STRUCTURE WORKINGS DRAWINGS RIGHTS RESERVED BY HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT. LTD. & TEAM

1	Excavation						
1.A	Entire Plot Excavation for Basement 0'00" to -8'00" / 4.20 Mt's	1	36.60	73.20	2.45	6563.84	
	L = 120'00" / 36.60 Mt's						
	B = 240'00" / 73.20 Mt's						
1.B	Footings -8'00" to -13'06"						
	F1 - 8'06" * 12'06"	30	2.60	3.81	1.75	520.07	
	F2 - 9'06" * 15'06"	8	2.90	4.75	1.75	192.85	
	F3 - 16'06" * 12'06"	5	5.05	3.81	1.75	168.35	
	F4 - 8'06" * 21'06"	5	2.60	6.60	1.75	150.15	
	F5 - Area from CAD = 204.00 Sq.ft	2		19.00	1.75	66.50	
	F6 - 13'06" * 16'06"	2	4.15	5.05	1.75	73.35	
	F7 - Area from CAD = 196.50 Sq.ft	1		18.50	1.75	32.38	
	SW1 - 18'03" * 9'03"	2	5.60	2.85	1.75	55.86	
				Total		7823.35	
				Add 5% Extra Qty.		391.17	
				Grand Total		8214.52	
			Total Excavation			8215.00	M3

NOTES

1 - CONTRACTOR / EXECUTION TEAM CHECK DIMENSIONS & VERIFY BEFORE THE EXECUTION OF WORK.
2 - FIGURES & DIMENSIONS TO BE FOLLOWED
3 - ALL DIMENSIONS ARE FEET's & INCH's UNTIL & UNLESS SPECIFIED
4 - ALL REINFORCEMENT FOR RCC SHALL BE TMT BARS OF GRADE Fe 500 & ABOVE ONLY AS SPECIFIED IN IS:1786
5 - ALL RCC CONCRETE SHALL BE AS PER IS - 456
6 - CLEAR COVER SHOULD BE AS PER FOLLOWING SPECIFIED
(A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
7 - WATER USED FOR CONCRETING SHALL MEET CL - 5.4 IS - 456
8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

SCALE - NTS | R-0 | *A3 PRINTS* | S-1

CODES USED FOR DESIGNING

- IS:456 - INDIAN STANDARD CODE OF PRACTICE FOR PLAIN & REINFORCED CONCRETE
- IS:800-2007 - INDIAN STANDARD CODE OF PRACTICE FOR GENERAL CONSTRUCTION IN STEEL
- IS:801-1975 - INDIAN STANDARD CODE OF PRACTICE FOR USE OF COLD FORMED LIGHT GAUGE STEEL STRUCTURAL MEMBERS IN GENERAL BUILDING CONSTRUCTION
- IS:875 - 1987 - PART (I, II, III, & V) - INDIAN STANDARD CODE OF PRACTICE FOR DESIGN LOADS
- IS 1893 - 2002 - INDIAN STANDARD CODE OF PRACTICE FOR EARTHQUAKE RESISTANCE DESIGN OF STRUCTURE

SHEET TITLE: Plot line Details

Drw No	GOOD FOR CONSTRUCTION	21/01/2024
Drw - 1	PLOT AREA	
Drw - 2	COL's C/S & DETAILS	
Drw - 3		

Drw Table

B+G+7 @ Rajamahendravaram AP

CHK AKA | DRW HP

HRK/Er.NML/GFC/13/24/6

HRKD/13/01/22/2024

HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT LTD
Vasna Bayali Road TP2 Gotri Road Vadodara - 391014
+91-9380 930 347

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh



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India's Leading Structure + MEP Consultants

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BASEMENT SLAB AREA

19,289.00 Sq.Ft



1	Excavation					
1.A	Entire Plot Excavation for Basement 0'00" to -8'00" / 4.20 Mt's	1	36.60	73.20	2.45	6563.84
	L = 120'00" / 36.60 Mt's					
	B = 240'00" / 73.20 Mt's					
1.B	Footings -8'00" to -13'06"					
	F1 - 8'06" * 12'06"	30	2.60	3.81	1.75	520.07
	F2 - 9'06" * 15'06"	8	2.90	4.75	1.75	192.85
	F3 - 16'06" * 12'06"	5	5.05	3.81	1.75	168.35
	F4 - 8'06" * 21'06"	5	2.60	6.60	1.75	150.15
	F5 - Area from CAD = 204.00 Sq.ft	2		19.00	1.75	66.50
	F6 - 13'06" * 16'06"	2	4.15	5.05	1.75	73.35
	F7 - Area from CAD = 196.50 Sq.ft	1		18.50	1.75	32.38
	SW1 - 18'03" * 9'03"	2	5.60	2.85	1.75	55.86
				Total		7823.35
				Add 5% Extra Qty.		391.17
				Grand Total		8214.52
			Total Excavation			8215.00 M3

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SCALE - NTS | R-0 | *A3 PRINTS* | S-2

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SHEET TITLE | Plot line Details

GOOD FOR CONSTRUCTION | 21/01/2024

Drw Table

Drw No	SHEET TITLE
Drw - 1	PLOT AREA
Drw - 2	COL's C/S & DETAILS
Drw - 3	

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

B+G+7 @ Rajamahendravaram AP

DRW	CHK
HP	AKA

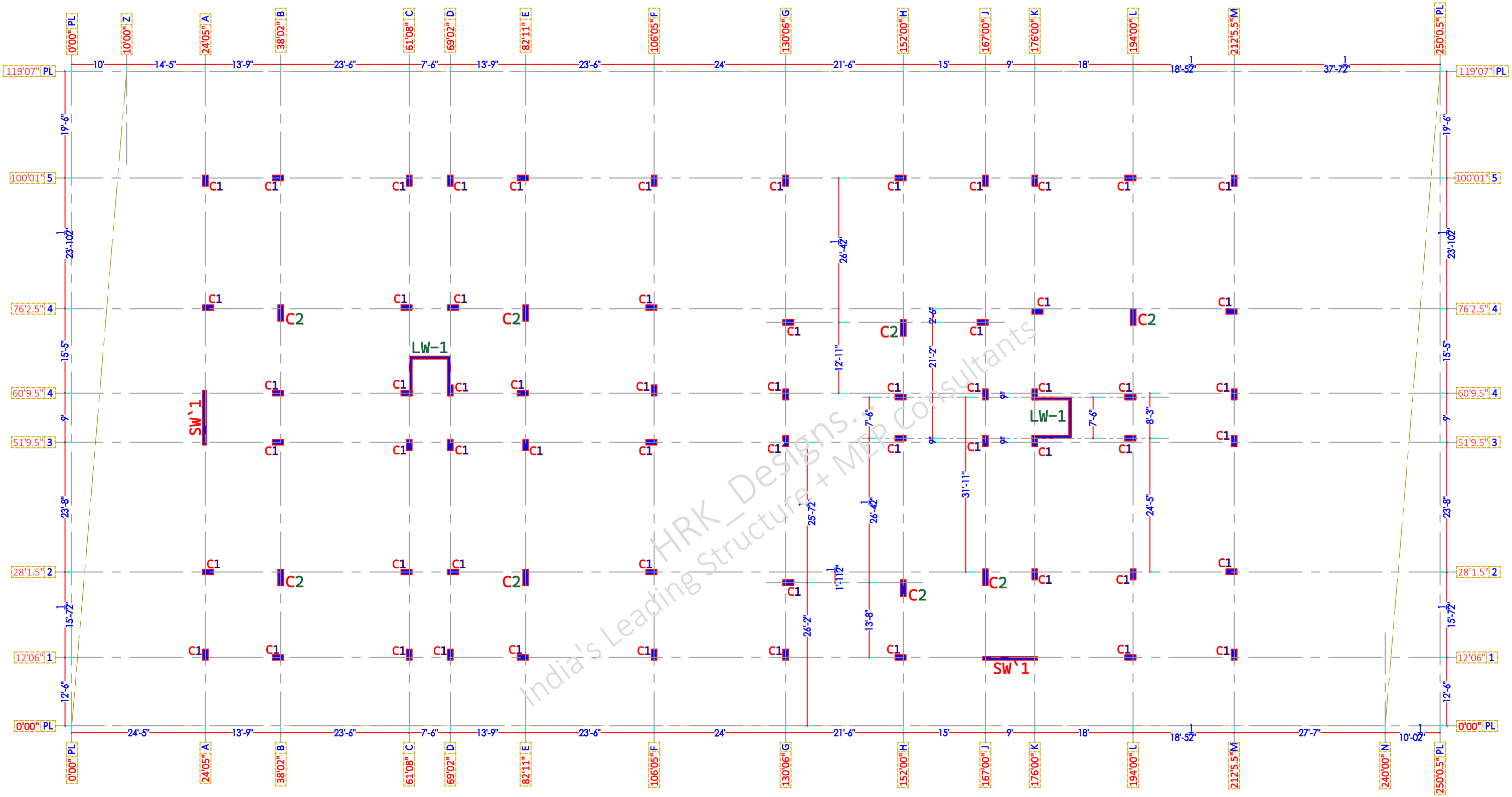
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C1 = 1' x 2' = 60No's
C2 = 1' x 3' = 8No's
SW`1 = 8" x 10' = 2No's
LW1 = As per Details = 2No's

PLS NOTE

- This Sheet Indicates Col's Size orientation & Details till GF Slab LVL only

SCALE - NTS | R-0 | *A3 PRINTS* | S-3 | Basement Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Basement Area
Drw - 2	Basement Details
Drw - 3	

PROJECT BY:-
TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

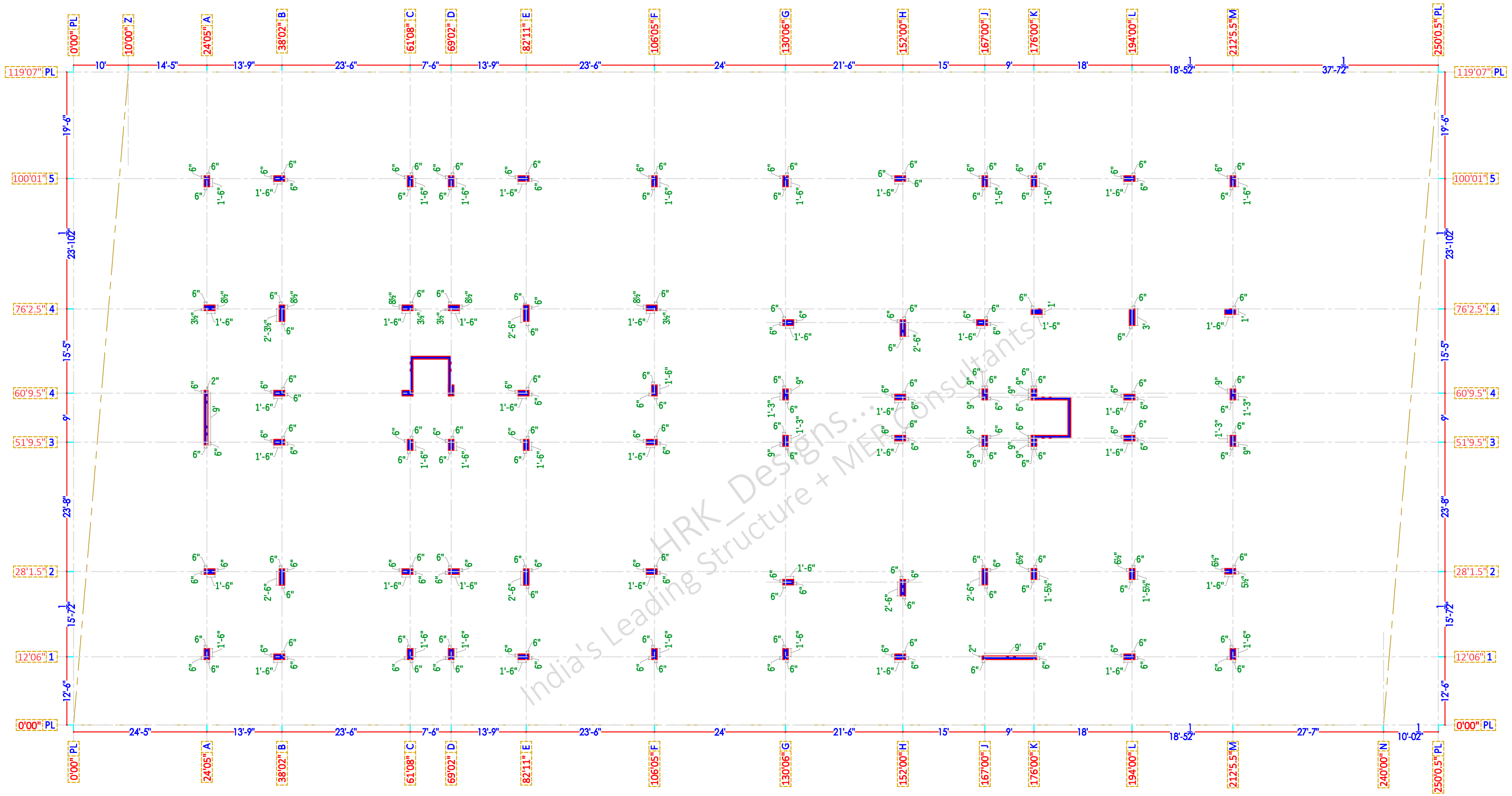
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AKA	HP

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HRKD/13/01/22/2024

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HRK Designs

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C1 = 1' x 2' = 60No's
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PLS NOTE

- This Sheet Indicates Col's Size orientation & Details till GF Slab LVL only

SCALE - NTS | R-0 | *A3 PRINTS* | S-4 | Center line Details | B+G+7 @ Rajamahendravaram AP

NOTES

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SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	Col's Center line Plan	
Drw - 2	Col's Center line Details	
Drw - 3	Col's Center line C/S & Details	

PROJECT BY:-
TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

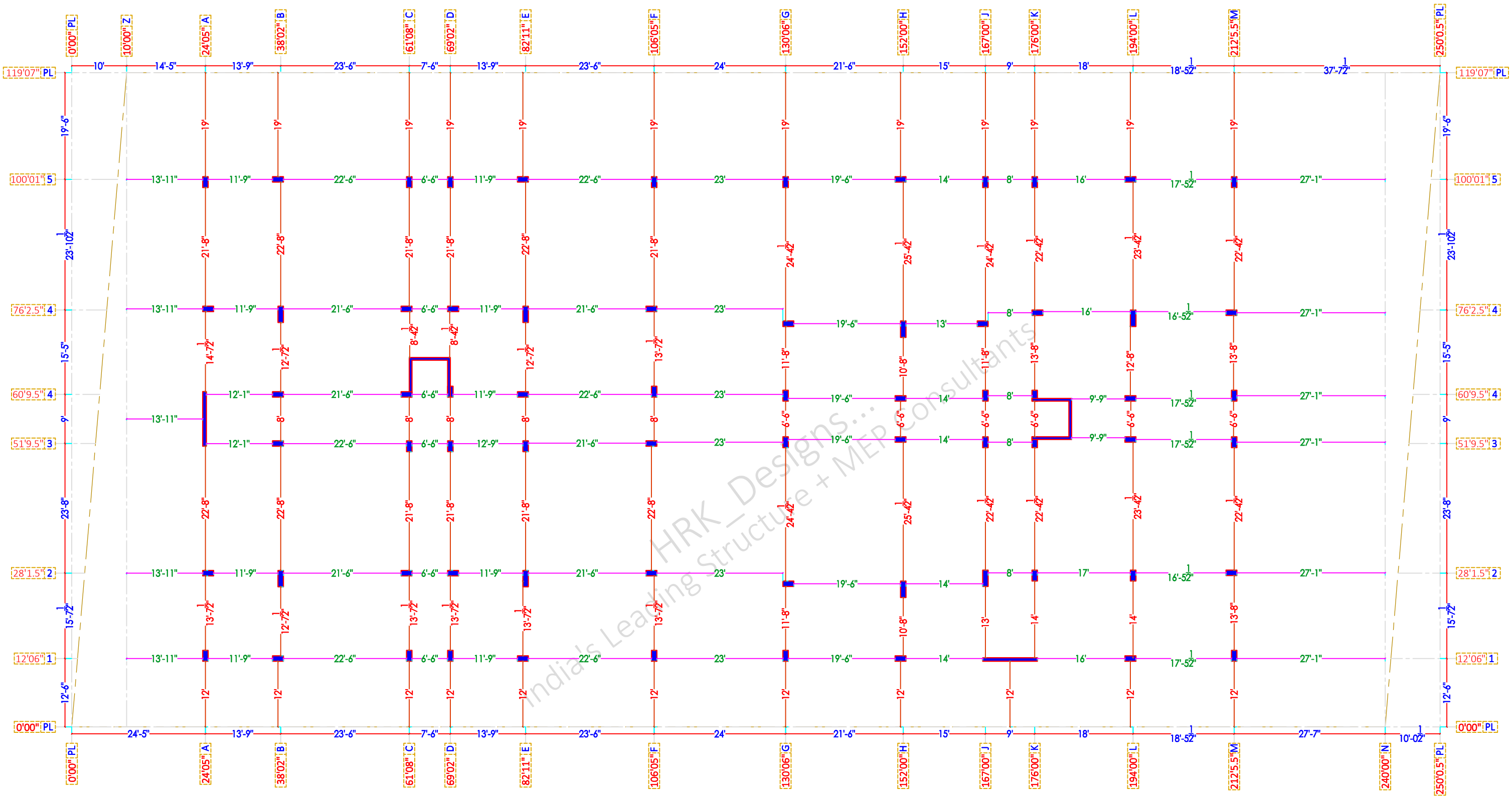
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PLS NOTE

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SCALE - NTS	R-0	*A3 PRINTS*	S-5	Center line Details	B+G+7 @ Rajamahendravaram AP

NOTES
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SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	Col's Center line Plan	
Drw - 2	Col's Center line Details	
Drw - 3	Col's Center line C/S & Details	

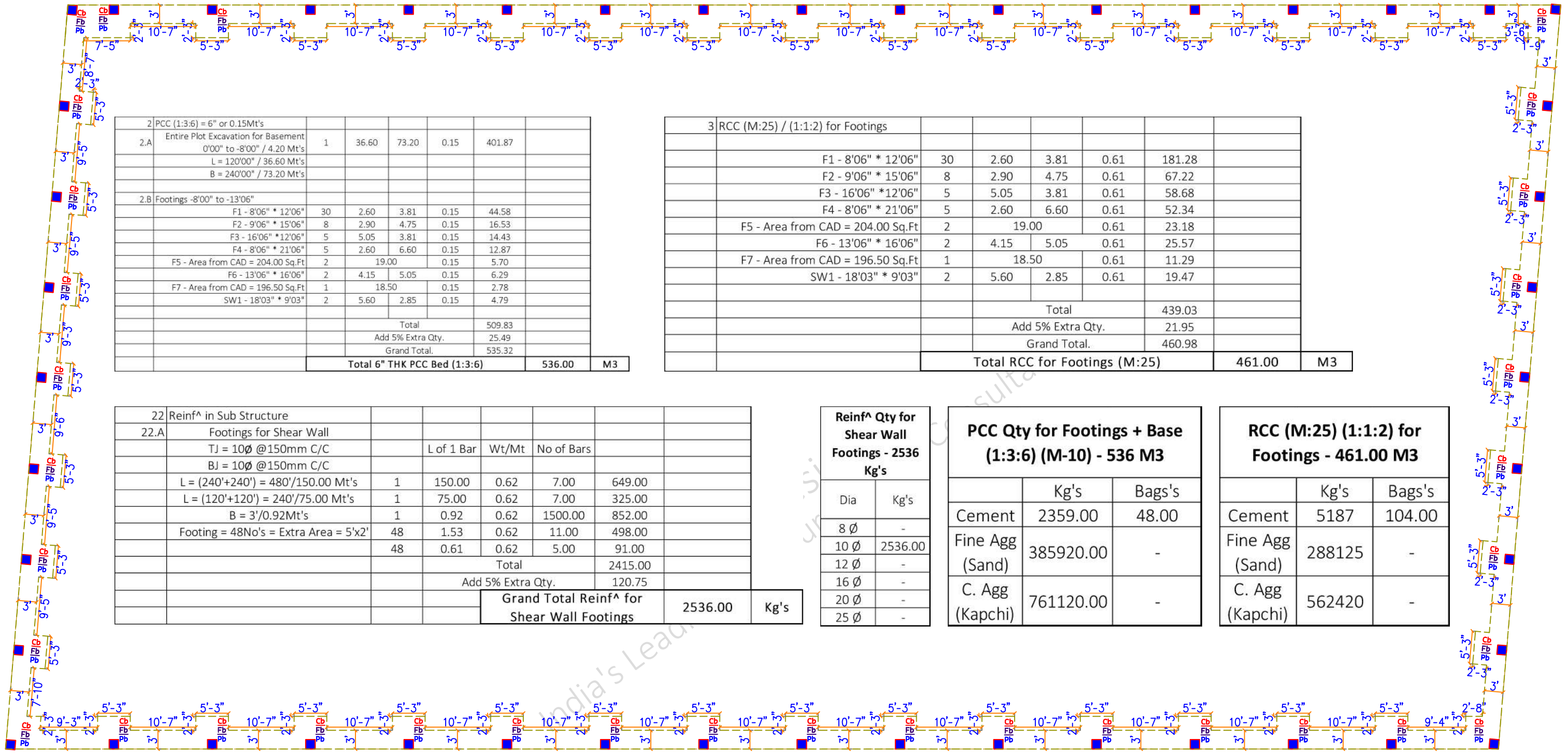
PROJECT BY:-
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2	PCC (1:3:6) = 6" or 0.15Mt's						
2.A	Entire Plot Excavation for Basement 0'00" to -8'00" / 4.20 Mt's	1	36.60	73.20	0.15	401.87	
	L = 120'00" / 36.60 Mt's						
	B = 240'00" / 73.20 Mt's						
2.B	Footings -8'00" to -13'06"						
	F1 - 8'06" * 12'06"	30	2.60	3.81	0.15	44.58	
	F2 - 9'06" * 15'06"	8	2.90	4.75	0.15	16.53	
	F3 - 16'06" *12'06"	5	5.05	3.81	0.15	14.43	
	F4 - 8'06" * 21'06"	5	2.60	6.60	0.15	12.87	
	F5 - Area from CAD = 204.00 Sq.Ft	2	19.00		0.15	5.70	
	F6 - 13'06" * 16'06"	2	4.15	5.05	0.15	6.29	
	F7 - Area from CAD = 196.50 Sq.Ft	1	18.50		0.15	2.78	
	SW1 - 18'03" * 9'03"	2	5.60	2.85	0.15	4.79	
			Total			509.83	
			Add 5% Extra Qty.			25.49	
			Grand Total.			535.32	
		Total 6" THK PCC Bed (1:3:6)				536.00	M3

3	RCC (M:25) / (1:1:2) for Footings						
	F1 - 8'06" * 12'06"	30	2.60	3.81	0.61	181.28	
	F2 - 9'06" * 15'06"	8	2.90	4.75	0.61	67.22	
	F3 - 16'06" *12'06"	5	5.05	3.81	0.61	58.68	
	F4 - 8'06" * 21'06"	5	2.60	6.60	0.61	52.34	
	F5 - Area from CAD = 204.00 Sq.Ft	2	19.00		0.61	23.18	
	F6 - 13'06" * 16'06"	2	4.15	5.05	0.61	25.57	
	F7 - Area from CAD = 196.50 Sq.Ft	1	18.50		0.61	11.29	
	SW1 - 18'03" * 9'03"	2	5.60	2.85	0.61	19.47	
			Total			439.03	
			Add 5% Extra Qty.			21.95	
			Grand Total.			460.98	
		Total RCC for Footings (M:25)				461.00	M3

22	Reinf^ in Sub Structure					
22.A	Footings for Shear Wall					
	TJ = 10Ø @150mm C/C		L of 1 Bar	Wt/Mt	No of Bars	
	BJ = 10Ø @150mm C/C					
	L = (240'+240') = 480'/150.00 Mt's	1	150.00	0.62	7.00	649.00
	L = (120'+120') = 240'/75.00 Mt's	1	75.00	0.62	7.00	325.00
	B = 3'/0.92Mt's	1	0.92	0.62	1500.00	852.00
	Footing = 48No's = Extra Area = 5'x2'	48	1.53	0.62	11.00	498.00
		48	0.61	0.62	5.00	91.00
			Total			2415.00
			Add 5% Extra Qty.			120.75
		Grand Total Reinf^ for Shear Wall Footings				2536.00 Kg's

Reinf^ Qty for Shear Wall Footings - 2536 Kg's

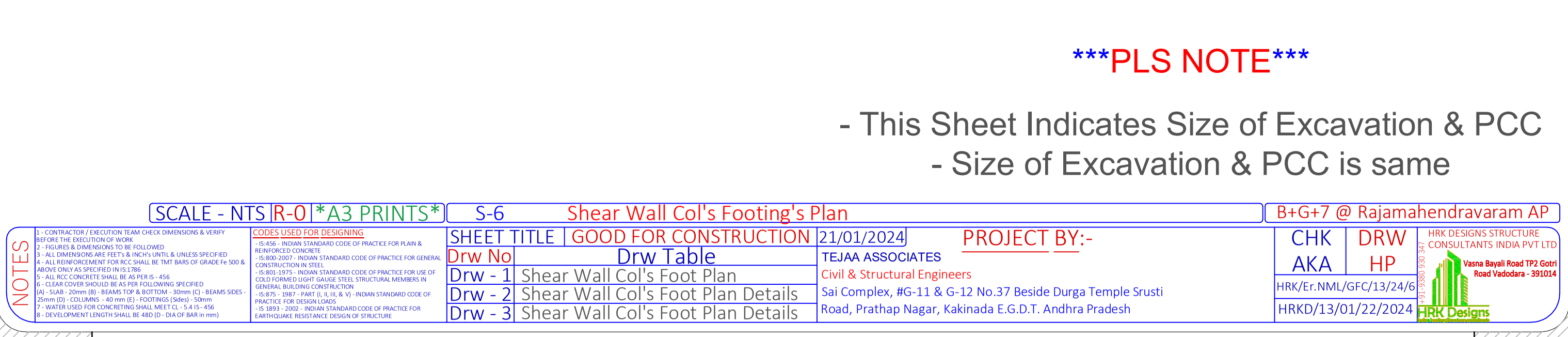
Dia	Kg's
8 Ø	-
10 Ø	2536.00
12 Ø	-
16 Ø	-
20 Ø	-
25 Ø	-

PCC Qty for Footings + Base (1:3:6) (M-10) - 536 M3

	Kg's	Bags's
Cement	2359.00	48.00
Fine Agg (Sand)	385920.00	-
C. Agg (Kapchi)	761120.00	-

RCC (M:25) (1:1:2) for Footings - 461.00 M3

	Kg's	Bags's
Cement	5187	104.00
Fine Agg (Sand)	288125	-
C. Agg (Kapchi)	562420	-



PLS NOTE

- This Sheet Indicates Size of Excavation & PCC
- Size of Excavation & PCC is same

SCALE - NTS | R-0 | *A3 PRINTS* | S-6 | Shear Wall Col's Footing's Plan | B+G+7 @ Rajamahendravaram AP

NOTES

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Shear Wall Col's Foot Plan
Drw - 2	Shear Wall Col's Foot Plan Details
Drw - 3	Shear Wall Col's Foot Plan Details

PROJECT BY:-
TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

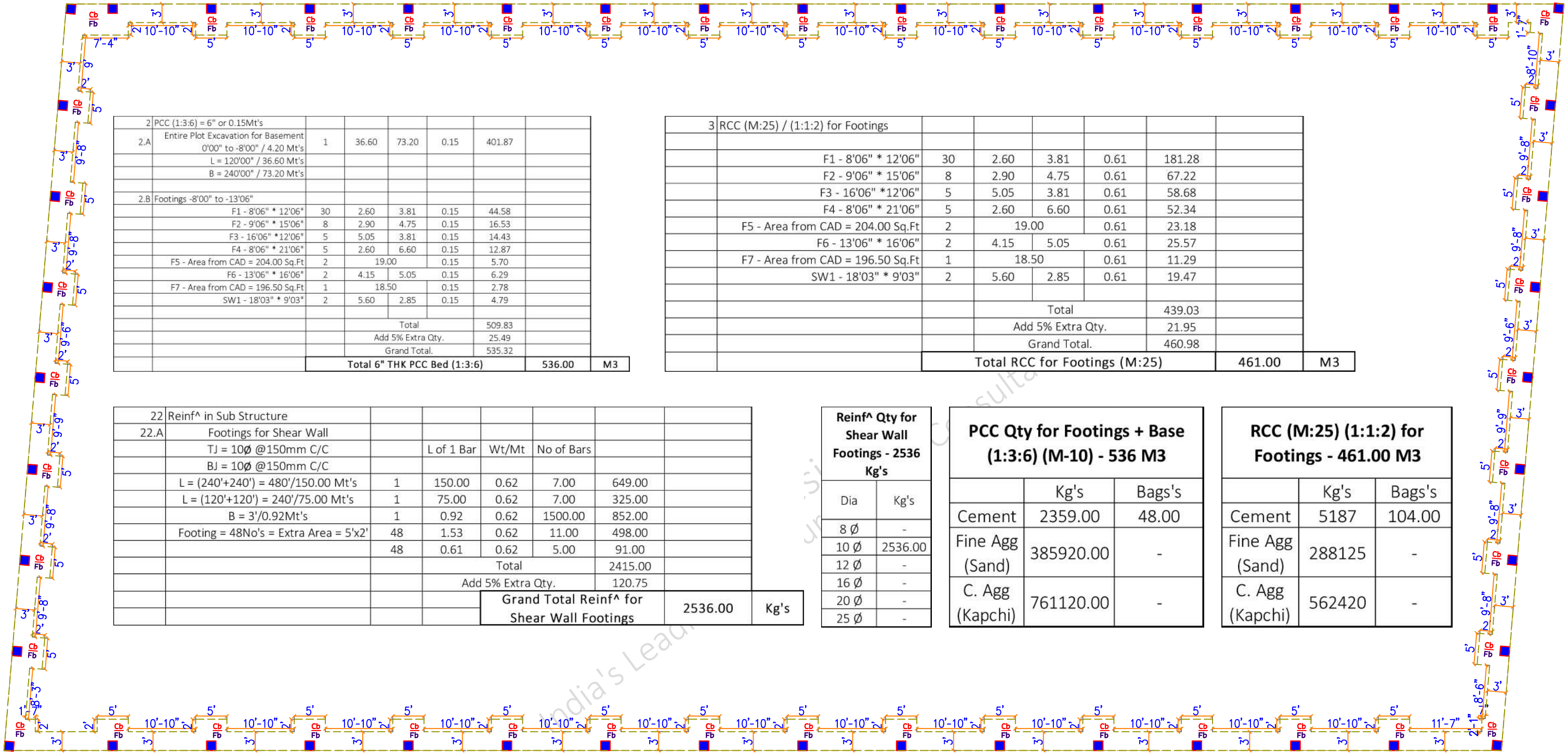
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ARCHITECT WORKINGS DRAWINGS RIGHTS RESERVED BY TEJAA ASSOCIATES & TEAM



2	PCC (1:3:6) = 6" or 0.15Mt's						
2.A	Entire Plot Excavation for Basement 0'00" to -8'00" / 4.20 Mt's	1	36.60	73.20	0.15	401.87	
	L = 120'00" / 36.60 Mt's						
	B = 240'00" / 73.20 Mt's						
2.B	Footings -8'00" to -13'06"						
	F1 - 8'06" * 12'06"	30	2.60	3.81	0.15	44.58	
	F2 - 9'06" * 15'06"	8	2.90	4.75	0.15	16.53	
	F3 - 16'06" *12'06"	5	5.05	3.81	0.15	14.43	
	F4 - 8'06" * 21'06"	5	2.60	6.60	0.15	12.87	
	F5 - Area from CAD = 204.00 Sq.Ft	2	19.00		0.15	5.70	
	F6 - 13'06" * 16'06"	2	4.15	5.05	0.15	6.29	
	F7 - Area from CAD = 196.50 Sq.Ft	1	18.50		0.15	2.78	
	SW1 - 18'03" * 9'03"	2	5.60	2.85	0.15	4.79	
				Total		509.83	
				Add 5% Extra Qty.		25.49	
				Grand Total.		535.32	
	Total 6" THK PCC Bed (1:3:6)					**536.00**	**M3**

3	RCC (M:25) / (1:1:2) for Footings						
	F1 - 8'06" * 12'06"	30	2.60	3.81	0.61	181.28	
	F2 - 9'06" * 15'06"	8	2.90	4.75	0.61	67.22	
	F3 - 16'06" *12'06"	5	5.05	3.81	0.61	58.68	
	F4 - 8'06" * 21'06"	5	2.60	6.60	0.61	52.34	
	F5 - Area from CAD = 204.00 Sq.Ft	2	19.00		0.61	23.18	
	F6 - 13'06" * 16'06"	2	4.15	5.05	0.61	25.57	
	F7 - Area from CAD = 196.50 Sq.Ft	1	18.50		0.61	11.29	
	SW1 - 18'03" * 9'03"	2	5.60	2.85	0.61	19.47	
				Total		439.03	
				Add 5% Extra Qty.		21.95	
				Grand Total.		460.98	
	Total RCC for Footings (M:25)					**461.00**	**M3**

22	Reinf^ in Sub Structure					
22.A	Footings for Shear Wall					
	TJ = 10Ø @150mm C/C		L of 1 Bar	Wt/Mt	No of Bars	
	BJ = 10Ø @150mm C/C					
	L = (240'+240') = 480'/150.00 Mt's	1	150.00	0.62	7.00	649.00
	L = (120'+120') = 240'/75.00 Mt's	1	75.00	0.62	7.00	325.00
	B = 3'/0.92Mt's	1	0.92	0.62	1500.00	852.00
	Footing = 48No's = Extra Area = 5'x2'	48	1.53	0.62	11.00	498.00
		48	0.61	0.62	5.00	91.00
			Total			2415.00
			Add 5% Extra Qty.			120.75
			Grand Total Reinf^ for Shear Wall Footings			**2536.00** Kg's

Reinf^ Qty for Shear Wall Footings - 2536 Kg's

Dia	Kg's
8 Ø	-
10 Ø	2536.00
12 Ø	-
16 Ø	-
20 Ø	-
25 Ø	-

PCC Qty for Footings + Base (1:3:6) (M-10) - 536 M3

	Kg's	Bags's
Cement	2359.00	48.00
Fine Agg (Sand)	385920.00	-
C. Agg (Kapchi)	761120.00	-

RCC (M:25) (1:1:2) for Footings - 461.00 M3

	Kg's	Bags's
Cement	5187	104.00
Fine Agg (Sand)	288125	-
C. Agg (Kapchi)	562420	-

PLS NOTE

- This Sheet Indicates Size of Footings
- Size of Footings

SCALE - NTS | R-0 | *A3 PRINTS* | S-7 | Shear Wall Col's Footing's Plan | B+G+7 @ Rajamahendravaram AP

NOTES

1 - CONTRACTOR / EXECUTION TEAM CHECK DIMENSIONS & VERIFY BEFORE THE EXECUTION OF WORK
2 - FIGURES & DIMENSIONS TO BE FOLLOWED
3 - ALL DIMENSONS ARE FEET's & INCH's UNTIL & UNLESS SPECIFIED
4 - ALL REINFORCEMENT FOR RCC SHALL BE TMT BARS OF GRADE Fe 500 & ABOVE ONLY AS SPECIFIED IN IS:1786
5 - ALL RCC CONCRETE SHALL BE AS PER IS - 456
6 - CLEAR COVER SHOULD BE AS PER FOLLOWING SPECIFIED
(A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
7 - WATER USED FOR CONCRETING SHALL MEET CL - 5.4 IS - 456
8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

CODES USED FOR DESIGNING
- IS:456 - INDIAN STANDARD CODE OF PRACTICE FOR PLAIN & REINFORCED CONCRETE
- IS:800-2007 - INDIAN STANDARD CODE OF PRACTICE FOR GENERAL CONSTRUCTION IN STEEL
- IS:801-1975 - INDIAN STANDARD CODE OF PRACTICE FOR USE OF COLD FORMED LIGHT GAUGE STEEL STRUCTURAL MEMBERS IN GENERAL BUILDING CONSTRUCTION
- IS:875 - 1987 - PART (I, II, III, & V) - INDIAN STANDARD CODE OF PRACTICE FOR DESIGN LOADS
- IS 1893 - 2002 - INDIAN STANDARD CODE OF PRACTICE FOR EARTHQUAKE RESISTANCE DESIGN OF STRUCTURE

SHEET TITLE	GOOD FOR CONSTRUCTION
Drw No	Drw Table
Drw - 1	Shear Wall Col's Foot Plan
Drw - 2	Shear Wall Col's Foot Plan Details
Drw - 3	Shear Wall Col's Foot Plan Details

21/01/2024

PROJECT BY:-

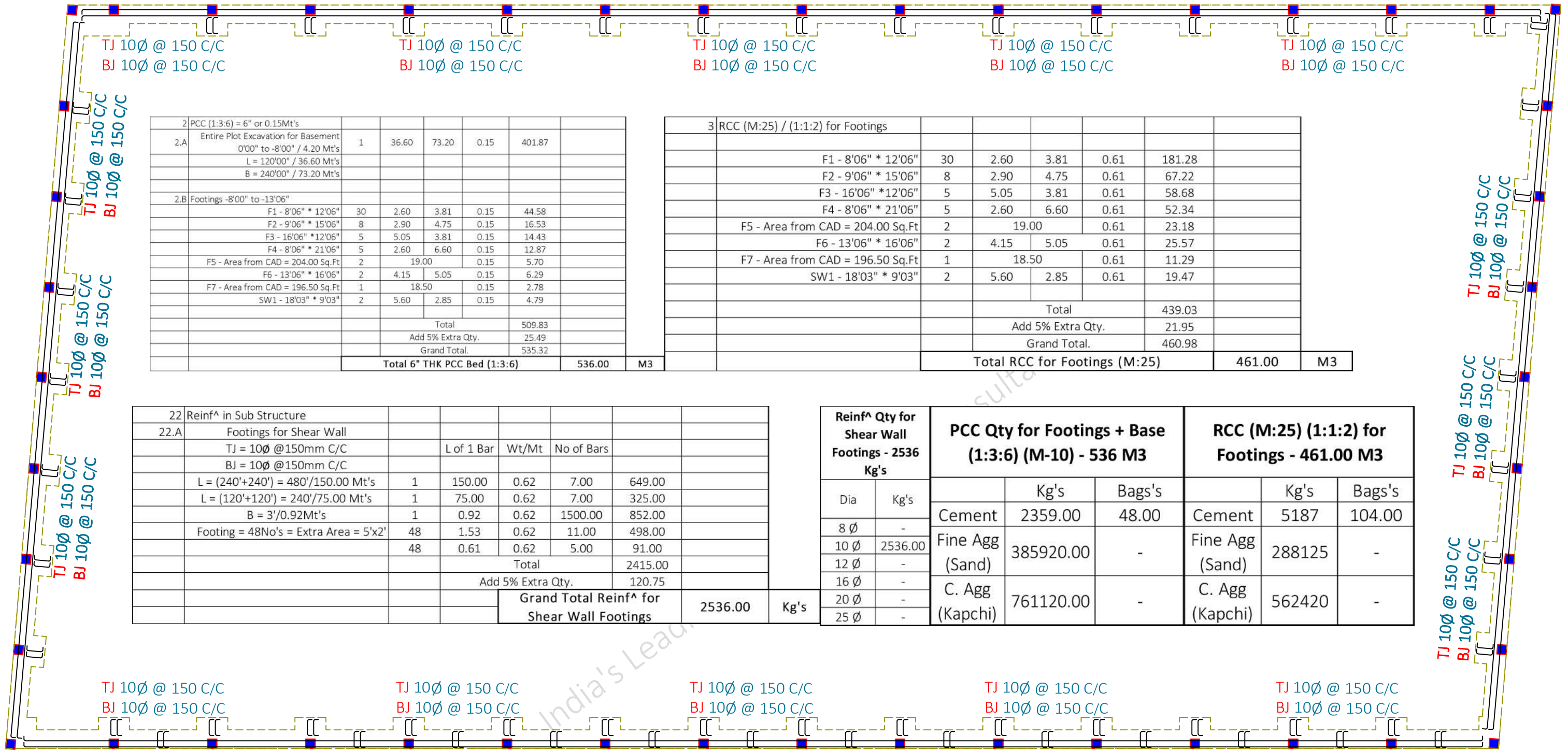
TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

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2	PCC (1:3:6) = 6" or 0.15Mt's						
2.A	Entire Plot Excavation for Basement 0'00" to -8'00" / 4.20 Mt's	1	36.60	73.20	0.15	401.87	
	L = 120'00" / 36.60 Mt's						
	B = 240'00" / 73.20 Mt's						
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	F5 - Area from CAD = 204.00 Sq.Ft	2	19.00		0.15	5.70	
	F6 - 13'06" * 16'06"	2	4.15	5.05	0.15	6.29	
	F7 - Area from CAD = 196.50 Sq.Ft	1	18.50		0.15	2.78	
	SW1 - 18'03" * 9'03"	2	5.60	2.85	0.15	4.79	
				Total		509.83	
				Add 5% Extra Qty.		25.49	
				Grand Total.		535.32	
	Total 6" THK PCC Bed (1:3:6)					536.00	M3

3	RCC (M:25) / (1:1:2) for Footings						
	F1 - 8'06" * 12'06"	30	2.60	3.81	0.61	181.28	
	F2 - 9'06" * 15'06"	8	2.90	4.75	0.61	67.22	
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	F4 - 8'06" * 21'06"	5	2.60	6.60	0.61	52.34	
	F5 - Area from CAD = 204.00 Sq.Ft	2	19.00		0.61	23.18	
	F6 - 13'06" * 16'06"	2	4.15	5.05	0.61	25.57	
	F7 - Area from CAD = 196.50 Sq.Ft	1	18.50		0.61	11.29	
	SW1 - 18'03" * 9'03"	2	5.60	2.85	0.61	19.47	
			Total			439.03	
			Add 5% Extra Qty.			21.95	
			Grand Total.			460.98	
	Total RCC for Footings (M:25)					461.00	M3

22	Reinf^ in Sub Structure						
22.A	Footings for Shear Wall						
	TJ = 10Ø @150mm C/C		L of 1 Bar	Wt/Mt	No of Bars		
	BJ = 10Ø @150mm C/C						
	L = (240'+240') = 480'/150.00 Mt's	1	150.00	0.62	7.00	649.00	
	L = (120'+120') = 240'/75.00 Mt's	1	75.00	0.62	7.00	325.00	
	B = 3'/0.92Mt's	1	0.92	0.62	1500.00	852.00	
	Footing = 48No's = Extra Area = 5'x2'	48	1.53	0.62	11.00	498.00	
		48	0.61	0.62	5.00	91.00	
			Total			2415.00	
			Add 5% Extra Qty.			120.75	
			Grand Total Reinf^ for Shear Wall Footings			2536.00	Kg's

Reinf^ Qty for Shear Wall Footings - 2536 Kg's	
Dia	Kg's
8 Ø	-
10 Ø	2536.00
12 Ø	-
16 Ø	-
20 Ø	-
25 Ø	-

PCC Qty for Footings + Base (1:3:6) (M-10) - 536 M3		
	Kg's	Bags's
Cement	2359.00	48.00
Fine Agg (Sand)	385920.00	-
C. Agg (Kapchi)	761120.00	-

RCC (M:25) (1:1:2) for Footings - 461.00 M3		
	Kg's	Bags's
Cement	5187	104.00
Fine Agg (Sand)	288125	-
C. Agg (Kapchi)	562420	-

PLS NOTE

- This Sheet Indicates Size of Footings
- Size of Footings

SCALE - NTS | R-0 | *A3 PRINTS* | S-8 | Shear Wall Col's Footing's Plan | B+G+7 @ Rajamahendravaram AP

NOTES

1 - CONTRACTOR / EXECUTION TEAM CHECK DIMENSIONS & VERIFY BEFORE THE EXECUTION OF WORK
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3 - ALL DIMENSIONS ARE FEET's & INCH's UNTIL & UNLESS SPECIFIED
4 - ALL REINFORCEMENT FOR RCC SHALL BE TMT BARS OF GRADE Fe 500 & ABOVE ONLY AS SPECIFIED IN IS:1786
5 - ALL RCC CONCRETE SHALL BE AS PER IS - 456
6 - CLEAR COVER SHOULD BE AS PER FOLLOWING SPECIFIED (A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
7 - WATER USED FOR CONCRETING SHALL MEET CL - 5.4 IS - 456
8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

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- IS 1893 - 2002 - INDIAN STANDARD CODE OF PRACTICE FOR EARTHQUAKE RESISTANCE DESIGN OF STRUCTURE

SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Shear Wall Col's Foot Plan
Drw - 2	Shear Wall Col's Foot Plan Details
Drw - 3	Shear Wall Col's Foot Plan Details

