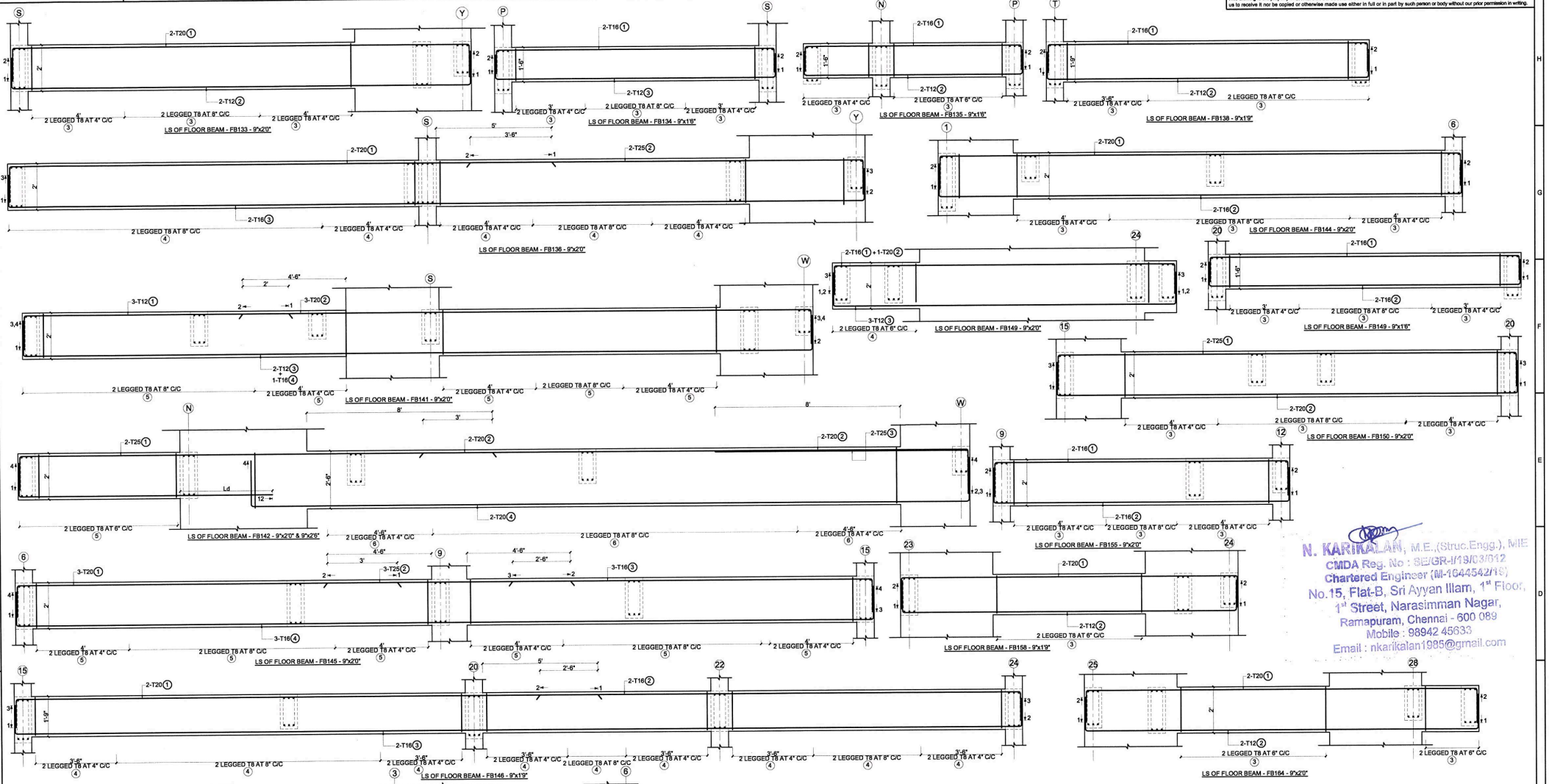
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PROJECTION | SIZE A1 | REV 0

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TITLE: RESIDENTIAL BUILDING
L/S DET. OF BEAM

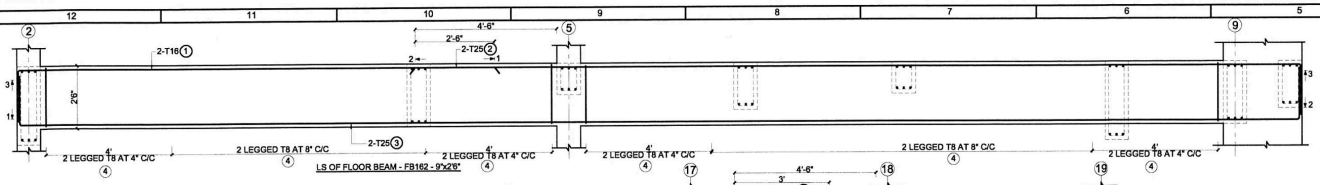
SECTION / ELEVATION MARKING
DRAWING NUMBER
SCALE 1:100

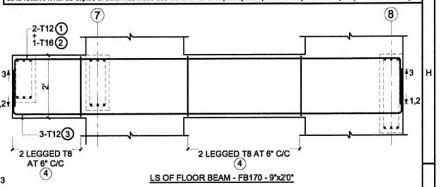
DRAWING No. O21051 - C - RB - 01 - NR- 0017
PROJECTION
SIZE A1
REV 0

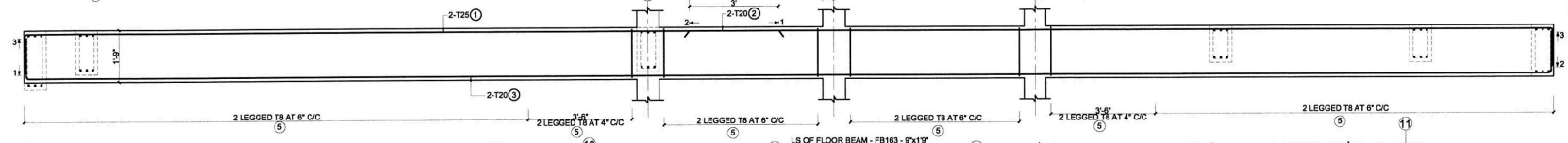
RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

