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RE REGULATORY RECORD

RERA Document

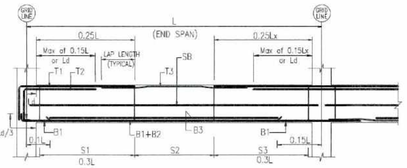
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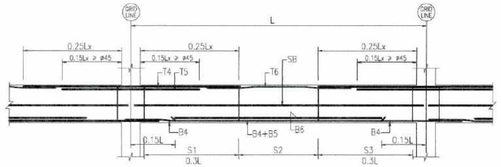
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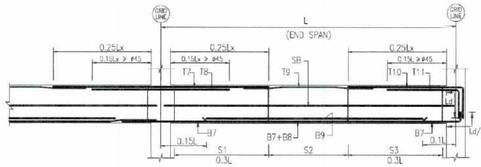
DIGITALLY VERIFIED RECORD



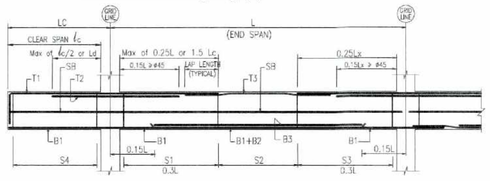
END SPAN BEAM [LHS] (1)



INTERMEDIATE SPAN BEAM (2)



END SPAN BEAM [RHS] (3)

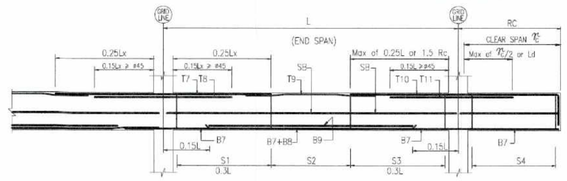


END SPAN BEAM [LHS] WITH CANTILEVER (4)

LEGEND

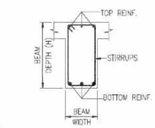
L —— LENGTH OF SPAN UNDER CONSIDERATION
La —— LENGTH OF ADJACENT SPAN TO THE SPAN UNDER CONSIDERATION
Lc —— LENGTH OF LEFT END CANTILEVER
Rc —— LENGTH OF RIGHT END CANTILEVER
(1) —— CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater

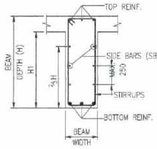


END SPAN BEAM [RHS] WITH CANTILEVER (5)

LOCATION			SIZE		SPAN			REINFORCEMENT																		SIDE BAR	STIRRUPS					REMARKS
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN														
								T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	
1VB20	1	–	1250	500	–	11050	–	10T25	–	10T25	10T25	–	2T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–150	T8–200	T8–150	–	4	–
1VB21	3	–	1250	500	–	10550	–	–	–	–	–	–	–	–	–	–	–	–	–	10T32	2T32	10T25	10T25	–	10T25	–	2T25	–	T8–200	T8–200	T8–200	–	4	–
1VB22	1	–	200	600	–	4450	–	2T16	–	2T16	2T16	–	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T10–125	T10–200	T10–125	–	1	–
1VB23	2	–	200	600	–	4800	–	–	–	–	–	–	–	2T20	2T16	2T16	2T16	–	2T12	–	–	–	–	–	–	–	–	–	T8–125	T8–200	T8–125	–	1	–
1VB24	3	–	200	600	–	6200	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T16	2T16	2T16	–	2T25	2T16	–	–	T8–125	T8–200	T8–125	–	1	–
1VB25	1		1250	500		11050		10T25		10T25	10T25																		T8 200	T8 200	T8 200		4	
1VB26	3	–	1250	500	–	11250	–	–	–	–	–	–	–	–	–	–	–	–	–	10T32	2T32	10T25	10T25	–	10T25	–	–	–	T8–200	T8–200	T8–200	–	4	–
1VB29	1	–	1000	500	–	10800	–	10T20	2T20	10T16	10T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	4	–
1VB30	3	–	1000	500	–	10600	–	–	–	–	–	–	–	–	–	–	–	–	–	10T20	–	10T16	10T20	2T20	10T16	–	–	–	T8–200	T8–200	T8–200	–	4	–
1VB31	1	–	300	800	–	4750	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1VB32	2	–	300	800	–	4800	–	–	–	–	–	–	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1VB33	3	–	300	800	–	6200	–	–	–	–	–	–	–	–	–	–	–	–	–	3T16	–	3T16	3T16	2T16	3T16	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1VB34	1	–	1000	500	–	10900	–	10T20	2T20	10T16	10T16	–	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	4	–
1VB35	3	–	1000	500	–	11000	–	–	–	–	–	–	–	–	–	–	–	–	–	10T20	–	10T16	10T20	–	10T16	–	–	–	T8–200	T8–200	T8–200	–	4	–
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN								BAR SIDE	STIRRUPS					
								REINFORCEMENT																										



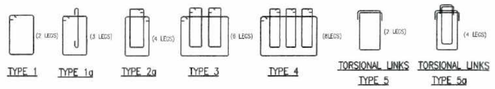
TYP. BEAM SECTION



TYP. SIDE BARS DETAIL FOR H1 > 750

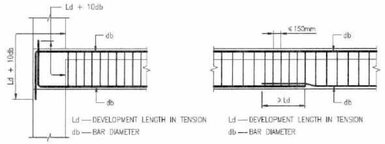
NOTES :

1. FOR GENERAL NOTES REFER TO BE1820_/S-/NT/---/01
2. FOR STANDARD DETAILS REFER TO BE1820_/S-/SD/---/01
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
4. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
5. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
6. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
7. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM.
8. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS.
9. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE.
10. NOT MORE THAN SIDE BARS (EITHER TOP OR BOTTOM BARS) SHALL BE SPLICED AT ANY ONE SECTION.
11. AT LAP ZONE, MAXIMUM SPACING OF THE LINKS SHALL NOT EXCEED 150MM.