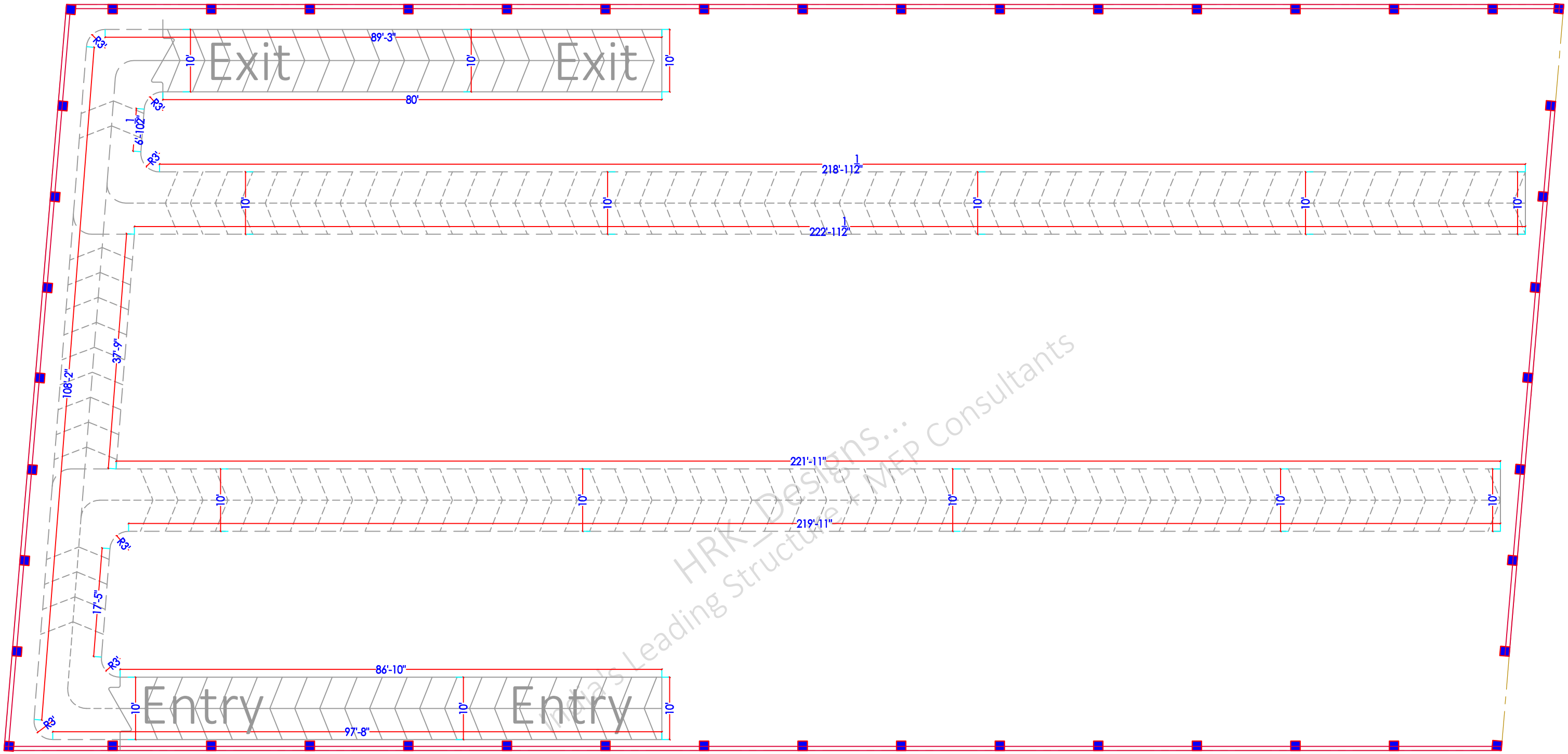
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TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

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PLS NOTE

- This Sheet Indicates Entry & Exit in Basement Parking Area

SCALE - NTS | R-0 | *A3 PRINTS* | S-9 Basement Plan | B+G+7 @ Rajamahendravaram AP

NOTES

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8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Basement Entry & Exit Plan
Drw - 2	Basement Internal Road Plan
Drw - 3	

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

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AKA	HP

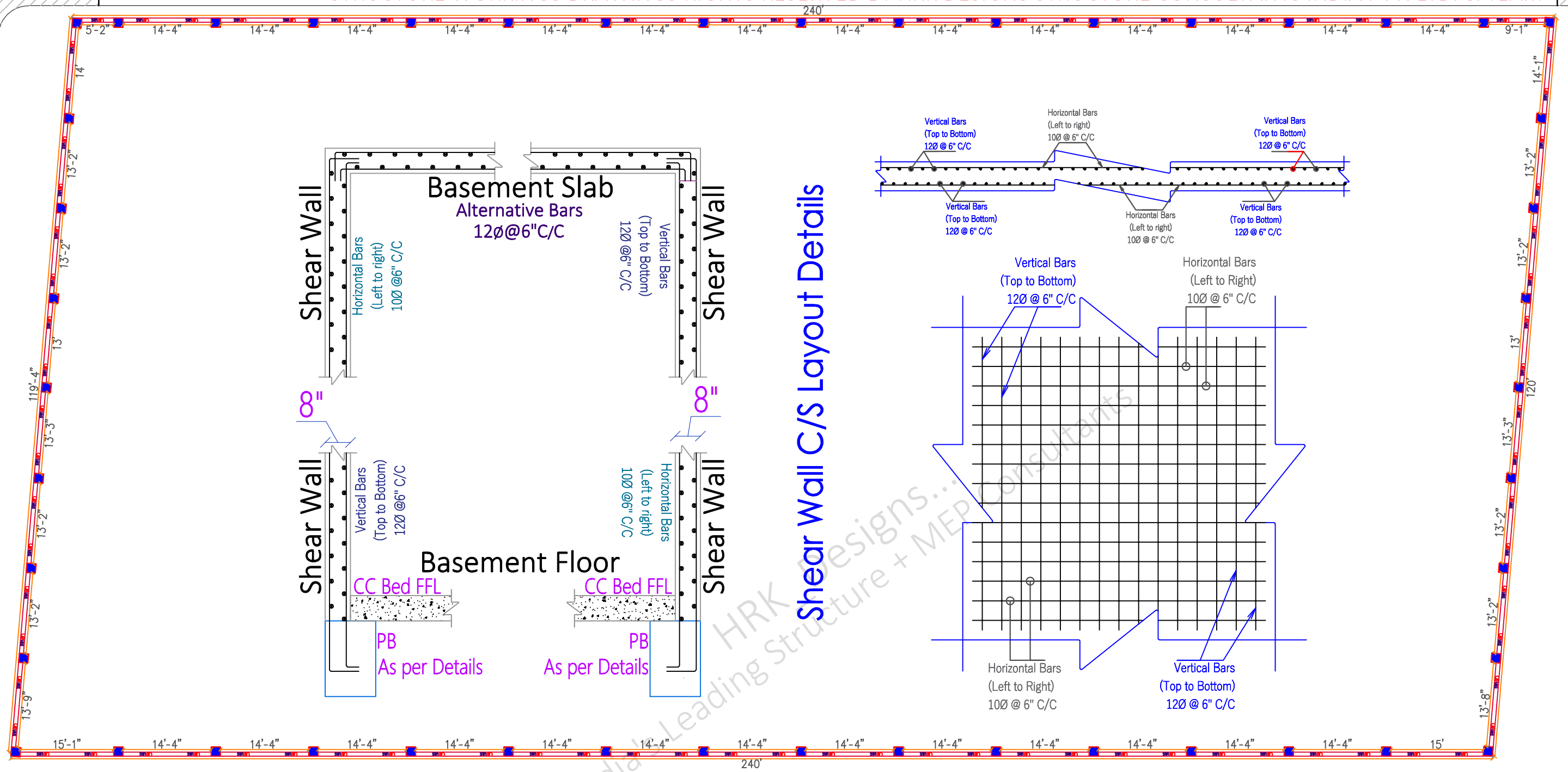
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PLS NOTE

- Pls Follow Architects Basement Cross Section for Heights/Depths

Shear Wall Layout in Basement

SW = Shear Wall = 8" THK Wall

PLS NOTE

- This Sheet Indicates Shear Wall Layout inside Basement

SCALE - NTS	R-0	*A3 PRINTS*	S-10 Basement Shear Wall Plan Layout & Details	B+G+7 @ Rajamahendravaram AP

NOTES

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6 - CLEAR COVER SHOULD BE AS PER FOLLOWING SPECIFIED
(A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
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SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	Basement SW Plan	
Drw - 2	Basement SW Details	
Drw - 3		

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

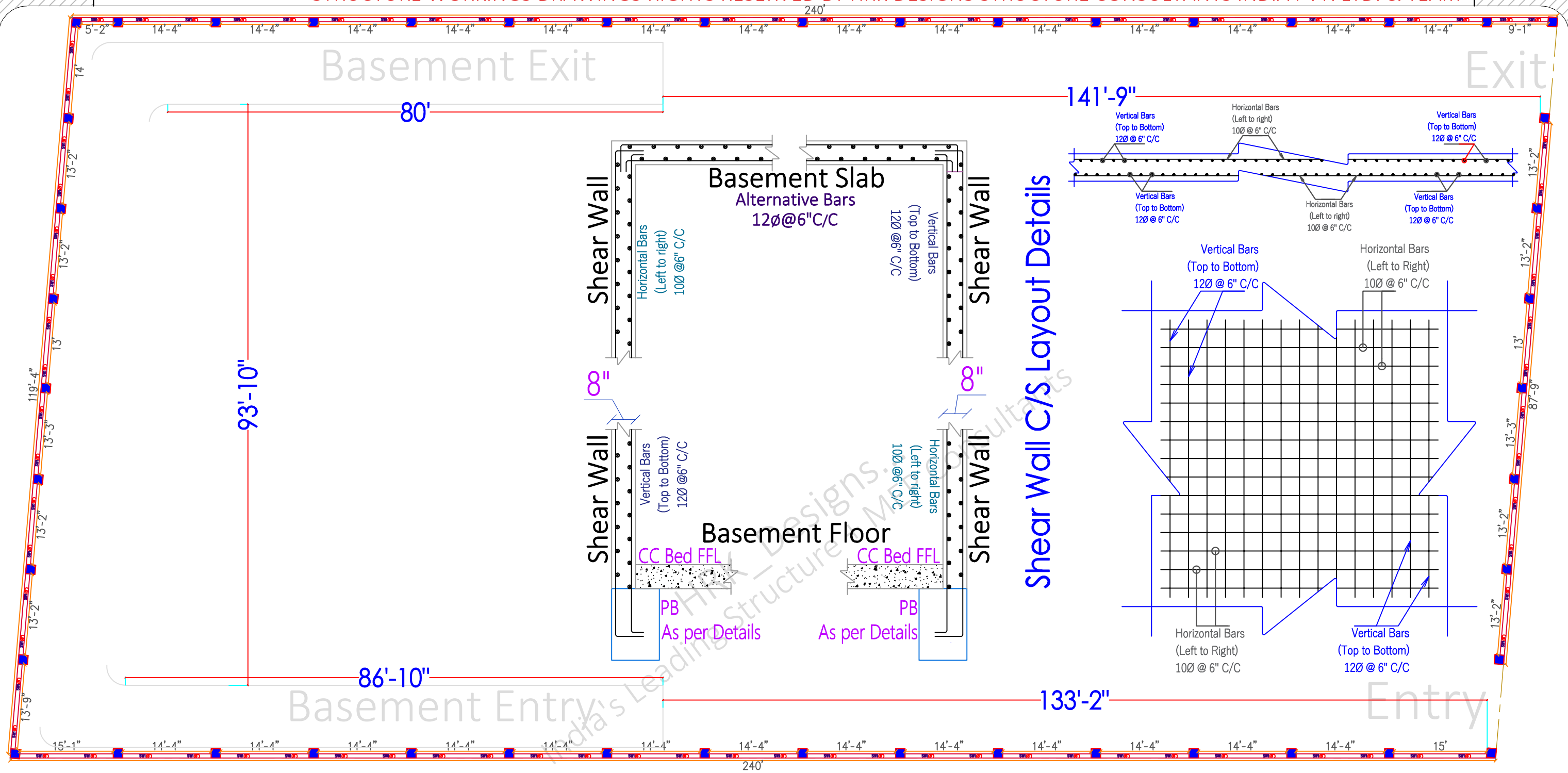
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HRKD/13/01/22/2024	

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HRK Designs - India's Leading Structural Consultants

PLS NOTE

- Pls Follow Architects Basement Cross Section for Heights/Depths

Shear Wall Layout in Basement

SW = Shear Wall = 8" THK Wall

SW above NGL = 1'06"

Brick Masonry above SW

PLS NOTE

- This Sheet Indicates Shear Wall Layout above Ground LVL

SCALE - NTS	R-0	*A3 PRINTS*	S-11	Basement Shear Wall Plan Layout & Details	B+G+7 @ Rajamahendravaram AP

NOTES

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SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024

Drw No	Drw Table
Drw - 1	Basement SW Plan
Drw - 2	Basement SW Details
Drw - 3	

PROJECT BY:-

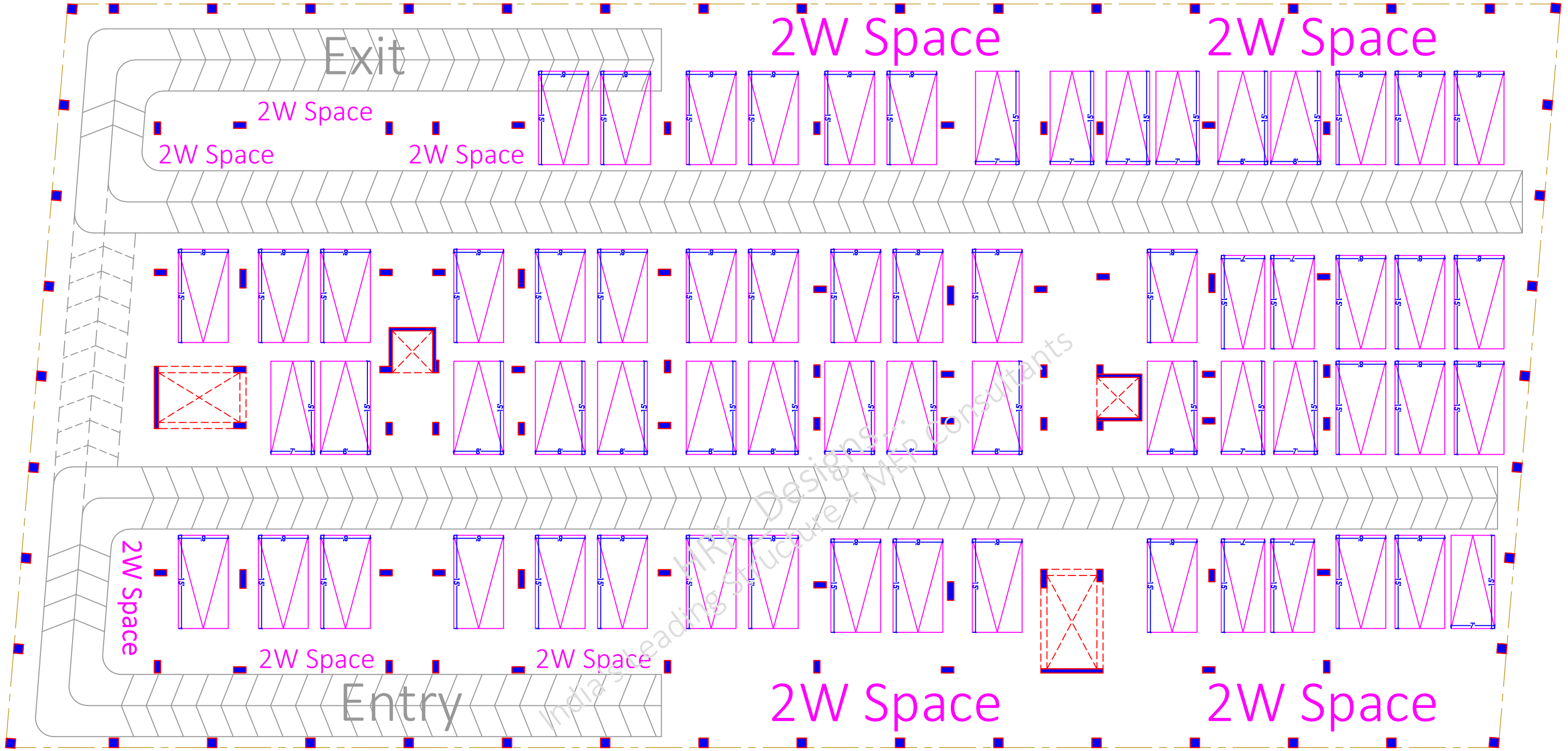
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Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

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HRK Designs... India's Leading Structure + MEP Consultants

PLS NOTE

- Num of Flat's = 56
- Car Park Req^ = 56
- Park Provided = *65*

Total 65 Car Park

8' * 15' = 53#

7' * 15' = 12#

PLS NOTE

- This Sheet Indicates Num of 4W &2W in Parking Area

SCALE - NTS | R-0 | *A3 PRINTS* | S-12 | Basement Car Parking Layout & Plan | B+G+7 @ Rajamahendravaram AP

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(A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
7 - WATER USED FOR CONCRETING SHALL MEET CL - 5.4 IS - 456
8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

CODES USED FOR DESIGNING
- IS:456 - INDIAN STANDARD CODE OF PRACTICE FOR PLAIN & REINFORCED CONCRETE
- IS:800-2007 - INDIAN STANDARD CODE OF PRACTICE FOR GENERAL CONSTRUCTION IN STEEL
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- IS 1893 - 2002 - INDIAN STANDARD CODE OF PRACTICE FOR EARTHQUAKE RESISTANCE DESIGN OF STRUCTURE

SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Basement Car Park Plan
Drw - 2	Basement Car Park Layout
Drw - 3	Calc^ for Car Park Layout

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

CHK AKA	DRW HP
HRK/Er.NML/GFC/13/24/6	HRKD/13/01/22/2024

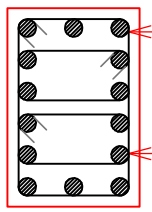
HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT LTD
Vasna Bayali Road TP2 Gotri Road Vadodara - 391014
+91-9380 930 347
HRK Designs

ARCHITECT WORKINGS DRAWINGS RIGHTS RESERVED BY TEJAA ASSOCIATES & TEAM

STRUCTURE WORKINGS DRAWINGS RIGHTS RESERVED BY HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT. LTD. & TEAM

Col's Details for Basement & Stilt Slab LVL only

C1 - 1'00" x 2'00"

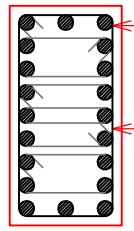


C1 - 1'00" x 2'00" - 2.45%



3 Ring's (3 Rectangle)

C2 - 1'00" x 3'00"

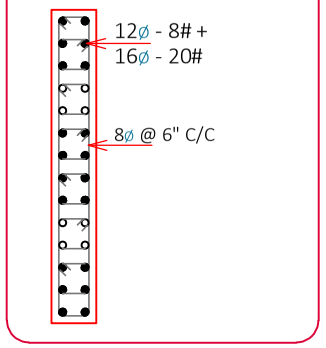


C2 - 1'00" x 3'00" - 2.32%

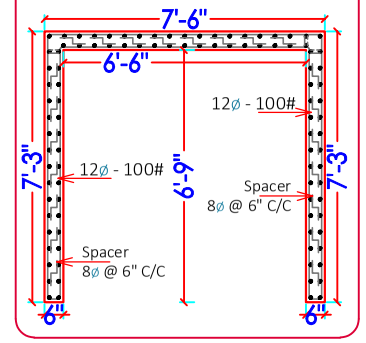


3 Ring's (3 Rectangle)

SW`1 = 8" x 10'

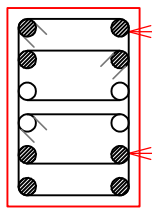


LW1 = As per Details



Col's Details for GF, FF & SF Slab LVL only

C1 - 9" x 2'00"

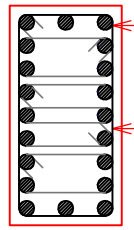


C1 - 9" x 2'00" - 2.40%



3 Ring's (3 Rectangle)

C2 - 1'00" x 3'00"

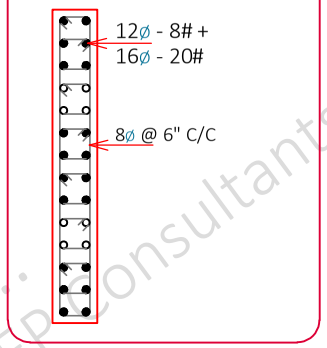


C2 - 1'00" x 3'00" - 2.32%

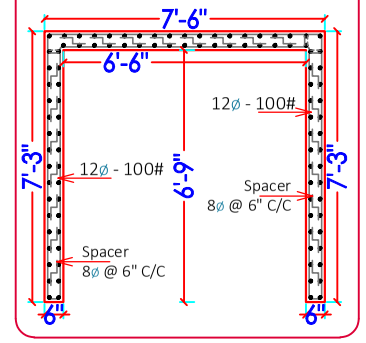


3 Ring's (3 Rectangle)

SW`1 = 8" x 10'

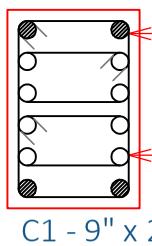


LW1 = As per Details



Col's Details for 3rd, 4th & 5th Slab LVL only

C1 - 9" x 2'00"

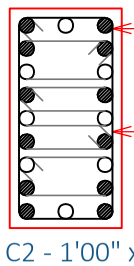


C1 - 9" x 2'00" - 2.05%



3 Ring's (3 Rectangle)

C2 - 1'00" x 3'00"

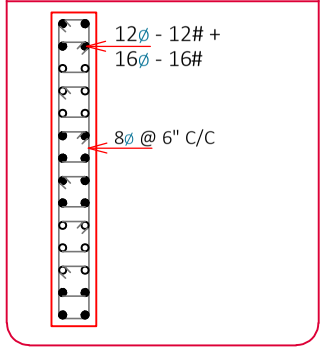


C2 - 1'00" x 3'00" - 1.95%

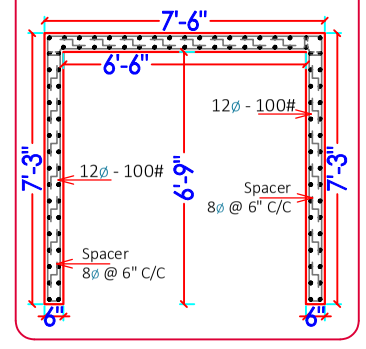


3 Ring's (3 Rectangle)

SW`1 = 8" x 10'

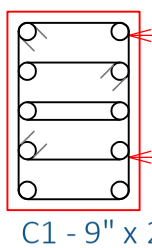


LW1 = As per Details



Col's Details for 6th 7th & Stair & Lift Cabin Slab LVL only

C1 - 9" x 2'00"

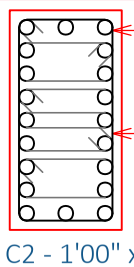


C1 - 9" x 2'00" - 1.45%



3 Ring's (3 Rectangle)

C2 - 1'00" x 3'00"

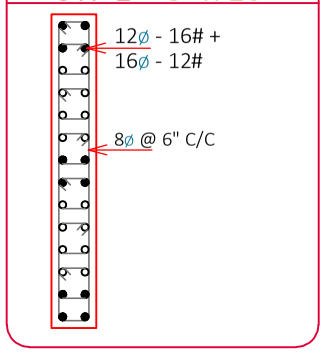


C2 - 1'00" x 3'00" - 1.45%

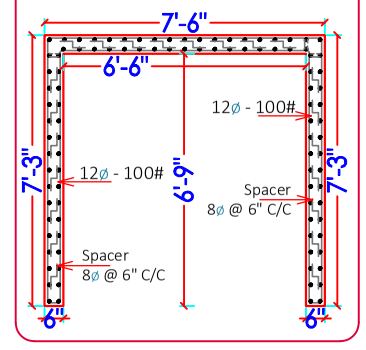


3 Ring's (3 Rectangle)

SW`1 = 8" x 10'



LW1 = As per Details



SCALE - NTS | R-0 | *A3 PRINTS* | S-13 | Col's & Ped's C/S Details | B+G+7 @ Rajamahendravaram AP

NOTES

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5 - ALL RCC CONCRETE SHALL BE AS PER IS - 456
6 - CLEAR COVER SHOULD BE AS PER FOLLOWING SPECIFIED
(A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
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8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

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SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	Col's C/S Details	
Drw - 2	Ped's C/S Details	
Drw - 3		

PROJECT BY:-
TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

CHK	DRW
AKA	HP
HRK/Er.NML/GFC/13/24/6	
HRKD/13/01/22/2024	

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+91-93801 93047

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STRUCTURE WORKINGS DRAWINGS RIGHTS RESERVED BY HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT. LTD. & TEAM

COLUMN's TABLE

Sr. No	Floor / Story	Col's Name	Col's Size	Num of Col's	Col's Reinf^	Concrete (Grade)	Reinforcement (Grade)
1	Basement + Stilt	C-1	1' * 2'	60	20Ø - 14#	M:25 (1:1:2)	Fy:500
2		C-2	1' * 3'	08	20Ø - 20#		
3		SW'1	8" * 10'	02	12Ø - 8# + 16Ø - 20#		
4		LW'1	As per Details	02	12Ø - 100#		
5	GF + FF + SF	C-1	1' * 2'	60	16Ø - 4# + 20Ø - 8#	M:25 (1:1:2)	Fy:500
6		C-2	1' * 3'	08	20Ø - 20#		
7		SW'1	8" * 10'	02	12Ø - 12# + 16Ø - 16#		
8		LW'1	As per Details	02	12Ø - 100#		
9	3rd + 4th + 5th	C-1	1' * 2'	60	16Ø - 4# + 20Ø - 8#	M:25 (1:1:2)	Fy:500
10		C-2	1' * 3'	08	16Ø - 8# + 20Ø - 12#		
11		SW'1	8" * 10'	02	12Ø - 12# + 16Ø - 16#		
12		LW'1	As per Details	02	12Ø - 100#		
13	6rd + 7th + Stair & Lift Cabin	C-1	1' * 2'	60	16Ø - 10#	M:25 (1:1:2)	Fy:500
14		C-2	1' * 3'	08	16Ø - 8# + 20Ø - 12#		
15		SW'1	8" * 10'	02	12Ø - 12# + 16Ø - 16#		
16		LW'1	As per Details	02	12Ø - 100#		

FOOTING's TABLE

Sr. No	Footing's Name	Excavation Size	Footing's Size	Overall depth (D)	Footing's depth (d)	Top Jali (Top Reinf^)	Bottom Jali (Bottom Reinf^)	Concrete (Grade)	Reinforcement (Grade)
1	F-1	8'06" * 12'06"	8'00" * 12'00"	-13'06"	2'00"	12Ø @ 4" C/C	12Ø @ 4" C/C	M:25 (1:1:2)	Fy:500
2	F-2	9'06" * 15'06"	9'00" * 15'00"	-13'06"	2'00"	12Ø @ 4" C/C	12Ø @ 4" C/C		
3	F-3	16'00" * 12'06"	9'00" * 15'00"	-13'06"	2'00"	12Ø @ 4" C/C	12Ø @ 4" C/C		
4	F-4	8'06" * 21'06"	8'00" * 21'00"	-13'06"	2'00"	12Ø @ 4" C/C	12Ø @ 4" C/C		
5	F-5	As per Details		-13'06"	2'00"	12Ø @ 4" C/C	12Ø @ 4" C/C		
6	F-6	13'06" * 16'06"	13'00" * 16'00"	-13'06"	2'00"	12Ø @ 4" C/C	12Ø @ 4" C/C		
7	F-7	As per Details		-13'06"	2'00"	12Ø @ 4" C/C	12Ø @ 4" C/C		
8	SW-1	18'03" * 9'03"	18'00" * 9'00"	-13'06"	2'00"	12Ø @ 4" C/C	12Ø @ 4" C/C		

PEDESTAL's TABLE

Sr. No	Ped's Name	Ped's Size	Ped's height (h)	Num of Ped's	Ped Reinf^	Concrete (Grade)	Reinforcement (Grade)
1	Pe-1	1'06" * 2'09"	4'06"	60	10Ø - 16# + 12Ø - 18#	M:25	Fy:500
2	Pe-2	1'06" * 2'03"	4'06"	08	10Ø - 22# + 12Ø - 26#		
3	Pe-3	11'00" * 1'08"	4'06"	02	10Ø - 36# + 12Ø - 44#		

HRK Designs Structure Consultants India Pvt. Ltd. & Team

SCALE - NTS | R-0 | *A3 PRINTS* | S-14 Table Details | B+G+7 @ Rajamahendravaram AP

NOTES

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(A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
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CODES USED FOR DESIGNING

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SHEET TITLE: GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Col's Table Details
Drw - 2	Footing's Table C/S Details
Drw - 3	Pedestals's Table C/S Details

PROJECT BY:-

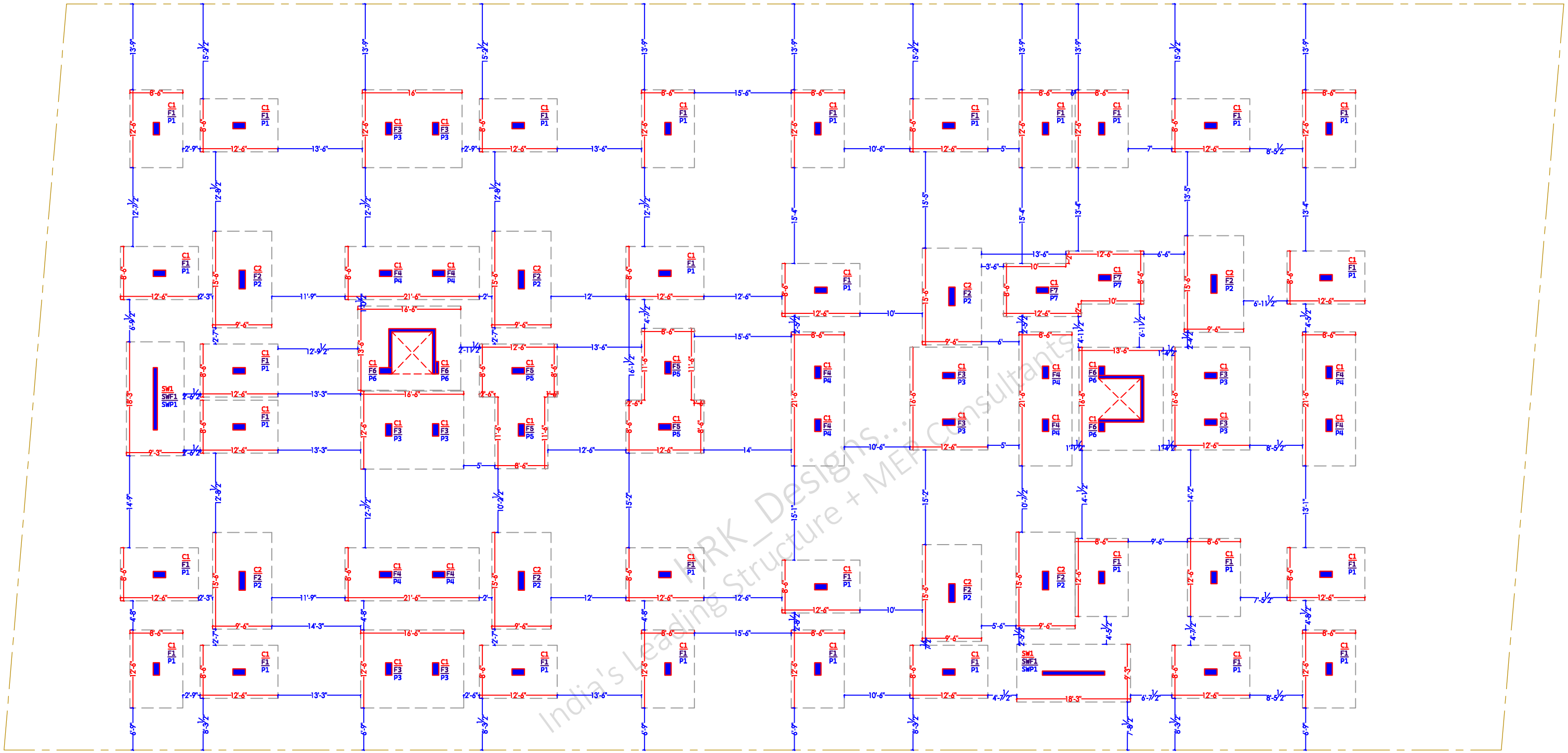
TEJAA ASSOCIATES
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HRK Designs

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STRUCTURE WORKINGS DRAWINGS RIGHTS RESERVED BY HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT. LTD. & TEAM



Total Excavation Depth -13'06"

F1 = 12'06" * 8'06" = 30 No's
F2 = 15'06" * 9'06" = 8 No's
F3 = 12'06" * 16'06" = 5 No's
F4 = 8'06" * 21'06" = 5 No's
F5 = As per Drawing = 2 No's (204.00 Sq.Ft)
F6 = 13'06" * 16'06" = 2 No's
F7 = As per Details = 1 No's (196.50 Sq.Ft)
F8(SW1) = 18'03" * 9'03" = 2 No's

PLS NOTE

- This Sheet Indicates Size of Excavation & PCC

SCALE - NTS | R-0 | *A3 PRINTS* | S-15 | Foot's Plan & Details | B+G+7 @ Rajamahendravaram AP

NOTES
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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Footing's Plan
Drw - 2	Footing's Details
Drw - 3	

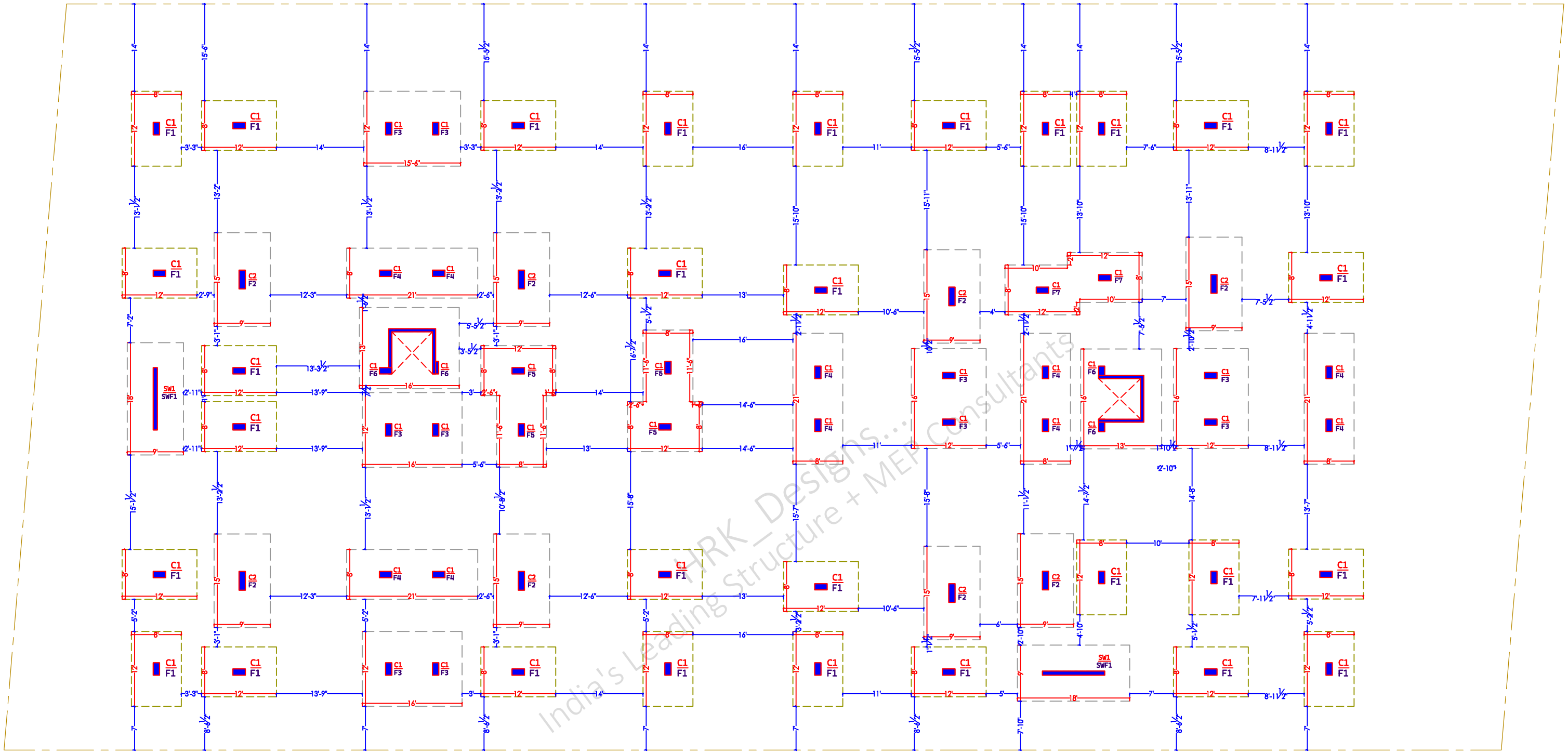
PROJECT BY:-
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+91-9380 930 347

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STRUCTURE WORKINGS DRAWINGS RIGHTS RESERVED BY HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT. LTD. & TEAM



Total Excavation Depth -13'06"

F1 = 12'06" * 8'06" = 30 No's
F2 = 15'06" * 9'06" = 8 No's
F3 = 12'06" * 16'06" = 5 No's
F4 = 8'06" * 21'06" = 5 No's
F5 = As per Details = 2 No's
F6 = 13'06" * 16'06" = 2 No's
F7 = As per Details = 1 No's
F8(SW1) = 18'03" * 9'03" = 2 No's

PLS NOTE

- This Sheet Indicates Size of Footings

SCALE - NTS | R-0 | *A3 PRINTS* | S-16 | Foot's Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Footing's Plan
Drw - 2	Footing's Details
Drw - 3	

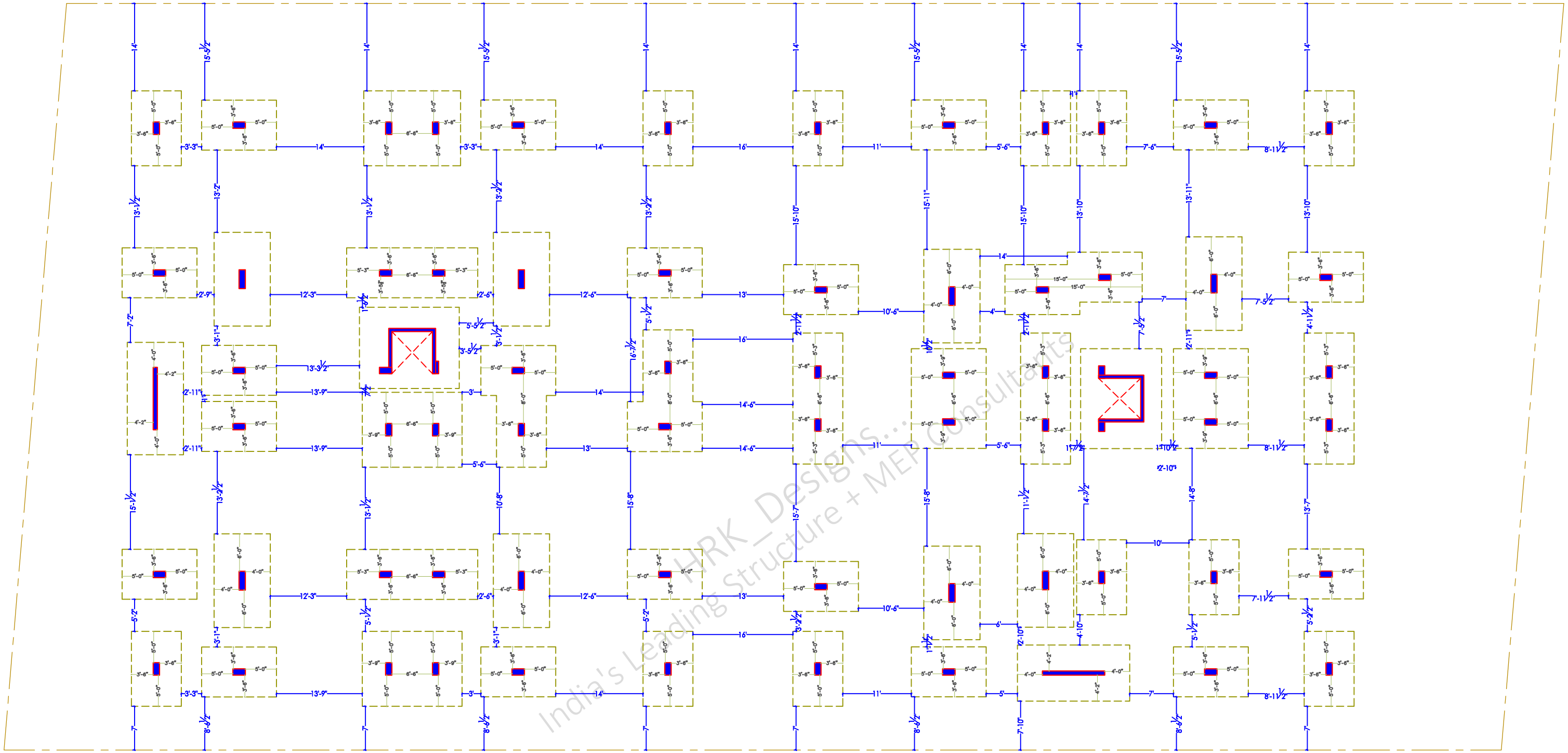
PROJECT BY:-
TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

CHK AKA	DRW HP
HRK/Er.NML/GFC/13/24/6	HRKD/13/01/22/2024

HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT LTD
Vasna Bayali Road TP2 Gotri Road Vadodara - 391014
+91-9380 930 347

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STRUCTURE WORKINGS DRAWINGS RIGHTS RESERVED BY HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT. LTD. & TEAM



Total Excavation Depth -13'06"

F1 = 12'06" * 8'06" = 30 No's
F2 = 15'06" * 9'06" = 8 No's
F3 = 12'06" * 16'06" = 5 No's
F4 = 8'06" * 21'06" = 5 No's
F5 = As per Details = 2 No's
F6 = 13'06" * 16'06" = 2 No's
F7 = As per Details = 1 No's
F8(SW1) = 18'03" * 9'03" = 2 No's

PLS NOTE

- This Sheet Indicates Size of Footings

SCALE - NTS | R-0 | *A3 PRINTS* | S-17 | Foot's Plan & Details | B+G+7 @ Rajamahendravaram AP

NOTES
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5 - ALL RCC CONCRETE SHALL BE AS PER IS - 456
6 - CLEAR COVER SHOULD BE AS PER FOLLOWING SPECIFIED
(A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
7 - WATER USED FOR CONCRETING SHALL MEET CL - 5.4 IS - 456
8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

CODES USED FOR DESIGNING
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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Footing's Plan
Drw - 2	Footing's Details
Drw - 3	