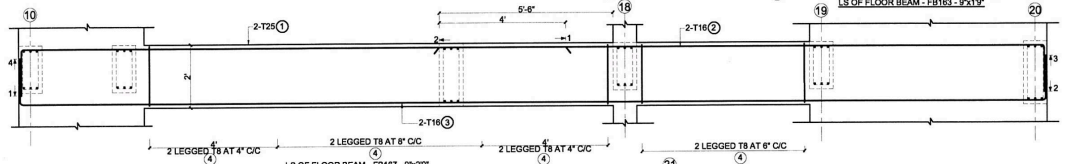
SIVASANKARI Structural Consultant

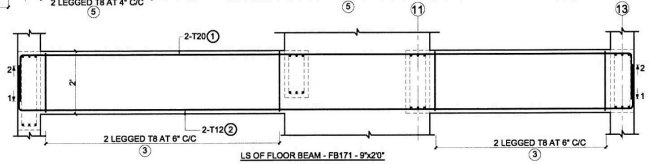
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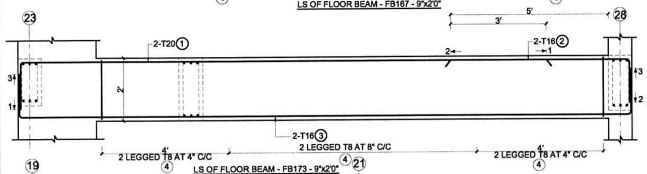


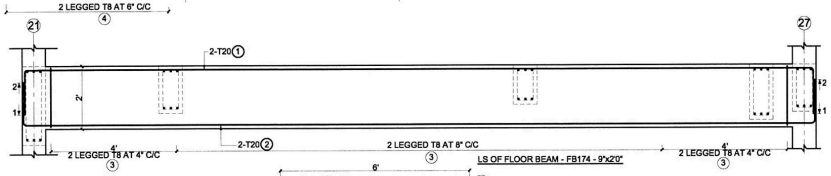


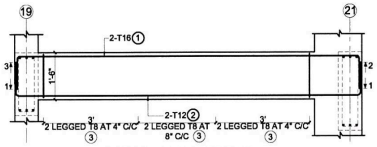


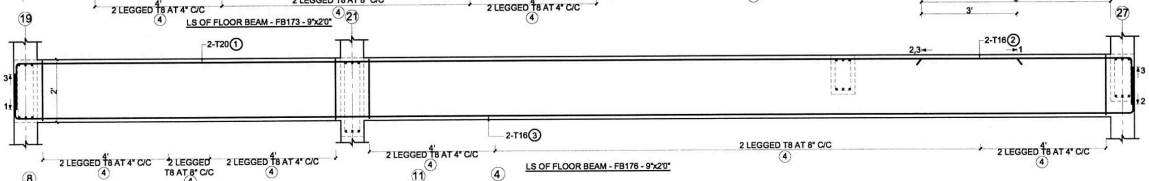


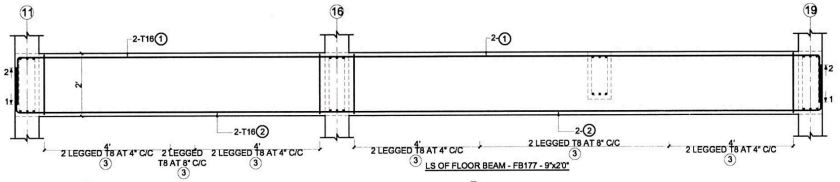


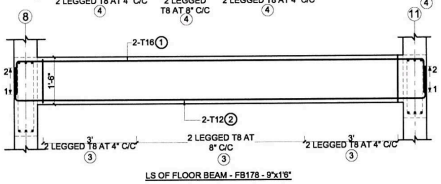


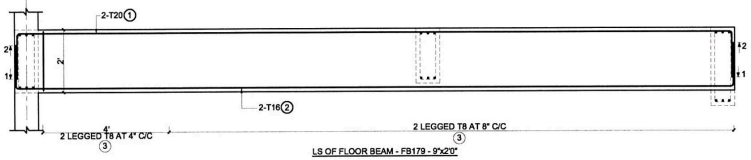


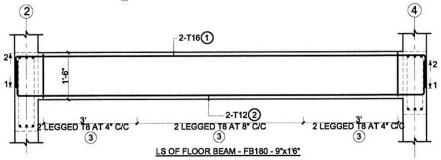












N. KARIKALAN, M.E.,(Struc.Engg.), MIE
CMDA Reg. No : SE/GR-I/19/03/012
Chartered Engineer (M-1644542/19)
No.15, Flat-B, Sri Ayyan Illam, 1st Floor,
1st Street, Narasimman Nagar,
Ramapuram, Chennai - 600 089
Mobile : 98942 45633
Email : nkarikalan1985@gmail.com

REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
0	ISSUED FOR CONSTRUCTION	RKS 10.05.2023	RKS 10.05.2023	NKK 10.05.2023	NKK 10.05.2023

SIVASANKARI STRUCTURAL CONSULTANT
MOBILE NO: 9894245633,
E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILTTECH ASSOCIATES
STRUCTURAL CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT
PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD,CHENNAI.
CONCEPT ARCHITECT : SNS ASSOCIATES
SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	RKS		10.05.2023
DRWN	RKS		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE: RESIDENTIAL BUILDING
L/S DET. OF BEAM

SECTION / ELEVATION MARKING
DRAWING NUMBER
SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NR- 0018

PROJECTION

SIZE	REV
A1	0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

SIVASANKARI Structural Consultant

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SCHEDULE OF COLUMN RC DETAILS:

COLUMN ID	COL.SIZE a	COL.SIZE b	SECTION 1-1 FOOTING - STILT FLOOR	SECTION 2-2 STILT FLOOR - FIRST FLOOR	SECTION 3-3 FIRST FLOOR - SECOND FLOOR	SECTION 4-4 SECOND FLOOR - THIRD FLOOR	SECTION 5-5 THIRD FLOOR - FOURTH FLOOR	SECTION 6-6 FOURTH FLOOR - FIFTH FLOOR	SECTION 7-7 FIFTH FLOOR - SIXTH FLOOR	SECTION 8-8 SIXTH FLOOR - SEVENTH FLOOR	SECTION 9-9 SEVENTH FLOOR - EIGHTH FLOOR	SECTION 10-10 EIGHTH FLOOR - NINETH FLOOR	SECTION 11-11 NINETH FLOOR - TENTH FLOOR	SECTION 12-12 TENTH FLOOR - ELEVENTH FLOOR
			CROSS SECTION DETAILS											
C1	4'0"	9"	3 - T20 ① 3 - T20 ② 3 - T20 ③ 2 - T16 ⑩ 2 - T20 ④ 2 - T16 ⑪ 2 - T16 ⑤ 2 - T16 ⑫ 2 - T16 ⑥ 2 - T16 ⑬ 2 - T16 ⑦ 2 - T16 ⑭ 2 - T16 ⑧ 2 - T16 ⑮ 2 - T20 ⑨ 2 - T20 ⑯ T8 Ties ⓒ&ⓓ	DO	DO	3 - T20 ① 3 - T20 ② 3 - T20 ③ 2 - T16 ⑩ 2 - T16 ④ 2 - T16 ⑪ 2 - T16 ⑤ 2 - T16 ⑫ 2 - T16 ⑥ 2 - T16 ⑬ 2 - T16 ⑦ 2 - T16 ⑭ 2 - T16 ⑧ 2 - T16 ⑮ 2 - T16 ⑨ 2 - T16 ⑯ T8 Ties ⓒ&ⓓ	DO	DO	3 - T16 ① 3 - T16 ② 3 - T16 ③ 2 - T16 ⑩ 2 - T16 ④ 2 - T16 ⑪ 2 - T16 ⑤ 2 - T16 ⑫ 2 - T16 ⑥ 2 - T16 ⑬ 2 - T16 ⑦ 2 - T16 ⑭ 2 - T16 ⑧ 2 - T16 ⑮ 2 - T16 ⑨ 2 - T16 ⑯ T8 Ties ⓒ&ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 3 -T16 ③ 2 -T12 ⑩ 2 -T16 ④ 2 -T12 ⑪ 2 -T12 ⑤ 2 -T12 ⑫ 2 -T12 ⑧ 2 -T12 ⑬ 2 -T12 ⑦ 2 -T12 ⑭ 2 -T12 ⑧ 2 -T12 ⑮ 2 -T16 ⑨ 2 -T16 ⑯ T8 Ties ⓒ&ⓓ	DO	3 -T12 ① 3 -T12 ② 3 -T12 ③ 2 -T12 ⑩ 2 -T12 ④ 2 -T12 ⑪ 2 -T12 ⑤ 2 -T12 ⑫ 2 -T12 ⑥ 2 -T12 ⑬ 2 -T12 ⑦ 2 -T12 ⑭ 2 -T12 ⑧ 2 -T12 ⑮ 2 -T12 ⑨ 2 -T12 ⑯ T8 Ties ⓒ&ⓓ
C2,C8,C12 C16,C30,C37 C38,C39	4'0"	9"	3 - T20 ① 3 - T20 ② 2 - T20 ③ 2 - T16 ④ 2 - T16 ⑤ 2 - T16 ⑥ 2 - T16 ⑦ 2 - T16 ⑧ 2 - T16 ⑨ 2 - T20 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 - T20 ① 3 - T20 ② 2 - T16 ③ 2 - T16 ④ 2 - T16 ⑤ 2 - T16 ⑥ 2 - T12 ⑦ 2 - T16 ⑧ 2 - T16 ⑨ 2 - T16 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 - T16 ① 3 - T16 ② 2 - T16 ③ 2 - T12 ④ 2 - T12 ⑤ 2 - T12 ⑥ 2 - T12 ⑦ 2 - T12 ⑧ 2 - T12 ⑨ 2 - T16 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T12 ⑩ T8 Ties ⓒ&ⓓ	DO	3 -T12 ① 3 -T12 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T12 ⑩ T8 Ties ⓒ&ⓓ
C3	5'6"	9"	3 - T20 ① 3 - T20 ② 2 - T20 ③ 2 - T16 ④ 2 - T16 ⑤ 2 - T16 ⑥ 2 - T16 ⑦ 2 - T16 ⑧ 2 - T16 ⑨ 2 - T16 ⑩ 2 - T16 ⑪ 2 - T16 ⑫ 2 - T16 ⑬ 2 - T20 ⑭ T8 Ties ⓒ&ⓓ	DO	DO	3 - T20 ① 3 - T20 ② 2 - T20 ③ 2 - T16 ④ 2 - T16 ⑤ 2 - T16 ⑥ 2 - T16 ⑦ 2 - T12 ⑧ 2 - T12 ⑨ 2 - T16 ⑩ 2 - T16 ⑪ 2 - T16 ⑫ 2 - T16 ⑬ 2 - T20 ⑭ T8 Ties ⓒ&ⓓ	DO	DO	3 - T16 ① 3 - T16 ② 2 - T16 ③ 2 - T16 ④ 2 - T16 ⑤ 2 - T12 ⑥ 2 - T12 ⑦ 2 - T12 ⑧ 2 - T12 ⑨ 2 - T12 ⑩ 2 - T12 ⑪ 2 - T16 ⑫ 2 - T16 ⑬ 2 - T16 ⑭ T8 Ties ⓒ&ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T16 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T12 ⑩ 2 -T12 ⑪ 2 -T12 ⑫ 2 -T12 ⑬ 2 -T16 ⑭ T8 Ties ⓒ&ⓓ	DO	3 -T12 ① 3 -T12 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T12 ⑩ 2 -T12 ⑪ 2 -T12 ⑫ 2 -T12 ⑬ 2 -T12 ⑭ T8 Ties ⓒ&ⓓ
C4,C5,C15 C23,C28,C31 C40	4'0"	9"	3 - T20 ① 3 - T20 ② 2 - T20 ③ 2 - T16 ④ 2 - T16 ⑤ 2 - T16 ⑥ 2 - T16 ⑦ 2 - T16 ⑧ 2 - T16 ⑨ 2 - T20 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 - T20 ① 3 - T20 ② 2 - T16 ③ 2 - T16 ④ 2 - T16 ⑤ 2 - T16 ⑥ 2 - T16 ⑦ 2 - T16 ⑧ 2 - T16 ⑨ 2 - T16 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 - T16 ① 3 - T16 ② 2 - T16 ③ 2 - T16 ④ 2 - T16 ⑤ 2 - T12 ⑥ 2 - T12 ⑦ 2 - T16 ⑧ 2 - T16 ⑨ 2 - T16 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T16 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T16 ⑩ T8 Ties ⓒ&ⓓ	DO	3 -T12 ① 3 -T12 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T12 ⑩ T8 Ties ⓒ&ⓓ
C29,C34,C35 C36,C42,C43	4'0"	9"	3 - T20 ① 3 - T20 ② 2 - T20 ③ 2 - T16 ④ 2 - T16 ⑤ 2 - T16 ⑥ 2 - T16 ⑦ 2 - T16 ⑧ 2 - T16 ⑨ 2 - T20 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 - T16 ① 3 - T16 ② 2 - T16 ③ 2 - T16 ④ 2 - T16 ⑤ 2 - T16 ⑥ 2 - T16 ⑦ 2 - T16 ⑧ 2 - T16 ⑨ 2 - T16 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 - T16 ① 3 - T16 ② 2 - T16 ③ 2 - T12 ④ 2 - T12 ⑤ 2 - T12 ⑥ 2 - T12 ⑦ 2 - T12 ⑧ 2 - T12 ⑨ 2 - T16 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 -T12 ① 3 -T12 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T12 ⑩ T8 Ties ⓒ&ⓓ	DO	DO