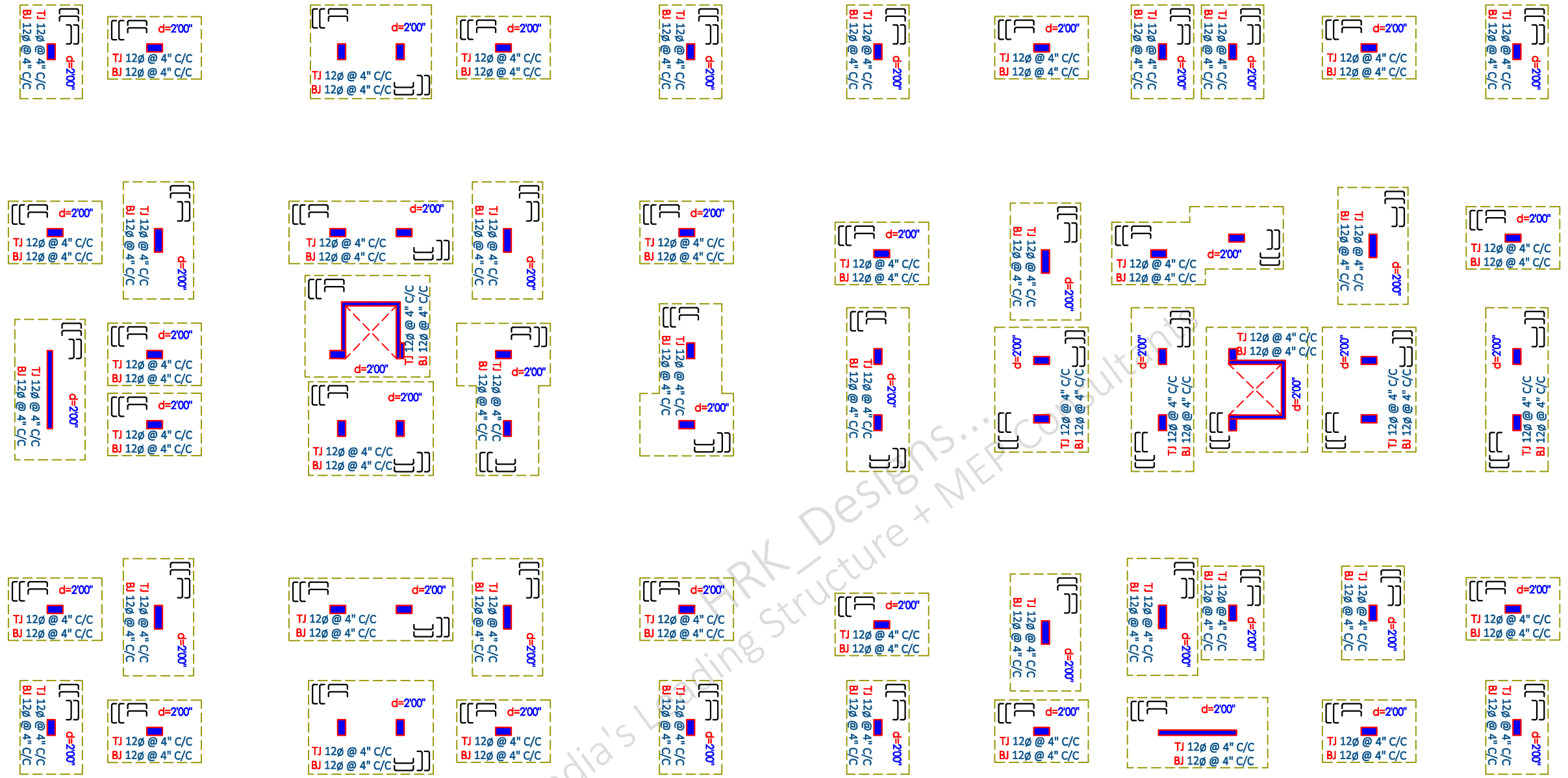
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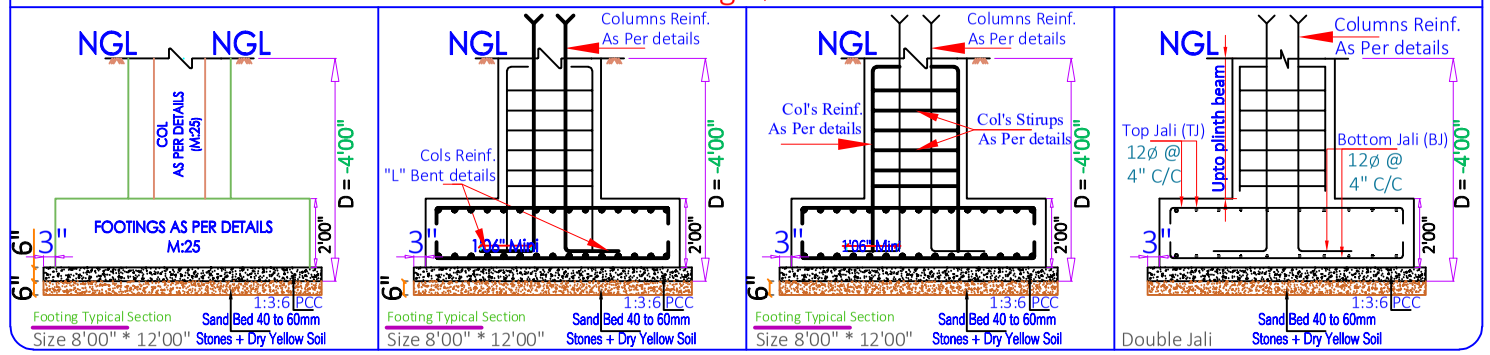
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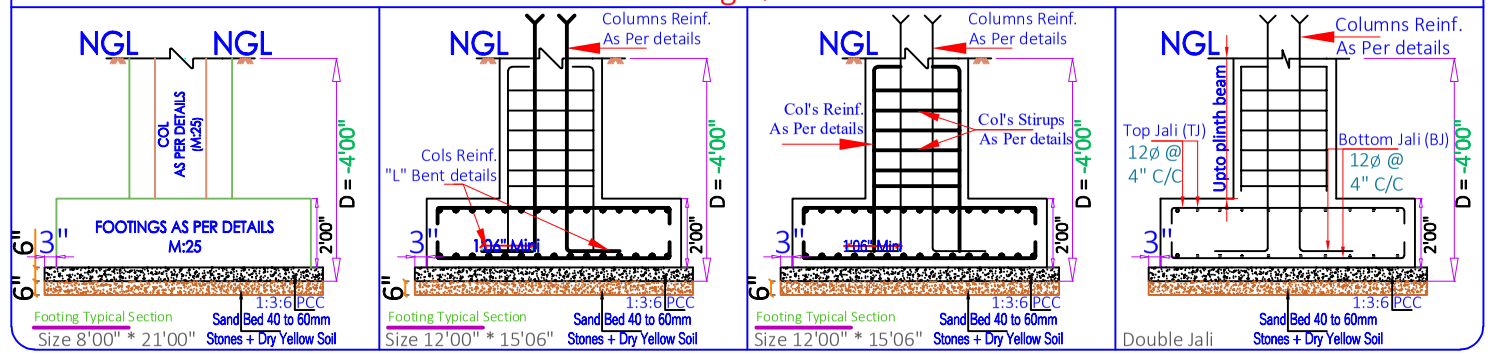

d=2'00"
TJ 12ø @ 4" C/C
BJ 12ø @ 4" C/C

STRUCTURE WORKINGS DRAWINGS RIGHTS RESERVED BY HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT. LTD. & TEAM

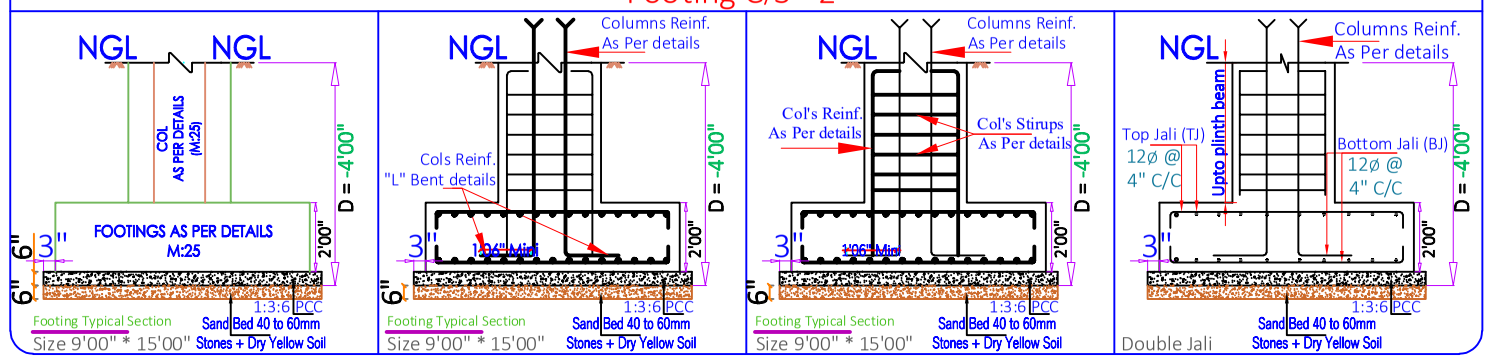
Footing C/S Details
Footing C/S - 1



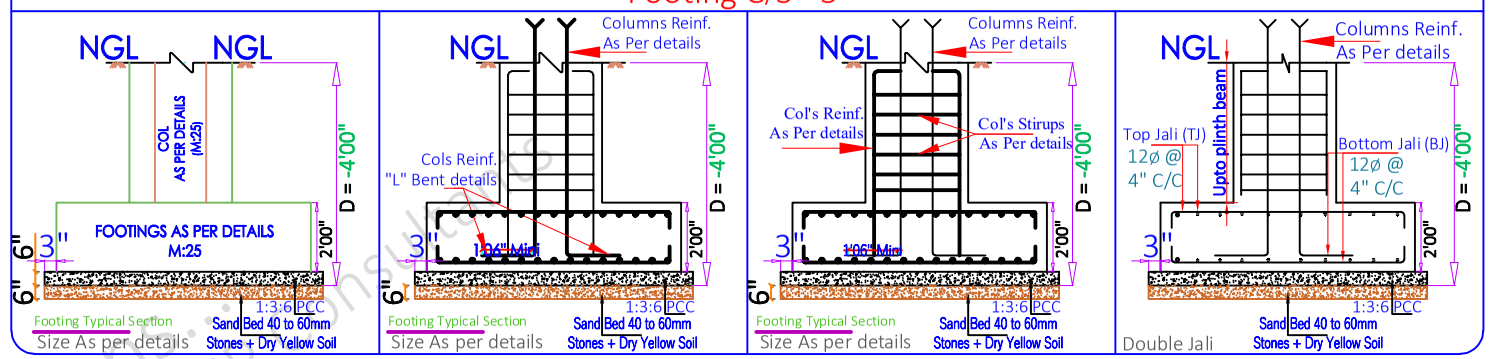
Footing C/S Details
Footing C/S - 4



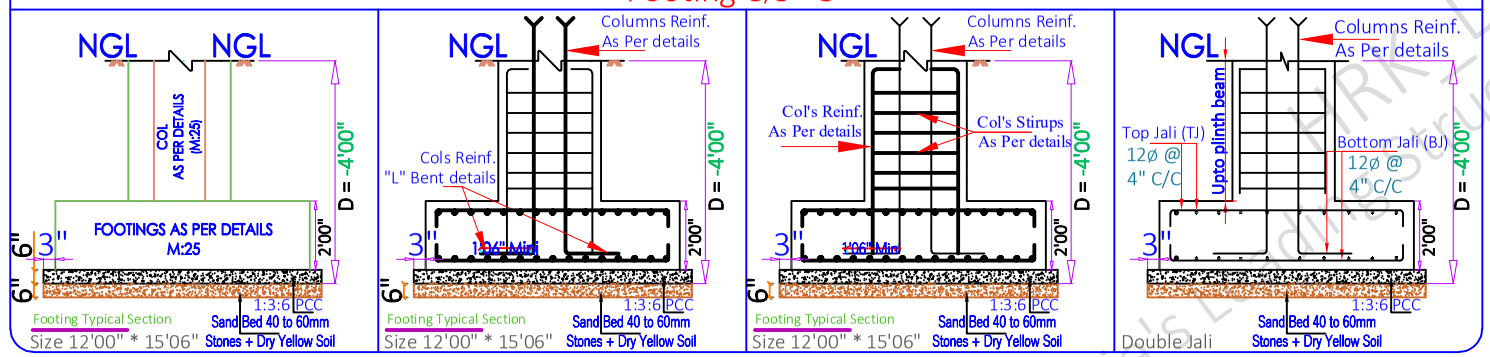
Footing C/S Details
Footing C/S - 2



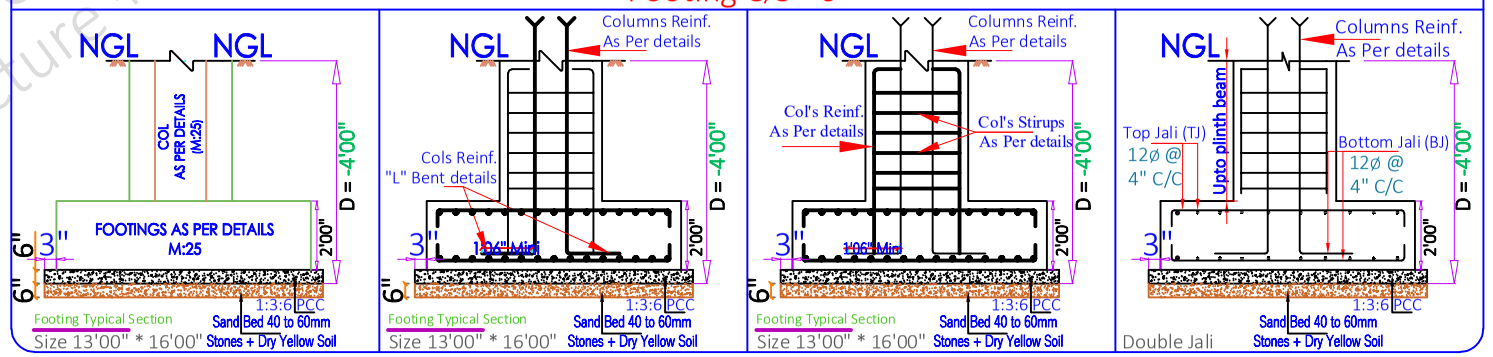
Footing C/S Details
Footing C/S - 5



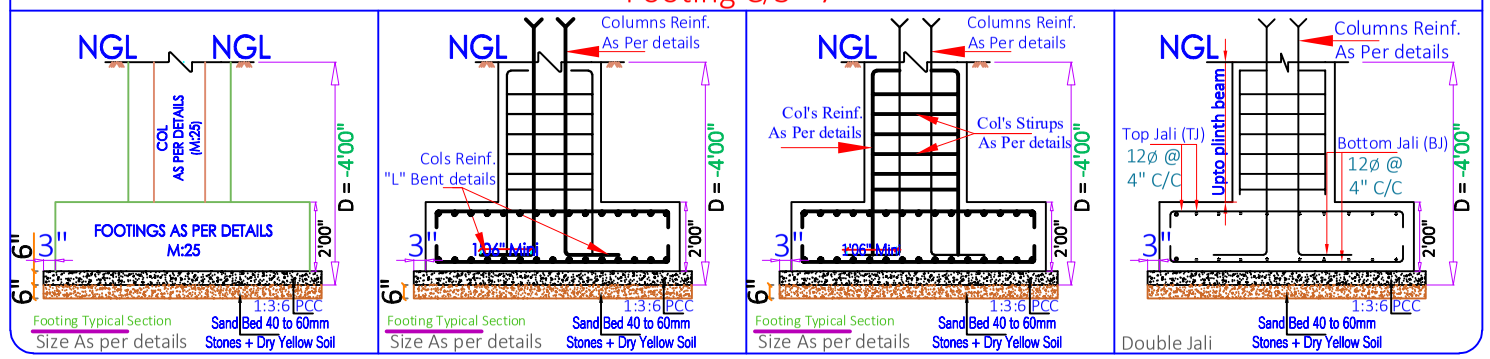
Footing C/S Details
Footing C/S - 3



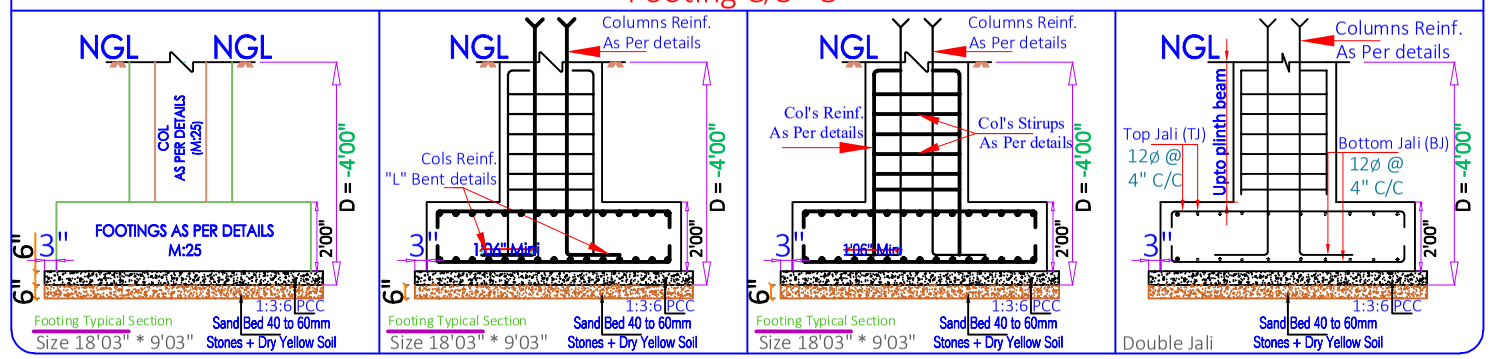
Footing C/S Details
Footing C/S - 6



Footing C/S Details
Footing C/S - 7



Footing C/S Details
Footing C/S - 8



SCALE - NTS | R-0 | *A3 PRINTS* | S-19 | Foot's Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE: GOOD FOR CONSTRUCTION — 21/01/2024

Drw No	Drw Table
Drw - 1	Footing's Plan
Drw - 2	Footing's Details
Drw - 3	

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Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

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+91-9380 930 347
HRK Designs

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3	RCC (M:25) / (1:1:2) for Footings							
	F1 - 8'06" * 12'06"	30	2.60	3.81	0.61	181.28		
	F2 - 9'06" * 15'06"	8	2.90	4.75	0.61	67.22		
	F3 - 16'06" *12'06"	5	5.05	3.81	0.61	58.68		
	F4 - 8'06" * 21'06"	5	2.60	6.60	0.61	52.34		
	F5 - Area from CAD = 204.00 Sq.Ft	2	19.00		0.61	23.18		
	F6 - 13'06" * 16'06"	2	4.15	5.05	0.61	25.57		
	F7 - Area from CAD = 196.50 Sq.Ft	1	18.50		0.61	11.29		
	SW1 - 18'03" * 9'03"	2	5.60	2.85	0.61	19.47		
			Total			439.03		
			Add 5% Extra Qty.			21.95		
			Grand Total.			460.98		
		Total RCC for Footings (M:25)					461.00	M3

4	RCC (M:25) / (1:1:2) For Pedestals including Col's Concrete							
	P1 = 2'00" x 3'00"	60	0.61	0.92	0.92	30.64		
	P2 = 2'00" x 4'00"	8	0.61	1.22	0.92	5.45		
	P3(SW1) = 1'03" x 2'03"	2	0.38	0.69	0.92	0.48		
	LW1 = (L)=22'/6.71 T=6"/0.15	2	6.71	0.15	0.92	1.85		
			Total			38.42		
			Add 5% Extra Qty.			1.92		
			Grand Total.			40.34		
		Total RCC for Pedestal's (M:25)					41.00	M3

5	RCC (M:25) / (1:1:2) For Plinth Beams (PB)							
	PB1 = 1' x 1'06"	1	1010.00	0.31	0.46	141.70		
	L = (86.5'*11)+(240'*8)+(17.5'*14)+(11'*15)+15' = 3350'/1010.00 Mt's		Total			141.70		
			Add 5% Extra Qty.			7.09		
			Grand Total.			148.79		
		Total RCC for Plinth Beams (M:25)					149.00	M3

6	RCC (M:25) / (1:1:2) For Shear wall							
	Ht = 10'/3.05 L = (240+240+120+120) = 720'/220.00Mt's T = 8"/0.20Mt's	1	220	0.20	3.05	134.20		
			Total			134.20		
			Add 5% Extra Qty.			6.71		
			Grand Total.			140.91		
		Total RCC for Shear Wall (M:25)					141.00	M3

RCC (M:25) (1:1:2) for Footings - 461.00 M3

	Kg's	Bags's
Cement	5187	104.00
Fine Agg (Sand)	288125	-
C. Agg (Kapchi)	562420	-

RCC (M:25) (1:1:2) for Pedestals - 41.00 M3

	Kg's	Bags's
Cement	462	10.00
Fine Agg (Sand)	25625	-
C. Agg (Kapchi)	50020	-

RCC (M:25) (1:1:2) for PB - 149.00 M3

	Kg's	Bags's
Cement	1677	34.00
Fine Agg (Sand)	93125	-
C. Agg (Kapchi)	181780	-

RCC (M:25) (1:1:2) for Shear Wall (SW) - 141.00 M3

	Kg's	Bags's
Cement	1587	32.00
Fine Agg (Sand)	88125	-
C. Agg (Kapchi)	172020	-

SCALE - NTS | R-0 | *A3 PRINTS* | S-20 | Qty Sheet Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE: GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Footing's + SW Footing's Qty
Drw - 2	Ped's Qty
Drw - 3	SW's Qty

PROJECT BY:-
TEJAA ASSOCIATES
Civil & Structural Engineers
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22	Reinf^ in Sub Structure						
22.A	Footings for Shear Wall						
	TJ = 10Ø @150mm C/C		L of 1 Bar	Wt/Mt	No of Bars		
	BJ = 10Ø @150mm C/C						
	L = (240'+240') = 480'/150.00 Mt's	1	150.00	0.62	7.00	649.00	
	L = (120'+120') = 240'/75.00 Mt's	1	75.00	0.62	7.00	325.00	
	B = 3'/0.92Mt's	1	0.92	0.62	1500.00	852.00	
	Footing = 48No's = Extra Area = 5'x2'	48	1.53	0.62	11.00	498.00	
		48	0.61	0.62	5.00	91.00	
				Total		2415.00	
				Add 5% Extra Qty.		120.75	
				Grand Total Reinf^ for Shear Wall Footings		2536.00	Kg's
22.B	Reinf^ in Shear Wall						
	Ht = 8'00" in Basement + 1'06" above NGL, L = 720'/220.00Mt's						
	Vertical Bars = 12Ø @ 150mm C/C	2	3.35	0.89	1466.67	8735.00	
	Horizontal Bars = 10Ø @ 150mm C/C	1	220.00	0.62	19.33	2626.00	
				Total		11361.00	
				Add 5% Extra Qty.		568.05	
				Grand Total Reinf^ in Shear Wall		11930.00	Kg's
22.C	Reinf^ in P.B						
	Top Bars						
	16Ø - 3#	1	1185.00	1.58	3.00	5618.00	
	L = (240+240+120+120+(240*6)++(18*14)+(11*15)+(14.4*13)+(15*2)+(88*12)+15 = 3870Ft/1185 Mt's						
	Bottom Bars						
	16Ø - 2#	1	1185.00	1.58	2.00	3746.00	
	20Ø - 1#	1	1185.00	2.47	1.00	2926.00	
				Total		12290.00	
				Add 5% Extra Qty.		614.50	
				Grand Total Reinf^ in P.B		12905.00	Kg's
22.D	Reinf^ in Pedestals						
	P1 = 2'00" * 3'00"	60					
	10Ø - 16#		16.00	0.62	1.70	1008.00	
	12Ø - 18#		18.00	0.89	1.70	1632.00	
	P2 = 2'00" * 4'00"	8					
	10Ø - 22#		22.00	0.62	1.70	185.00	
	12Ø - 26#		26.00	0.89	1.70	315.00	
	P3 = 1'08" * 11'00"	2					
	10Ø - 36#		36.00	0.62	1.70	76.00	
	12Ø - 44#		44.00	0.89	1.70	133.00	
				Total		3349.00	
				Add 5% Extra Qty.		167.45	
				Grand Total Reinf^ in Pedestals		3517.00	Kg's

22.E	Reinf^ in Footings						
	F1 - 8' * 12'	30					
	Top Bars - 12Ø @ 4"/100mm C/C		3.35	0.89	45.60	4074.00	
	Bottom Bars - 12Ø @ 4"/100mm C/C		4.56	0.89	33.50	4074.00	
	F2 - 9' * 15'	8					
	Top Bars - 12Ø @ 4"/100mm C/C		3.65	0.89	55.00	1428.00	
	Bottom Bars - 12Ø @ 4"/100mm C/C		5.50	0.89	36.50	1428.00	
	F3 - 12' * 16'	5					
	Top Bars - 12Ø @ 4"/100mm C/C		4.55	0.89	59.00	1194.00	
	Bottom Bars - 12Ø @ 4"/100mm C/C		5.90	0.89	45.50	1194.00	
	F4 - 8' *21'	5					
	Top Bars - 12Ø @ 4"/100mm C/C		3.35	0.89	74.00	1102.00	
	Bottom Bars - 12Ø @ 4"/100mm C/C		7.40	0.89	33.50	1102.00	
	F5 - As per Drawings	2					
	Considering, L = 20' & B = 12'						
	Top Bars - 12Ø @ 4"/100mm C/C		4.55	0.89	70.00	567.00	
	Bottom Bars - 12Ø @ 4"/100mm C/C		7.00	0.89	45.50	567.00	
	F6 - 13' * 16'	2					
	Top Bars - 12Ø @ 4"/100mm C/C		4.90	0.89	58.00	506.00	
	Bottom Bars - 12Ø @ 4"/100mm C/C		5.80	0.89	49.00	506.00	
	F7 - As per Drawings	1					
	Considering, L = 22' & B = 12'		4.55	0.89	76.50	310.00	
	Top Bars - 12Ø @ 4"/100mm C/C		7.65	0.89	45.50	310.00	
	Bottom Bars - 12Ø @ 4"/100mm C/C						
	SW1 - 18' * 9'	2					
	Top Bars - 12Ø @ 4"/100mm C/C		4.55	0.89	76.50	619.00	
	Bottom Bars - 12Ø @ 4"/100mm C/C		7.65	0.89	45.50	619.00	
			Total			19600.00	
			Add 5% Extra Qty.			980.00	
			Grand Total Reinf^ in Footings			20580.00	Kg's

PLS NOTE

Reinf^ Consumption in Footings = 51,468.00 Kg's

(2,536+11,930+12,905+3,517+20,580)

Total Reinf^ Req^ Col's Footing's, Shear Wall Footings, Shear Wall, P.B, & Pedestals

SCALE - NTS | R-0 | *A3 PRINTS* | S-21 | Qty Sheet Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE: GOOD FOR CONSTRUCTION | 21/01/2024

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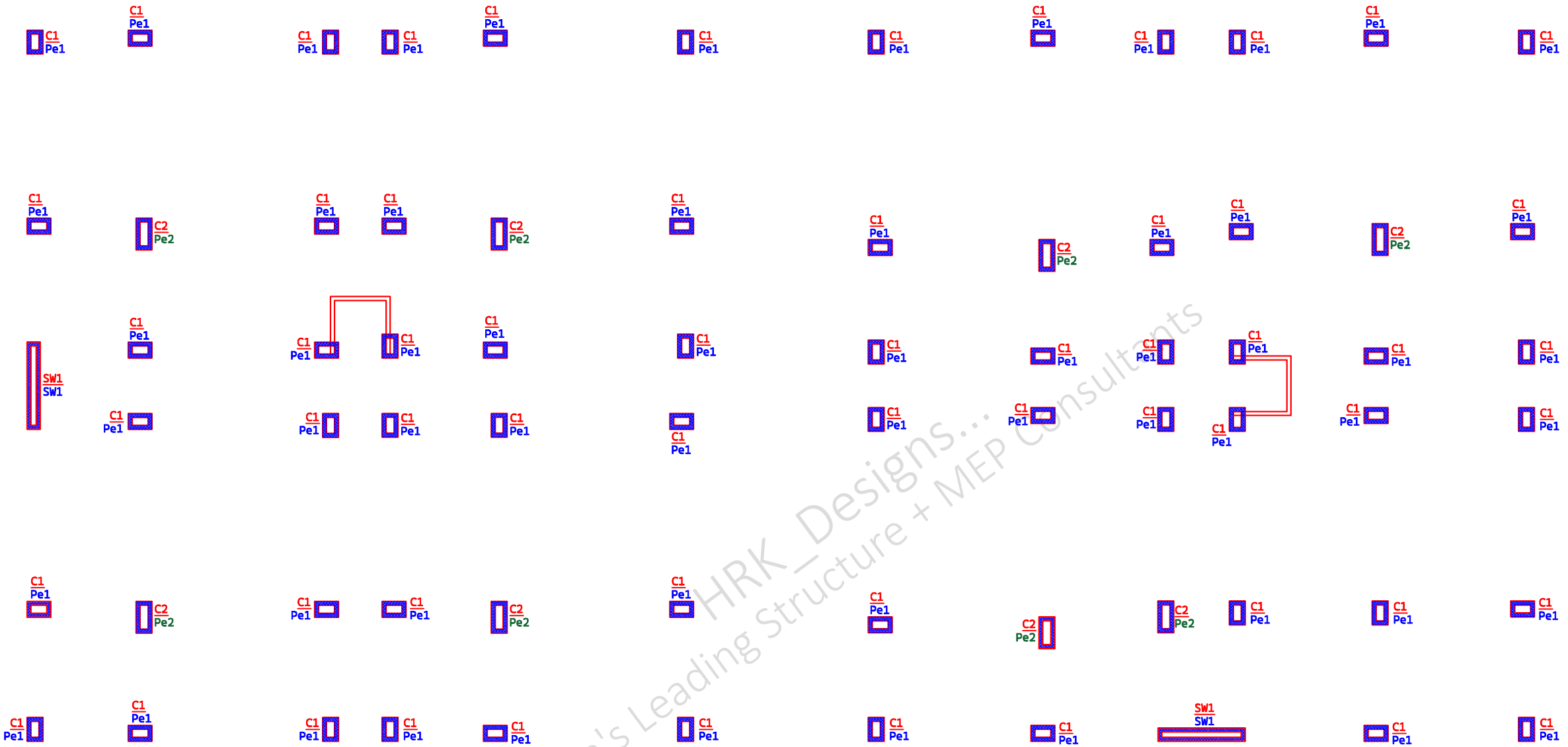
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HRKD/13/01/22/2024

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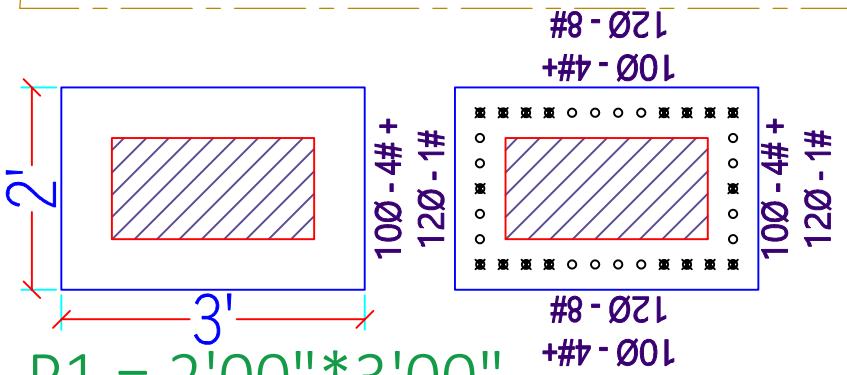


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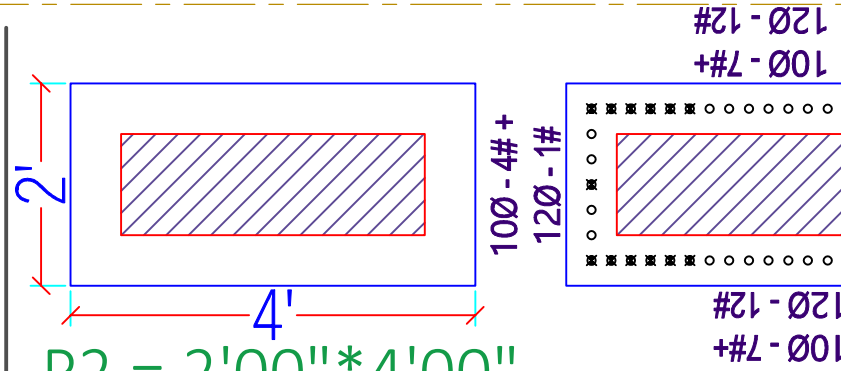
C1 = 1'*2'=60No's
Pe1 = 2'*3'=60No's

C2 = 1'*3'=8No's
Pe2 = 2'*4'=8No's

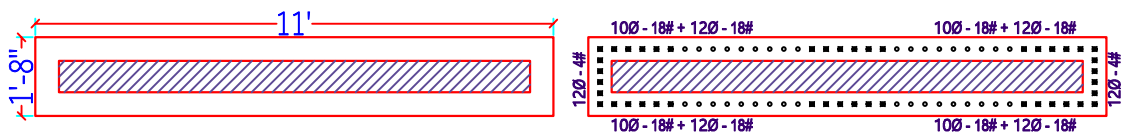
SW`1 = 8"*10'=2No's
(Pe3)SW`1 = 1'08"*11'=2No's



P1 = 2'00"*3'00"



P2 = 2'00"*4'00"



P3(SW1) = 11'00"*1'08"

SCALE - NTS | R-0 | *A3 PRINTS* | S-22 | Pedestals Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	Ped's line Plan	
Drw - 2	Ped's line Details	
Drw - 3	Ped's Center line C/S & Details	

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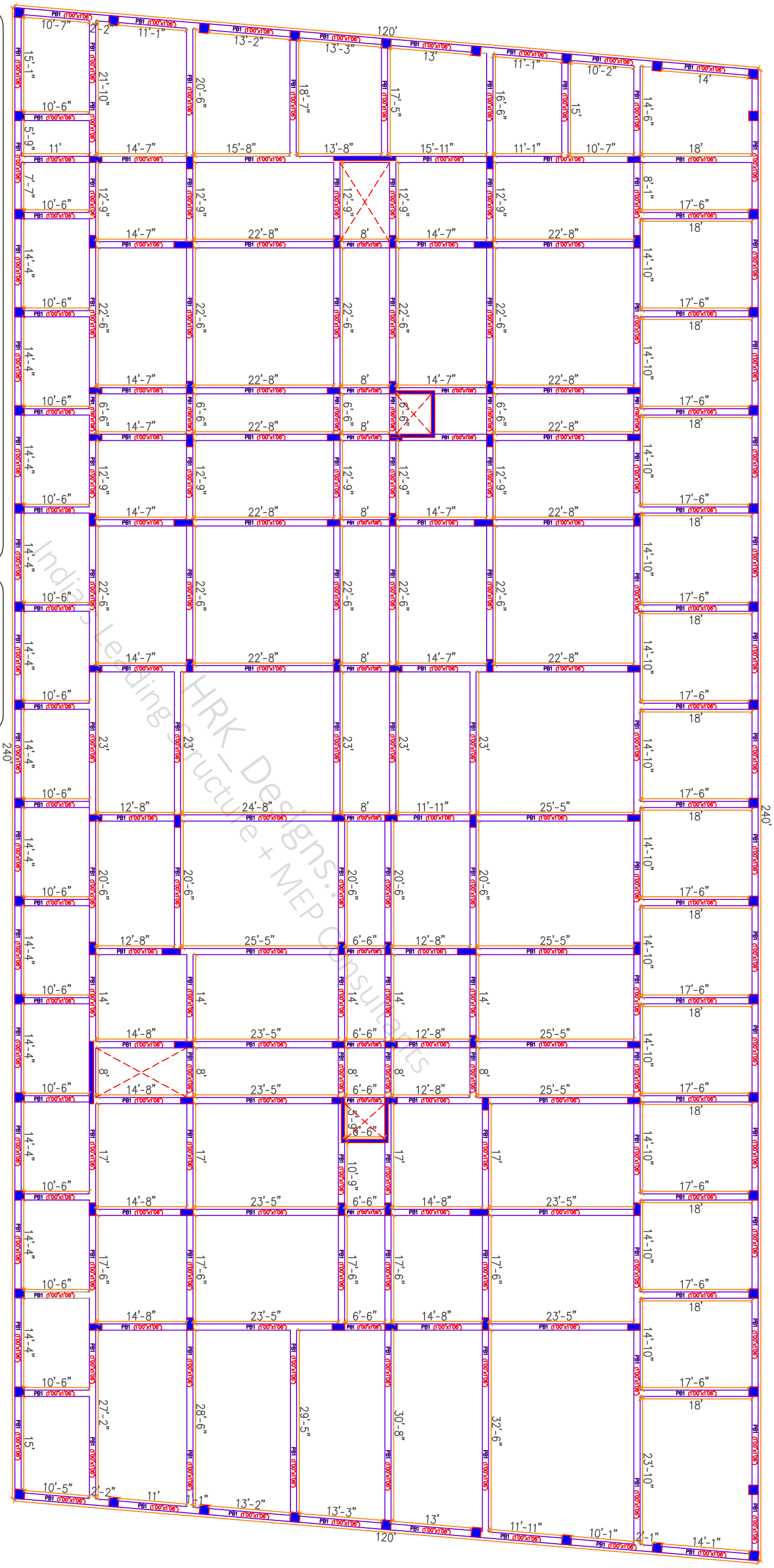
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Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

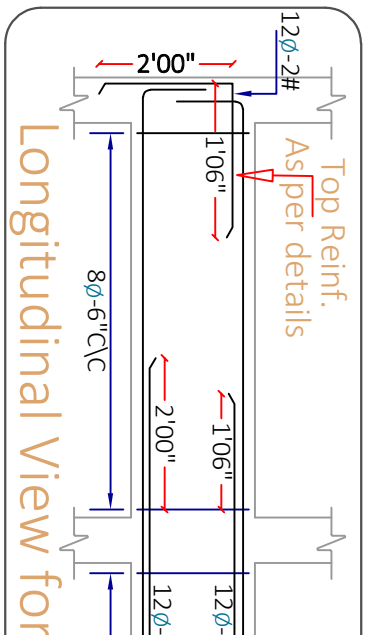
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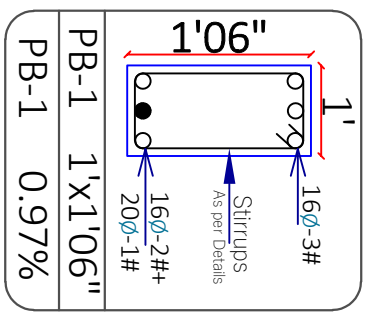
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SCALE - NTS | R-0 | *A3 PRINTS* | S-23

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw Table

Drw No	
Drw - 1	PB Plan
Drw - 2	PB Plan & Layout
Drw - 3	PB Plan & C/S Details

PB Plan & Details

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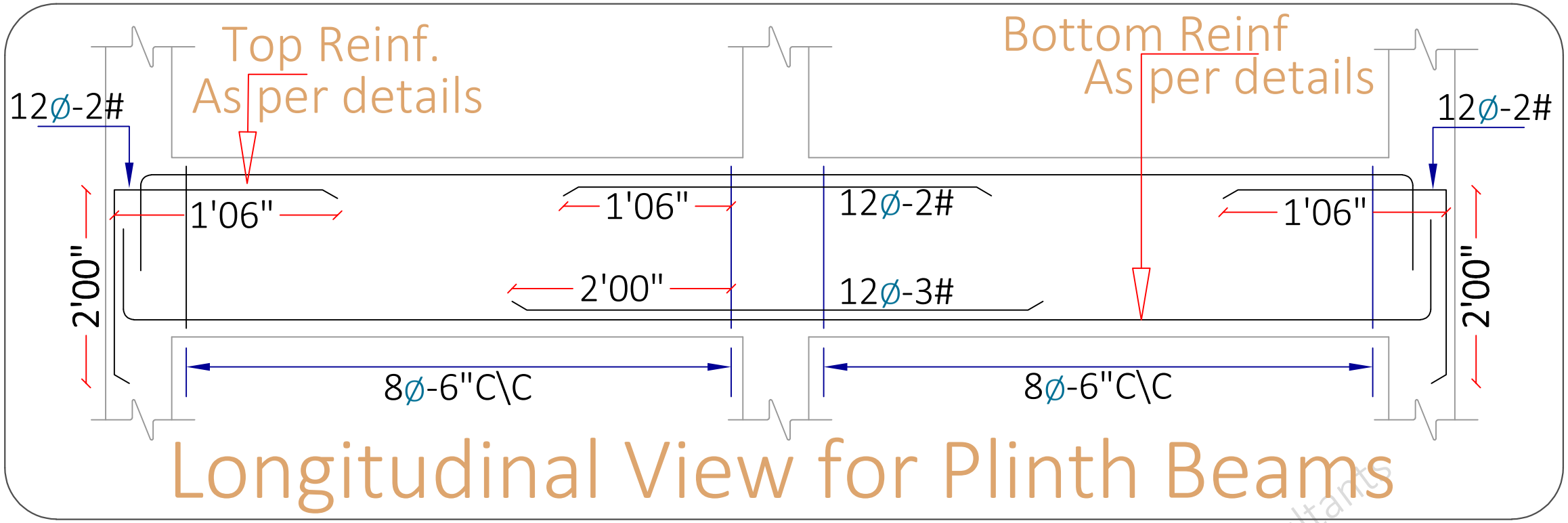
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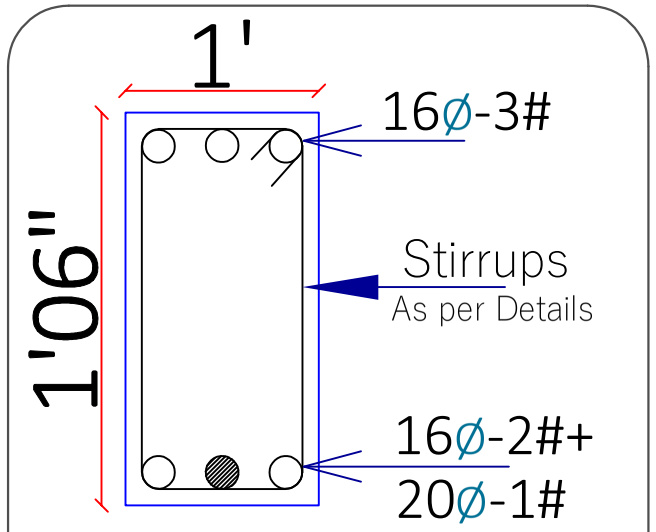
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Longitudinal View for Plinth Beams



PB-1	1'x1'06"
PB-1	0.97%

5	RCC (M:25) / (1:1:2) For Plinth Beams (PB)						
	PB1 = 1' x 1'06"	1	1010.00	0.31	0.46	141.70	
	L = (86.5'*11)+(240'*8)+(17.5'*14)+(11'*15)+15' = 3350'/1010.00 Mt's		Total			141.70	
			Add 5% Extra Qty.			7.09	
			Grand Total.			148.79	
		Total RCC for Plinth Beams (M:25)				149.00	M3

India's

SCALE - NTS | R-0 | *A3 PRINTS* | S-24 PB Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	PB Plan
Drw - 2	PB Plan & Layout
Drw - 3	PB Plan & C/S Details

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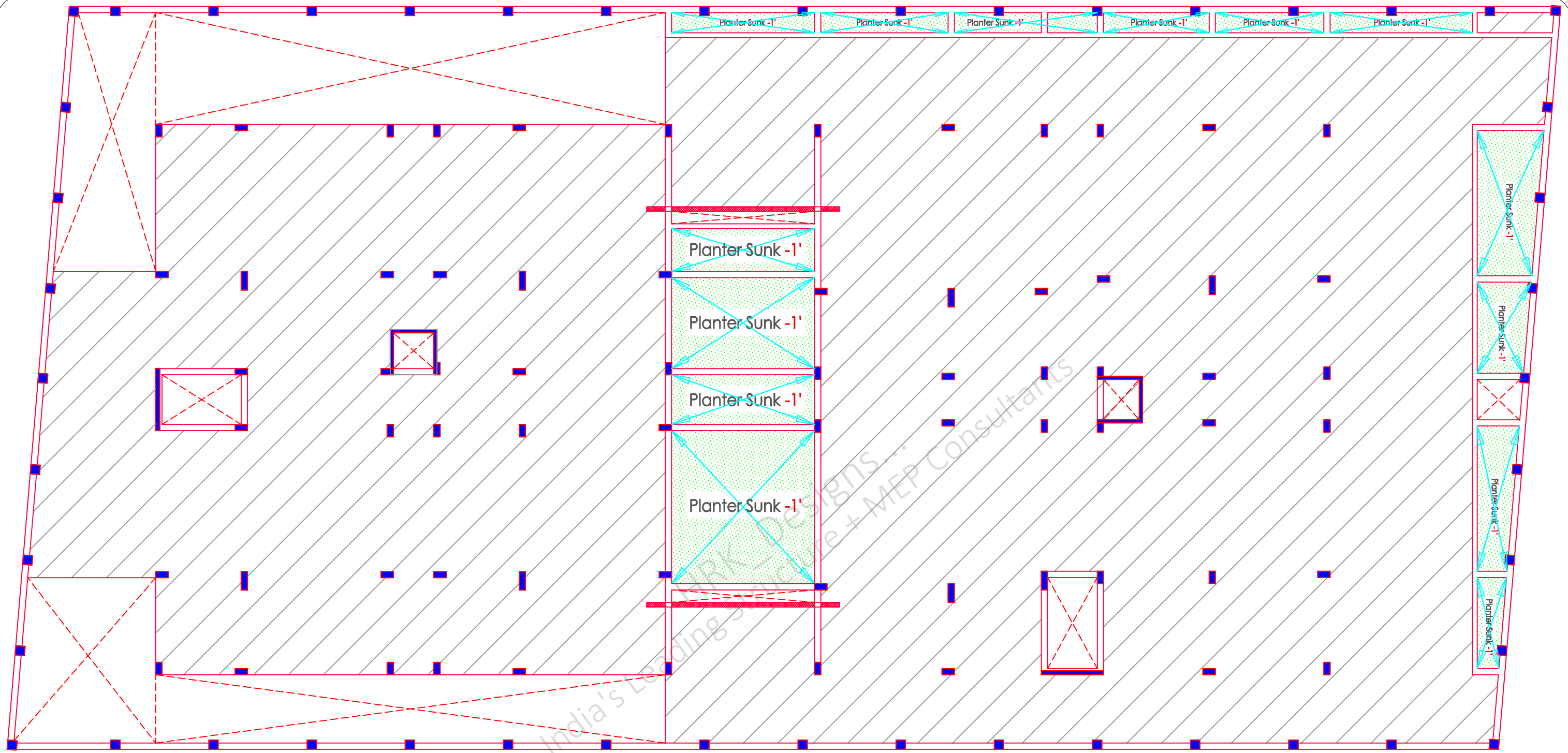
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Concrete Area

Planter Area

Slab CutOff Area

PLS NOTE

- This Sheet Indicates Slab Layout with Cutout & Planter

SCALE - NTS | R-0 | *A3 PRINTS* | S-25 | Basement Layout Planter & Cutoff Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Basement Slab Layout
Drw - 2	Basement Slab CutOff Details
Drw - 3	Basement Planter Details

PROJECT BY:-

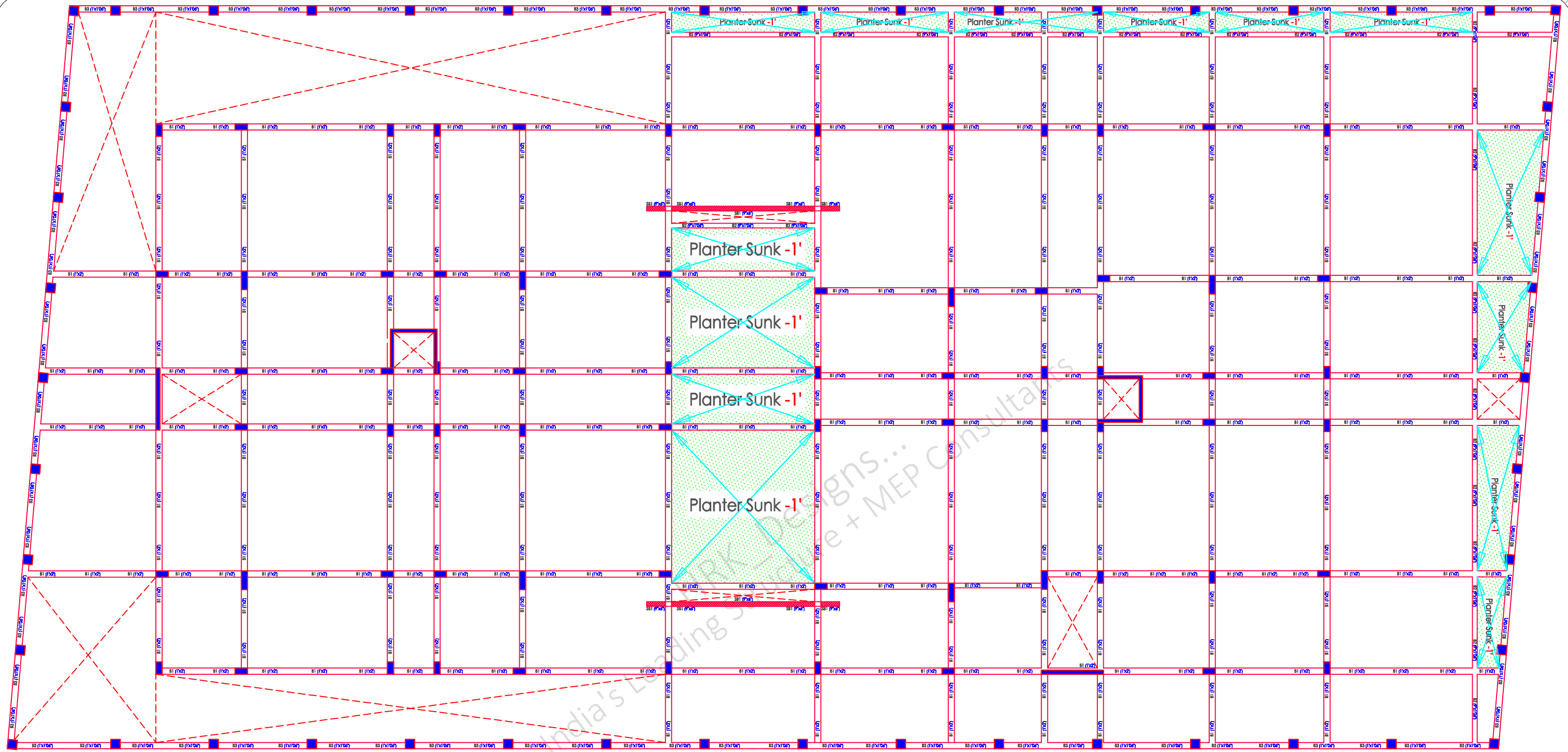
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Concrete Area

Planter Area

Slab CutOff Area

PLS NOTE

- This Sheet Indicates Basement Slab Layout @ (+) 3'00" Ht.

SCALE - NTS | R-0 | *A3 PRINTS* | S-26 | Basement Beam Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Basement Beam Plan
Drw - 2	Basement Beam Layout
Drw - 3	Basement Beam Plan & C/S Details

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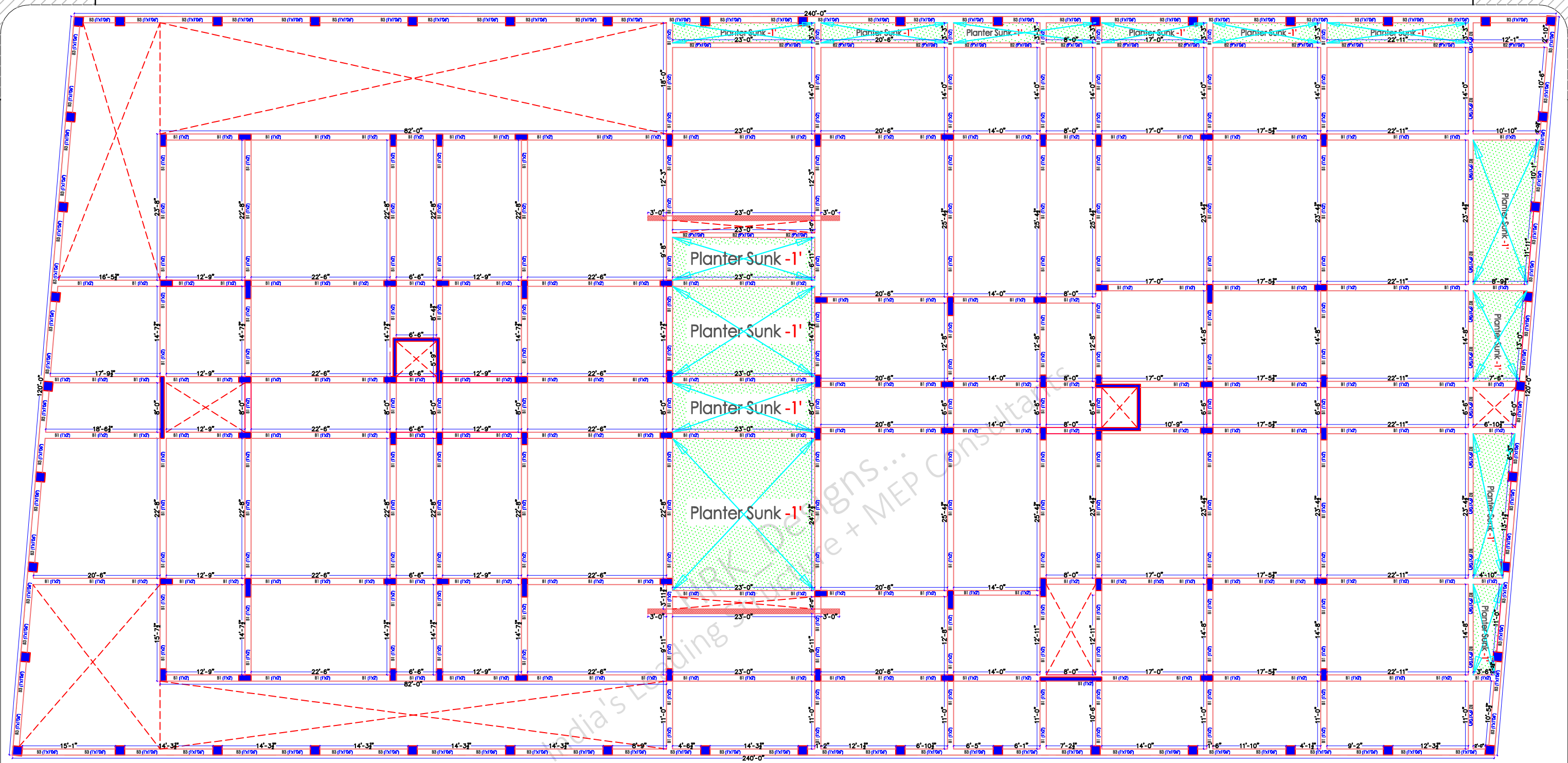
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Concrete Area

Planter Area

Slab CutOff Area

PLS NOTE

- This Sheet Indicates Basement Slab Layout @ (+) 3'00" Ht.

SCALE - NTS | R-0 | *A3 PRINTS* | S-27 | Basement Beam Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Basement Beam Plan
Drw - 2	Basement Beam Layout
Drw - 3	Basement Beam Plan & C/S Details

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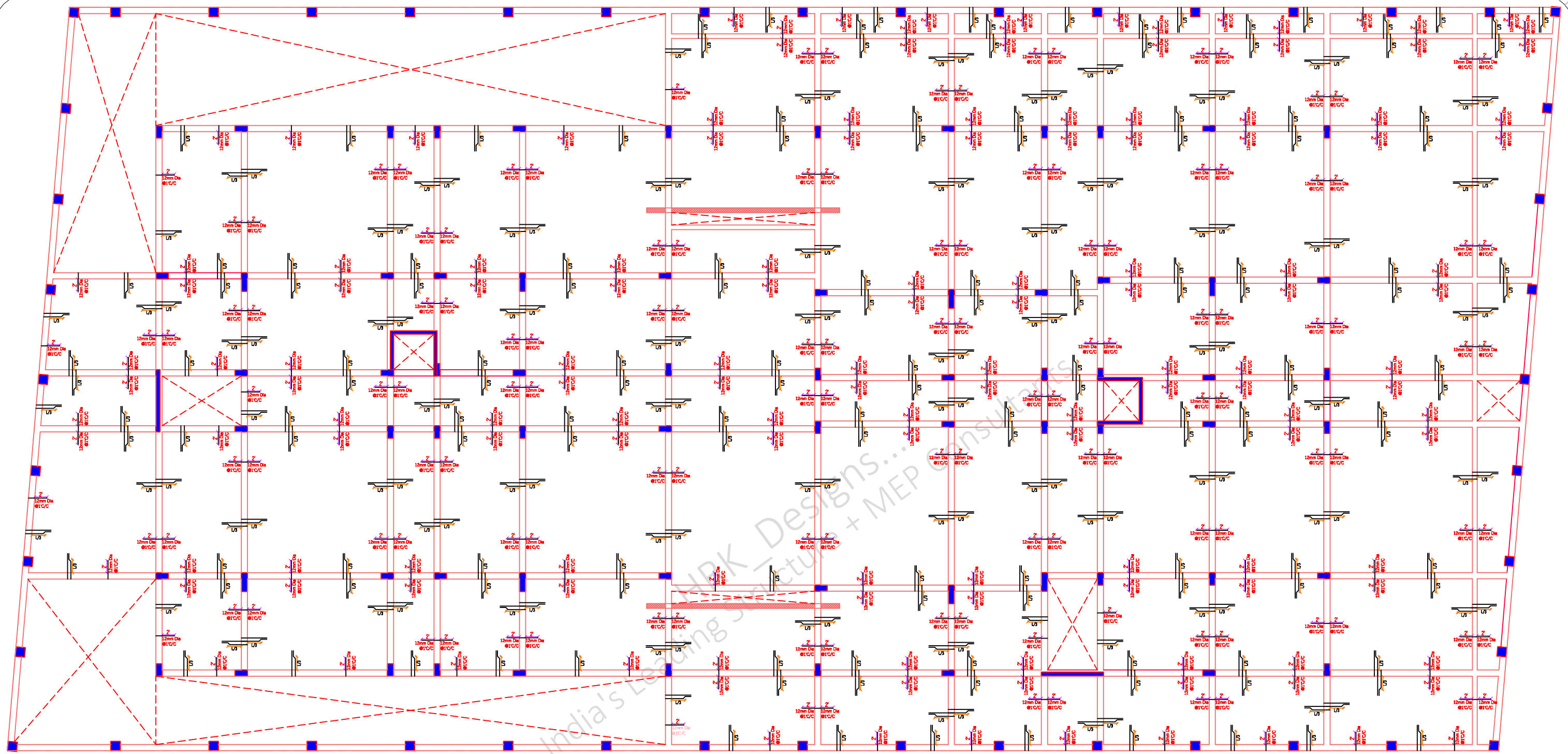
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PLS NOTE

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SCALE - NTS | R-0 | *A3 PRINTS* | S-28 | Basement Slab Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Basement Slab Plan
Drw - 2	Basement Slab Layout
Drw - 3	Basement Slab Plan & C/S Details

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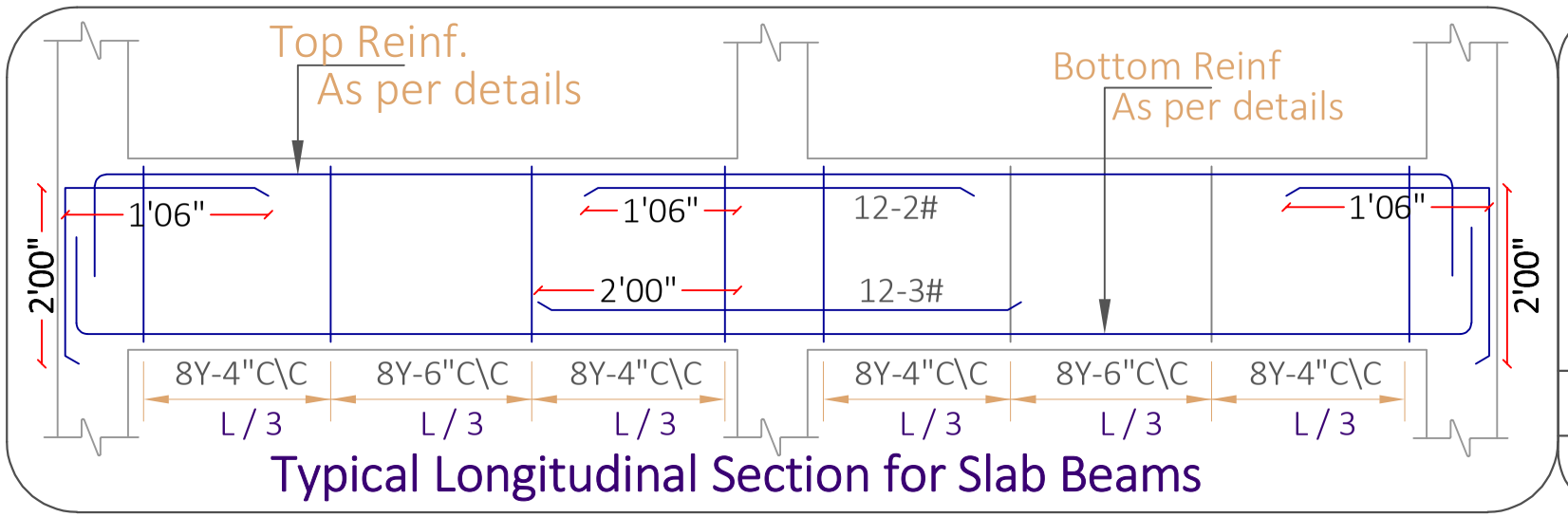
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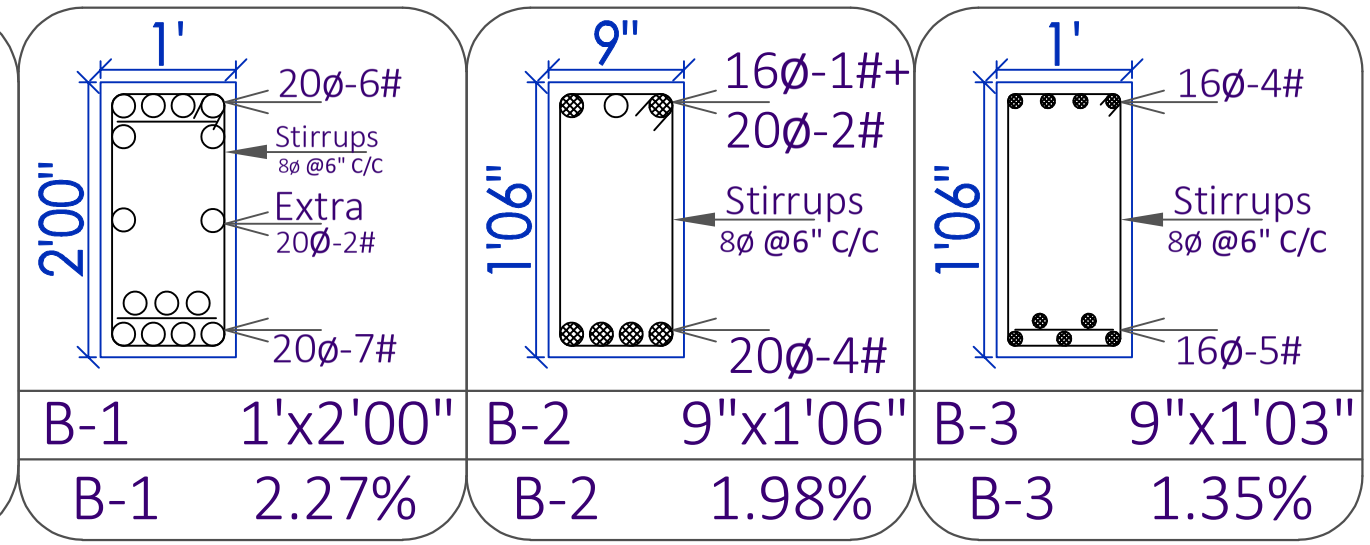
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Typical Longitudinal Section for Slab Beams



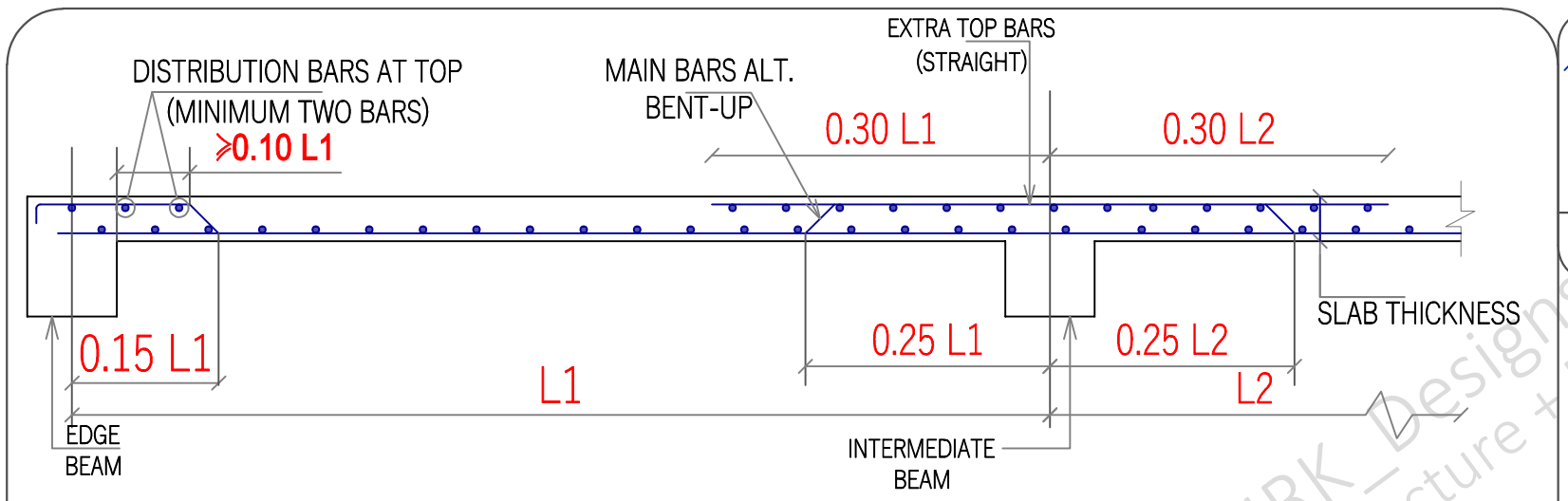
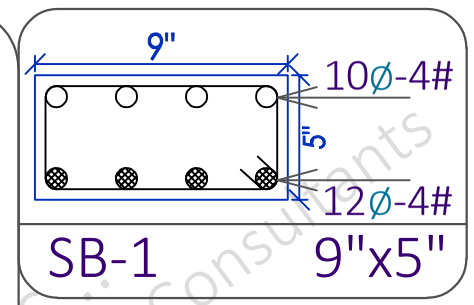


Figure - 4 Typical Slab Section for all the floors



◯ SMALLER DIA REINFORCEMENT BAR

● LARGER DIA REINFORCEMENT BAR

Slab Thickness = 8"

10ø Bent-up bars @ 5" C/C

10ø Straight bars @ 5" C/C

12ø Extra bars @ 1' C/C (Junctions & Ends)

PLS NOTE

- This Sheet Indicates Basement Slab Details @ (+) 3'00" Ht.

SCALE - NTS | R-0 | *A3 PRINTS* | S-29 | Basement Beam & Reinf^ Details | B+G+7 @ Rajamahendravaram AP

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4 - ALL REINFORCEMENT FOR RCC SHALL BE TMT BARS OF GRADE Fe 500 & ABOVE ONLY AS SPECIFIED IN IS:1786
5 - ALL RCC CONCRETE SHALL BE AS PER IS - 456
6 - CLEAR COVER SHOULD BE AS PER FOLLOWING SPECIFIED
(A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
7 - WATER USED FOR CONCRETING SHALL MEET CL - 5.4 IS - 456
8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Base^ Beam & Slab C/S Details
Drw - 2	Base^ Beam & Slab Reinf^ C/S Details
Drw - 3	

PROJECT BY:-
TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

CHK AKA	DRW HP
HRK/Er.NML/GFC/13/24/6	HRKD/13/01/22/2024

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HRK Designs

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7	RCC (M:25) / (1:1:2) For Basement LVL						
7.A	Basement Col's						
	C1 = 1'00" x 2'00"	60	0.31	0.61	3.20	35.72	
	C2 = 1'00" x 3'00"	8	0.31	0.92	3.20	7.14	
	SW1 = 8" x 10'00"	2	0.20	3.05	3.20	3.96	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	0.15	6.71	3.20	6.44	
			Total			53.27	
			Add 5% Extra Qty.			2.66	
			Grand Total in Basement Col's			56.00	
7.B	Basement Beam's						
	B1 = 1'00" x 2'00"	1	810.00	0.31	0.61	150.70	
	L = 88.5'+86.5'+86.5'+86.5'+86.5'+117.5'+117.5'+117.5'+117.5'+117.5'+117.5'+117.5'+223.5'+238'+238'+238'+238'+216' = 2650' / 810.00 Mt's						
	B2 = 9" x 1'06"	1	86.80	0.23	0.46	9.18	
	L = 118' + 142' + 23' = 283'00"/ 86.50 Mt's						
	B3 = 1' x 1'06"	1	220.00	0.30	0.46	30.36	
	L = (120+120+240+240) = 720'/220.00 Mt's						
			Total			190.24	
			Add 5% Extra Qty.			9.51	
			Grand Total in Basement Beams			200.00	
7.C	Basement Slab's						
	Slab = 24,450.00 Sq. Ft / 2275.00 Sq. Mt's T = 8"/0.20Mt's	1	2275.00	0.20		455.00	
			Total			455.00	
			Add 5% Extra Qty.			22.75	
			Grand Total in Basement Slab			478.00	
	Total RCC for Basement LVL (M:25)					734.00	M3

23	Reinf^ in Super Structure						
	Basement Beams						
	B1 = 1'00" x 2'00"	1	810.00				
	L = 2650' / 810.00 Mt's						
	Top Bars - 20Ø - 6# C/C			2.47	6.00	12000.00	
	Bottom Bars - 20Ø - 7# C/C			2.47	7.00	14000.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	5400.00	**3734.00**	
	B2 = 9" x 1'06"	1	86.80				
	L = 283'00"/ 86.50 Mt's						
	Top Bars						
	16Ø - 1# C/C + 20Ø - 2# C/C			1.58	1.00	138.00	
				2.47	2.00	429.00	
	Bottom Bars - 20Ø - 4# C/C			2.47	4.00	858.00	
	Stirups - 8Ø @150mm C/C		1.33	0.40	579.00	**305.00**	
	B3 = 1' x 1'06"	1	220.00				
	L = 720'/220.00 Mt's						
	Top Bars - 16Ø - 4# C/C			1.58	2.00	696.00	
	Bottom Bars - 16Ø - 5# C/C			2.47	1.00	544.00	
	Stirups - 8Ø @150mm C/C		1.47	0.40	1467.00	**852.00**	
	Slab Beam (SB)	2	18.50				
	Top Bars - 10Ø - 4# C/C			0.62	4.00	92.00	
	Bottom Bars - 12Ø - 4# C/C			0.89	4.00	132.00	
	Stirups - 8Ø @150mm C/C		0.85	0.40	124.00	84.00	
	Basement Col's						
	C1 = 1'00" x 2'00"	60	3.10				
	20Ø - 14# C/C			2.47	14.00	6430.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	21.00	872.00	
	C2 = 1'00" x 3'00"	8	3.10				
	20Ø - 20# C/C			2.47	20.00	1225.00	
	Stirups - 8Ø @150mm C/C		2.35	0.40	21.00	156.00	
	SW1 = 8" x 10'00"	2	3.10				
	12Ø - 8# C/C			0.89	8.00	45.00	
	16Ø - 20# C/C			1.58	20.00	196.00	
	Stirups - 8Ø @150mm C/C	3		0.40	21.00	155.00	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	3.10				
	12Ø - 100# C/C			0.89	100.00	552.00	
	Stirups - 8Ø @150mm C/C	1					
	L = (7'03"*4)+(7'06"*2) = 45'/13.75 Mt's		13.75	0.40	21.00	115.00	
	Basement Slab						
	Slab = 24,450.00 Sq. Ft / 2275.00 Sq. Mt's T = 8"/0.20Mt's	1					
	L = 240'00", No's = 480.00 No's		80.00	0.62	480.00	23704.00	
	B = 120'00", No's = 240.00 No's		40.00	0.62	240.00	5926.00	
			Total			73240.00	
			Add 5% Extra Qty.			3662.00	
			Grand Total Reinf^ in Basement LVL			76902.00	Kg's

RCC (M:25) (1:1:2) for Basement LVL - 734.00 M3

	Kg's	Bags's
Cement	8258	166.00
Fine Agg (Sand)	458750	-
C. Agg (Kapchi)	895480	-

PLS NOTE

Reinf^ Consumption in Footings = 76,902.00 Kg's

Basement Built-Up Area = 24,860.00 Sq. Ft

Reinf^ Consumption only footings Per/Sq. Ft = 76,902 / 24,860 =

3.10 Kg's/Ft

SCALE - NTS | R-0 | *A3 PRINTS* | S-30 Basement Qty Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE: GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	Base^ Conc^ Qty Details
Drw - 2	Base^ Reinf^ Qty Details
Drw - 3	

PROJECT BY:-

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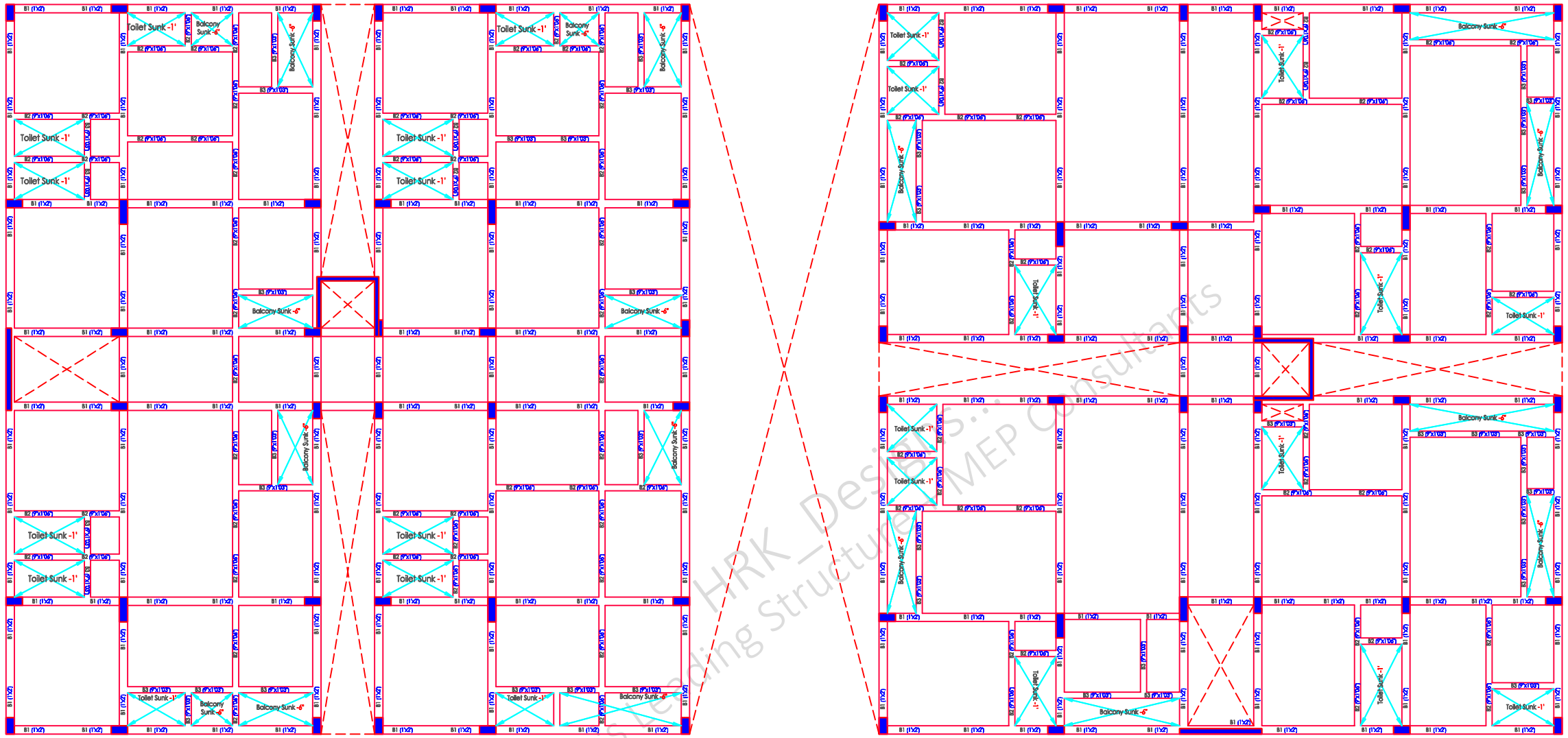
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AKA	HP

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HRKD/13/01/22/2024

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SCALE - NTS | R-0 | *A3 PRINTS* | S-31 | GF Beam Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	GF Beam Plan
Drw - 2	GF Beam Layout
Drw - 3	GF Beam Plan & C/S Details

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Civil & Structural Engineers
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SCALE - NTS | R-0 | *A3 PRINTS* | S-32

SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

GF Beam Plan & Details

Drw Table

Drw No	
Drw - 1	GF Beam Plan
Drw - 2	GF Beam Layout
Drw - 3	GF Beam Plan & C/S Details

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Civil & Structural Engineers
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B+G+7 @ Rajamahendravaram AP

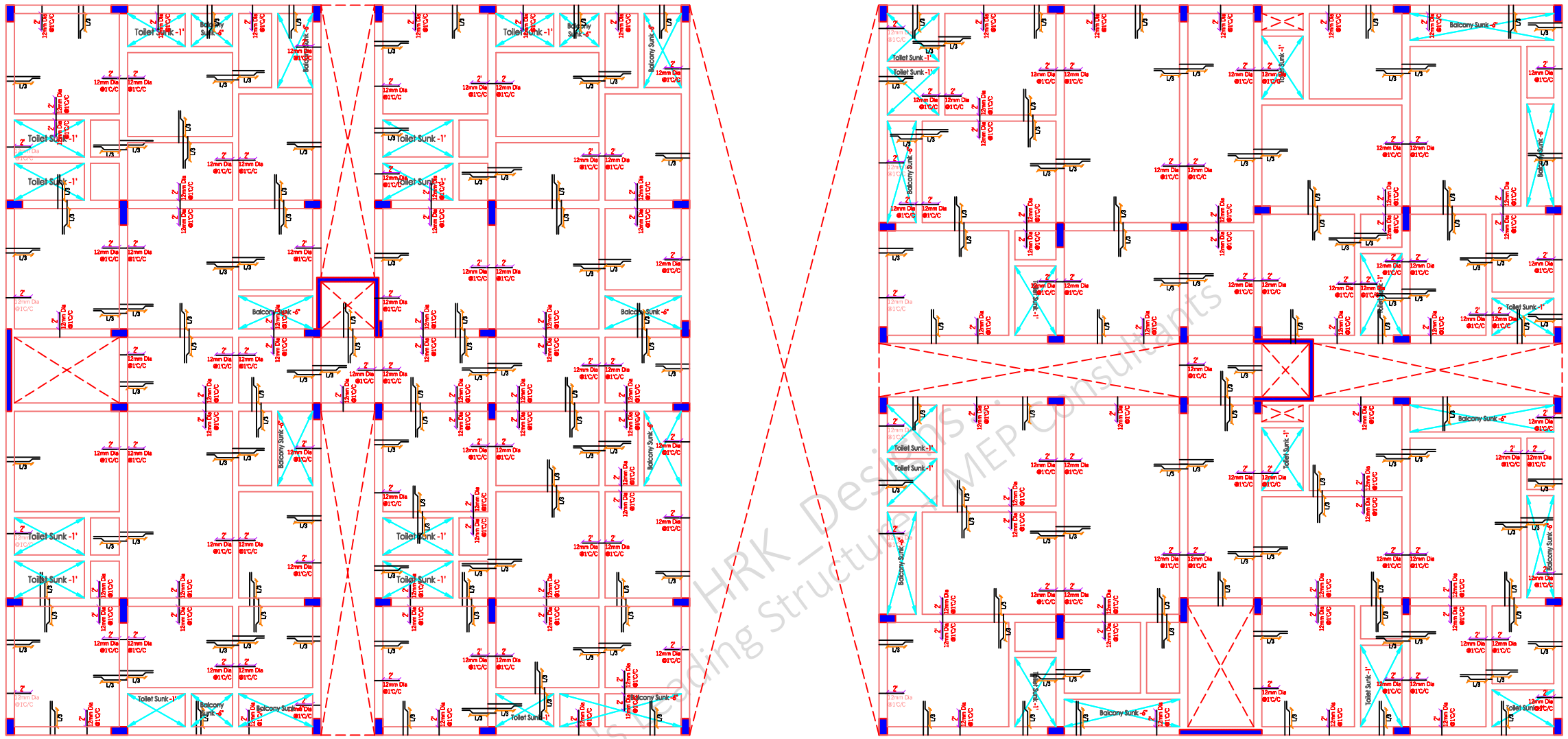
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SCALE - NTS | R-0 | *A3 PRINTS* | S-33 | GF Slab Plan & Details | B+G+7 @ Rajamahendravaram AP

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Drw No	Drw Table
Drw - 1	GF Slab Plan
Drw - 2	GF Slab Layout
Drw - 3	GF Slab Plan & C/S Details

PROJECT BY:-

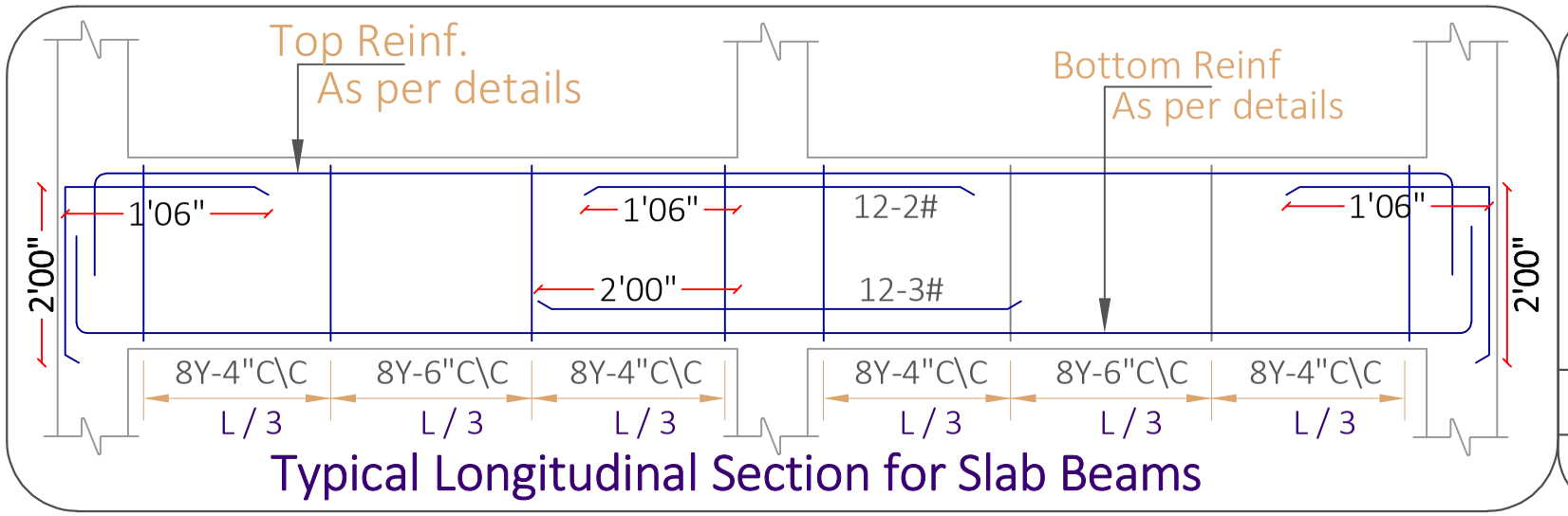
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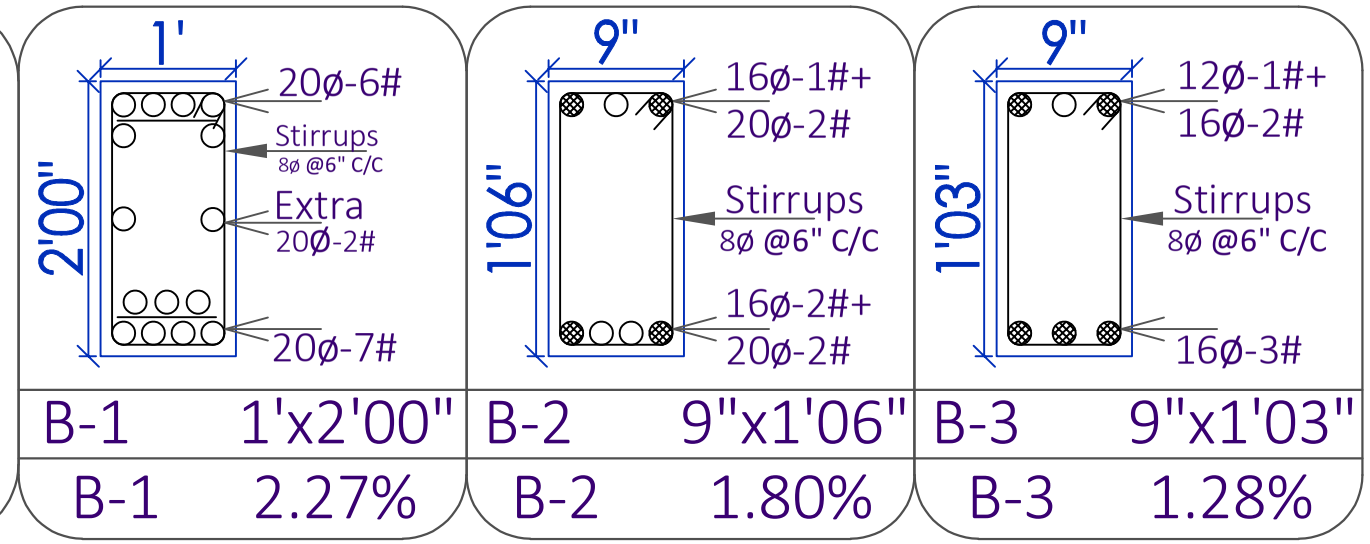
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Typical Longitudinal Section for Slab Beams



B-1	1'x2'00"	B-2	9"x1'06"	B-3	9"x1'03"
B-1	2.27%	B-2	1.80%	B-3	1.28%

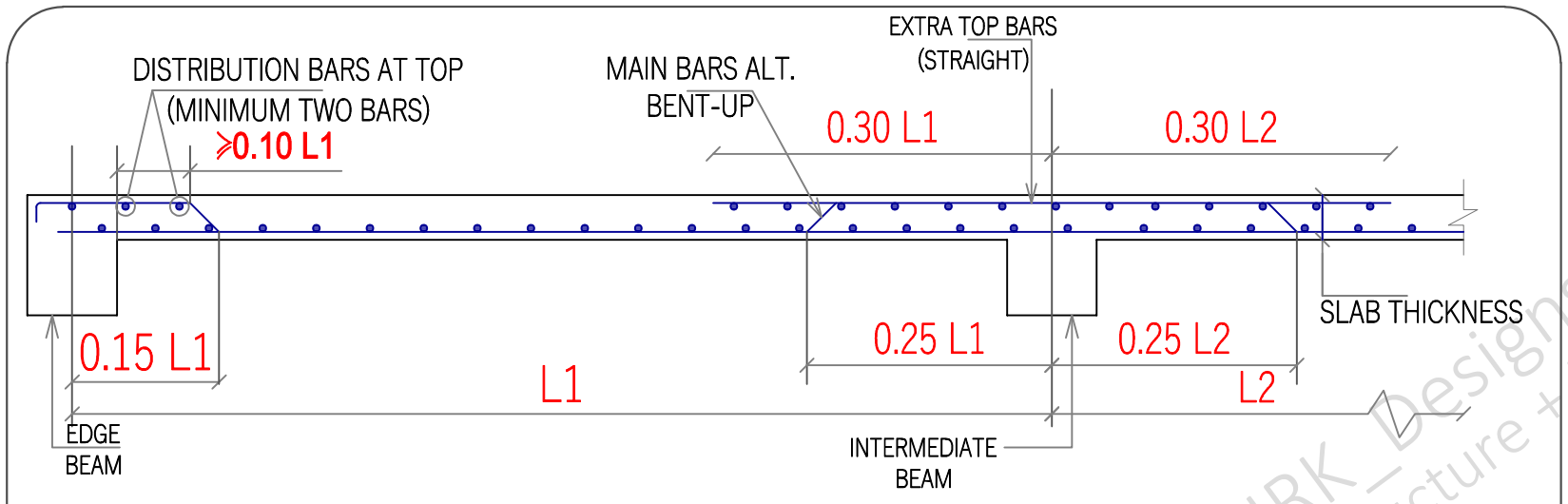


Figure - 4 Typical Slab Section for all the floors

○ SMALLER DIA REINFORCEMENT BAR

● LARGER DIA REINFORCEMENT BAR

Slab Thickness = 6"

10Ø Bent-up bars @ 5" C/C

10Ø Straight bars @ 5" C/C

12Ø Extra bars @ 1' C/C (Junctions & Ends)

SCALE - NTS | R-0 | *A3 PRINTS* | S-34 | GF Beam & Reinf^ Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
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9	RCC (M:25) / (1:1:2) For GF LVL						
9.A	GF Col's						
	C1 = 9" x 2'00"	60	0.23	0.61	3.20	26.94	
	C2 = 1'00" x 3'00"	8	0.31	0.92	3.20	7.14	
	SW1 = 8" x 10'00"	2	0.20	3.05	3.20	3.96	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	0.15	6.71	3.20	6.44	
			Total			44.49	
			Add 5% Extra Qty.			2.22	
			Grand Total in GF Col's			47.00	
9.B	GF Beam's						
	B1 = 9" x 2'00"	1	565.00	0.23	0.61	79.27	
	L = (38'03"*8)+(88.5*6)+(82'*6)+(41'*8)+(86.5*2) = 1850' / 565.00 Mt's						
	B2 = 9" x 1'06"	1	200.00	0.23	0.46	21.16	
	L = (12'09"*14)+(86'05"*2)+(4'*2)+(9'09"*2)+(22'06")+6'03"+12'04"+20'06"+(5'00"*4)+6'00"+20'06"+12'03"+(14'08"*4)+5'00"+ 17'00"+11'00"+ 17'00"+17'06"+ 10'06"+7'06" = 645'00"/ 200.00 Mt's						
	B3 = 9" x 1'03"	1	85.00	0.23	0.38	7.43	
	L = (9'*8)+(22'06*2)+14'+7'06"+(3'03"*2)+(9'09"*2)+(9'03"*2)+(19'06"*2)+17'06"+(12'06"*2)+(5'00"*2) = 275'/85.00 Mt's						
			Total			107.86	
			Add 5% Extra Qty.			5.39	
			Grand Total in GF Beams			114.00	
9.C	GF Slab's						
	Slab = (6885+6920)= 13,805.00 Sq. Ft / 1285.00 Sq. Mt's T = 6"/0.15Mt's	1	1285.00		0.15	192.75	
			Total			192.75	
			Add 5% Extra Qty.			9.64	
			Grand Total in GF Slab			203.00	
			Total RCC for GF LVL (M:25)			**364.00**	**M3**