N. KARIKALAN, M.E.,(Struc.Engg.), MIE
CMDA Reg. No : SE/GR-I/19/03/012
Chartered Engineer (M-1644542/19)
No.15, Flat-B, Sri Ayyan Illam, 1st Floor,
1st Street, Narasimman Nagar,
Ramapuram, Chennai - 600 089
Mobile : 98942 45633
Email : nkarikalan1985@gmail.com

REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
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SIVASANKARI STRUCTURAL CONSULTANT MOBILE NO: 9894245633, E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILTTECH ASSOCIATES

STRUCTURAL CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT

PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD,CHENNAI.

CONCEPT ARCHITECT : SNS ASSOCIATES

SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	RKS		10.05.2023
DRWN	RKS		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE: RESIDENTIAL BUILDING

RC. DET. OF COLUMN

SECTION / ELEVATION MARKING — DRAWING NUMBER

SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NR- 0019

PROJECTION

SIZE	REV
A1	0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

SIVASANKARI Structural Consultant

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SCHEDULE OF COLUMN RC DETAILS:

CROSS SECTION DETAILS

COLUMN ID	COL SIZE a	COL SIZE b	SECTION 1-1 FOOTING - STILT FLOOR	SECTION 2-2 STILT FLOOR - FIRST FLOOR	SECTION 3-3 FIRST FLOOR - SECOND FLOOR	SECTION 4-4 SECOND FLOOR - THIRD FLOOR	SECTION 5-5 THIRD FLOOR - FOURTH FLOOR	SECTION 6-6 FOURTH FLOOR - FIFTH FLOOR	SECTION 7-7 FIFTH FLOOR - SIXTH FLOOR	SECTION 8-8 SIXTH FLOOR - SEVENTH FLOOR	SECTION 9-9 SEVENTH FLOOR - EIGHTH FLOOR	SECTION 10-10 EIGHTH FLOOR - NINETH FLOOR	SECTION 11-11 NINETH FLOOR - TENTH FLOOR	SECTION 12-12 TENTH FLOOR - ELEVENTH FLOOR
C7,C8,C10,C11 C13,C14	3'3"	9"	3 -T20 ① 3 -T20 ② 2 -T16 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T16 ⑥ 2 -T16 ⑦ 2 -T20 ⑧ T8 Ties ⓓ	DO	DO	3 -T20 ① 3 -T20 ② 2 -T16 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T16 ⑥ 2 -T16 ⑦ 2 -T16 ⑧ T8 Ties ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T16 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T16 ⑧ T8 Ties ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ T8 Ties ⓓ	DO	3 -T12 ① 3 -T12 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ T8 Ties ⓓ
C18,C19,C21 C24,C25,C27	3'3"	9"	3 -T20 ① 3 -T20 ② 2 -T16 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T16 ⑥ 2 -T16 ⑦ 2 -T16 ⑧ T8 Ties ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T16 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T16 ⑥ 2 -T16 ⑦ 2 -T16 ⑧ T8 Ties ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ T8 Ties ⓓ	DO	DO	3 -T12 ① 3 -T12 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ T8 Ties ⓓ	DO	DO
C44,C45,C46	3'3"	9"	3 -T20 ① 3 -T20 ② 2 -T20 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T16 ⑥ 2 -T16 ⑦ 2 -T20 ⑧ T8 Ties ⓓ	DO	DO	3 -T20 ① 3 -T20 ② 2 -T16 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T16 ⑥ 2 -T16 ⑦ 2 -T16 ⑧ T8 Ties ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T16 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T16 ⑥ 2 -T16 ⑦ 2 -T16 ⑧ T8 Ties ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T16 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T16 ⑦ 2 -T16 ⑧ T8 Ties ⓓ	DO	3 -T12 ① 3 -T12 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ T8 Ties ⓓ
C9	4'4½"	9"	3 -T20 ① 3 -T20 ② 2 -T20 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T16 ⑥ 2 -T16 ⑦ 2 -T16 ⑧ 2 -T16 ⑨ 2 -T20 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 -T20 ① 3 -T20 ② 2 -T20 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T16 ⑨ 2 -T20 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T16 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T16 ⑧ 2 -T16 ⑨ 2 -T16 ⑩ T8 Ties ⓒ&ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T16 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T16 ⑩ T8 Ties ⓒ&ⓓ	DO	3 -T12 ① 3 -T12 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T12 ⑩ T8 Ties ⓒ&ⓓ
C17	4'7½"	9"	3 -T20 ① 3 -T20 ② 2 -T20 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T16 ⑥ 2 -T16 ⑦ 2 -T16 ⑧ 2 -T16 ⑨ 2 -T16 ⑩ 2 -T16 ⑪ 2 -T20 ⑫ T8 Ties ⓒ&ⓓ	DO	DO	3 -T20 ① 3 -T20 ② 2 -T20 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T16 ⑩ 2 -T16 ⑪ 2 -T20 ⑫ T8 Ties ⓒ&ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T16 ③ 2 -T16 ④ 2 -T16 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T16 ⑩ 2 -T16 ⑪ 2 -T16 ⑫ T8 Ties ⓒ&ⓓ	DO	DO	3 -T16 ① 3 -T16 ② 2 -T16 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T12 ⑩ 2 -T12 ⑪ 2 -T16 ⑫ T8 Ties ⓒ&ⓓ	DO	3 -T12 ① 3 -T12 ② 2 -T12 ③ 2 -T12 ④ 2 -T12 ⑤ 2 -T12 ⑥ 2 -T12 ⑦ 2 -T12 ⑧ 2 -T12 ⑨ 2 -T12 ⑩ 2 -T12 ⑪ 2 -T12 ⑫ T8 Ties ⓒ&ⓓ

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STRUCTURAL CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT
PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD,CHENNAI.
CONCEPT ARCHITECT : SNS ASSOCIATES
SUPPLIER/ CONTRACTOR :

JOB No : O21051

	NAME	SIGN	DATE
DSGN	RKS		10.05.2023
DRWN	RKS		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE: RESIDENTIAL BUILDING
RC. DET. OF COLUMN

SECTION / ELEVATION MARKING
DRAWING NUMBER
SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NR- 0020
PROJECTION
SIZE A1
REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

SIVASANKARI Structural Consultant

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SCHEDULE OF COLUMN RC DETAILS:

COLUMN ID	COL.SIZE a	COL.SIZE b	CROSS SECTION DETAILS
C41	9'9"	9"	SECTION 1-1 FOOTING - STILT FLOOR: 9"(b), 9'-9"(e), 3-T20 ①, 3-T20 ②, 2-T20 ③, 2-T20 ④, 2-T20 ⑤, 2-T16 ⑥, 2-T16 ⑦, 2-T16 ⑧, 2-T16 ⑨, 2-T16 ⑩, 2-T16 ⑪, 2-T16 ⑫, 2-T16 ⑬, 2-T16 ⑭, 2-T16 ⑮, 2-T16 ⑯, 2-T16 ⑰, 2-T16 ⑱, 2-T16 ⑲, 2-T16 ⑳, 2-T16 ㉑, 2-T20 ㉒, 2-T20 ㉓, 2-T20 ㉔, T8 Ties ⓒ&ⓓ; SECTION 2-2 STILT FLOOR - FIRST FLOOR: DO; SECTION 3-3 FIRST FLOOR - SECOND FLOOR: DO; SECTION 4-4 SECOND FLOOR - THIRD FLOOR: 9"(b), 9'-9"(e), 3-T20 ①, 3-T20 ②, 2-T20 ③, 2-T16 ④, 2-T16 ⑤, 2-T16 ⑥, 2-T16 ⑦, 2-T16 ⑧, 2-T16 ⑨, 2-T16 ⑩, 2-T16 ⑪, 2-T16 ⑫, 2-T16 ⑬, 2-T16 ⑭, 2-T16 ⑮, 2-T16 ⑯, 2-T16 ⑰, 2-T16 ⑱, 2-T16 ⑲, 2-T16 ⑳, 2-T16 ㉑, 2-T16 ㉒, 2-T16 ㉓, 2-T20 ㉔, T8 Ties ⓒ&ⓓ; SECTION 5-5 THIRD FLOOR - FOURTH FLOOR: DO; SECTION 6-6 FOURTH FLOOR - FIFTH FLOOR: DO; SECTION 7-7 FIFTH FLOOR - SIXTH FLOOR: 9"(b), 9'-9"(e), 3-T16 ①, 3-T16 ②, 2-T16 ③, 2-T16 ④, 2-T16 ⑤, 2-T16 ⑥, 2-T16 ⑦, 2-T16 ⑧, 2-T16 ⑨, 2-T12 ⑩, 2-T12 ⑪, 2-T12 ⑫, 2-T12 ⑬, 2-T12 ⑭, 2-T12 ⑮, 2-T12 ⑯, 2-T12 ⑰, 2-T16 ⑱, 2-T16 ⑲, 2-T16 ⑳, 2-T16 ㉑, 2-T16 ㉒, 2-T16 ㉓, 2-T16 ㉔, T8 Ties ⓒ&ⓓ; SECTION 8-8 SIXTH FLOOR - SEVENTH FLOOR: DO; SECTION 9-9 SEVENTH FLOOR - EIGHTH FLOOR: DO; SECTION 10-10 EIGHTH FLOOR - NINETH FLOOR: 9"(b), 9'-9"(e), 3-T16 ①, 3-T16 ②, 2-T16 ③, 2-T16 ④, 2-T16 ⑤, 2-T16 ⑥, 2-T16 ⑦, 2-T12 ⑧, 2-T12 ⑨, 2-T12 ⑩, 2-T12 ⑪, 2-T12 ⑫, 2-T12 ⑬, 2-T12 ⑭, 2-T12 ⑮, 2-T12 ⑯, 2-T12 ⑰, 2-T12 ⑱, 2-T12 ⑲, 2-T12 ⑳, 2-T12 ㉑, 2-T12 ㉒, 2-T12 ㉓, 2-T16 ㉔, T8 Ties ⓒ&ⓓ; SECTION 11-11 NINETH FLOOR - TENTH FLOOR: DO; SECTION 12-12 TENTH FLOOR - ELEVENTH FLOOR: 9"(b), 9'-9"(e), 3-T12 ①, 3-T12 ②, 2-T12 ③, 2-T12 ④, 2-T12 ⑤, 2-T12 ⑥, 2-T12 ⑦, 2-T12 ⑧, 2-T12 ⑨, 2-T12 ⑩, 2-T12 ⑪, 2-T12 ⑫, 2-T12 ⑬, 2-T12 ⑭, 2-T12 ⑮, 2-T12 ⑯, 2-T12 ⑰, 2-T12 ⑱, 2-T12 ⑲, 2-T12 ⑳, 2-T12 ㉑, 2-T12 ㉒, 2-T12 ㉓, 2-T12 ㉔, T8 Ties ⓒ&ⓓ