24	Reinf^ in Super Structure						
	Stilt Beams						
	B1 = 1'00" x 2'00"	1	565.00				
	L = 1850' / 565.00 Mt's						
	Top Bars - 20Ø - 6# C/C			2.47	6.00	8371.00	
	Bottom Bars - 20Ø - 7# C/C			2.47	7.00	9766.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	3767.00	**2605.00**	
	B2 = 9" x 1'06"	1	200.00				
	L = 645'00"/ 200.00 Mt's						
	Top Bars						
	16Ø - 1# C/C + 20Ø - 2# C/C			1.58	1.00	317.00	
				2.47	2.00	988.00	
	Bottom Bars			1.58	2.00	633.00	
	16Ø - 2# C/C + 20Ø - 2# C/C			2.47	2.00	988.00	
	Stirups - 8Ø @150mm C/C		1.33	0.40	1334.00	**701.00**	
	B3 = 9" x 1'03"	1	85.00				
	L = 275'/85.00 Mt's						
	Top Bars						
	12Ø - 1# C/C + 16Ø - 2# C/C			0.89	1.00	76.00	
				1.58	2.00	269.00	
	Bottom Bars			1.58	3.00	403.00	
	16Ø - 3# C/C						
	Stirups - 8Ø @150mm C/C		1.17	0.40	567.00	**263.00**	
	Stilt Col's						
	C1 = 1'00" x 2'00"	60	3.10				
	20Ø - 14# C/C			2.47	14.00	6430.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	21.00	872.00	
	C2 = 1'00" x 3'00"	8	3.10				
	20Ø - 20# C/C			2.47	20.00	1225.00	
	Stirups - 8Ø @150mm C/C		2.35	0.40	21.00	156.00	
	SW1 = 8" x 10'00"	2	3.10				
	12Ø - 8# C/C			0.89	8.00	45.00	
	16Ø - 20# C/C			1.58	20.00	196.00	
	Stirups - 8Ø @150mm C/C	3		0.40	21.00	155.00	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	3.10				
	12Ø - 100# C/C			0.89	100.00	552.00	
	Stirups - 8Ø @150mm C/C	1					
	L = (7'03"*4)+(7'06"*2) = 45'/13.75 Mt's		13.75	0.40	21.00	115.00	
	Stilt Slab	2					
	L = 83'00"/25.50Mt's B = 89'00"/27.50Mt's						
	2(No's) Building		25.50	0.62	170.00	5352.00	
	10Ø @150mm C/C in Both Directions		27.50	0.62	184.00	6247.00	
			Total			46725.00	
			Add 5% Extra Qty.			2336.25	
			Grand Total Reinf^ in Stilt LVL			49062.00	Kg's

RCC (M:25) (1:1:2) for GF LVL - 364.00 M3

	Kg's	Bags's
Cement	4095	82.00
Fine Agg (Sand)	227500	-
C. Agg (Kapchi)	444080	-

PLS NOTE

Reinf^ Consumption in Footings = 49,062.00 Kg's

Basement Built-Up Area = 13,800.00 Sq. Ft

Reinf^ Consumption only footings Per/Sq. Ft = 49,062 / 13,800 = **3.55** Kg's/Ft

SCALE - NTS | R-0 | *A3 PRINTS* | S-35 GF Qty Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	GF Conc^ Qty Details
Drw - 2	GF Reinf^ Qty Details
Drw - 3	

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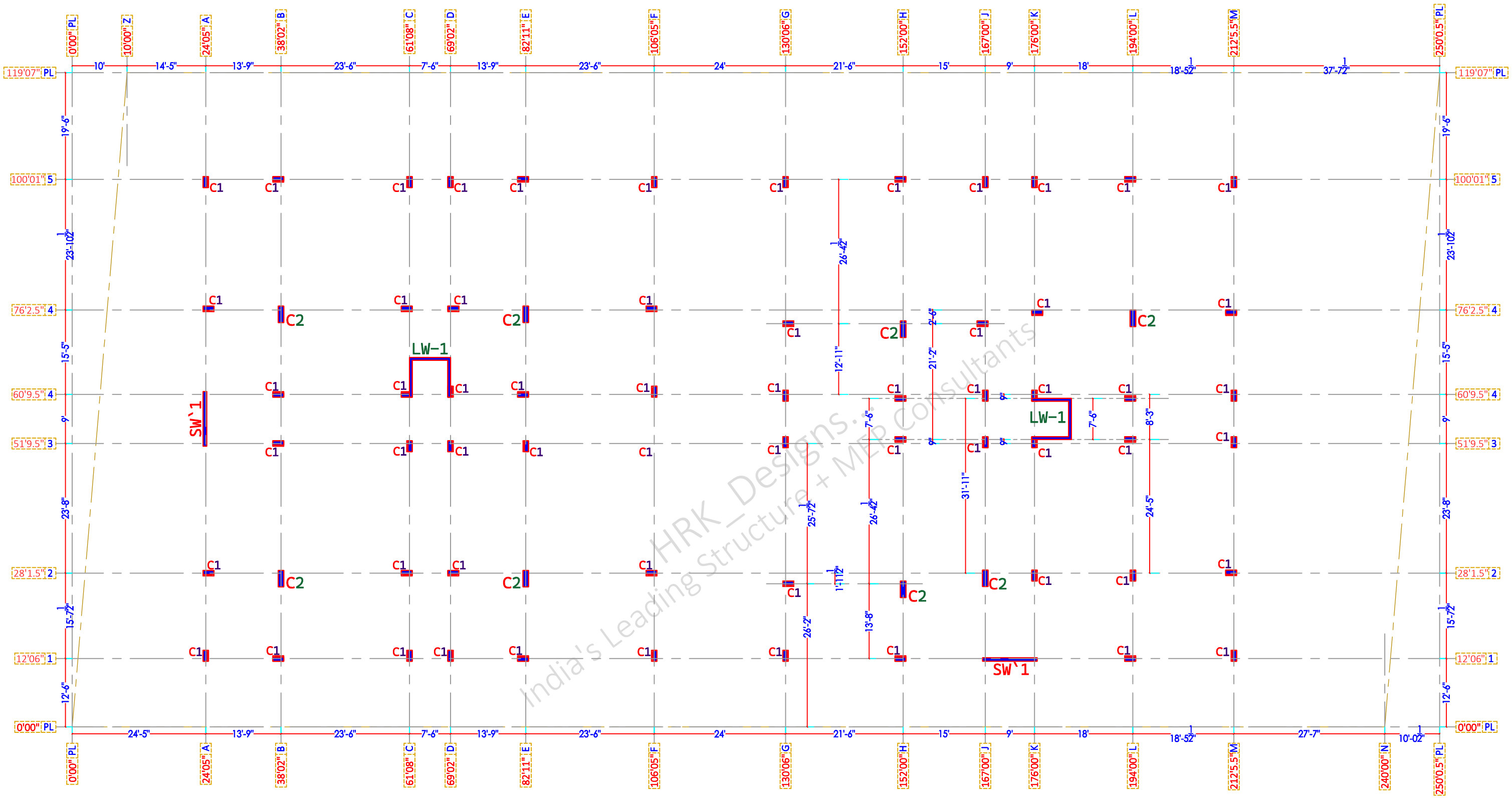
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SCALE - NTS | R-0 | *A3 PRINTS* | S-36 | Center line Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

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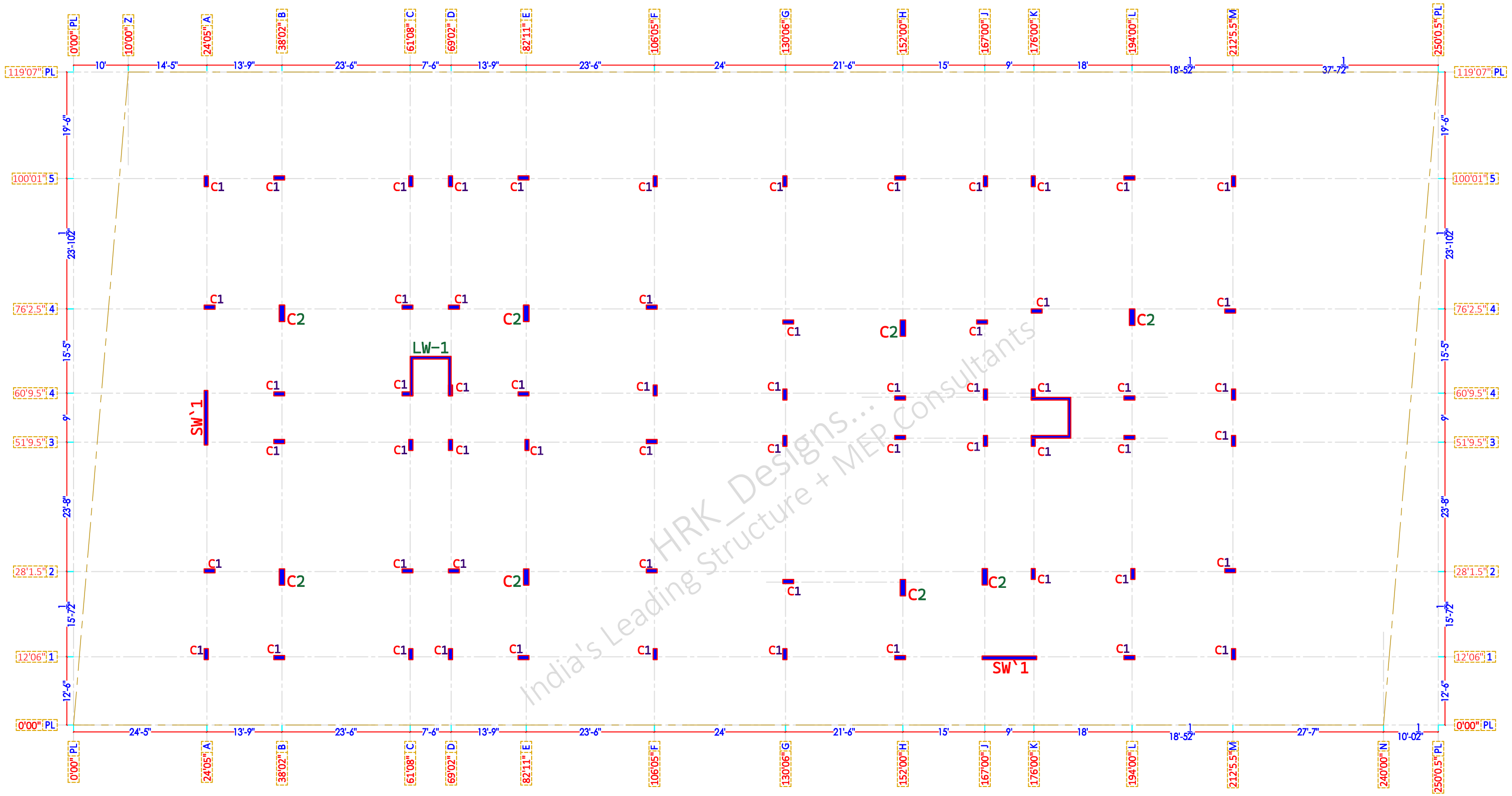
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SCALE - NTS | R-0 | *A3 PRINTS* | S-37 | Center line Details | B+G+7 @ Rajamahendravaram AP

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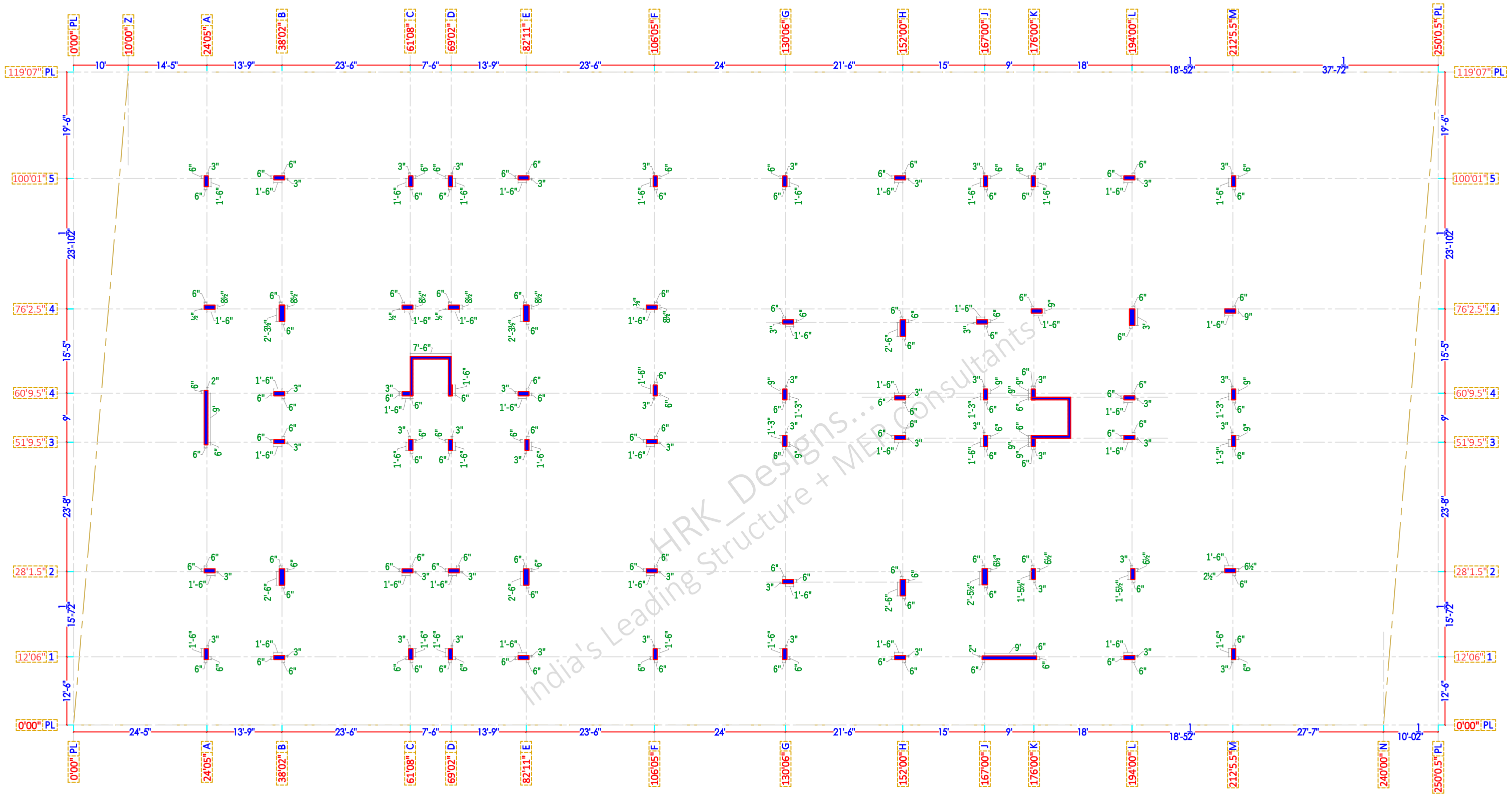
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SCALE - NTS	R-0	*A3 PRINTS*	S-38	Center line Details	B+G+7 @ Rajamahendravaram AP

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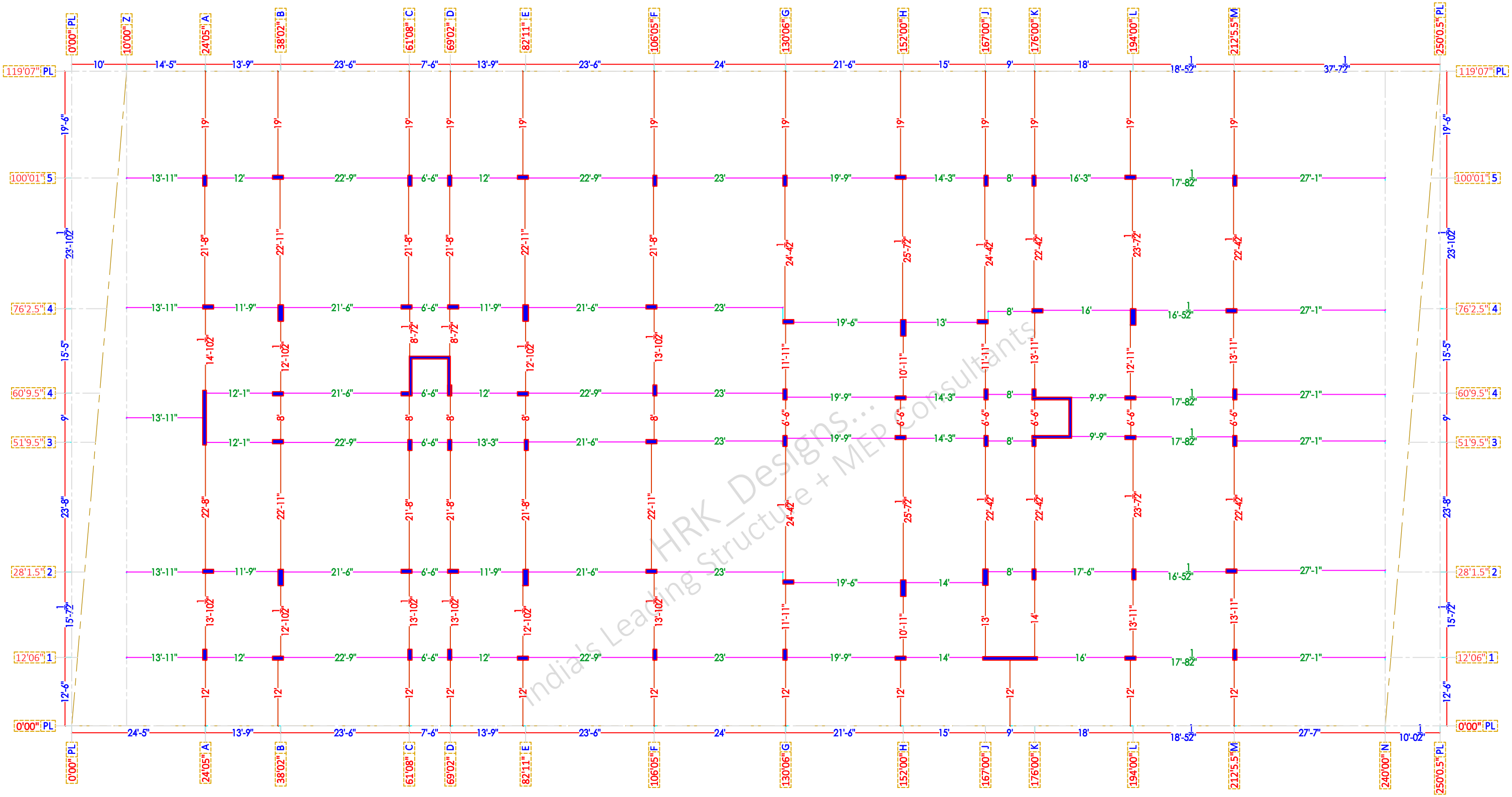
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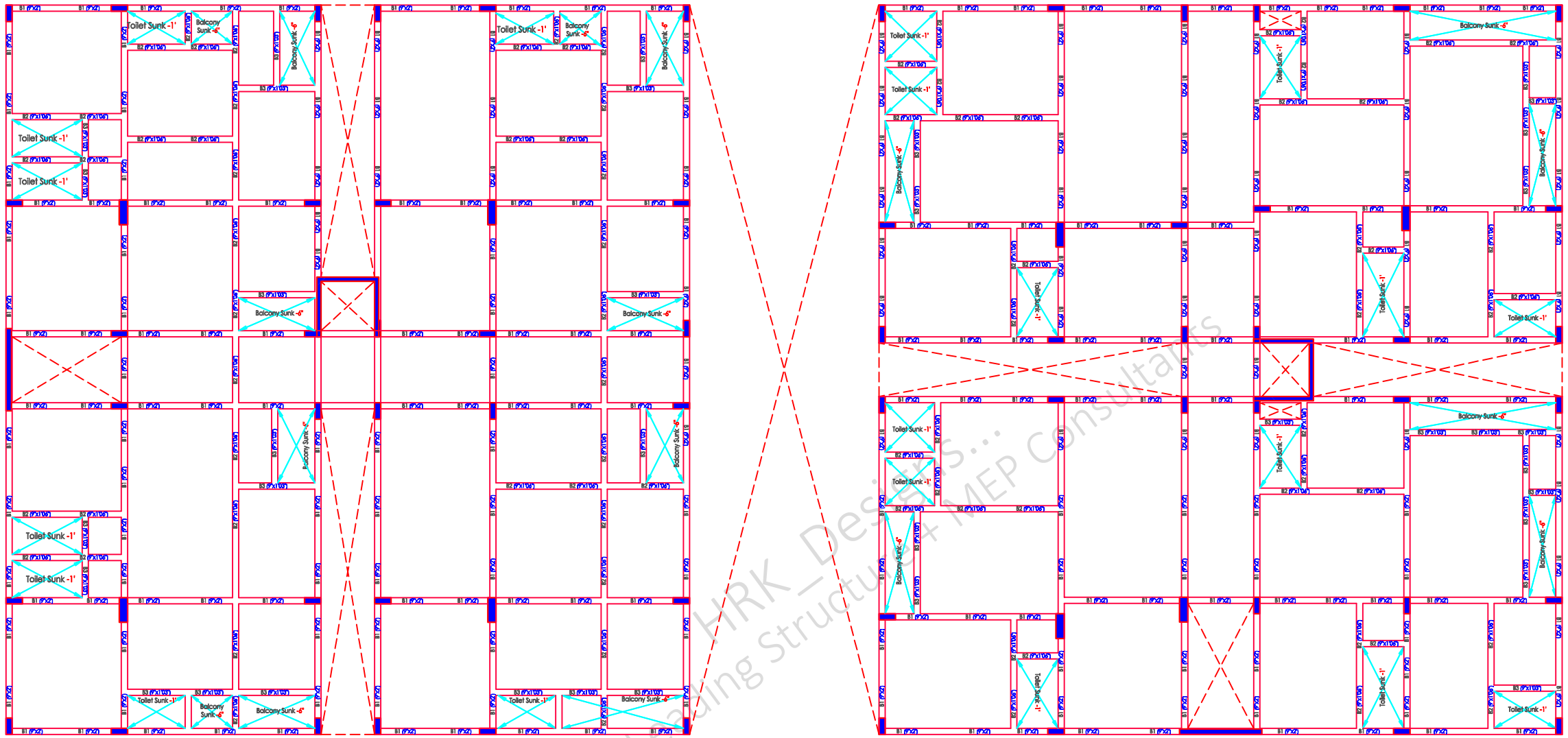
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Drw No	Drw Table
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Drw - 2	FF Beam Layout
Drw - 3	FF Beam Plan & C/S Details

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SCALE - NTS | R-0 | *A3 PRINTS*

SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	FF Beam Plan	
Drw - 2	FF Beam Layout	
Drw - 3	FF Beam Plan & C/S Details	

S-41 FF Beam Plan & Details

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PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

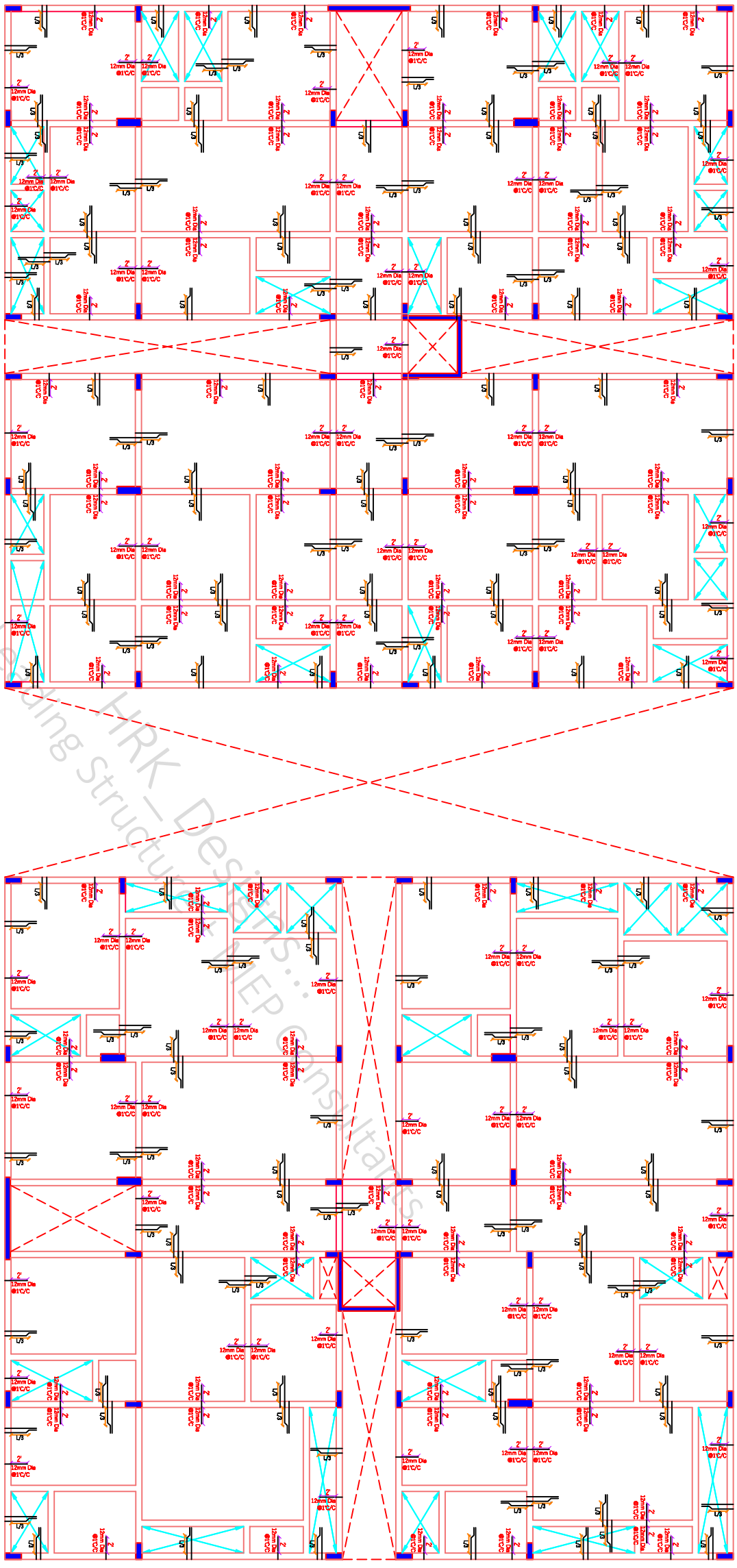
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SCALE - NTS | R-0 | *A3 PRINTS*

SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	FF Slab Plan	
Drw - 2	FF Slab Layout	
Drw - 3	FF Slab Plan & C/S Details	

S-42 FF Slab Plan & Details

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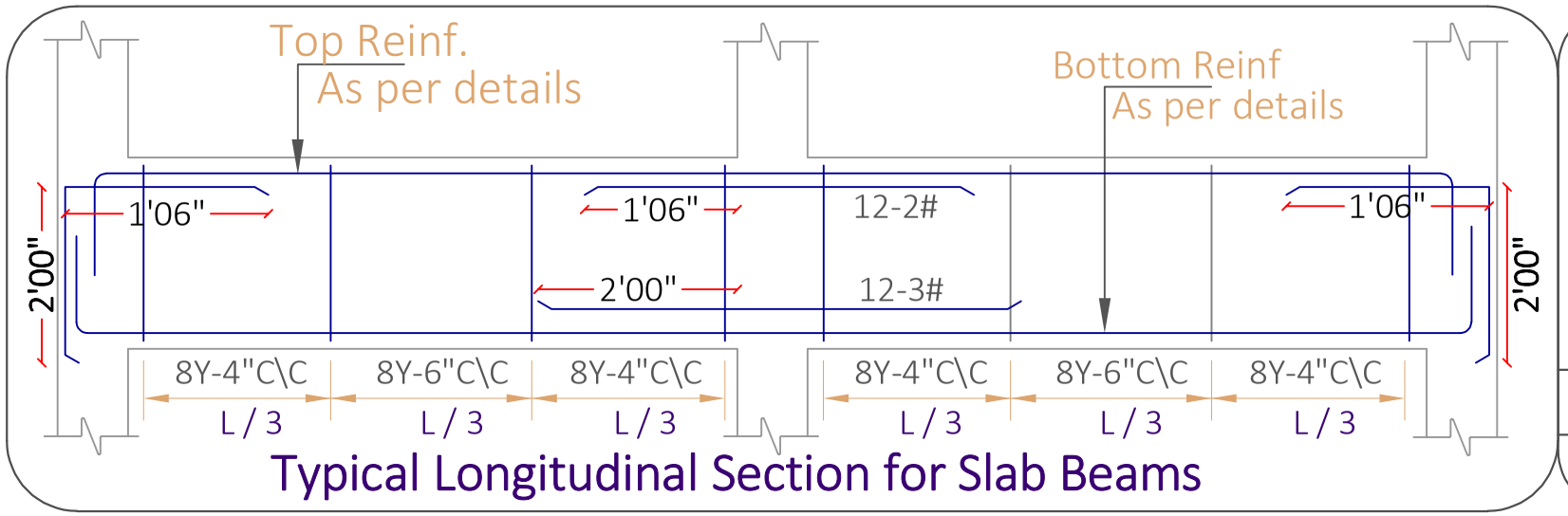
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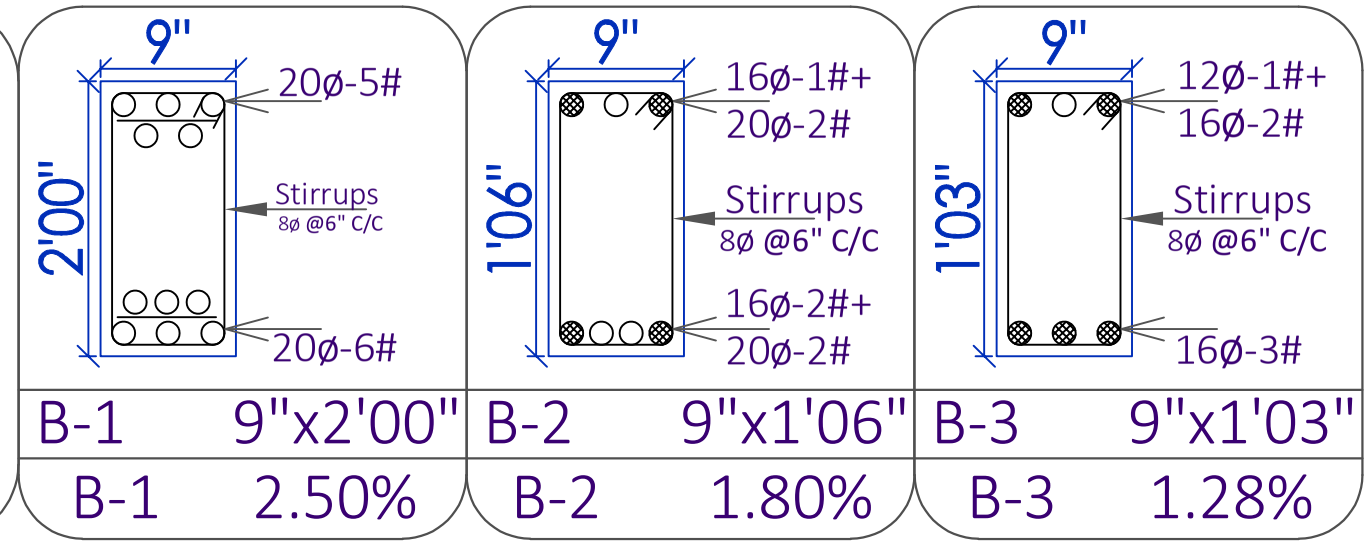
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Typical Longitudinal Section for Slab Beams



B-1	9"x2'00"	B-2	9"x1'06"	B-3	9"x1'03"
B-1	2.50%	B-2	1.80%	B-3	1.28%

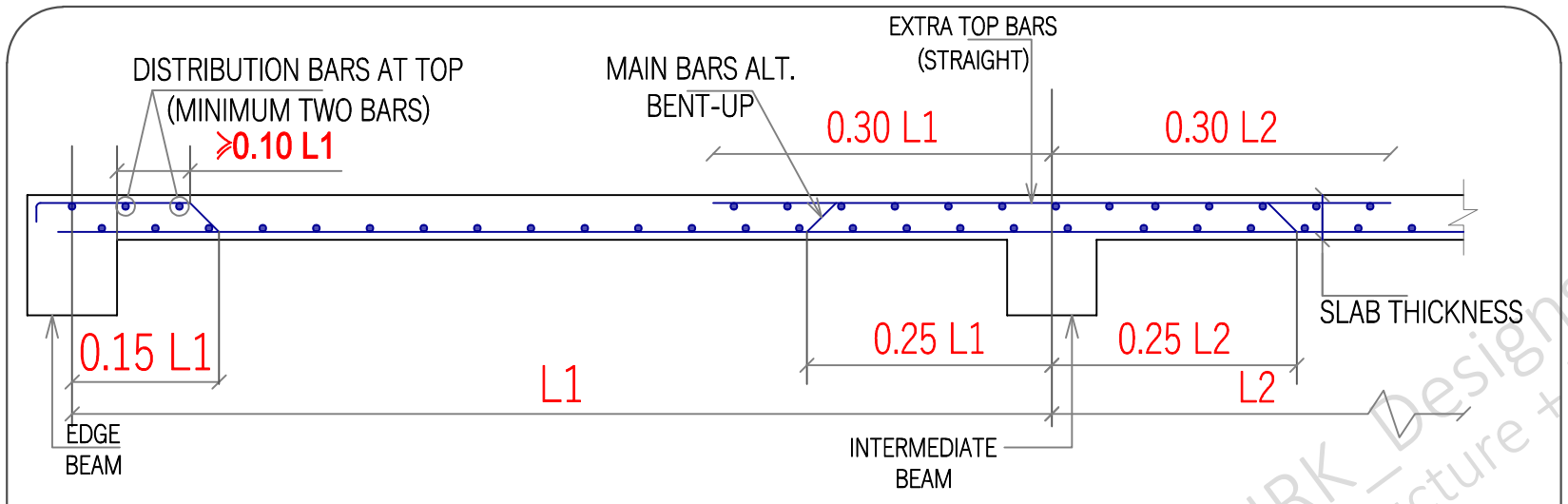


Figure - 4 Typical Slab Section for all the floors

○ SMALLER DIA REINFORCEMENT BAR

● LARGER DIA REINFORCEMENT BAR

Slab Thickness = 6"

10ø Bent-up bars @ 5" C/C

10ø Straight bars @ 5" C/C

12ø Extra bars @ 1' C/C (Junctions & Ends)

SCALE - NTS | R-0 | *A3 PRINTS* | S-43 FF Beam & Reinf^ Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	FF Beam & Slab C/S Details
Drw - 2	FF Beam & Slab Reinf^ C/S Details
Drw - 3	

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10	RCC (M:25) / (1:1:2) For FF LVL						
10.A	FF Col's						
	C1 = 9" x 2'00"	60	0.23	0.61	3.20	26.94	
	C2 = 1'00" x 3'00"	8	0.31	0.92	3.20	7.14	
	SW1 = 8" x 10'00"	2	0.20	3.05	3.20	3.96	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	0.15	6.71	3.20	6.44	
			Total			44.49	
			Add 5% Extra Qty.			2.22	
			Grand Total in FF Col's			47.00	
10.B	FF Beam's						
	B1 = 9" x 2'00"	1	565.00	0.23	0.61	79.27	
	L = (38'03"*8)+(88.5*6)+(82'*6)+(41'*8)+(86.5*2) = 1850' / 565.00 Mt's						
	B2 = 9" x 1'06"	1	200.00	0.23	0.46	21.16	
	L = (12'09"*14)+(86'05"*2)+(4'*2)+(9'09"*2)+(22'06")+6'03"+12'04"+20'06"+(5'00"*4)+6'00"+20'06"+12'03"+(14'08"*4)+5'00"+ 17'00"+11'00"+ 17'00"+17'06"+ 10'06"+7'06" = 645'00"/ 200.00 Mt's						
	B3 = 9" x 1'03"	1	85.00	0.23	0.38	7.43	
	L = (9'*8)+(22'06*2)+14'+7'06"+(3'03"*2)+(9'09"*2)+(9'03"*2)+(19'06"*2)+17'06"+(12'06"*2)+(5'00"*2) = 275'/85.00 Mt's						
			Total			107.86	
			Add 5% Extra Qty.			5.39	
			Grand Total in FF Beams			114.00	
10.C	FF Slab's						
	Slab = (6885+6920)= 13,805.00 Sq. Ft / 1285.00 Sq. Mt's T = 6"/0.15Mt's	1	1285.00		0.15	192.75	
			Total			192.75	
			Add 5% Extra Qty.			9.64	
			Grand Total in FF Slab			203.00	
			Total RCC for FF LVL (M:25)			364.00	M3

26	Reinf^ in Super Structure						
	FF Beams						
	B1 = 9" x 2'00"	1	565.00				
	L = 1850' / 565.00 Mt's						
	Top Bars - 20Ø - 5# C/C			2.47	5.00	6976.00	
	Bottom Bars - 20Ø - 6# C/C			2.47	6.00	8371.00	
	Stirups - 8Ø @150mm C/C		1.61	0.40	3767.00	**2396.00**	
	B2 = 9" x 1'06"	1	200.00				
	L = 645'00"/ 200.00 Mt's						
	Top Bars						
	16Ø - 1# C/C + 20Ø - 2# C/C			1.58	1.00	317.00	
				2.47	2.00	988.00	
	Bottom Bars			1.58	2.00	633.00	
	16Ø - 2# C/C + 20Ø - 2# C/C			2.47	2.00	988.00	
	Stirups - 8Ø @150mm C/C		1.33	0.40	1334.00	**701.00**	
	B3 = 9" x 1'03"	1	85.00				
	L = 275'/85.00 Mt's						
	Top Bars						
	12Ø - 1# C/C + 16Ø - 2# C/C			0.89	1.00	76.00	
				1.58	2.00	269.00	
	Bottom Bars			1.58	3.00	403.00	
	16Ø - 3# C/C						
	Stirups - 8Ø @150mm C/C		1.17	0.40	567.00	**263.00**	
	FF Col's						
	C1 = 9" x 2'00"	60	3.10				
	20Ø - 14# C/C			2.47	14.00	6430.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	21.00	872.00	
	C2 = 1'00" x 3'00"	8	3.10				
	20Ø - 20# C/C			2.47	20.00	1225.00	
	Stirups - 8Ø @150mm C/C		2.35	0.40	21.00	156.00	
	SW1 = 8" x 10'00"	2	3.10				
	12Ø - 8# C/C			0.89	8.00	45.00	
	16Ø - 20# C/C			1.58	20.00	196.00	
	Stirups - 8Ø @150mm C/C	3		0.40	21.00	155.00	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	3.10				
	12Ø - 100# C/C			0.89	100.00	552.00	
	Stirups - 8Ø @150mm C/C	1					
	L = (7'03"*4)+(7'06"*2) = 45'/13.75 Mt's		13.75	0.40	21.00	115.00	
	FF Slab	2					
	L = 83'00"/25.50Mt's B = 89'00"/27.50Mt's						
	2(No's) Building		25.50	0.62	170.00	5352.00	
	10Ø @150mm C/C in Both Directions		27.50	0.62	184.00	6247.00	
			Total			43726.00	
			Add 5% Extra Qty.			2186.30	
			Grand Total Reinf^ in FF LVL			45913.00	Kg's

RCC (M:25) (1:1:2) for FF LVL - 364.00 M3

	Kg's	Bags's
Cement	4095	82.00
Fine Agg (Sand)	227500	-
C. Agg (Kapchi)	444080	-

PLS NOTE

Reinf^ Consumption in Footings = 45,913.00 Kg's

Basement Built-Up Area = 13,800.00 Sq. Ft

Reinf^ Consumption only footings Per/Sq. Ft = 45,913 / 13,800 = **3.33** Kg's/Ft

SCALE - NTS | R-0 | *A3 PRINTS* | S-44 FF Qty Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

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Drw - 2	FF Reinf^ Qty Details
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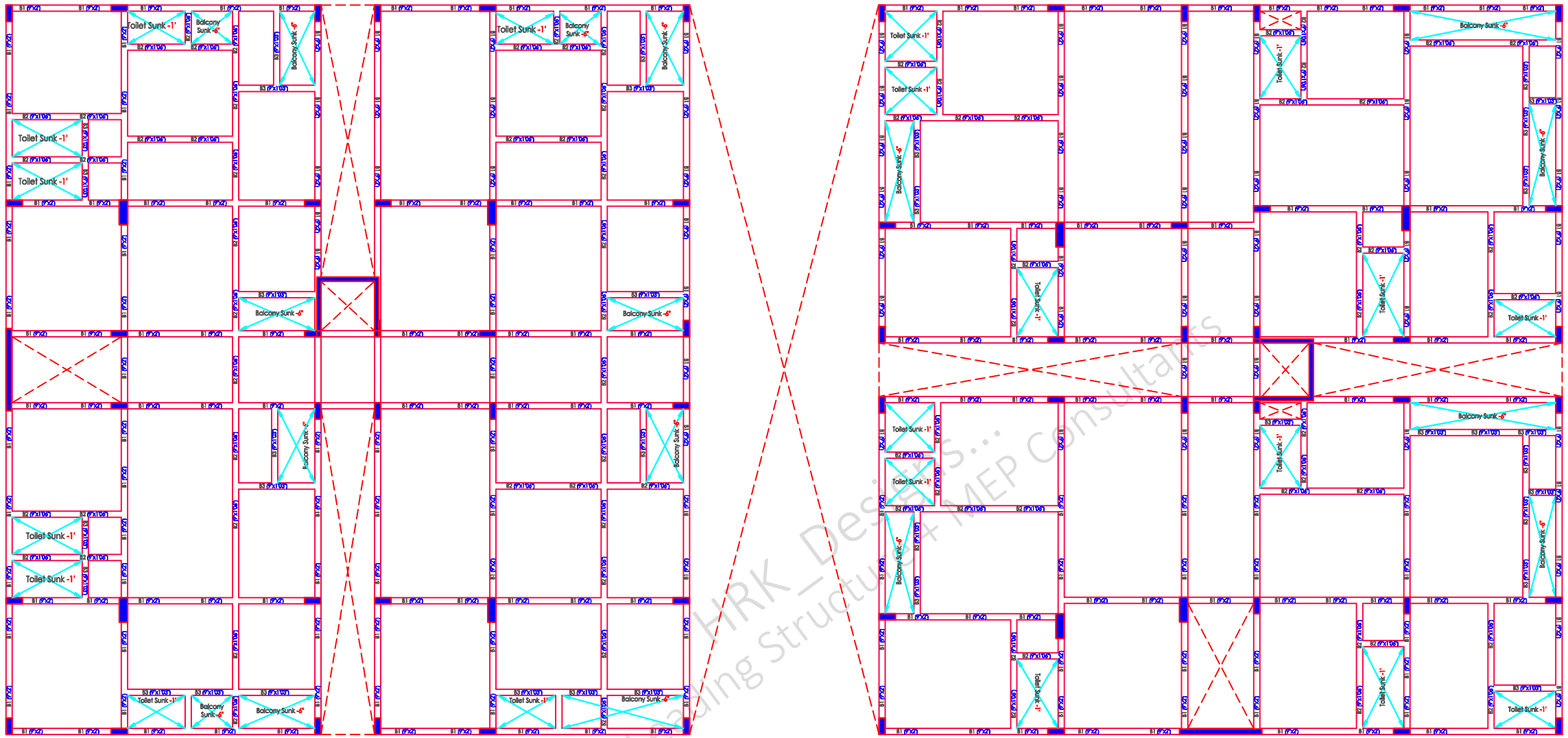
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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

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Drw - 2	SF Beam Layout
Drw - 3	SF Beam Plan & C/S Details

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SCALE - NTS | R-0 | *A3 PRINTS*

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Drw - 2	SF Beam Layout	
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S-46 SF Beam Plan & Details