C26	9'6"	9"	SECTION 1-1 FOOTING - STILT FLOOR: 9"(b), 9'-6"(e), 3-T20 ①, 3-T20 ②, 3-T20 ③, 2-T20 ④, 2-T20 ⑤, 2-T16 ⑥, 2-T16 ⑦, 2-T16 ⑧, 2-T16 ⑨, 2-T16 ⑩, 2-T16 ⑪, 2-T16 ⑫, 2-T16 ⑬, 2-T16 ⑭, 2-T16 ⑮, 2-T16 ⑯, 2-T16 ⑰, 2-T16 ⑱, 2-T16 ⑲, 2-T16 ⑳, 2-T16 ㉑, 2-T20 ㉒, 2-T20 ㉓, 2-T20 ㉔, T8 Ties ⓒ&ⓓ; SECTION 2-2 STILT FLOOR - FIRST FLOOR: DO; SECTION 3-3 FIRST FLOOR - SECOND FLOOR: DO; SECTION 4-4 SECOND FLOOR - THIRD FLOOR: 9"(b), 9'-6"(e), 3-T20 ①, 3-T20 ②, 3-T20 ③, 2-T20 ④, 2-T20 ⑤, 2-T16 ⑥, 2-T16 ⑦, 2-T16 ⑧, 2-T16 ⑨, 2-T16 ⑩, 2-T16 ⑪, 2-T12 ⑫, 2-T12 ⑬, 2-T12 ⑭, 2-T12 ⑮, 2-T16 ⑯, 2-T16 ⑰, 2-T16 ⑱, 2-T16 ⑲, 2-T16 ⑳, 2-T16 ㉑, 2-T20 ㉒, 2-T20 ㉓, 2-T20 ㉔, T8 Ties ⓒ&ⓓ; SECTION 5-5 THIRD FLOOR - FOURTH FLOOR: DO; SECTION 6-6 FOURTH FLOOR - FIFTH FLOOR: DO; SECTION 7-7 FIFTH FLOOR - SIXTH FLOOR: 9"(b), 9'-6"(e), 3-T20 ①, 3-T20 ②, 3-T20 ③, 2-T16 ④, 2-T16 ⑤, 2-T16 ⑥, 2-T16 ⑦, 2-T16 ⑧, 2-T16 ⑨, 2-T12 ⑩, 2-T12 ⑪, 2-T12 ⑫, 2-T12 ⑬, 2-T12 ⑭, 2-T12 ⑮, 2-T16 ⑯, 2-T12 ⑰, 2-T12 ⑱, 2-T16 ⑲, 2-T16 ⑳, 2-T16 ㉑, 2-T16 ㉒, 2-T16 ㉓, 2-T20 ㉔, T8 Ties ⓒ&ⓓ; SECTION 8-8 SIXTH FLOOR - SEVENTH FLOOR: DO; SECTION 9-9 SEVENTH FLOOR - EIGHTH FLOOR: DO; SECTION 10-10 EIGHTH FLOOR - NINETH FLOOR: 9"(b), 9'-6"(e), 3-T16 ①, 3-T16 ②, 2-T16 ③, 2-T16 ④, 2-T16 ⑤, 2-T16 ⑥, 2-T16 ⑦, 2-T12 ⑧, 2-T12 ⑨, 2-T12 ⑩, 2-T12 ⑪, 2-T12 ⑫, 2-T12 ⑬, 2-T12 ⑭, 2-T12 ⑮, 2-T12 ⑯, 2-T12 ⑰, 2-T12 ⑱, 2-T12 ⑲, 2-T12 ⑳, 2-T12 ㉑, 2-T12 ㉒, 2-T12 ㉓, 2-T16 ㉔, T8 Ties ⓒ&ⓓ; SECTION 11-11 NINETH FLOOR - TENTH FLOOR: DO; SECTION 12-12 TENTH FLOOR - ELEVENTH FLOOR: 9"(b), 9'-6"(e), 3-T12 ①, 3-T12 ②, 2-T12 ③, 2-T12 ④, 2-T12 ⑤, 2-T12 ⑥, 2-T12 ⑦, 2-T12 ⑧, 2-T12 ⑨, 2-T12 ⑩, 2-T12 ⑪, 2-T12 ⑫, 2-T12 ⑬, 2-T12 ⑭, 2-T12 ⑮, 2-T12 ⑯, 2-T12 ⑰, 2-T12 ⑱, 2-T12 ⑲, 2-T12 ⑳, 2-T12 ㉑, 2-T12 ㉒, 2-T12 ㉓, 2-T12 ㉔, T8 Ties ⓒ&ⓓ

N. KARIKALAN, M.E.,(Struc.Engg.), MIE
CMDA Reg. No : SE/GR-I/19/03/012
Chartered Engineer (M-1644542/19)
No.15, Flat-B, Sri Ayyan Illam, 1st Floor,
1st Street, Narasimman Nagar,
Ramapuram, Chennai - 600 089
Mobile : 98942 45633
Email : nkarikalan1985@gmail.com

REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
0	ISSUED FOR CONSTRUCTION	RKS 10.05.2023	RKS 10.05.2023	NKK 10.05.2023	NKK 10.05.2023

SIVASANKARI
STRUCTURAL CONSULTANT
MOBILE NO: 9894245633,
E-MAIL ID: sivasankarl.structural@gmail.com

CLIENT : M/S BUILTTECH ASSOCIATES
STRUCTURAL CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT
PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD,CHENNAI.
CONCEPT ARCHITECT : SNS ASSOCIATES
SUPPLIER/ CONTRACTOR :

JOB No : 021051

	NAME	SIGN	DATE
DSGN	RKS		10.05.2023
DRWN	RKS		10.05.2023
CHKD	NKK		10.05.2023
APPD	NKK		10.05.2023

TITLE: RESIDENTIAL BUILDING
RC. DET. OF COLUMN

SECTION / ELEVATION MARKING
DRAWING NUMBER
SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NR- 0021
PROJECTION
SIZE A1
REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

SIVASANKARI Structural Consultant

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SCHEDULE OF COLUMN RC DETAILS:

COLUMN ID	COL.SIZE a	COL.SIZE b	CROSS SECTION DETAILS: SECTION 1-1 FOOTING - STILT FLOOR	SECTION 2-2 STILT FLOOR - FIRST FLOOR	SECTION 3-3 FIRST FLOOR - SECOND FLOOR	SECTION 4-4 SECOND FLOOR - THIRD FLOOR	SECTION 5-5 THIRD FLOOR - FOURTH FLOOR	SECTION 6-6 FOURTH FLOOR - FIFTH FLOOR	SECTION 7-7 FIFTH FLOOR - SIXTH FLOOR	SECTION 8-8 SIXTH FLOOR - SEVENTH FLOOR	SECTION 9-9 SEVENTH FLOOR - EIGHTH FLOOR	SECTION 10-10 EIGHTH FLOOR - NINETH FLOOR	SECTION 11-11 NINETH FLOOR - TENTH FLOOR	SECTION 12-12 TENTH FLOOR - ELEVENTH FLOOR
C20	14'7¼"	9"	9"(b) · 14'-7¼"(e) · 3 -T20 ① · 3 -T20 ② · 2 -T20 ③ · 2 -T20 ④ · 2 -T20 ⑤ · 2 -T16 ⑥ · 2 -T16 ⑦ · 2 -T16 ⑧ · 2 -T16 ⑨ · 2 -T20 ⑩ · 2 -T20 ⑪ · 2 -T20 ⑫ · 2 -T16 ⑬ · 2 -T16 ⑭ · 2 -T16 ⑮ · 2 -T16 ⑯ · 2 -T16 ⑰ · 2 -T16 ⑱ · 2 -T20 ⑲ · 2 -T20 ⑳ · 2 -T20 ㉑ · 2 -T20 ㉒ · 2 -T20 ㉓ · 2 -T20 ㉔ · 2 -T20 ㉕ · 2 -T20 ㉖ · 2 -T20 ㉗ · 2 -T20 ㉘ · 2 -T16 ㉙ · 2 -T16 ㉚ · 2 -T16 ㉛ · 2 -T16 ㉜ · 2 -T20 ㉝ · 2 -T20 ㉞ · 2 -T20 ㉟ · T8 Ties ⓒ&ⓓ	—— DO ——	—— DO ——	9"(b) · 14'-7¼"(e) · 3 -T20 ① · 3 -T20 ② · 2 -T20 ③ · 2 -T16 ④ · 2 -T16 ⑤ · 2 -T16 ⑥ · 2 -T16 ⑦ · 2 -T16 ⑧ · 2 -T16 ⑨ · 2 -T20 ⑩ · 2 -T20 ⑪ · 2 -T20 ⑫ · 2 -T16 ⑬ · 2 -T16 ⑭ · 2 -T16 ⑮ · 2 -T16 ⑯ · 2 -T16 ⑰ · 2 -T16 ⑱ · 2 -T20 ⑲ · 2 -T20 ⑳ · 2 -T20 ㉑ · 2 -T16 ㉒ · 2 -T16 ㉓ · 2 -T16 ㉔ · 2 -T20 ㉕ · 2 -T20 ㉖ · 2 -T20 ㉗ · 2 -T20 ㉘ · 2 -T16 ㉙ · 2 -T16 ㉚ · 2 -T16 ㉛ · 2 -T16 ㉜ · 2 -T16 ㉝ · 2 -T16 ㉞ · 2 -T20 ㉟ · T8 Ties ⓒ&ⓓ	—— DO ——	—— DO ——	9"(b) · 14'-7¼"(e) · 3 -T20 ① · 3 -T20 ② · 2 -T20 ③ · 2 -T16 ④ · 2 -T16 ⑤ · 2 -T16 ⑥ · 2 -T16 ⑦ · 2 -T16 ⑧ · 2 -T16 ⑨ · 2 -T16 ⑩ · 2 -T16 ⑪ · 2 -T16 ⑫ · 2 -T16 ⑬ · 2 -T16 ⑭ · 2 -T16 ⑮ · 2 -T16 ⑯ · 2 -T16 ⑰ · 2 -T16 ⑱ · 2 -T16 ⑲ · 2 -T16 ⑳ · 2 -T16 ㉑ · 2 -T16 ㉒ · 2 -T16 ㉓ · 2 -T16 ㉔ · 2 -T16 ㉕ · 2 -T16 ㉖ · 2 -T16 ㉗ · 2 -T16 ㉘ · 2 -T16 ㉙ · 2 -T16 ㉚ · 2 -T16 ㉛ · 2 -T16 ㉜ · 2 -T16 ㉝ · 2 -T16 ㉞ · 2 -T20 ㉟ · T8 Ties ⓒ&ⓓ	—— DO ——	—— DO ——	9"(b) · 14'-7¼"(e) · 3 -T16 ① · 3 -T16 ② · 2 -T16 ③ · 2 -T12 ④ · 2 -T12 ⑤ · 2 -T12 ⑥ · 2 -T12 ⑦ · 2 -T12 ⑧ · 2 -T12 ⑨ · 2 -T16 ⑩ · 2 -T16 ⑪ · 2 -T16 ⑫ · 2 -T12 ⑬ · 2 -T12 ⑭ · 2 -T12 ⑮ · 2 -T12 ⑯ · 2 -T12 ⑰ · 2 -T12 ⑱ · 2 -T16 ⑲ · 2 -T16 ⑳ · 2 -T16 ㉑ · 2 -T12 ㉒ · 2 -T12 ㉓ · 2 -T12 ㉔ · 2 -T12 ㉕ · 2 -T16 ㉖ · 2 -T16 ㉗ · 2 -T16 ㉘ · 2 -T12 ㉙ · 2 -T12 ㉚ · 2 -T12 ㉛ · 2 -T12 ㉜ · 2 -T12 ㉝ · 2 -T12 ㉞ · 2 -T16 ㉟ · T8 Ties ⓒ&ⓓ	—— DO ——	9"(b) · 14'-7¼"(e) · 3 -T12 ① · 3 -T12 ② · 2 -T12 ③ · 2 -T12 ④ · 2 -T12 ⑤ · 2 -T12 ⑥ · 2 -T12 ⑦ · 2 -T12 ⑧ · 2 -T12 ⑨ · 2 -T12 ⑩ · 2 -T12 ⑪ · 2 -T12 ⑫ · 2 -T12 ⑬ · 2 -T12 ⑭ · 2 -T12 ⑮ · 2 -T12 ⑯ · 2 -T12 ⑰ · 2 -T12 ⑱ · 2 -T12 ⑲ · 2 -T12 ⑳ · 2 -T12 ㉑ · 2 -T12 ㉒ · 2 -T12 ㉓ · 2 -T12 ㉔ · 2 -T12 ㉕ · 2 -T12 ㉖ · 2 -T12 ㉗ · 2 -T12 ㉘ · 2 -T12 ㉙ · 2 -T12 ㉚ · 2 -T12 ㉛ · 2 -T12 ㉜ · 2 -T12 ㉝ · 2 -T12 ㉞ · 2 -T12 ㉟ · T8 Ties ⓒ&ⓓ
C22,C33	2'6"	1'6"	1'-6"(b) · 2'-6"(e) · 4 -T20 ① · 4 -T20 ② · 4 -T20 ③ · 4 -T20 ④ · T8 Ties ⓖ&ⓗ&ⓙ	—— DO ——	—— DO ——	1'-6"(b) · 2'-6"(e) · 4 -T20 ① · 4 -T20 ② · 4 -T16 ③ · 4 -T16 ④ · T8 Ties ⓖ&ⓗ&ⓙ	—— DO ——	—— DO ——	1'-6"(b) · 2'-6"(e) · 4 -T16 ① · 4 -T16 ② · 4 -T16 ③ · 4 -T16 ④ · T8 Ties ⓖ&ⓗ&ⓙ	—— DO ——	—— DO ——	1'-6"(b) · 2'-6"(e) · 4 -T16 ① · 4 -T16 ② · 4 -T12 ③ · 4 -T12 ④ · T8 Ties ⓖ&ⓗ&ⓙ	—— DO ——	1'-6"(b) · 2'-6"(e) · 4 -T12 ① · 4 -T12 ② · 4 -T12 ③ · 4 -T12 ④ · T8 Ties ⓖ&ⓗ&ⓙ
C32	1'6"	1'6"	1'-6"(b) · 1'-6"(e) · 4 -T20 ① · 4 -T20 ② · 4 -T20 ③ · T8 Ties ⓖ&ⓗ&ⓙ	—— DO ——	—— DO ——	1'-6"(b) · 1'-6"(e) · 4 -T20 ① · 4 -T20 ② · 4 -T16 ③ · T8 Ties ⓖ&ⓗ&ⓙ	—— DO ——	—— DO ——	1'-6"(b) · 1'-6"(e) · 4 -T20 ① · 4 -T16 ② · 4 -T16 ③ · T8 Ties ⓖ&ⓗ&ⓙ	—— DO ——	—— DO ——	1'-6"(b) · 1'-6"(e) · 4 -T16 ① · 4 -T12 ② · 4 -T12 ③ · T8 Ties ⓖ&ⓗ&ⓙ	—— DO ——	1'-6"(b) · 1'-6"(e) · 4 -T12 ① · 4 -T12 ② · 4 -T12 ③ · T8 Ties ⓖ&ⓗ&ⓙ