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SCALE - NTS | R-0 | *A3 PRINTS*

S-47 SF Slab Plan & Details

SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024

Drw Table

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Drw - 2	SF Slab Layout
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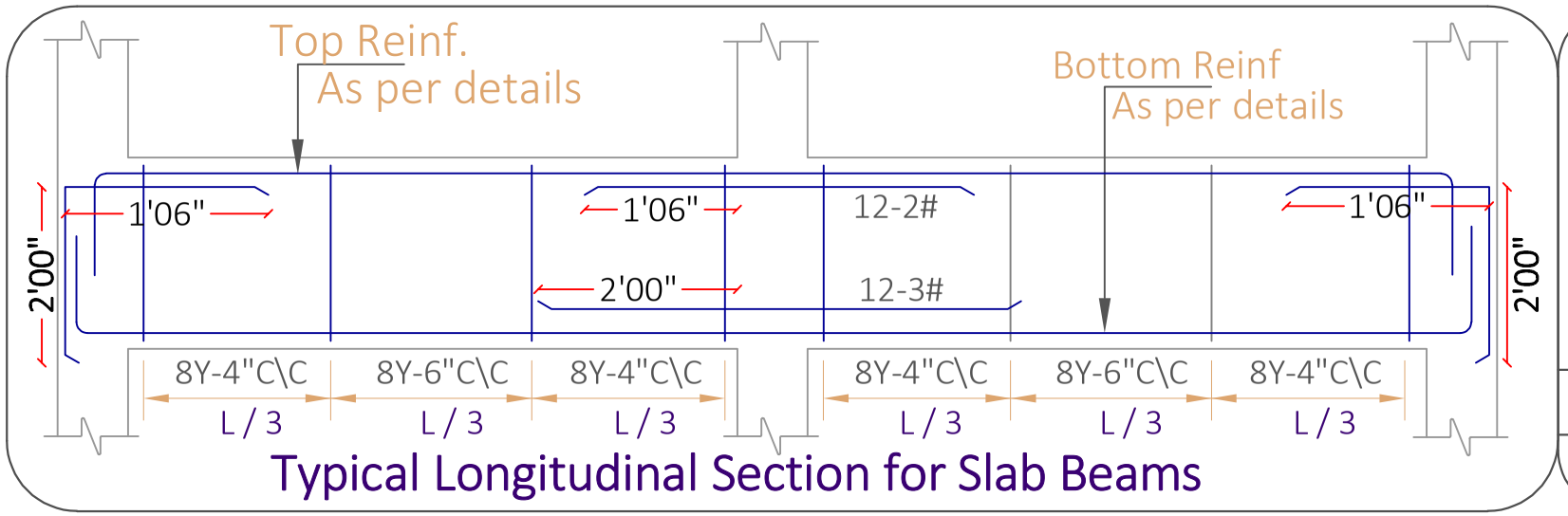
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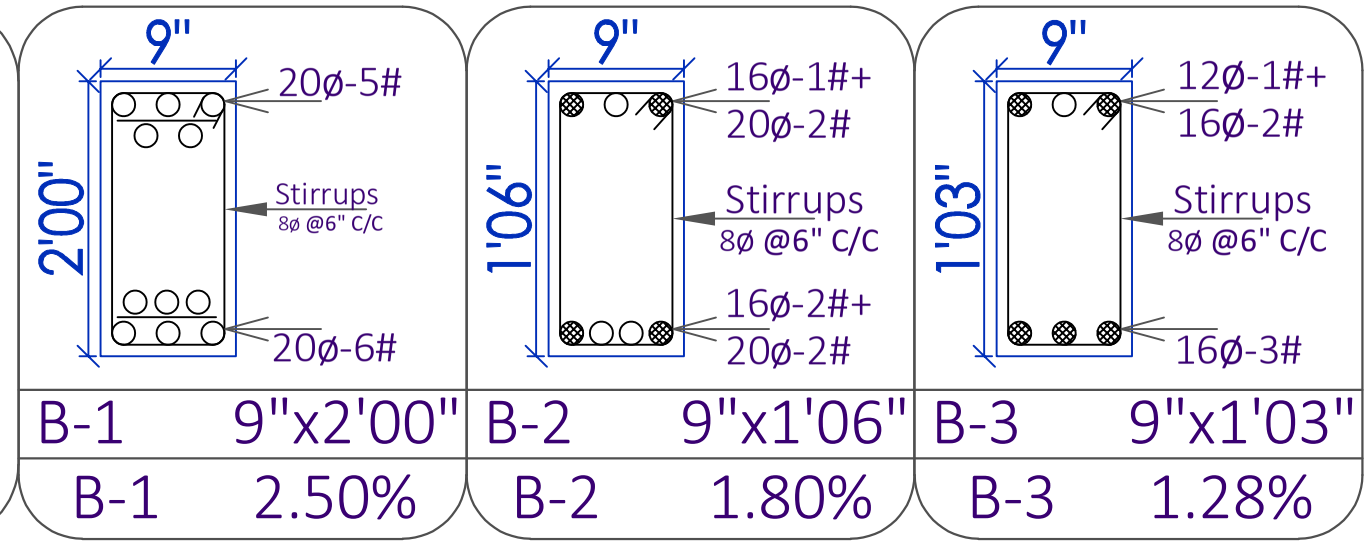
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Typical Longitudinal Section for Slab Beams



B-1	9"x2'00"	B-2	9"x1'06"	B-3	9"x1'03"
B-1	2.50%	B-2	1.80%	B-3	1.28%

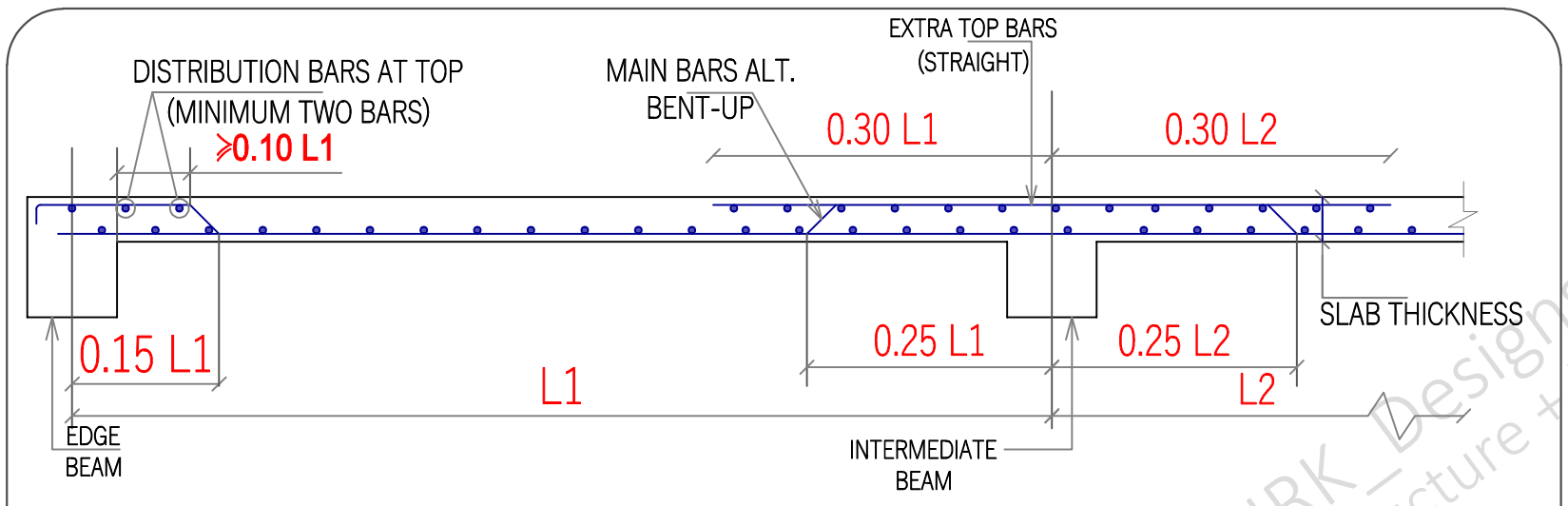


Figure - 4 Typical Slab Section for all the floors

○ SMALLER DIA REINFORCEMENT BAR

● LARGER DIA REINFORCEMENT BAR

Slab Thickness = 6"

10ø Bent-up bars @ 5" C/C

10ø Straight bars @ 5" C/C

12ø Extra bars @ 1' C/C (Junctions & Ends)

SCALE - NTS | R-0 | *A3 PRINTS* | S-48 SF Beam & Reinf^ Details | B+G+7 @ Rajamahendravaram AP

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5 - ALL RCC CONCRETE SHALL BE AS PER IS - 456
6 - CLEAR COVER SHOULD BE AS PER FOLLOWING SPECIFIED
(A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
7 - WATER USED FOR CONCRETING SHALL MEET CL - 5.4 IS - 456
8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	SF Beam & Slab C/S Details
Drw - 2	SF Beam & Slab Reinf^ C/S Details
Drw - 3	

PROJECT BY:-
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Civil & Structural Engineers
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11	RCC (M:25) / (1:1:2) For SF LVL						
11.A	SF Col's						
	C1 = 9" x 2'00"	60	0.23	0.61	3.20	26.94	
	C2 = 1'00" x 3'00"	8	0.31	0.92	3.20	7.14	
	SW1 = 8" x 10'00"	2	0.20	3.05	3.20	3.96	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	0.15	6.71	3.20	6.44	
			Total			44.49	
			Add 5% Extra Qty.			2.22	
			Grand Total in SF Col's			47.00	
11.B	SF Beam's						
	B1 = 9" x 2'00"	1	565.00	0.23	0.61	79.27	
	L = (38'03"*8)+(88.5*6)+(82'*6)+(41'*8)+(86.5*2) = 1850' / 565.00 Mt's						
	B2 = 9" x 1'06"	1	200.00	0.23	0.46	21.16	
	L = (12'09"*14)+(86'05"*2)+(4'*2)+(9'09"*2)+(22'06")+6'03"+12'04"+20'06"+(5'00"*4)+6'00"+20'06"+12'03"+(14'08"*4)+5'00"+ 17'00"+11'00"+ 17'00"+17'06"+ 10'06"+7'06" = 645'00"/ 200.00 Mt's						
	B3 = 9" x 1'03"	1	85.00	0.23	0.38	7.43	
	L = (9'*8)+(22'06*2)+14'+7'06"+(3'03"*2)+(9'09"*2)+(9'03"*2)+(19'06"*2)+17'06"+(12'06"*2)+(5'00"*2) = 275'/85.00 Mt's						
			Total			107.86	
			Add 5% Extra Qty.			5.39	
			Grand Total in SF Beams			114.00	
11.C	SF Slab's						
	Slab = (6885+6920)= 13,805.00 Sq. Ft / 1285.00 Sq. Mt's T = 6"/0.15Mt's	1	1285.00		0.15	192.75	
			Total			192.75	
			Add 5% Extra Qty.			9.64	
			Grand Total in SF Slab			203.00	
			Total RCC for SF LVL (M:25)			364.00	M3

27	Reinf^ in Super Structure						
	SF Beams						
	B1 = 9" x 2'00"	1	565.00				
	L = 1850' / 565.00 Mt's						
	Top Bars - 20Ø - 5# C/C			2.47	5.00	6976.00	
	Bottom Bars - 20Ø - 6# C/C			2.47	6.00	8371.00	
	Stirups - 8Ø @150mm C/C		1.61	0.40	3767.00	**2396.00**	
	B2 = 9" x 1'06"	1	200.00				
	L = 645'00"/ 200.00 Mt's						
	Top Bars						
	16Ø - 1# C/C + 20Ø - 2# C/C			1.58	1.00	317.00	
				2.47	2.00	988.00	
	Bottom Bars			1.58	2.00	633.00	
	16Ø - 2# C/C + 20Ø - 2# C/C			2.47	2.00	988.00	
	Stirups - 8Ø @150mm C/C		1.33	0.40	1334.00	**701.00**	
	B3 = 9" x 1'03"	1	85.00				
	L = 275'/85.00 Mt's						
	Top Bars						
	12Ø - 1# C/C + 16Ø - 2# C/C			0.89	1.00	76.00	
				1.58	2.00	269.00	
	Bottom Bars			1.58	3.00	403.00	
	16Ø - 3# C/C						
	Stirups - 8Ø @150mm C/C		1.17	0.40	567.00	263.00	
	SF Col's						
	C1 = 9" x 2'00"	60	3.10				
	16Ø - 4# C/C			2.47	4.00	1838.00	
	20Ø - 8# C/C			2.47	8.00	3675.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	21.00	872.00	
	C2 = 1'00" x 3'00"	8	3.10				
	20Ø - 20# C/C			2.47	20.00	1225.00	
	Stirups - 8Ø @150mm C/C		2.35	0.40	21.00	156.00	
	SW1 = 8" x 10'00"	2	3.10				
	12Ø - 8# C/C			0.89	8.00	45.00	
	16Ø - 20# C/C			1.58	20.00	196.00	
	Stirups - 8Ø @150mm C/C	3		0.40	21.00	155.00	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	3.10				
	12Ø - 100# C/C			0.89	100.00	552.00	
	Stirups - 8Ø @150mm C/C	1					
	L = (7'03"*4)+(7'06"*2) = 45'/13.75 Mt's		13.75	0.40	21.00	115.00	
	SF Slab	2					
	L = 83'00"/25.50Mt's B = 89'00"/27.50Mt's						
	2(No's) Building		25.50	0.62	170.00	5352.00	
	10Ø @150mm C/C in Both Directions		27.50	0.62	184.00	6247.00	
			Total			42809.00	
			Add 5% Extra Qty.			2140.45	
			Grand Total Reinf^ in SF LVL			44950.00	Kg's

RCC (M:25) (1:1:2) for SF LVL - 364.00 M3

	Kg's	Bags's
Cement	4095	82.00
Fine Agg (Sand)	227500	-
C. Agg (Kapchi)	444080	-

PLS NOTE

Reinf^ Consumption in Footings = 44,950.00 Kg's

Basement Built-Up Area = 13,800.00 Sq. Ft

Reinf^ Consumption only footings Per/Sq. Ft = 44,950 / 13,800 = **3.25** Kg's/Ft

SCALE - NTS | R-0 | *A3 PRINTS* | S-49 SF Qty Details | B+G+7 @ Rajamahendravaram AP

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Drw No	Drw Table
Drw - 1	SF Conc^ Qty Details
Drw - 2	SF Reinf^ Qty Details
Drw - 3	

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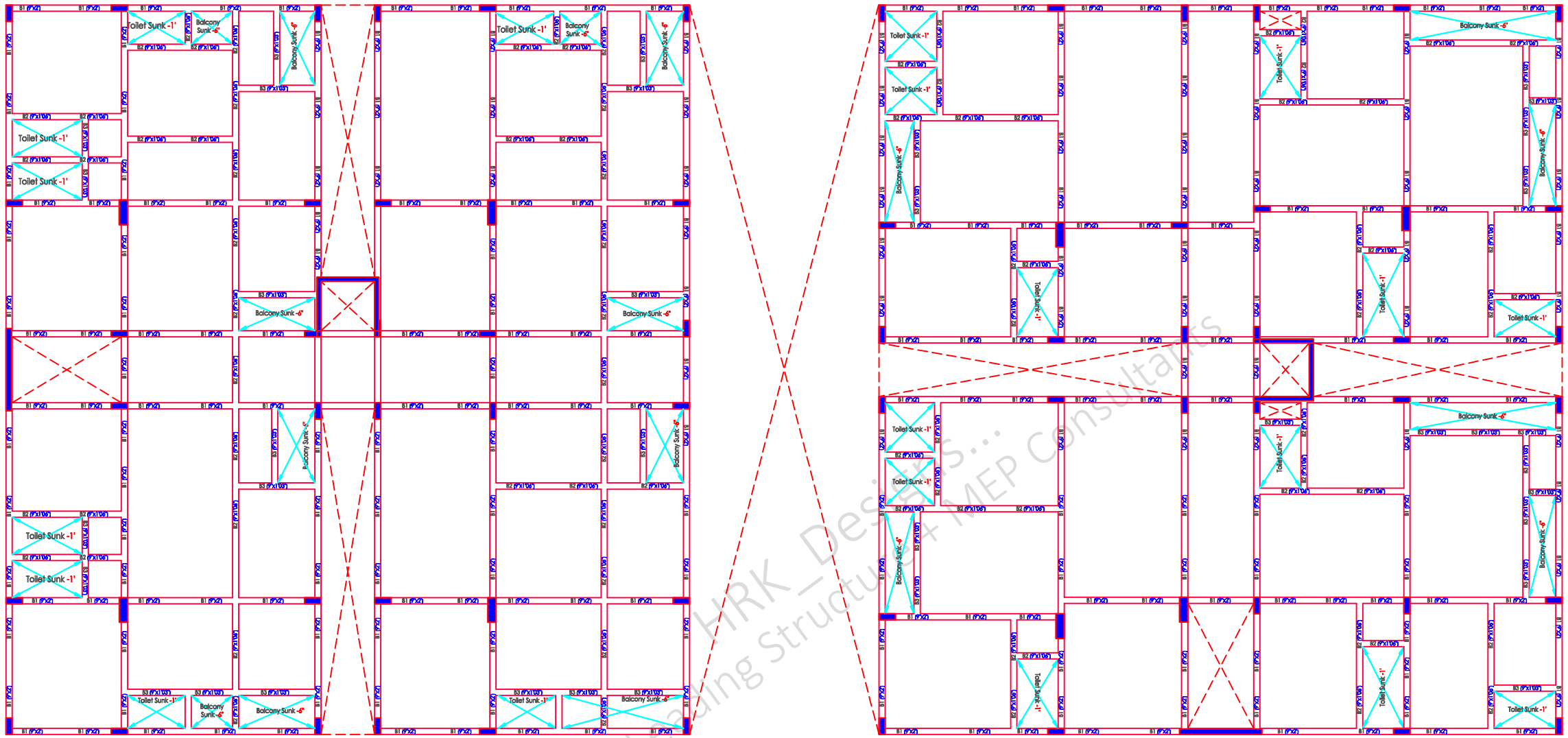
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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	3rd Beam Plan
Drw - 2	3rd Beam Layout
Drw - 3	3rd Beam Plan & C/S Details

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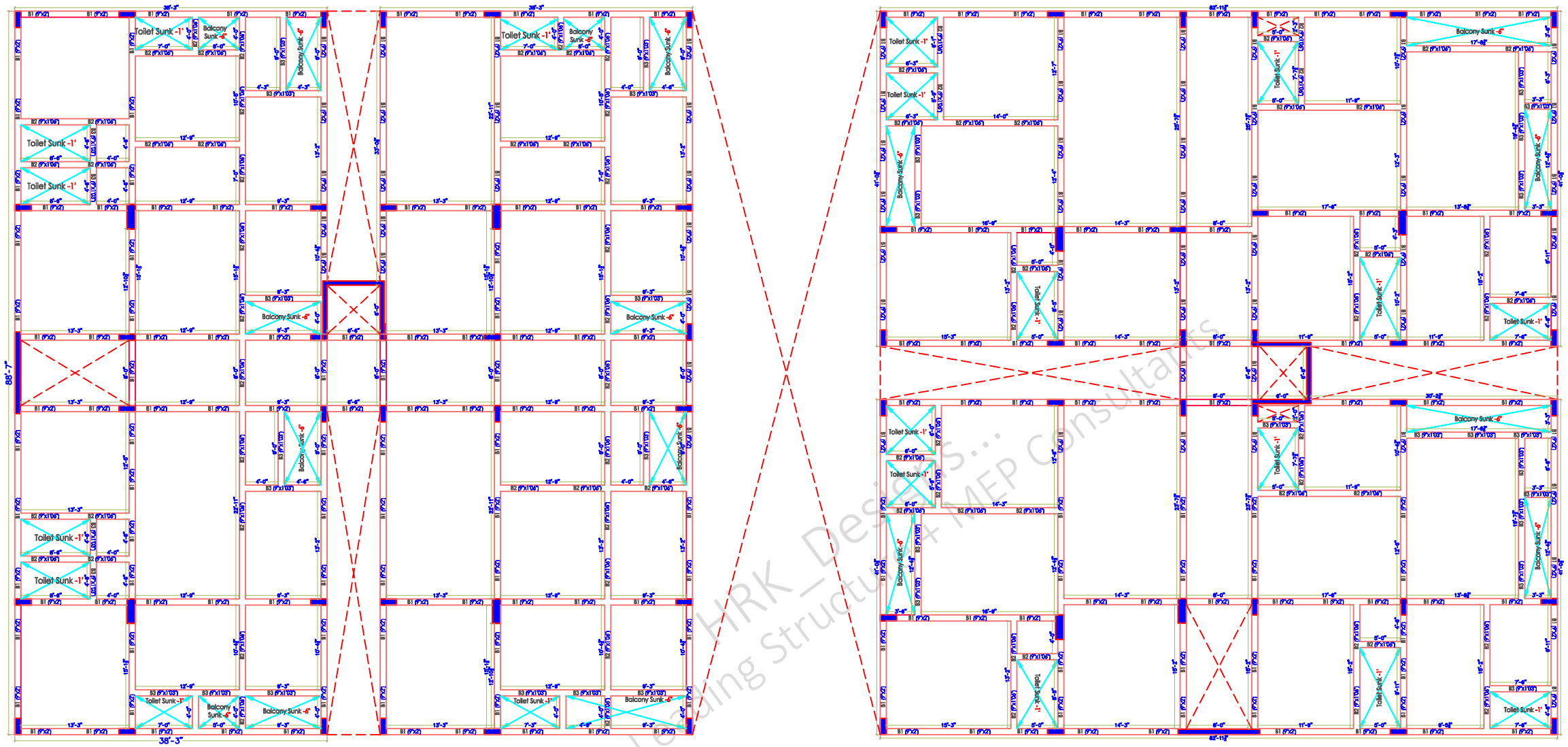
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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	3rd Beam Plan
Drw - 2	3rd Beam Layout
Drw - 3	3rd Beam Plan & C/S Details

PROJECT BY:-

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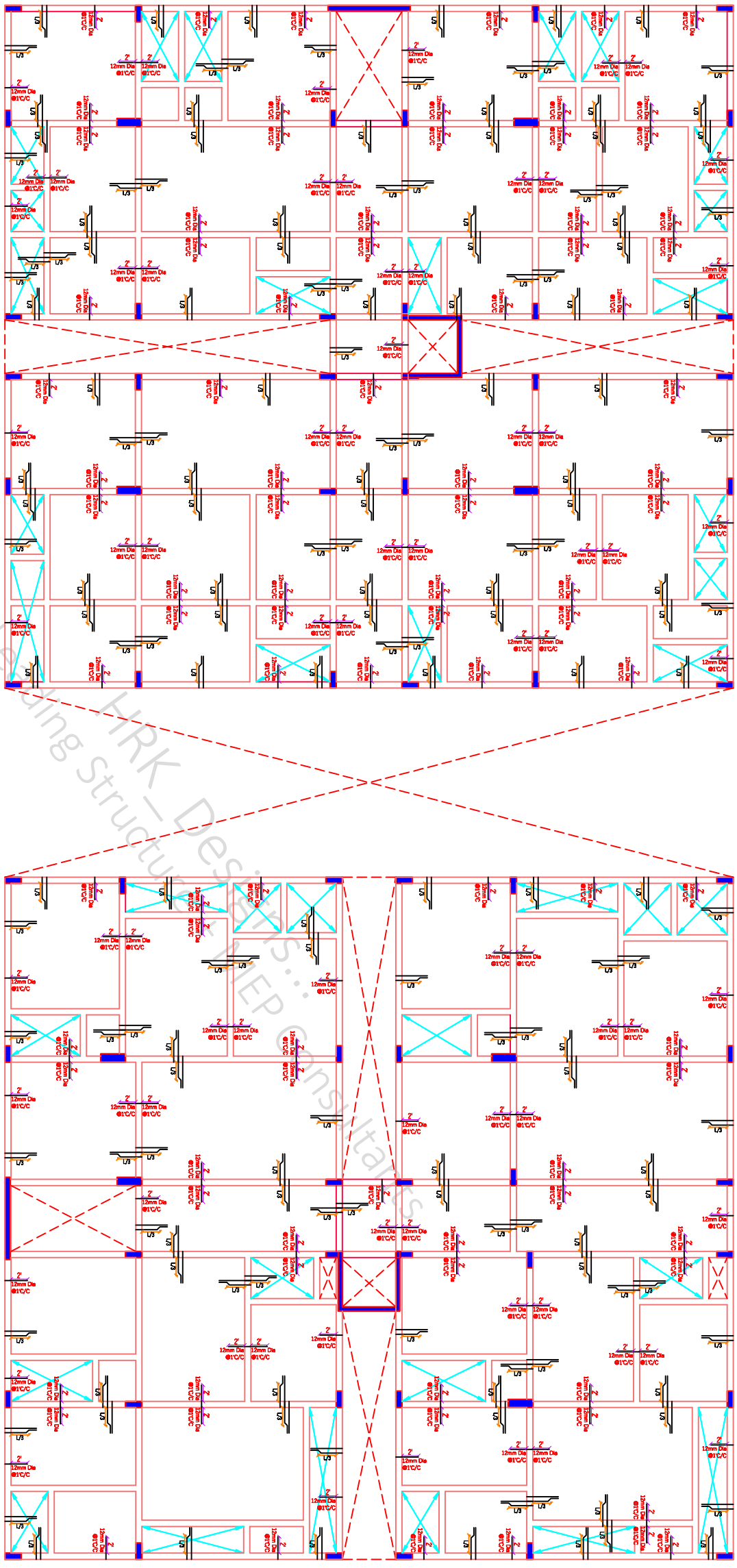
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SCALE - NTS | R-0 | *A3 PRINTS*

SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	3rd Slab Plan	
Drw - 2	3rd Slab Layout	
Drw - 3	3rd Slab Plan & C/S Details	

S-52 3rd Slab Plan & Details

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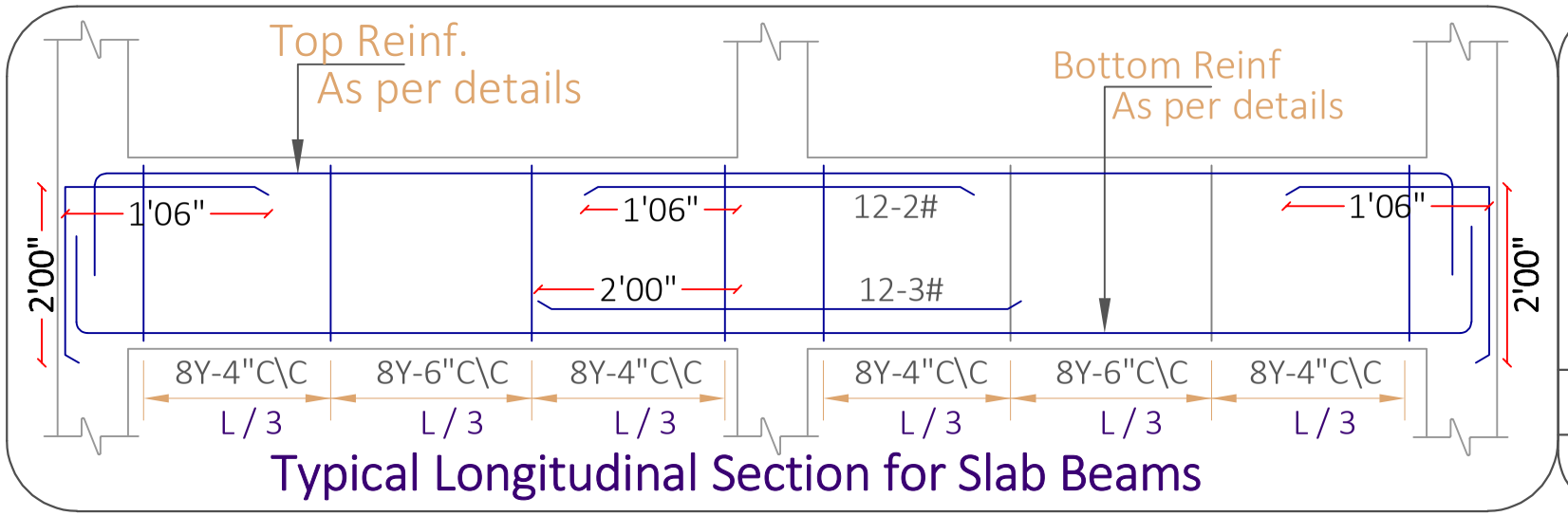
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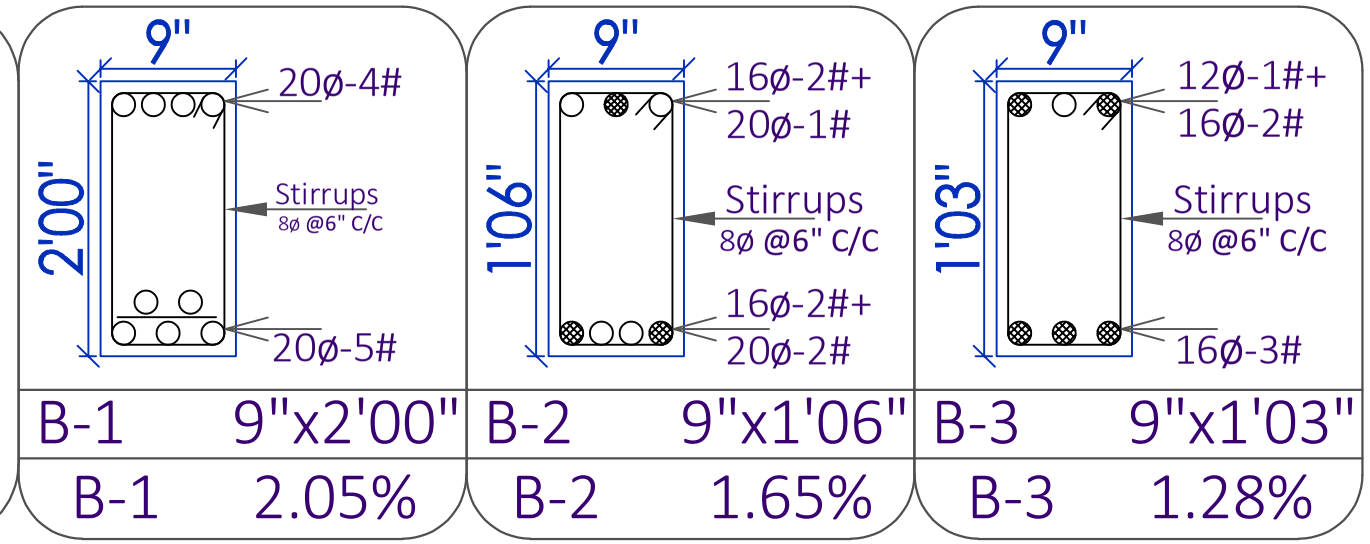
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Typical Longitudinal Section for Slab Beams



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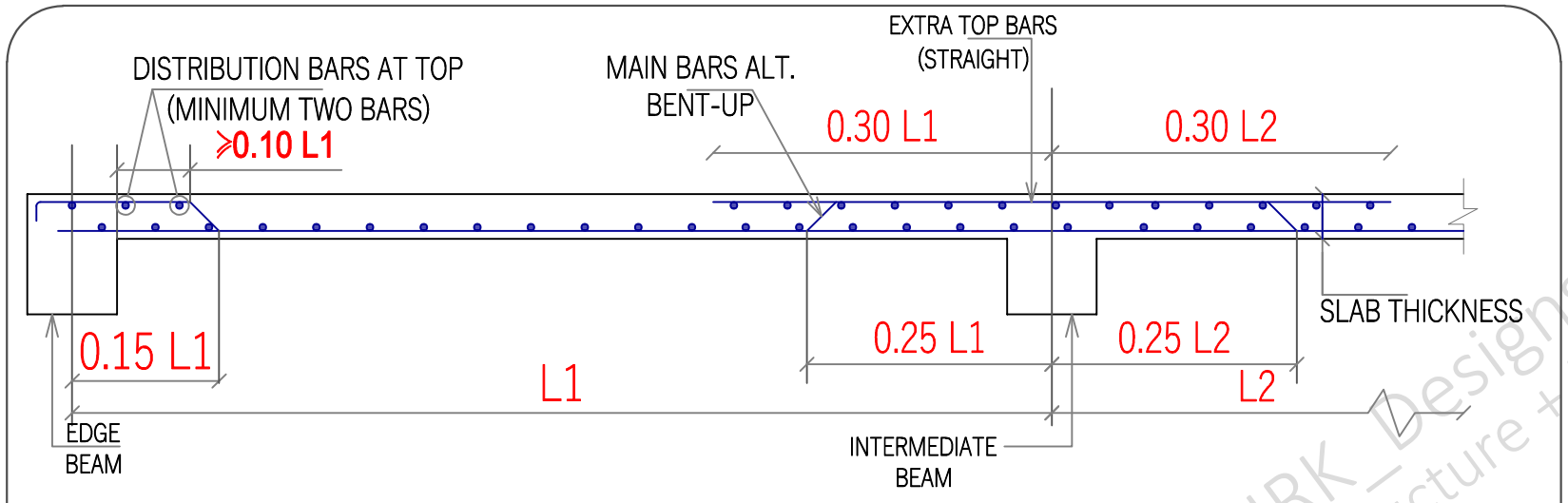


Figure - 4 Typical Slab Section for all the floors

○ SMALLER DIA REINFORCEMENT BAR

● LARGER DIA REINFORCEMENT BAR

Slab Thickness = 6"

10ø Bent-up bars @ 5" C/C

10ø Straight bars @ 5" C/C

12ø Extra bars @ 1' C/C (Junctions & Ends)

SCALE - NTS | R-0 | *A3 PRINTS* | S-53 3rd Beam & Reinf^ Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	3rd Beam & Slab C/S Details
Drw - 2	3rd Beam & Slab Reinf^ C/S Details
Drw - 3	

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

CHK	DRW
AKA	HP
HRK/Er.NML/GFC/13/24/6	
HRKD/13/01/22/2024	

HRK DESIGNS STRUCTURE CONSULTANTS INDIA PVT LTD
Vasna Bayali Road TP2 Gotri Road Vadodara - 391014
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HRK Designs

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12	RCC (M:25) / (1:1:2) For 3rd LVL						
12.A	3rd Col's						
	C1 = 9" x 2'00"	60	0.23	0.61	3.20	26.94	
	C2 = 1'00" x 3'00"	8	0.31	0.92	3.20	7.14	
	SW1 = 8" x 10'00"	2	0.20	3.05	3.20	3.96	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	0.15	6.71	3.20	6.44	
			Total			44.49	
			Add 5% Extra Qty.			2.22	
			Grand Total in 3rd Col's			47.00	
12.B	3rd Beam's						
	B1 = 9" x 2'00"	1	565.00	0.23	0.61	79.27	
	L = (38'03"*8)+(88.5*6)+(82'*6)+(41'*8)+(86.5*2) = 1850' / 565.00 Mt's						
	B2 = 9" x 1'06"	1	200.00	0.23	0.46	21.16	
	L = (12'09"*14)+(86'05"*2)+(4'*2)+(9'09"*2)+(22'06")+6'03"+12'04"+20'06"+(5'00"*4)+6'00"+20'06"+12'03"+(14'08"*4)+5'00"+ 17'00"+11'00"+ 17'00"+17'06"+ 10'06"+7'06" = 645'00"/ 200.00 Mt's						
	B3 = 9" x 1'03"	1	85.00	0.23	0.38	7.43	
	L = (9'*8)+(22'06*2)+14'+7'06"+(3'03"*2)+(9'09"*2)+(9'03"*2)+(19'06"*2)+17'06"+(12'06"*2)+(5'00"*2) = 275'/85.00 Mt's						
			Total			107.86	
			Add 5% Extra Qty.			5.39	
			Grand Total in 3rd Beams			114.00	
12.C	3rd Slab's						
	Slab = (6885+6920)= 13,805.00 Sq. Ft / 1285.00 Sq. Mt's T = 6"/0.15Mt's	1	1285.00		0.15	192.75	
			Total			192.75	
			Add 5% Extra Qty.			9.64	
			Grand Total in 3rd Slab			203.00	
		Total RCC for 3rd LVL (M:25)				364.00	M3

28	Reinf^ in Super Structure						
	3rd Beams						
	B1 = 9" x 2'00"	1	565.00				
	L = 1850' / 565.00 Mt's						
	Top Bars - 20Ø - 4# C/C			2.47	4.00	5581.00	
	Bottom Bars - 20Ø - 5# C/C			2.47	5.00	6976.00	
	Stirups - 8Ø @150mm C/C		1.61	0.40	3767.00	**2396.00**	
	B2 = 9" x 1'06"	1	200.00				
	L = 645'00"/ 200.00 Mt's						
	Top Bars						
	16Ø - 2# C/C + 20Ø - 1# C/C			1.58	2.00	633.00	
				2.47	1.00	494.00	
	Bottom Bars			1.58	2.00	633.00	
	16Ø - 2# C/C + 20Ø - 2# C/C			2.47	2.00	988.00	
	Stirups - 8Ø @150mm C/C		1.33	0.40	1334.00	**701.00**	
	B3 = 9" x 1'03"	1	85.00				
	L = 275'/85.00 Mt's						
	Top Bars						
	12Ø - 1# C/C + 16Ø - 2# C/C			0.89	1.00	76.00	
				1.58	2.00	269.00	
	Bottom Bars			1.58	3.00	403.00	
	16Ø - 3# C/C						
	Stirups - 8Ø @150mm C/C		1.17	0.40	567.00	**263.00**	
	3rd Col's						
	C1 = 9" x 2'00"	60	3.10				
	16Ø - 8# C/C			1.58	8.00	2352.00	
	20Ø - 4# C/C			2.47	4.00	1838.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	21.00	872.00	
	C2 = 1'00" x 3'00"	8	3.10				
	20Ø - 20# C/C			2.47	20.00	1225.00	
	Stirups - 8Ø @150mm C/C		2.35	0.40	21.00	156.00	
	SW1 = 8" x 10'00"	2	3.10				
	12Ø - 8# C/C			0.89	8.00	45.00	
	16Ø - 20# C/C			1.58	20.00	196.00	
	Stirups - 8Ø @150mm C/C	3		0.40	21.00	155.00	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	3.10				
	12Ø - 100# C/C			0.89	100.00	552.00	
	Stirups - 8Ø @150mm C/C	1					
	L = (7'03"*4)+(7'06"*2) = 45'/13.75 Mt's		13.75	0.40	21.00	115.00	
	3rd Slab	2					
	L = 83'00"/25.50Mt's B = 89'00"/27.50Mt's						
	2(No's) Building		25.50	0.62	170.00	5352.00	
	10Ø @150mm C/C in Both Directions		27.50	0.62	184.00	6247.00	
			Total			38518.00	
			Add 5% Extra Qty.			1925.90	
			Grand Total Reinf^ in 3rd LVL			40444.00	Kg's

RCC (M:25) (1:1:2) for 3rd LVL - 364.00 M3

	Kg's	Bags's
Cement	4095	82.00
Fine Agg (Sand)	227500	-
C. Agg (Kapchi)	444080	-

PLS NOTE

Reinf^ Consumption in Footings = 40,444.00 Kg's

Basement Built-Up Area = 13,800.00 Sq. Ft

Reinf^ Consumption only footings Per/Sq. Ft = 40,444 / 13,800 = **2.93** Kg's/Ft

SCALE - NTS | R-0 | *A3 PRINTS* | S-54 | 3rd Qty Details | B+G+7 @ Rajamahendravaram AP

NOTES

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5 - ALL RCC CONCRETE SHALL BE AS PER IS - 456
6 - CLEAR COVER SHOULD BE AS PER FOLLOWING SPECIFIED
(A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
7 - WATER USED FOR CONCRETING SHALL MEET CL - 5.4 IS - 456
8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

CODES USED FOR DESIGNING
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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	3rd Conc^ Qty Details
Drw - 2	3rd Reinf^ Qty Details
Drw - 3	

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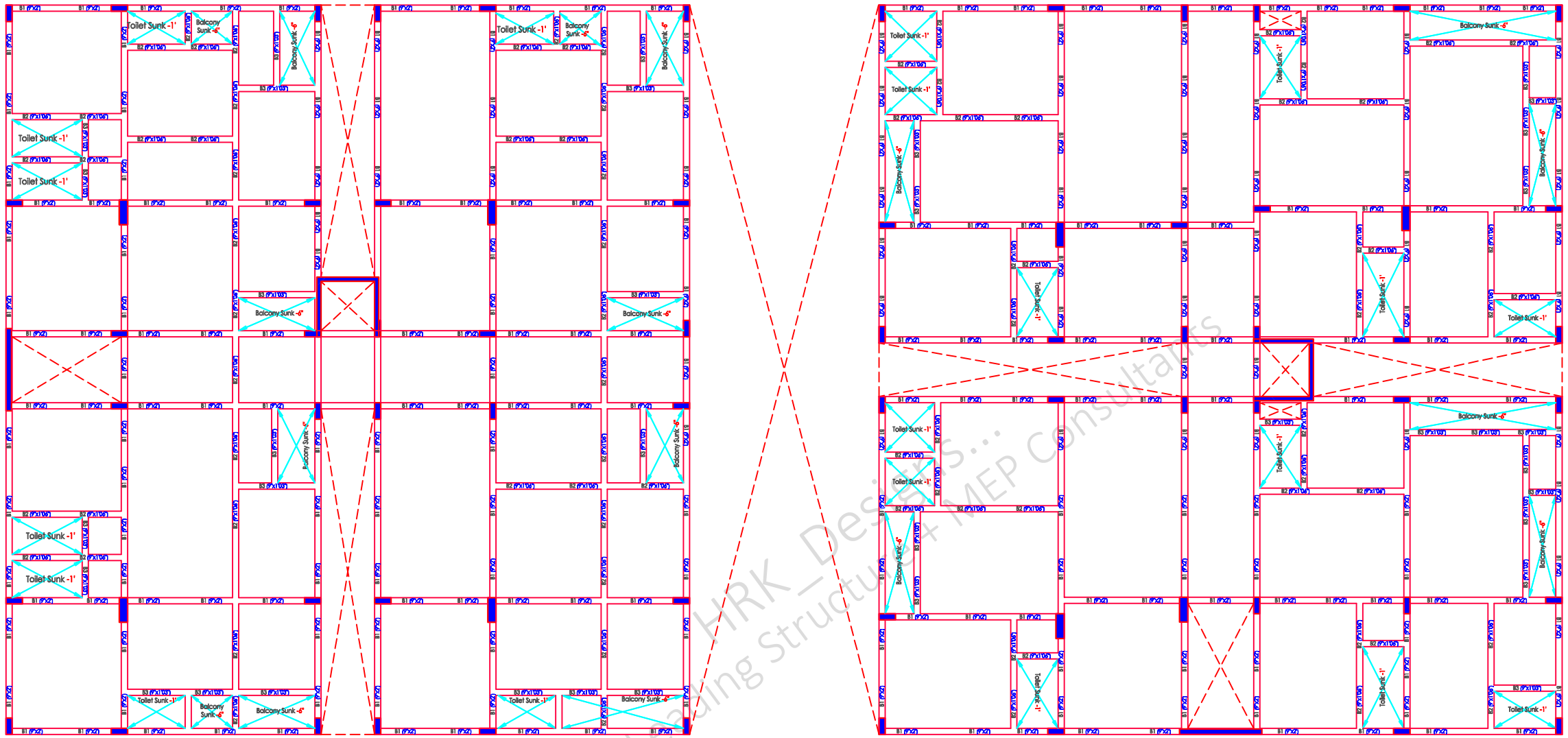
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SCALE - NTS | R-0 | *A3 PRINTS* | S-55 | 4th Beam Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	4th Beam Plan
Drw - 2	4th Beam Layout
Drw - 3	4th Beam Plan & C/S Details

PROJECT BY:-

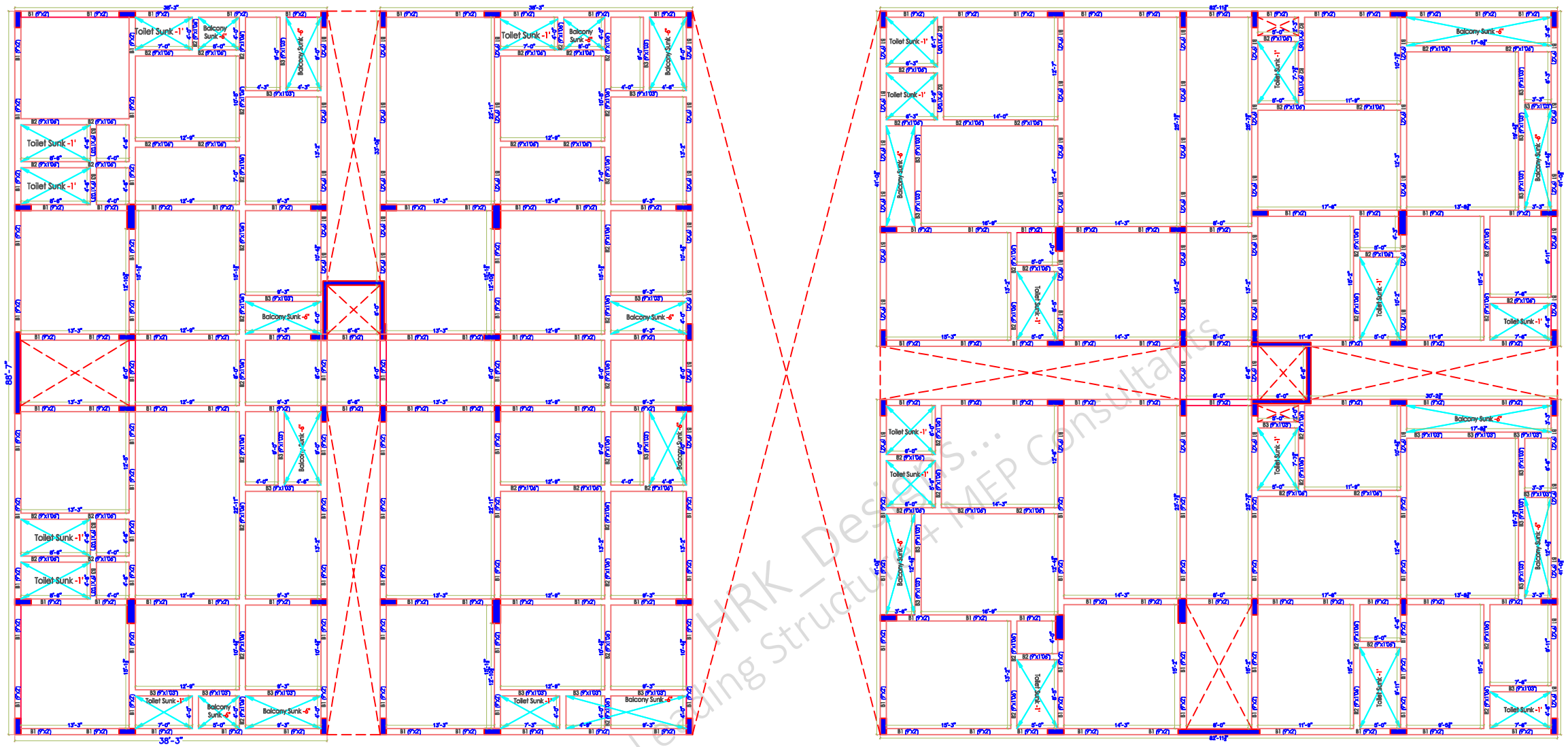
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SCALE - NTS | R-0 | *A3 PRINTS* | S-56 | 4th Beam Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
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Drw - 2	4th Beam Layout
Drw - 3	4th Beam Plan & C/S Details

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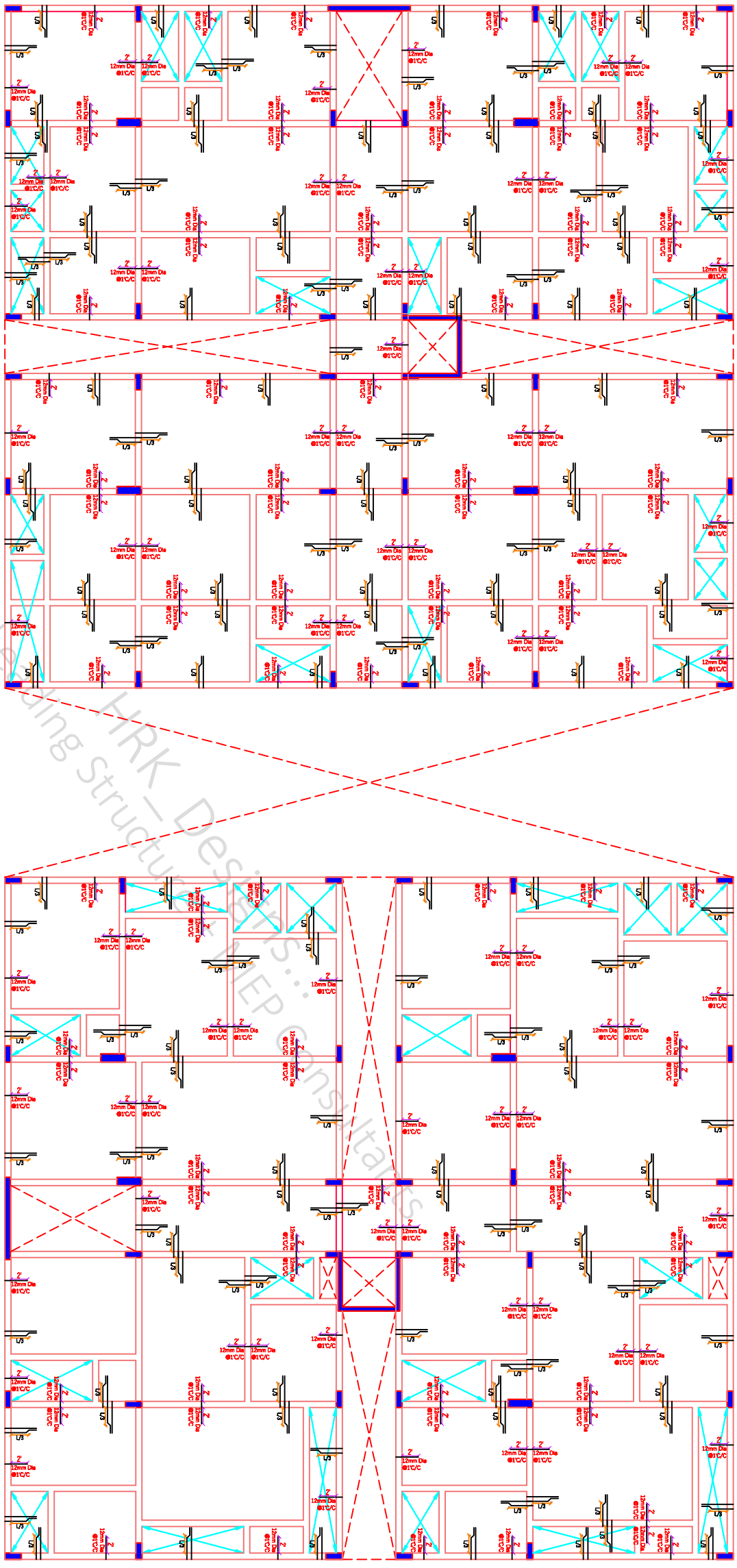
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SCALE - NTS | R-0 | *A3 PRINTS*

SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	4th Slab Plan	
Drw - 2	4th Slab Layout	
Drw - 3	4th Slab Plan & C/S Details	

S-57 4th Slab Plan & Details

B+G+7 @ Rajamahendravaram AP

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

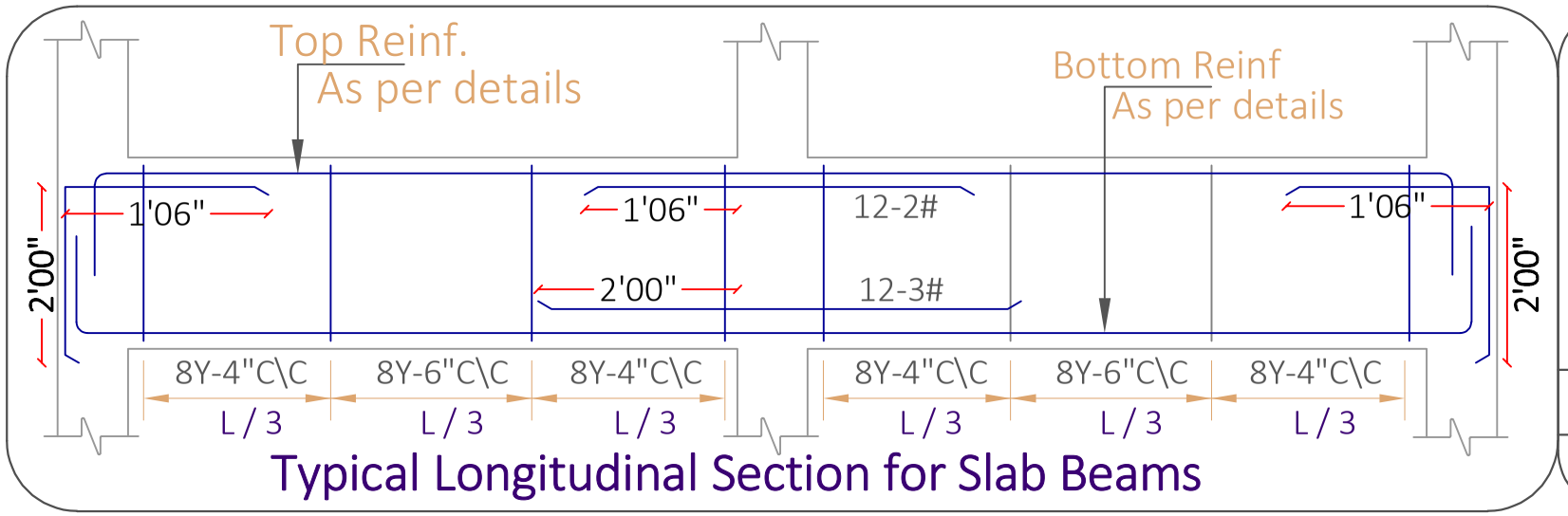
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HP	AKA

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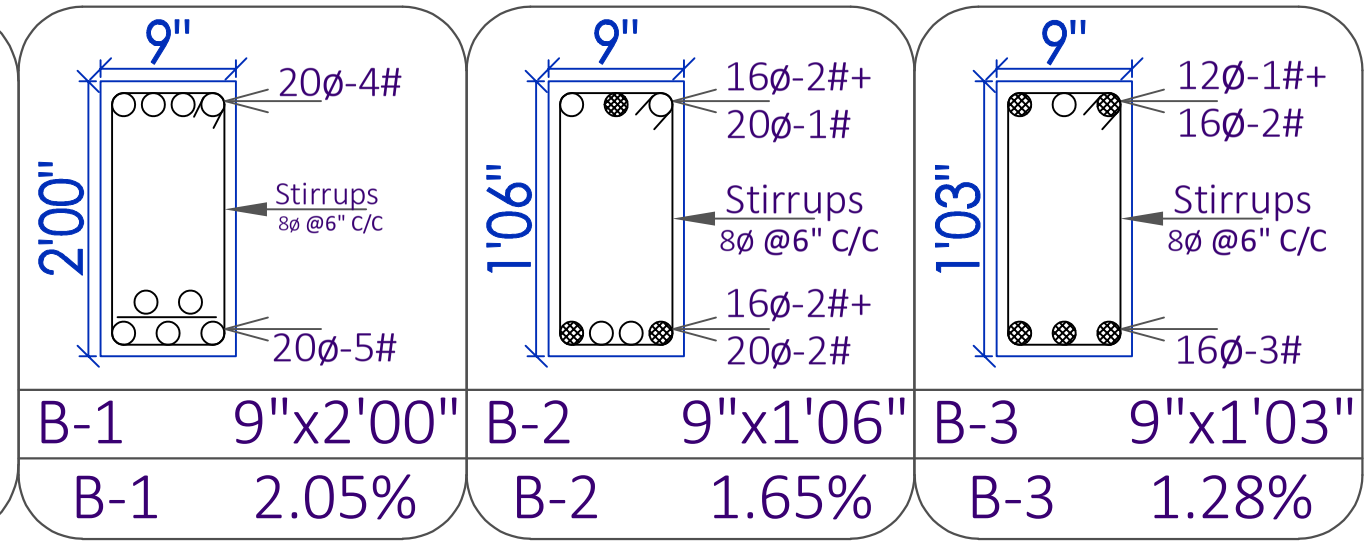
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Typical Longitudinal Section for Slab Beams



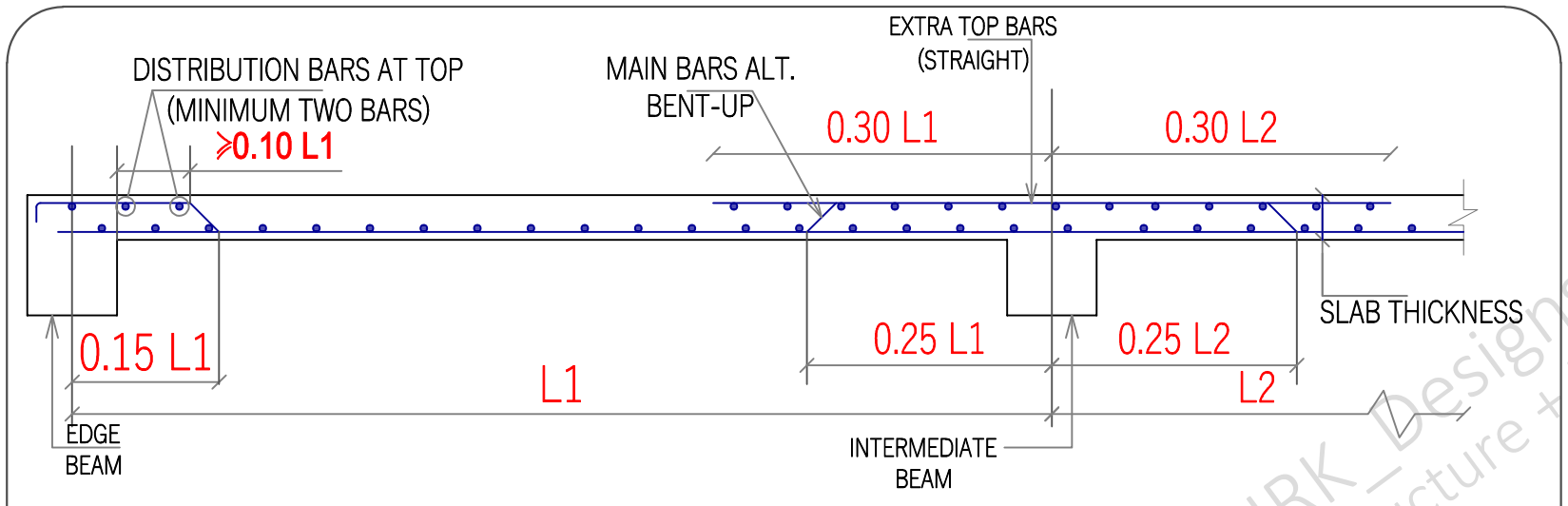


Figure - 4 Typical Slab Section for all the floors

○ SMALLER DIA REINFORCEMENT BAR

● LARGER DIA REINFORCEMENT BAR

Slab Thickness = 6"

8ø Bent-up bars @ 5" C/C

8ø Straight bars @ 5" C/C

12ø Extra bars @ 1' C/C (Junctions & Ends)

SCALE - NTS | R-0 | *A3 PRINTS* | S-58 | 4th Beam & Reinf^ Details | B+G+7 @ Rajamahendravaram AP

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			Add 5% Extra Qty.			2.22	
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	B2 = 9" x 1'06"	1	200.00	0.23	0.46	21.16	
	L = (12'09"*14)+(86'05"*2)+(4'*2)+(9'09"*2)+(22'06")+6'03"+12'04"+20'06"+(5'00"*4)+6'00"+20'06"+12'03"+(14'08"*4)+5'00"+ 17'00"+11'00"+ 17'00"+17'06"+ 10'06"+7'06" = 645'00"/ 200.00 Mt's						
	B3 = 9" x 1'03"	1	85.00	0.23	0.38	7.43	
	L = (9'*8)+(22'06*2)+14'+7'06"+(3'03"*2)+(9'09"*2)+(9'03"*2)+(19'06"*2)+17'06"+(12'06"*2)+(5'00"*2) = 275'/85.00 Mt's						
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	L = 1850' / 565.00 Mt's						
	Top Bars - 20Ø - 4# C/C			2.47	4.00	5581.00	
	Bottom Bars - 20Ø - 5# C/C			2.47	5.00	6976.00	
	Stirups - 8Ø @150mm C/C		1.61	0.40	3767.00	**2396.00**	
	B2 = 9" x 1'06"	1	200.00				
	L = 645'00"/ 200.00 Mt's						
	Top Bars						
	16Ø - 2# C/C + 20Ø - 1# C/C			1.58	2.00	633.00	
				2.47	1.00	494.00	
	Bottom Bars			1.58	2.00	633.00	
	16Ø - 2# C/C + 20Ø - 2# C/C			2.47	2.00	988.00	
	Stirups - 8Ø @150mm C/C		1.33	0.40	1334.00	**701.00**	
	B3 = 9" x 1'03"	1	85.00				
	L = 275'/85.00 Mt's						
	Top Bars						
	12Ø - 1# C/C + 16Ø - 2# C/C			0.89	1.00	76.00	
				1.58	2.00	269.00	
	Bottom Bars			1.58	3.00	403.00	
	16Ø - 3# C/C						
	Stirups - 8Ø @150mm C/C		1.17	0.40	567.00	**263.00**	
	4th Col's						
	C1 = 9" x 2'00"	60	3.10				
	16Ø - 8# C/C			1.58	8.00	2352.00	
	20Ø - 4# C/C			2.47	4.00	1838.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	21.00	872.00	
	C2 = 1'00" x 3'00"	8	3.10				
	20Ø - 20# C/C			2.47	20.00	1225.00	
	Stirups - 8Ø @150mm C/C		2.35	0.40	21.00	156.00	
	SW1 = 8" x 10'00"	2	3.10				
	12Ø - 8# C/C			0.89	8.00	45.00	
	16Ø - 20# C/C			1.58	20.00	196.00	
	Stirups - 8Ø @150mm C/C	3		0.40	21.00	155.00	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	3.10				
	12Ø - 100# C/C			0.89	100.00	552.00	
	Stirups - 8Ø @150mm C/C	1					
	L = (7'03"*4)+(7'06"*2) = 45'/13.75 Mt's		13.75	0.40	21.00	115.00	
	4th Slab	2					
	L = 83'00"/25.50Mt's B = 89'00"/27.50Mt's						
	2(No's) Building		25.50	0.40	170.00	3426.00	
	10Ø @150mm C/C in Both Directions		27.50	0.40	184.00	3999.00	
			Total			34344.00	
			Add 5% Extra Qty.			1717.20	
			Grand Total Reinf^ in 4th LVL			36062.00	Kg's

RCC (M:25) (1:1:2) for 4th LVL - 364.00 M3

	Kg's	Bags's
Cement	4095	82.00
Fine Agg (Sand)	227500	-
C. Agg (Kapchi)	444080	-

PLS NOTE

Reinf^ Consumption in Footings = 36,062.00 Kg's

Basement Built-Up Area = 13,800.00 Sq. Ft

Reinf^ Consumption only footings Per/Sq. Ft = 36,062 / 13,800 = **2.62** Kg's/Ft

SCALE - NTS | R-0 | *A3 PRINTS* | S-59 | 4th Qty Details | B+G+7 @ Rajamahendravaram AP

NOTES

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5 - ALL RCC CONCRETE SHALL BE AS PER IS - 456
6 - CLEAR COVER SHOULD BE AS PER FOLLOWING SPECIFIED (A) - SLAB - 20mm (B) - BEAMS TOP & BOTTOM - 30mm (C) - BEAMS SIDES - 25mm (D) - COLUMNS - 40 mm (E) - FOOTINGS (Sides) - 50mm
7 - WATER USED FOR CONCRETING SHALL MEET CL - 5.4 IS - 456
8 - DEVELOPMENT LENGTH SHALL BE 48D (D - DIA OF BAR in mm)

CODES USED FOR DESIGNING
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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	4th Conc^ Qty Details
Drw - 2	4th Reinf^ Qty Details
Drw - 3	

PROJECT BY:-

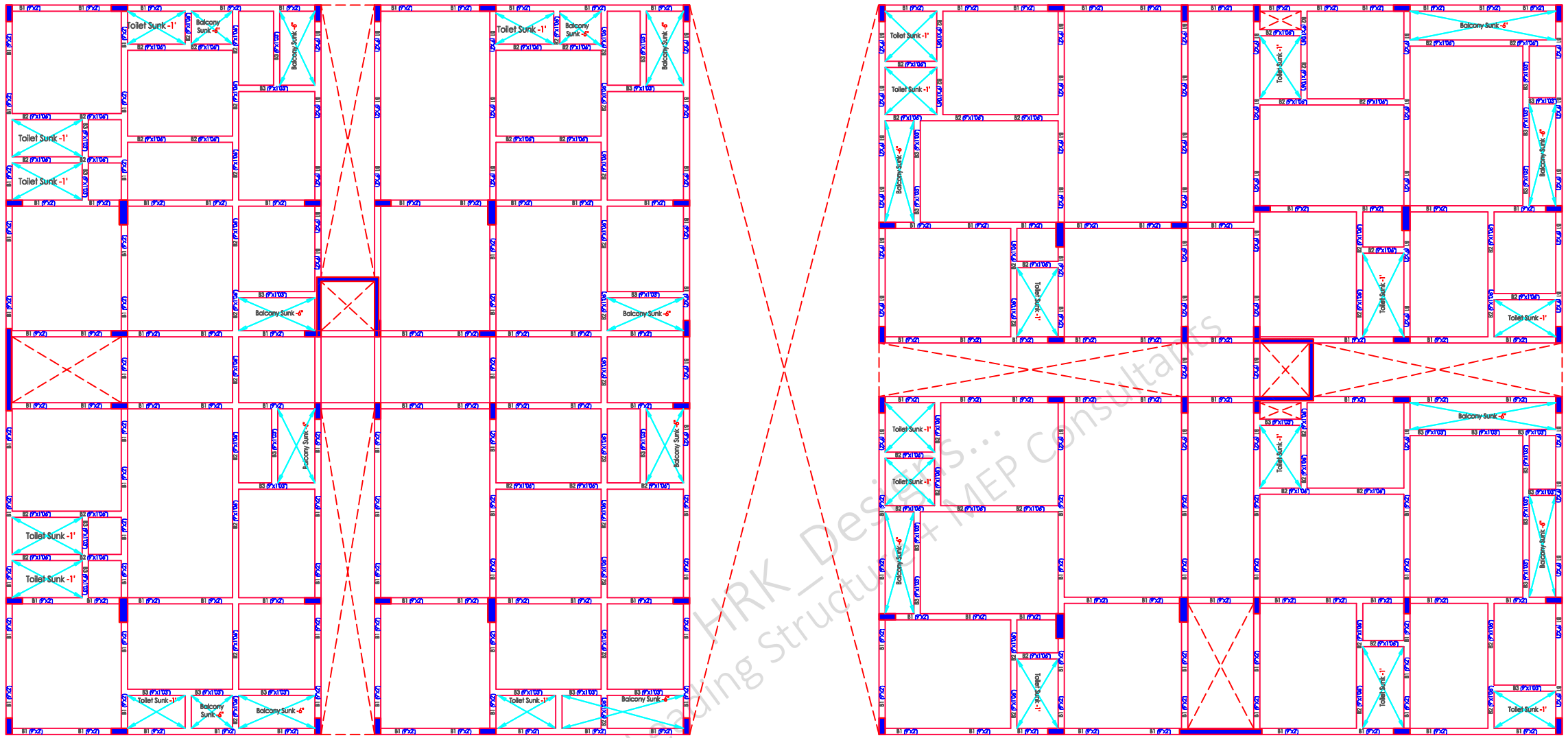
TEJAA ASSOCIATES
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Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

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HRK Designs

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B1 (9"x12")
B2 (9"x15")
B3 (9"x10")
Toilet Sunk -1'
Balcony Sunk -6"
Toilet Sunk -1'
Balcony Sunk -6"
Toilet Sunk -1'
Balcony Sunk -6"

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SCALE - NTS | R-0 | *A3 PRINTS*

SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	5th Beam Plan	
Drw - 2	5th Beam Layout	
Drw - 3	5th Beam Plan & C/S Details	

S-61 5th Beam Plan & Details

B+G+7 @ Rajamahendravaram AP

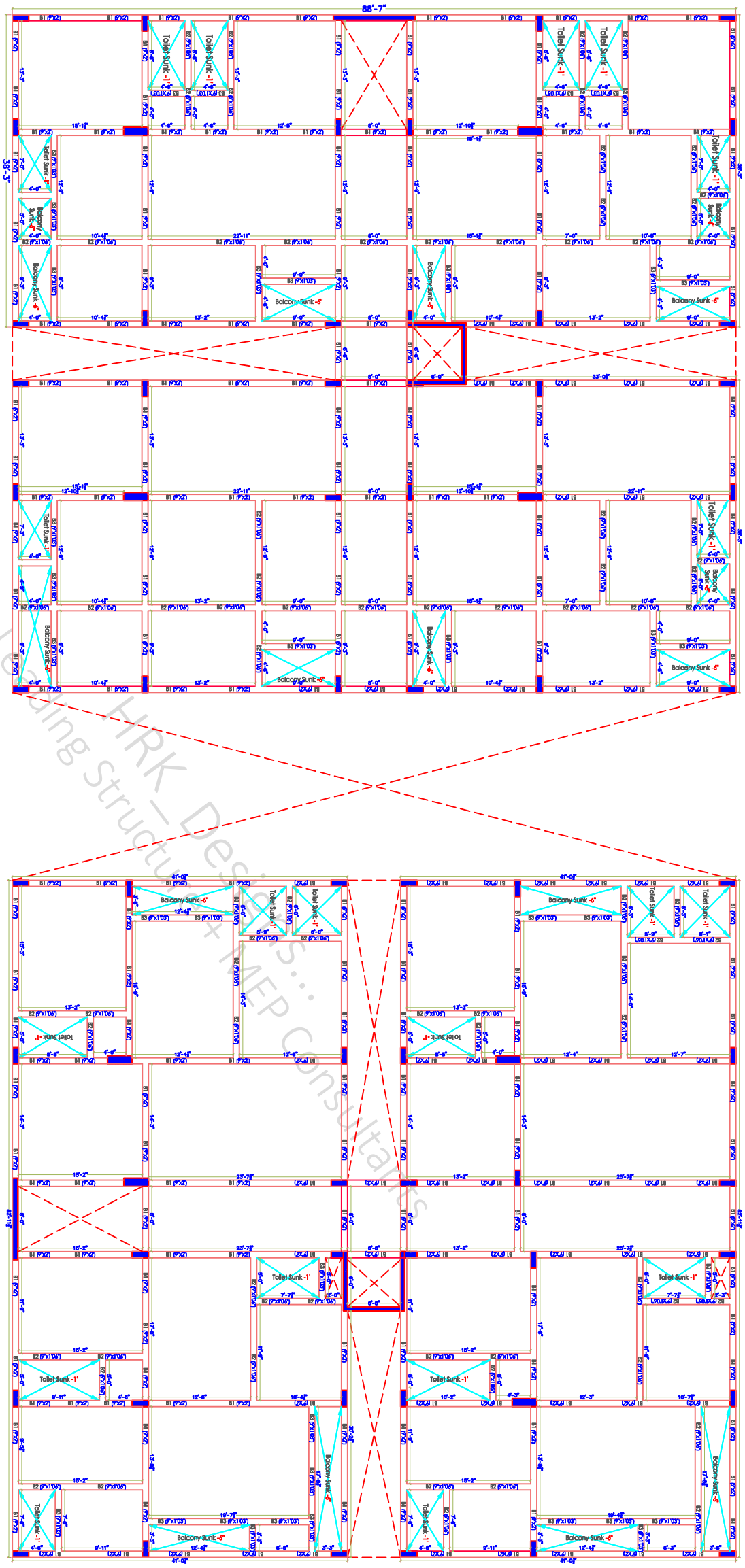
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Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

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SCALE - NTS | R-0 | *A3 PRINTS*

SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	5th Slab Plan	
Drw - 2	5th Slab Layout	
Drw - 3	5th Slab Plan & C/S Details	

S-62 | 5th Slab Plan & Details

B+G+7 @ Rajamahendravaram AP

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

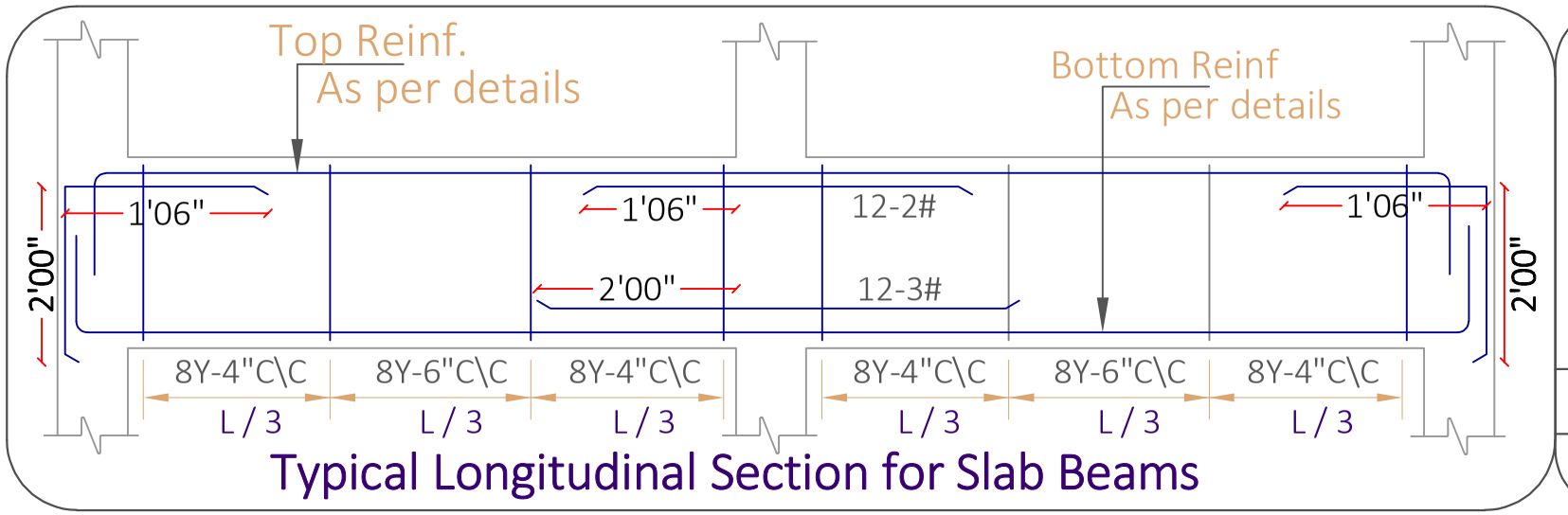
DRW	CHK
HP	AKA

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HRKD/13/01/22/2024

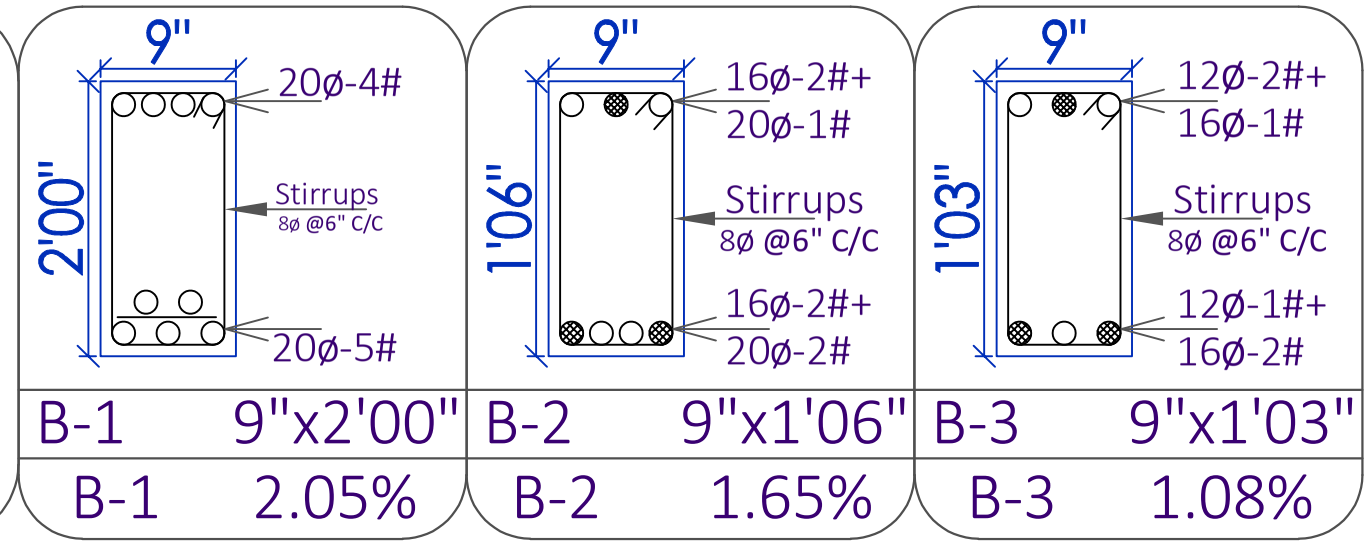
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Typical Longitudinal Section for Slab Beams



B-1	9"x2'00"	B-2	9"x1'06"	B-3	9"x1'03"
B-1	2.05%	B-2	1.65%	B-3	1.08%

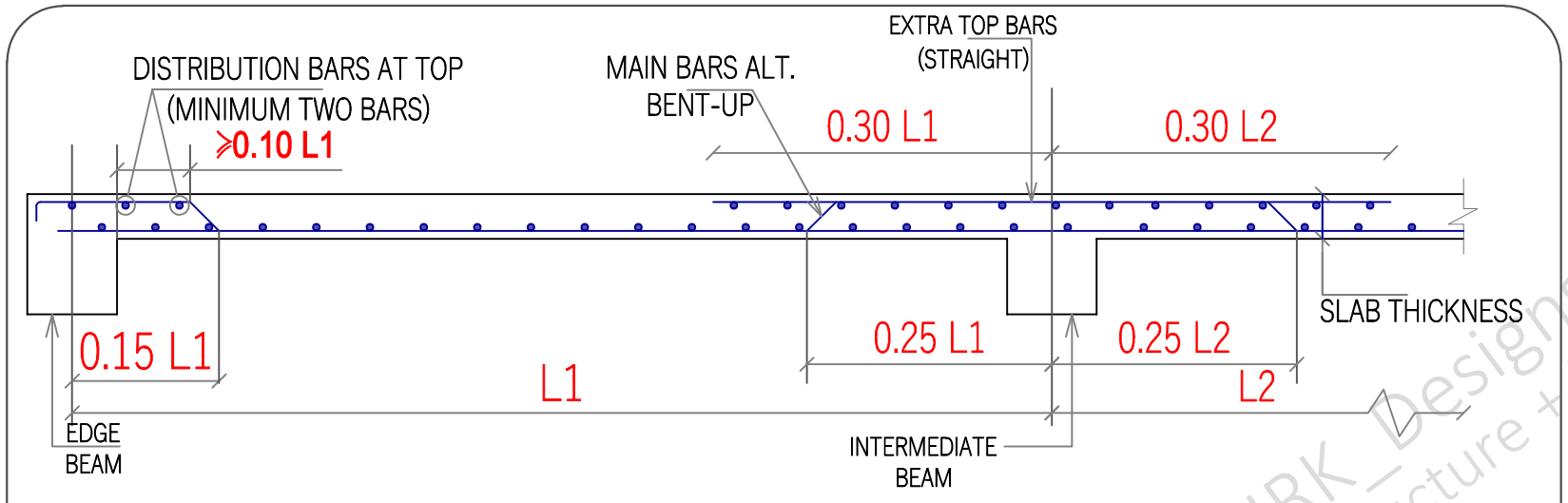


Figure - 4 Typical Slab Section for all the floors

○ SMALLER DIA REINFORCEMENT BAR

● LARGER DIA REINFORCEMENT BAR

Slab Thickness = 6"

8ø Bent-up bars @ 5" C/C

8ø Straight bars @ 5" C/C

12ø Extra bars @ 1' C/C (Junctions & Ends)

SCALE - NTS | R-0 | *A3 PRINTS* | S-63 | 5th Beam & Reinf^ Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	5th Beam & Slab C/S Details
Drw - 2	5th Beam & Slab Reinf^ C/S Details
Drw - 3	

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

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AKA	HP

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14	RCC (M:25) / (1:1:2) For 5th LVL						
14.A	5th Col's						
	C1 = 9" x 2'00"	60	0.23	0.61	3.20	26.94	
	C2 = 1'00" x 3'00"	8	0.31	0.92	3.20	7.14	
	SW1 = 8" x 10'00"	2	0.20	3.05	3.20	3.96	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	0.15	6.71	3.20	6.44	
			Total			44.49	
			Add 5% Extra Qty.			2.22	
			Grand Total in 5th Col's			47.00	
14.B	5th Beam's						
	B1 = 9" x 2'00"	1	565.00	0.23	0.61	79.27	
	L = (38'03"*8)+(88.5*6)+(82'*6)+(41'*8)+(86.5*2) = 1850' / 565.00 Mt's						
	B2 = 9" x 1'06"	1	200.00	0.23	0.46	21.16	
	L = (12'09"*14)+(86'05"*2)+(4'*2)+(9'09"*2)+(22'06")+6'03"+12'04"+20'06"+(5'00"*4)+6'00"+20'06"+12'03"+(14'08"*4)+5'00"+ 17'00"+11'00"+ 17'00"+17'06"+ 10'06"+7'06" = 645'00"/ 200.00 Mt's						
	B3 = 9" x 1'03"	1	85.00	0.23	0.38	7.43	
	L = (9'*8)+(22'06*2)+14'+7'06"+(3'03"*2)+(9'09"*2)+(9'03"*2)+(19'06"*2)+17'06"+(12'06"*2)+(5'00"*2) = 275'/85.00 Mt's						
			Total			107.86	
			Add 5% Extra Qty.			5.39	
			Grand Total in 5th Beams			114.00	
14.C	5th Slab's						
	Slab = (6885+6920)= 13,805.00 Sq. Ft / 1285.00 Sq. Mt's T = 6"/0.15Mt's	1	1285.00		0.15	192.75	
			Total			192.75	
			Add 5% Extra Qty.			9.64	
			Grand Total in 5th Slab			203.00	
	Total RCC for 5th LVL (M:25)					364.00	M3

30	Reinf^ in Super Structure						
	5th Beams						
	B1 = 9" x 2'00"	1	565.00				
	L = 1850' / 565.00 Mt's						
	Top Bars - 20Ø - 4# C/C			2.47	4.00	5581.00	
	Bottom Bars - 20Ø - 5# C/C			2.47	5.00	6976.00	
	Stirups - 8Ø @150mm C/C		1.61	0.40	3767.00	**2396.00**	
	B2 = 9" x 1'06"	1	200.00				
	L = 645'00"/ 200.00 Mt's						
	Top Bars						
	16Ø - 2# C/C + 20Ø - 1# C/C			1.58	2.00	633.00	
				2.47	1.00	494.00	
	Bottom Bars			1.58	2.00	633.00	
	16Ø - 2# C/C + 20Ø - 2# C/C			2.47	2.00	988.00	
	Stirups - 8Ø @150mm C/C		1.33	0.40	1334.00	**701.00**	
	B3 = 9" x 1'03"	1	85.00				
	L = 275'/85.00 Mt's						
	Top Bars						
	12Ø - 1# C/C + 16Ø - 2# C/C			0.89	1.00	76.00	
				1.58	2.00	269.00	
	Bottom Bars			1.58	3.00	403.00	
	16Ø - 3# C/C						
	Stirups - 8Ø @150mm C/C		1.17	0.40	567.00	**263.00**	
	5th Col's						
	C1 = 9" x 2'00"	60	3.10				
	16Ø - 8# C/C			1.58	8.00	2352.00	
	20Ø - 4# C/C			2.47	4.00	1838.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	21.00	872.00	
	C2 = 1'00" x 3'00"	8	3.10				
	20Ø - 20# C/C			2.47	20.00	1225.00	
	Stirups - 8Ø @150mm C/C		2.35	0.40	21.00	156.00	
	SW1 = 8" x 10'00"	2	3.10				
	12Ø - 8# C/C			0.89	8.00	45.00	
	16Ø - 20# C/C			1.58	20.00	196.00	
	Stirups - 8Ø @150mm C/C	3		0.40	21.00	155.00	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	3.10				
	12Ø - 100# C/C			0.89	100.00	552.00	
	Stirups - 8Ø @150mm C/C	1					
	L = (7'03"*4)+(7'06"*2) = 45'/13.75 Mt's		13.75	0.40	21.00	115.00	
	5th Slab	2					
	L = 83'00"/25.50Mt's B = 89'00"/27.50Mt's						
	2(No's) Building		25.50	0.40	170.00	3426.00	
	10Ø @150mm C/C in Both Directions		27.50	0.40	184.00	3999.00	
			Total			34344.00	
			Add 5% Extra Qty.			1717.20	
			Grand Total Reinf^ in 5th LVL			36062.00	Kg's

RCC (M:25) (1:1:2) for 5th LVL - 364.00 M3

	Kg's	Bags's
Cement	4095	82.00
Fine Agg (Sand)	227500	-
C. Agg (Kapchi)	444080	-

PLS NOTE

Reinf^ Consumption in Footings = 36,062.00 Kg's

Basement Built-Up Area = 13,800.00 Sq. Ft

Reinf^ Consumption only footings Per/Sq. Ft = 36,062 / 13,800 = **2.62** Kg's/Ft

SCALE - NTS | R-0 | *A3 PRINTS* | S-64 | 5th Qty Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

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Drw - 2	5th Reinf^ Qty Details
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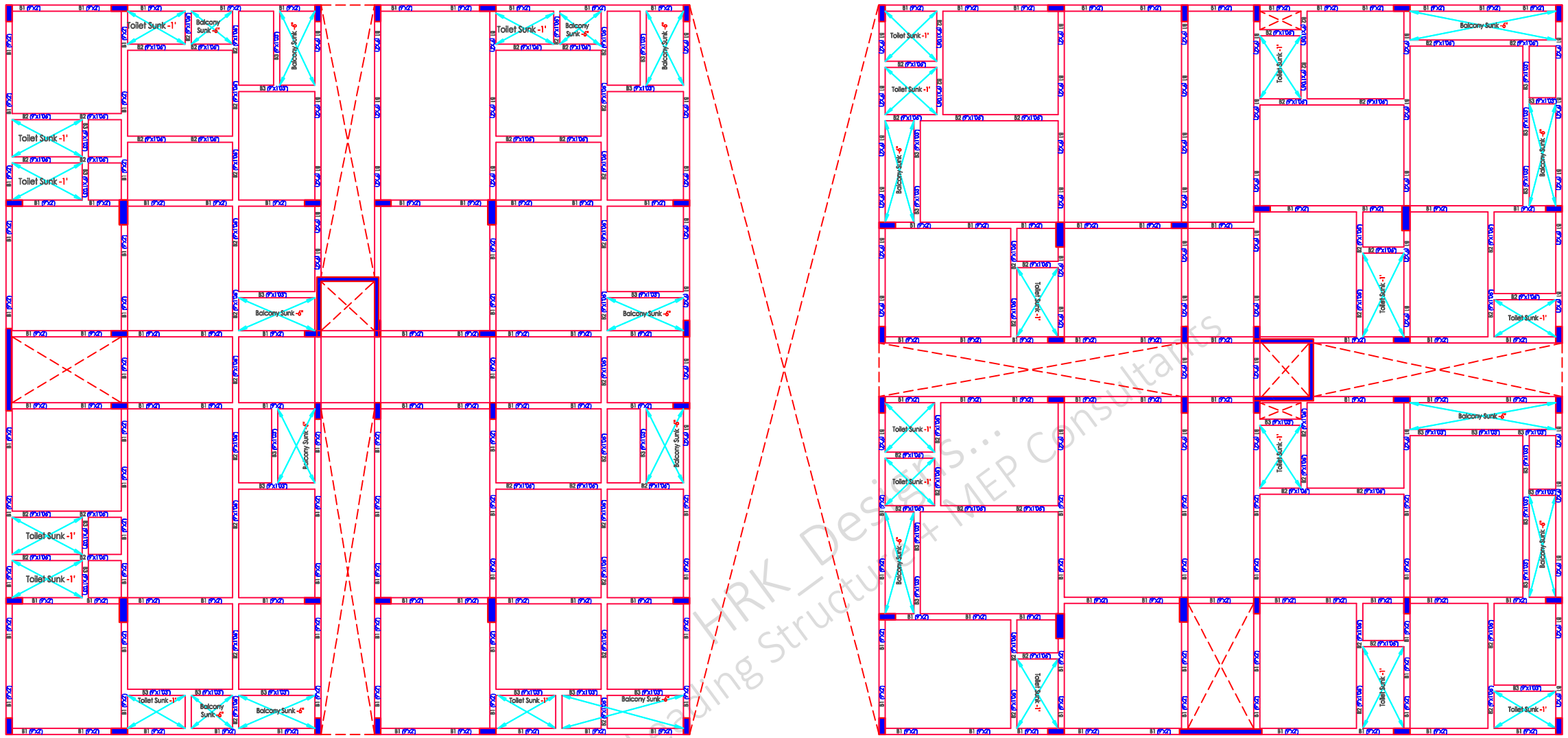
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SCALE - NTS | R-0 | *A3 PRINTS* | S-65 | 6th Beam Plan & Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	6th Beam Plan
Drw - 2	6th Beam Layout
Drw - 3	6th Beam Plan & C/S Details