N. KARIKALAN, M.E.,(Struc.Engg.), MIE
CMDA Reg. No : SE/GR-I/19/03/012
Chartered Engineer (M-1644542/19)
No.15, Flat-B, Sri Ayyan Illam, 1st Floor,
1st Street, Narasimman Nagar,
Ramapuram, Chennai - 600 089
Mobile : 98942 45633
Email : nkarikalan1985@gmail.com

REV.NO.	DESCRIPTION	DESIGNED	DRAWN	CHECKED	APPROVED
0	ISSUED FOR CONSTRUCTION	RKS 10.05.2023	RKS 10.05.2023	NKK 10.05.2023	NKK 10.05.2023

SIVASANKARI
STRUCTURAL CONSULTANT
MOBILE NO: 9894245633,
E-MAIL ID: sivasankari.structural@gmail.com

CLIENT : M/S BUILTTECH ASSOCIATES
STRUCTURAL CONSULTANT : SIVASANKARI STRUCTURAL CONSULTANT
PROJECT: PROPOSED RESIDENTIAL BUILDING AT WATER CANAL ROAD,CHENNAI.
CONCEPT ARCHITECT : SNS ASSOCIATES
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DSGN	RKS		10.05.2023
DRWN	RKS		10.05.2023
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TITLE: RESIDENTIAL BUILDING
RC. DET. OF COLUMN

SECTION / ELEVATION MARKING
DRAWING NUMBER
SCALE 1:100

DRAWING No. O21051 - C - RB - 01 - NR- 0022
PROJECTION
SIZE A1
REV 0

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION

SIVASANKARI Structural Consultant



our services doesn't just end there

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Compliance & Special Services

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empowering your real estate decisions with smart tools

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

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

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