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

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SCALE - NTS | R-0 | *A3 PRINTS*

SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
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Drw - 1	6th Beam Plan	
Drw - 2	6th Beam Layout	
Drw - 3	6th Beam Plan & C/S Details	

S-66 | 6th Beam Plan & Details

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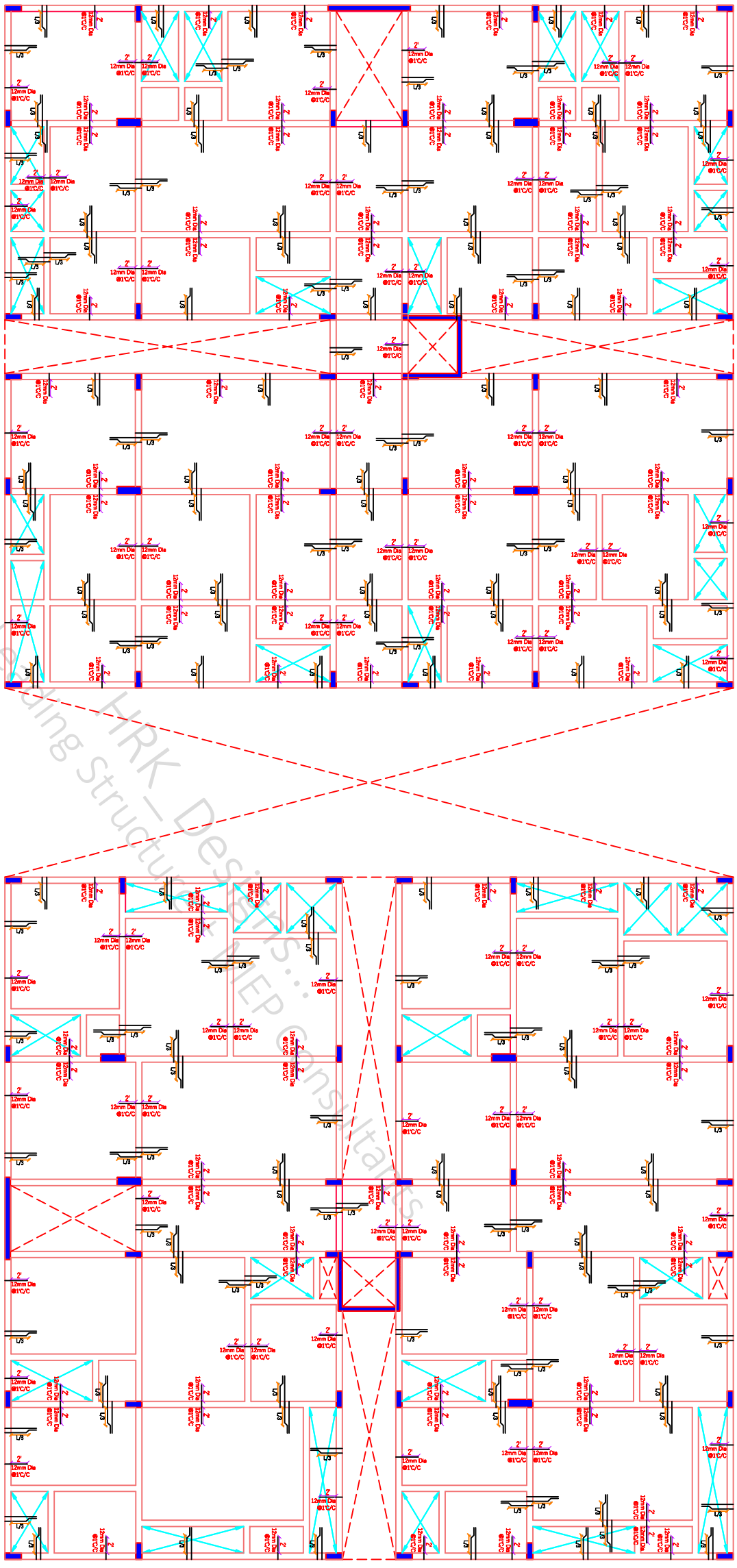
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SCALE - NTS | R-0 | *A3 PRINTS*

SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024
Drw No	Drw Table	
Drw - 1	6th Slab Plan	
Drw - 2	6th Slab Layout	
Drw - 3	6th Slab Plan & C/S Details	

S-67 | 6th Slab Plan & Details

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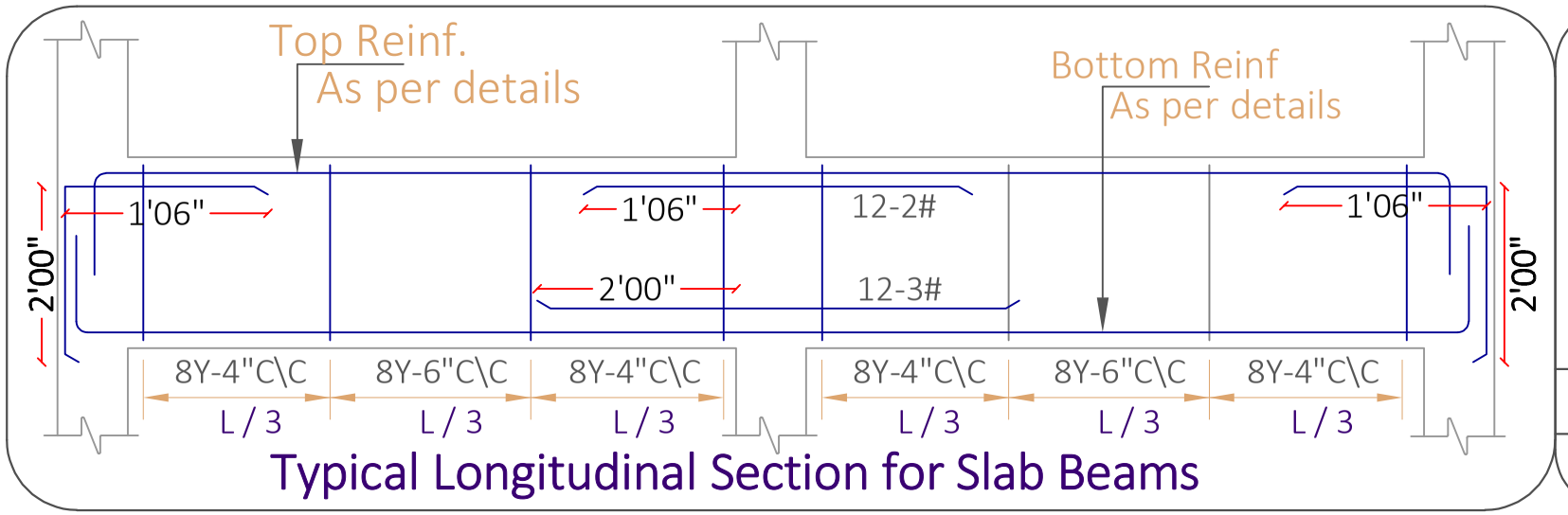
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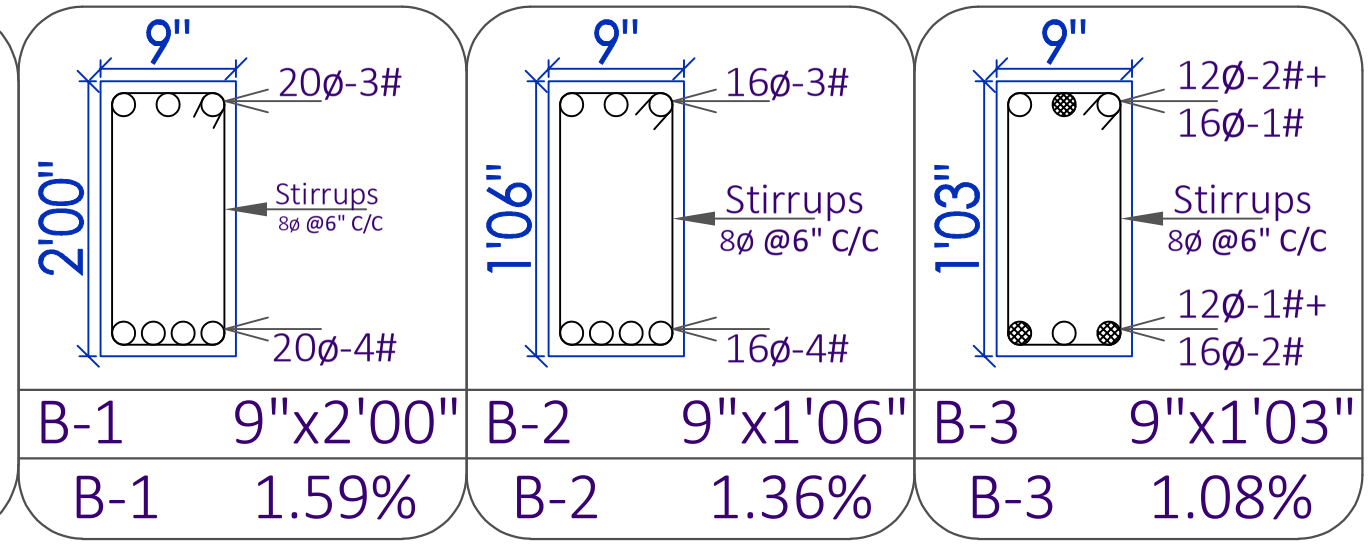
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Typical Longitudinal Section for Slab Beams



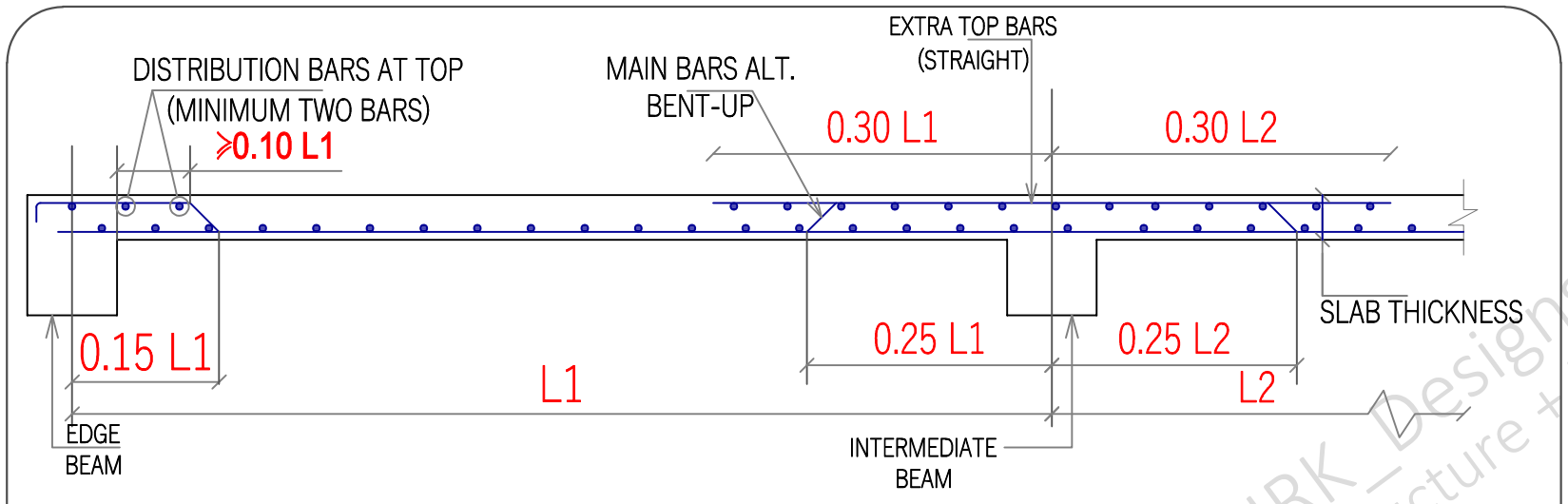


Figure - 4 Typical Slab Section for all the floors

○ SMALLER DIA REINFORCEMENT BAR

● LARGER DIA REINFORCEMENT BAR

Slab Thickness = 6"

8ø Bent-up bars @ 5" C/C

8ø Straight bars @ 5" C/C

12ø Extra bars @ 1' C/C (Junctions & Ends)

SCALE - NTS | R-0 | *A3 PRINTS* | S-68 | 6th Beam & Reinf^ Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	6th Beam & Slab C/S Details
Drw - 2	6th Beam & Slab Reinf^ C/S Details
Drw - 3	

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15	RCC (M:25) / (1:1:2) For 6th LVL						
15.A	6th Col's						
	C1 = 9" x 2'00"	60	0.23	0.61	3.20	26.94	
	C2 = 1'00" x 3'00"	8	0.31	0.92	3.20	7.14	
	SW1 = 8" x 10'00"	2	0.20	3.05	3.20	3.96	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	0.15	6.71	3.20	6.44	
			Total			44.49	
			Add 5% Extra Qty.			2.22	
			Grand Total in 6th Col's			47.00	
15.B	6th Beam's						
	B1 = 9" x 2'00"	1	565.00	0.23	0.61	79.27	
	L = (38'03"*8)+(88.5*6)+(82'*6)+(41'*8)+(86.5*2) = 1850' / 565.00 Mt's						
	B2 = 9" x 1'06"	1	200.00	0.23	0.46	21.16	
	L = (12'09"*14)+(86'05"*2)+(4'*2)+(9'09"*2)+(22'06")+6'03"+12'04"+20'06"+(5'00"*4)+6'00"+20'06"+12'03"+(14'08"*4)+5'00"+ 17'00"+11'00"+ 17'00"+17'06"+ 10'06"+7'06" = 645'00"/ 200.00 Mt's						
	B3 = 9" x 1'03"	1	85.00	0.23	0.38	7.43	
	L = (9'*8)+(22'06*2)+14'+7'06"+(3'03"*2)+(9'09"*2)+(9'03"*2)+(19'06"*2)+17'06"+(12'06"*2)+(5'00"*2) = 275'/85.00 Mt's						
			Total			107.86	
			Add 5% Extra Qty.			5.39	
			Grand Total in 6th Beams			114.00	
15.C	6th Slab's						
	Slab = (6885+6920)= 13,805.00 Sq. Ft / 1285.00 Sq. Mt's T = 6"/0.15Mt's	1	1285.00		0.15	192.75	
			Total			192.75	
			Add 5% Extra Qty.			9.64	
			Grand Total in 6th Slab			203.00	
			Total RCC for 6th LVL (M:25)			**364.00**	**M3**

31	Reinf^ in Super Structure						
	6th Beams						
	B1 = 9" x 2'00"	1	565.00				
	L = 1850' / 565.00 Mt's						
	Top Bars - 20Ø - 3# C/C			2.47	3.00	4186.00	
	Bottom Bars - 20Ø - 4# C/C			2.47	4.00	5581.00	
	Stirups - 8Ø @150mm C/C		1.61	0.40	3767.00	**2396.00**	
	B2 = 9" x 1'06"	1	200.00				
	L = 645'00"/ 200.00 Mt's						
	Top Bars						
	16Ø - 3# C/C			1.58	3.00	949.00	
	Bottom Bars						
	16Ø - 4# C/C			1.58	4.00	1265.00	
	Stirups - 8Ø @150mm C/C		1.33	0.40	1334.00	**701.00**	
	B3 = 9" x 1'03"	1	85.00				
	L = 275'/85.00 Mt's						
	Top Bars						
	12Ø - 2# C/C + 16Ø - 1# C/C			0.89	2.00	152.00	
				1.58	1.00	135.00	
	Bottom Bars						
	12Ø - 2# C/C + 16Ø - 1# C/C			0.89	1.00	76.00	
				1.58	2.00	269.00	
	Stirups - 8Ø @150mm C/C		1.17	0.40	567.00	**263.00**	
	6th Col's						
	C1 = 9" x 2'00"	60	3.10				
	16Ø - 10# C/C			1.58	10.00	2940.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	21.00	872.00	
	C2 = 1'00" x 3'00"	8	3.10				
	16Ø - 20# C/C			2.47	20.00	1225.00	
	Stirups - 8Ø @150mm C/C		2.35	0.40	21.00	156.00	
	SW1 = 8" x 10'00"	2	3.10				
	12Ø - 8# C/C			0.89	8.00	45.00	
	16Ø - 20# C/C			1.58	20.00	196.00	
	Stirups - 8Ø @150mm C/C	3		0.40	21.00	155.00	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	3.10				
	12Ø - 100# C/C			0.89	100.00	552.00	
	Stirups - 8Ø @150mm C/C	1					
	L = (7'03"*4)+(7'06"*2) = 45'/13.75 Mt's		13.75	0.40	21.00	115.00	
	6th Slab	2					
	L = 83'00"/25.50Mt's B = 89'00"/27.50Mt's						
	2(No's) Building		25.50	0.40	170.00	3426.00	
	10Ø @150mm C/C in Both Directions		27.50	0.40	184.00	3999.00	
				Total		29654.00	
				Add 5% Extra Qty.		1482.70	
				Grand Total Reinf^ in 6th LVL		31137.00	Kg's

RCC (M:25) (1:1:2) for 6th LVL - 364.00 M3

	Kg's	Bags's
Cement	4095	82.00
Fine Agg (Sand)	227500	-
C. Agg (Kapchi)	444080	-

PLS NOTE

Reinf^ Consumption in Footings = 31,137.00 Kg's

Basement Built-Up Area = 13,800.00 Sq. Ft

Reinf^ Consumption only footings Per/Sq. Ft = 31,137 / 13,800 = **2.25** Kg's/Ft

SCALE - NTS | R-0 | *A3 PRINTS* | S-69 | 6th Qty Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

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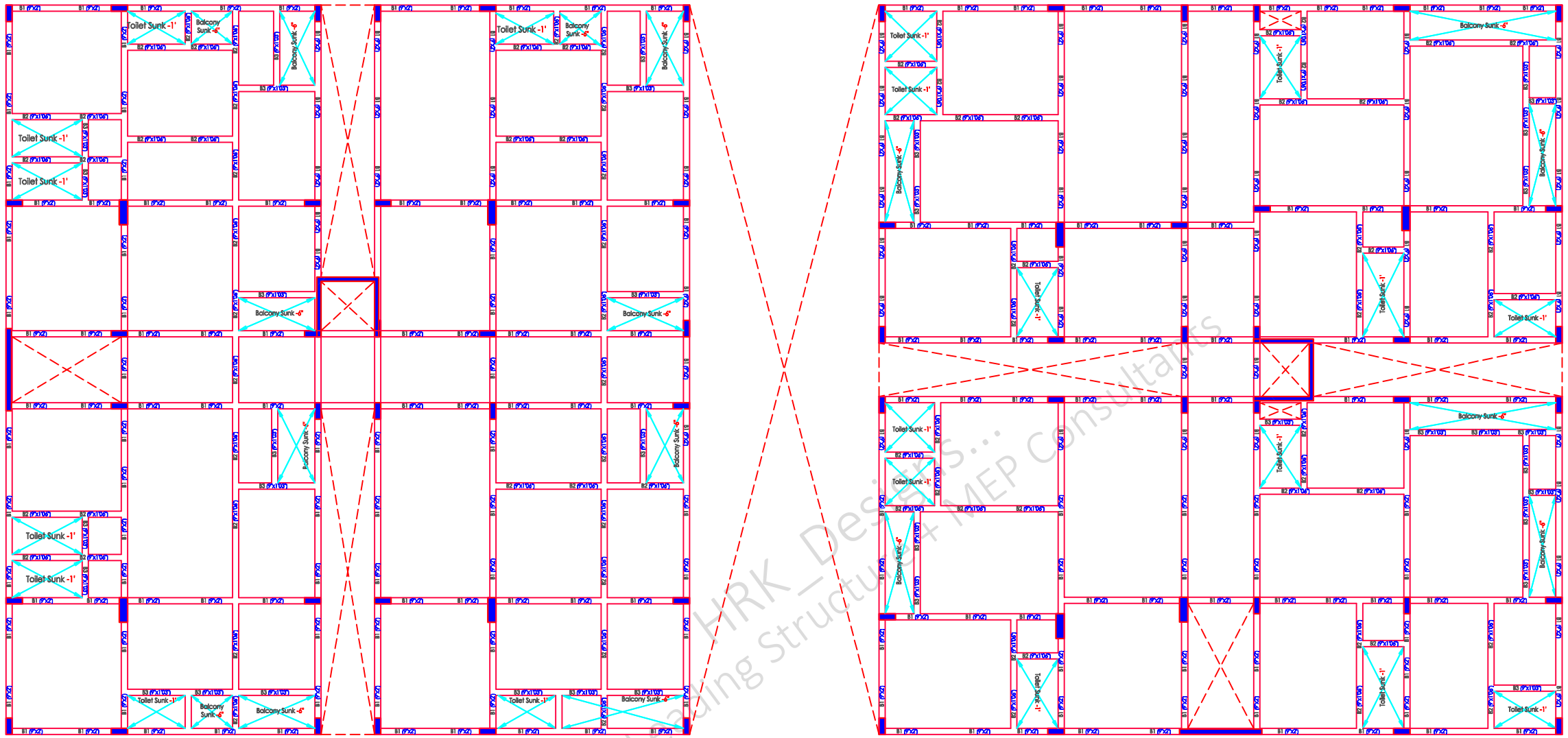
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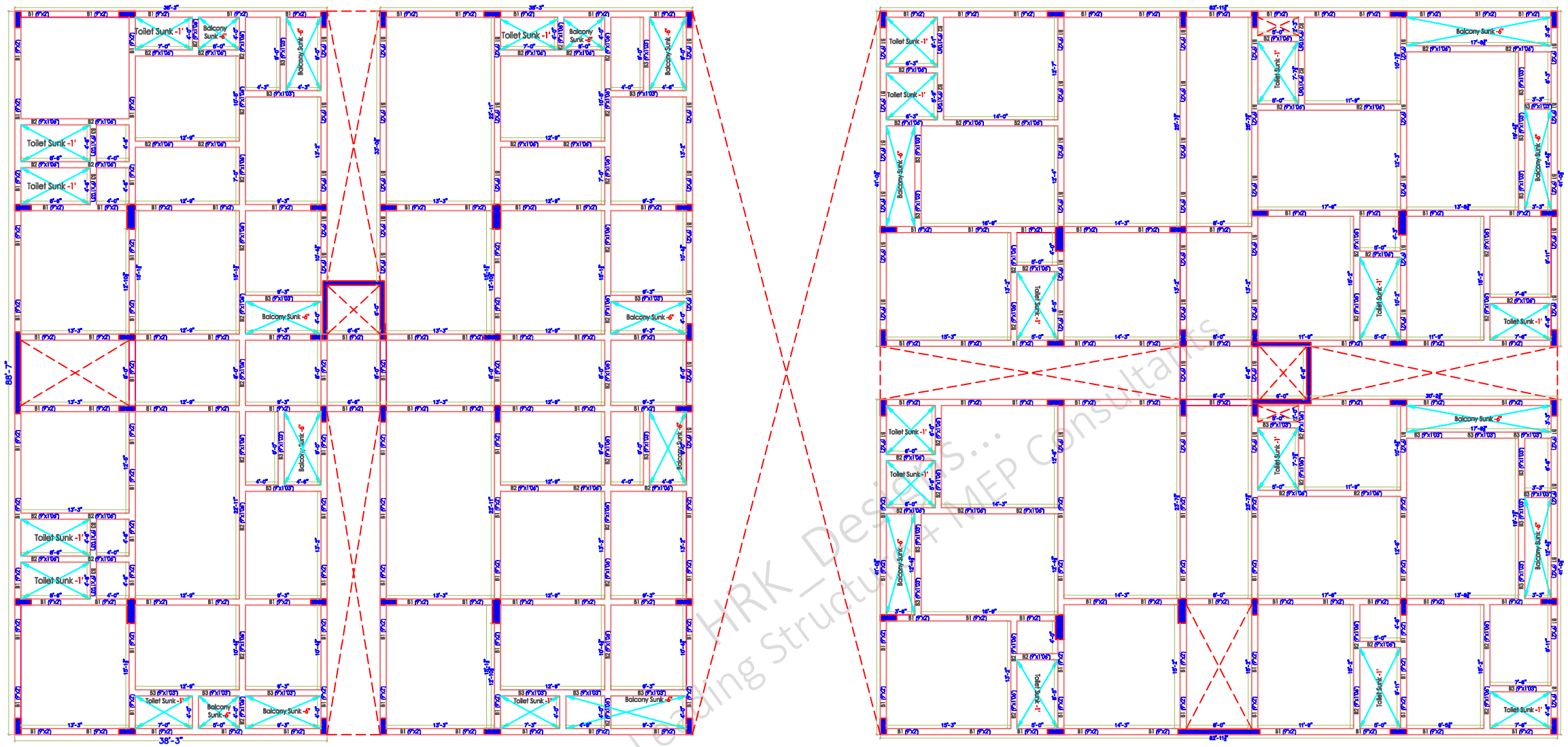
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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	7th Beam Plan
Drw - 2	7th Beam Layout
Drw - 3	7th Beam Plan & C/S Details

PROJECT BY:-

TEJAA ASSOCIATES
Civil & Structural Engineers
Sai Complex, #G-11 & G-12 No.37 Beside Durga Temple Srusti Road, Prathap Nagar, Kakinada E.G.D.T. Andhra Pradesh

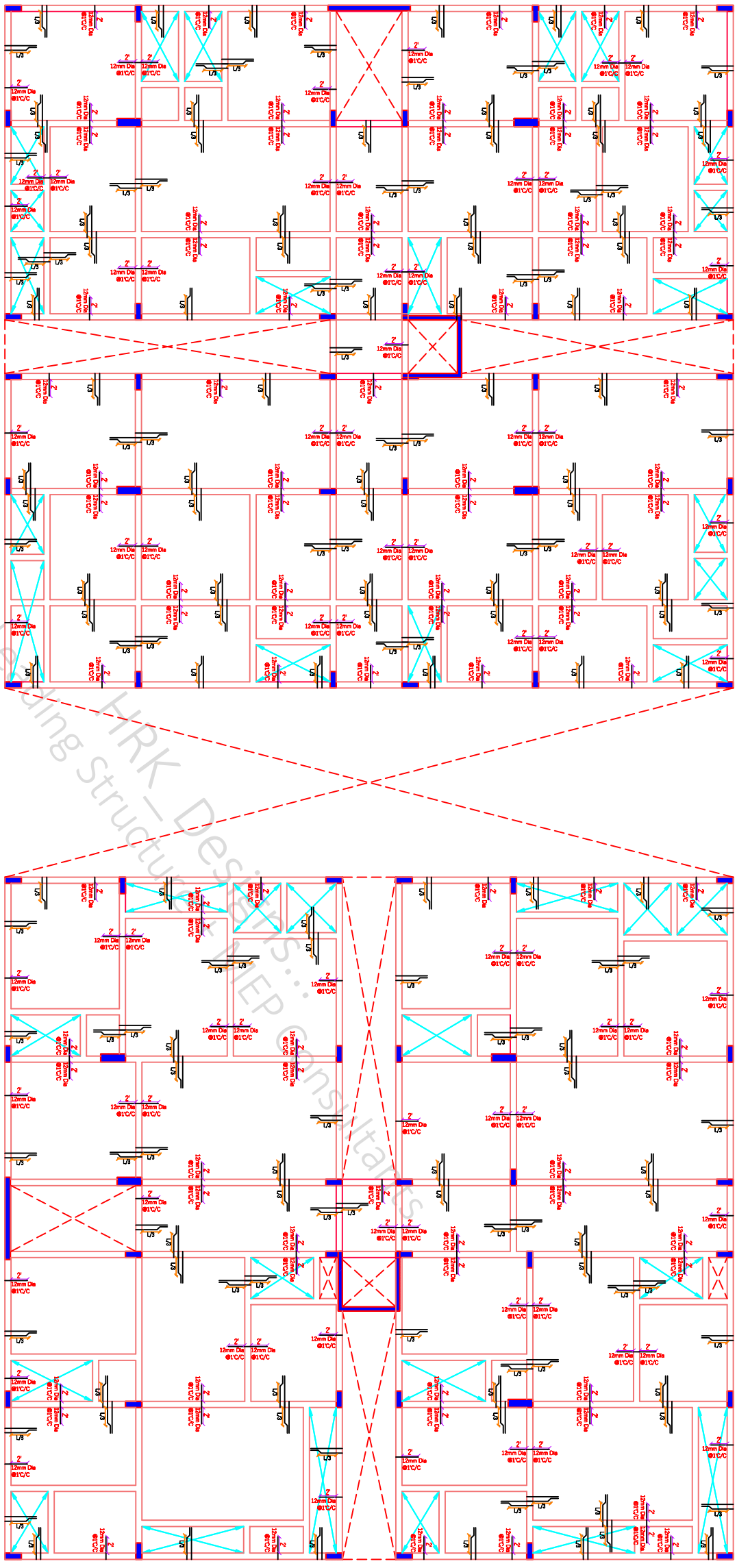
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HRKD/13/01/22/2024

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SCALE - NTS | R-0 | *A3 PRINTS*

S-72 7th Slab Plan & Details

SHEET TITLE	GOOD FOR CONSTRUCTION	21/01/2024

Drw Table

Drw No	
Drw - 1	7th Slab Plan
Drw - 2	7th Slab Layout
Drw - 3	7th Slab Plan & C/S Details

B+G+7 @ Rajamahendravaram AP

PROJECT BY:-

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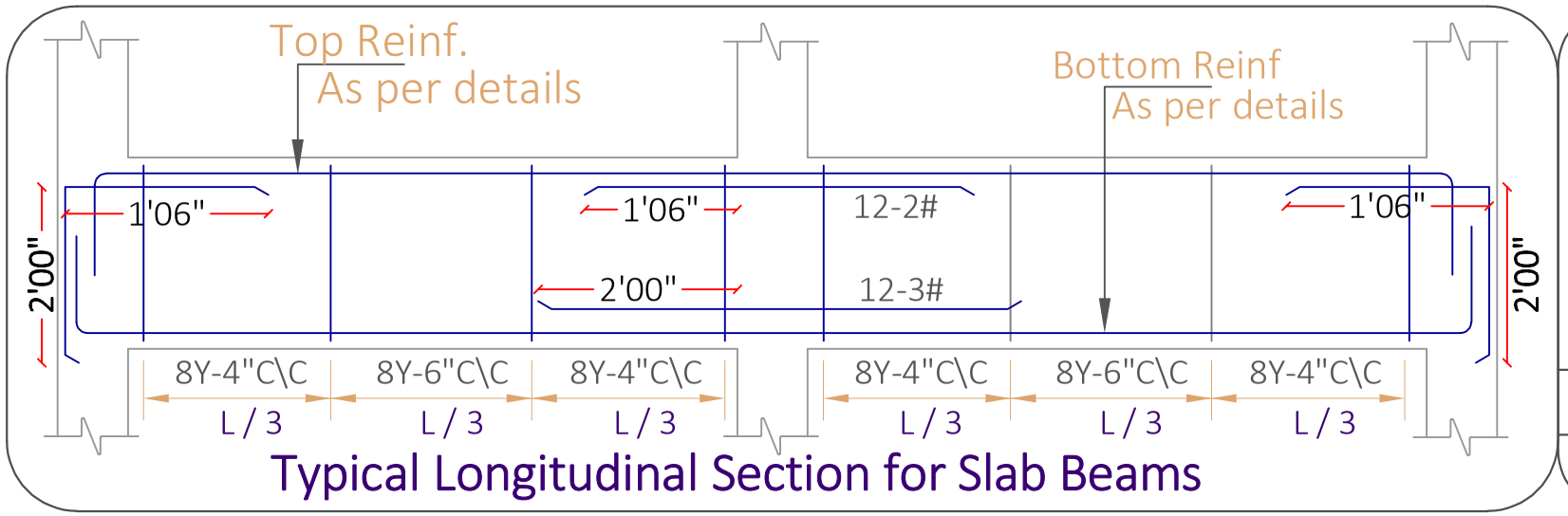
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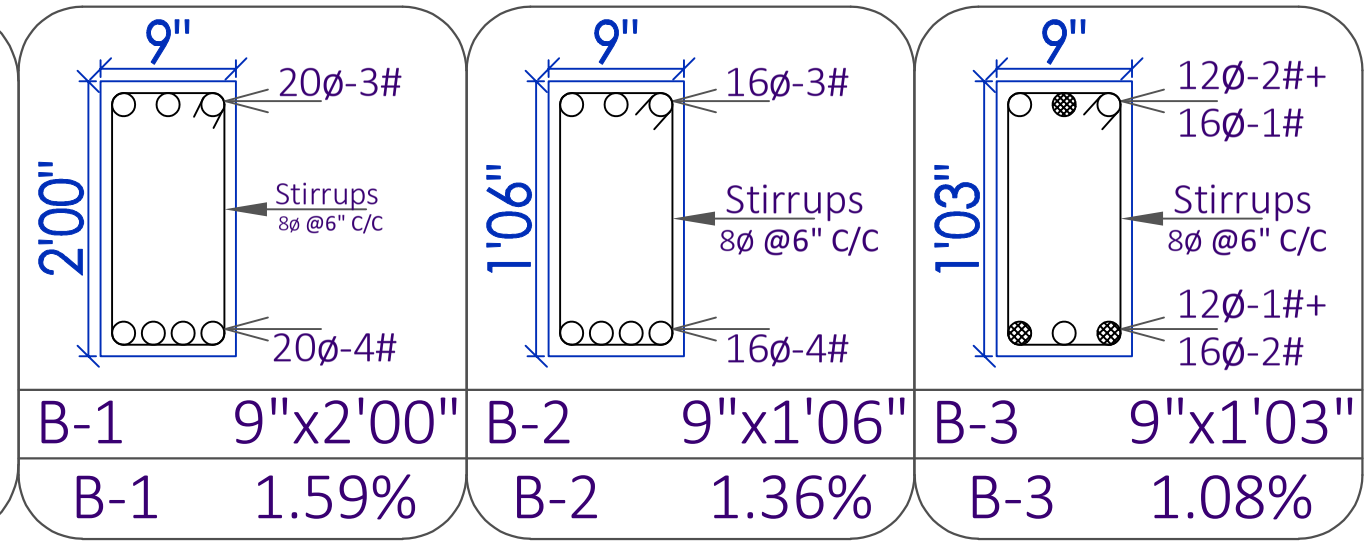
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Typical Longitudinal Section for Slab Beams



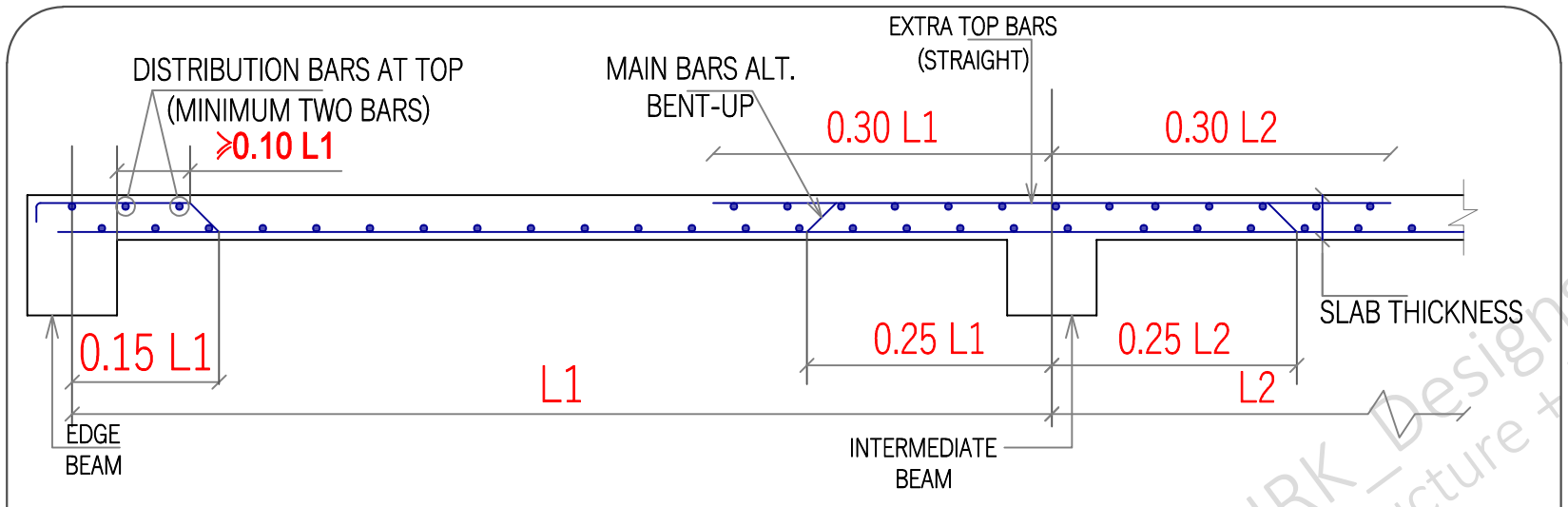


Figure - 4 Typical Slab Section for all the floors

○ SMALLER DIA REINFORCEMENT BAR

● LARGER DIA REINFORCEMENT BAR

Slab Thickness = 6"

8ø Bent-up bars @ 5" C/C

8ø Straight bars @ 5" C/C

12ø Extra bars @ 1' C/C (Junctions & Ends)

SCALE - NTS | R-0 | *A3 PRINTS* | S-73 | 7th Beam & Reinf^ Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE | GOOD FOR CONSTRUCTION | 21/01/2024

Drw No	Drw Table
Drw - 1	7th Beam & Slab C/S Details
Drw - 2	7th Beam & Slab Reinf^ C/S Details
Drw - 3	

PROJECT BY:-

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16	RCC (M:25) / (1:1:2) For 7th LVL						
16.A	6th Col's						
	C1 = 9" x 2'00"	60	0.23	0.61	3.20	26.94	
	C2 = 1'00" x 3'00"	8	0.31	0.92	3.20	7.14	
	SW1 = 8" x 10'00"	2	0.20	3.05	3.20	3.96	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	0.15	6.71	3.20	6.44	
			Total			44.49	
			Add 5% Extra Qty.			2.22	
			Grand Total in 7th Col's			47.00	
16.B	6th Beam's						
	B1 = 9" x 2'00"	1	565.00	0.23	0.61	79.27	
	L = (38'03"*8)+(88.5*6)+(82'*6)+(41'*8)+(86.5*2) = 1850' / 565.00 Mt's						
	B2 = 9" x 1'06"	1	200.00	0.23	0.46	21.16	
	L = (12'09"*14)+(86'05"*2)+(4'*2)+(9'09"*2)+(22'06")+6'03"+12'04"+20'06"+(5'00"*4)+6'00"+20'06"+12'03"+(14'08"*4)+5'00"+ 17'00"+11'00"+ 17'00"+17'06"+ 10'06"+7'06" = 645'00"/ 200.00 Mt's						
	B3 = 9" x 1'03"	1	85.00	0.23	0.38	7.43	
	L = (9'*8)+(22'06*2)+14'+7'06"+(3'03"*2)+(9'09"*2)+(9'03"*2)+(19'06"*2)+17'06"+(12'06"*2)+(5'00"*2) = 275'/85.00 Mt's						
			Total			107.86	
			Add 5% Extra Qty.			5.39	
			Grand Total in 7th Beams			114.00	
16.C	6th Slab's						
	Slab = (6885+6920)= 13,805.00 Sq. Ft / 1285.00 Sq. Mt's T = 6"/0.15Mt's	1	1285.00		0.15	192.75	
			Total			192.75	
			Add 5% Extra Qty.			9.64	
			Grand Total in 7th Slab			203.00	
		Total RCC for 7th LVL (M:25)				364.00	M3

32	Reinf^ in Super Structure						
	7th Beams						
	B1 = 9" x 2'00"	1	565.00				
	L = 1850' / 565.00 Mt's						
	Top Bars - 20Ø - 3# C/C			2.47	3.00	4186.00	
	Bottom Bars - 20Ø - 4# C/C			2.47	4.00	5581.00	
	Stirups - 8Ø @150mm C/C		1.61	0.40	3767.00	**2396.00**	
	B2 = 9" x 1'06"	1	200.00				
	L = 645'00"/ 200.00 Mt's						
	Top Bars						
	16Ø - 3# C/C			1.58	3.00	949.00	
	Bottom Bars						
	16Ø - 4# C/C			1.58	4.00	1265.00	
	Stirups - 8Ø @150mm C/C		1.33	0.40	1334.00	**701.00**	
	B3 = 9" x 1'03"	1	85.00				
	L = 275'/85.00 Mt's						
	Top Bars						
	12Ø - 2# C/C + 16Ø - 1# C/C			0.89	2.00	152.00	
				1.58	1.00	135.00	
	Bottom Bars						
	12Ø - 2# C/C + 16Ø - 1# C/C			0.89	1.00	76.00	
				1.58	2.00	269.00	
	Stirups - 8Ø @150mm C/C		1.17	0.40	567.00	**263.00**	
	7th Col's						
	C1 = 9" x 2'00"	60	3.10				
	16Ø - 10# C/C			1.58	10.00	2940.00	
	Stirups - 8Ø @150mm C/C		1.75	0.40	21.00	872.00	
	C2 = 1'00" x 3'00"	8	3.10				
	16Ø - 20# C/C			2.47	20.00	1225.00	
	Stirups - 8Ø @150mm C/C		2.35	0.40	21.00	156.00	
	SW1 = 8" x 10'00"	2	3.10				
	12Ø - 8# C/C			0.89	8.00	45.00	
	16Ø - 20# C/C			1.58	20.00	196.00	
	Stirups - 8Ø @150mm C/C	3		0.40	21.00	155.00	
	LW1 = (L)=22'/6.71 T=6"/0.15	2	3.10				
	12Ø - 100# C/C			0.89	100.00	552.00	
	Stirups - 8Ø @150mm C/C	1					
	L = (7'03"*4)+(7'06"*2) = 45'/13.75 Mt's		13.75	0.40	21.00	115.00	
	7th Slab	2					
	L = 83'00"/25.50Mt's B = 89'00"/27.50Mt's						
	2(No's) Building		25.50	0.40	170.00	3426.00	
	10Ø @150mm C/C in Both Directions		27.50	0.40	184.00	3999.00	
			Total			29654.00	
			Add 5% Extra Qty.			1482.70	
			Grand Total Reinf^ in 6th LVL			31137.00	Kg's

RCC (M:25) (1:1:2) for 7th LVL - 364.00 M3

	Kg's	Bags's
Cement	4095	82.00
Fine Agg (Sand)	227500	-
C. Agg (Kapchi)	444080	-

PLS NOTE

Reinf^ Consumption in Footings = 31,137.00 Kg's

Basement Built-Up Area = 13,800.00 Sq. Ft

Reinf^ Consumption only footings Per/Sq. Ft = 31,137 / 13,800 = **2.25** Kg's/Ft

SCALE - NTS | R-0 | *A3 PRINTS* | S-74 | 7th Qty Details | B+G+7 @ Rajamahendravaram AP

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SHEET TITLE	GOOD FOR CONSTRUCTION
Drw No	Drw Table
Drw - 1	7th Conc^ Qty Details
Drw - 2	7th Reinf^ Qty Details
Drw - 3	

21/01/2024

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Total Reinforcement Consumption = 4,39,988.00 Kg's
Till Footings = 51,468.00 Kg's
Till Basement Slab LVL = 76,902.00 Kg's
Till GF Slab LVL = 45,913.00 Kg's
Till FF Slab LVL = 45,913.00 Kg's
Till SF Slab LVL = 44,950.00 Kg's
Till 3F Slab LVL = 40,444.00 Kg's
Till 4F Slab LVL = 36,062.00 Kg's
Till 5F Slab LVL = 36,062.00 Kg's
Till 6F Slab LVL = 31,137.00 Kg's
Till 7F Slab LVL = 31,137.00 Kg's

+ Stair Case + Lintel & Sill (If any)+ Elevation (If any) + UG/OH Tank (If any)

Total Built Up Area = 1,35,260.00 Sq.Ft
Basement Slab = 24,860.00 Sq.Ft
GF = 13,800.00 Sq.Ft
FF = 13,800.00 Sq.Ft
SF = 13,800.00 Sq.Ft
3F = 13,800.00 Sq.Ft
4F = 13,800.00 Sq.Ft
5F = 13,800.00 Sq.Ft
6F = 13,800.00 Sq.Ft
7F = 13,800.00 Sq.Ft

Reinforcement Consumption Per Sq.FT

$$\frac{439988}{135260}$$

= 3.25 Kg's/ Ft

Considering 1.2 Kg's/Ft Addition for Stair case & Head Room, Lintel & Sill (If any)+ Elevation (If any) + UG/OH Tank (If any)

Total Steel Reinforcement consumption will be
4.25 Kg's/Ft

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SCALE - NTS | R-0 | *A3 PRINTS* | S-75 Conclusion | B+G+7 @ Rajamahendravaram AP

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