TYPE 1 TYPE 1a TYPE 2a TYPE 3 TYPE 4 TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a

STIRRUPS TYPE

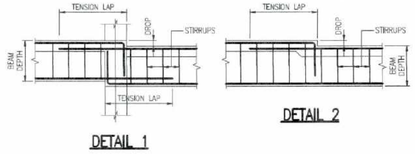


ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

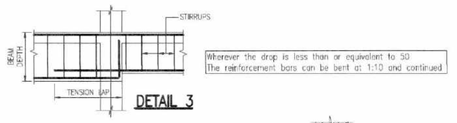
NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN

LAP/SPLICE IN BEAM

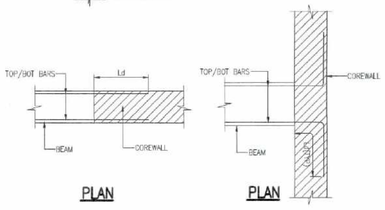
NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION



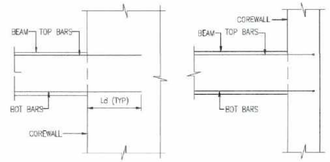
DETAIL 1 DETAIL 2



DETAIL 3



PLAN PLAN



ELEVATION ELEVATION

TYPICAL DETAIL AT CORE WALL LOCATION

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
23 JAN 2025
BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
–	ISSUE FOR CONSTRUCTION	MANI	23/01/2025

CONSTRUCTION DRAWING
STRUCTURAL

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CENOTAPH ROAD
CHENNAI 600004

Architect
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NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

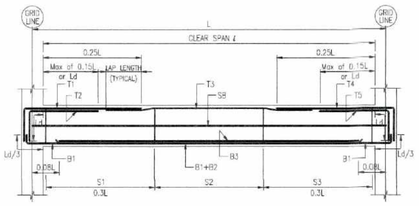
drawing title
FIRST FLOOR BEAM DETAILS

scale	1:100	design by	ROHITH
drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BE1749_S-/BM/01-/---/03		revision

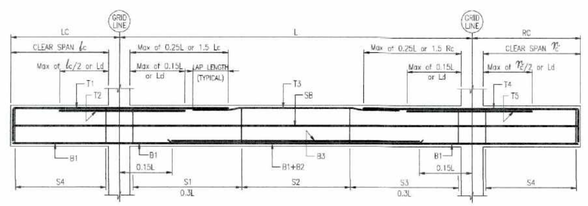
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XREF : BE0615_S-XREFA1_.dwg

CAD FILE NAME: BE1749_S-BM01---03_.dwg



TYPICAL DETAIL OF SINGLE SPAN BEAM (1)



TYPICAL DETAIL OF SINGLE SPAN BEAM WITH CANTILEVERS (2)

LOCATION			SIZE		SPAN			REINFORCEMENT								SIDE BAR	STIRRUPS					REMARKS
								SPAN														
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	T1	T2	T3	T4	T5	B1	B2	B3	SB	S1	S2	S3	S4	TYPE	
GHB5	1	–	600	800	–	4400	–	5T16	–	5T16	5T16	–	5T16	–	–	–	T8–200	T8–200	T8–200	–	2a	–
GHB7	1	–	300	800	–	4650	–	3T16	–	3T16	3T16	–	3T16	–	–	–	T8–200	T8–200	T8–200	–	1a	–
GHB8	1	–	300	800	–	7700	–	3T20	2T20	3T16	3T20	2T16	3T20	–	2T16	–	T8–150	T8–200	T8–150	–	1a	–
GHB9	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
GHB12	1	–	300	600	–	5350	–	3T20	–	3T20	3T25	2T32	3T25	–	2T25	–	T10–100	T10–125	T10–100	–	1a	–
GHB13	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T20	–	2T16	–	T8–175	T8–200	T8–175	–	1	–
GHB14	1	–	300	600	–	4200	–	3T16	2T16	3T16	3T16	–	3T16	–	–	–	T8–200	T8–200	T8–200	–	1a	–
GHB15	1	–	300	600	–	7500	–	3T25	2T25	3T20	3T25	3T25	3T25	–	2T25	–	T10–125	T10–150	T10–125	–	1a	–
GHB16	1	–	300	600	–	3300	–	3T16	2T16	3T16	3T16	–	3T16	–	–	–	T8–200	T8–200	T8–200	–	1a	–
GHB17	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T20	–	2T16	–	T8–200	T8–200	T8–200	–	1	–
GHB22	1	–	200	450	–	2700	–	2T16	–	2T16	2T16	–	2T16	–	2T16	–	T8–200	T8–200	T8–200	–	1	–
GHB23	1	–	450	500	–	5700	–	4T16	–	4T16	4T16	–	4T16	–	2T16	–	T8–200	T8–200	T8–200	–	2a	–
GHB24	1	–	600	800	–	4400	–	5T16	–	5T16	5T16	–	5T16	–	–	–	T8–200	T8–200	T8–200	–	2a	–
GHB25	1	–	600	800	–	4500	–	5T16	–	5T16	5T16	–	5T16	–	–	–	T8–200	T8–200	T8–200	–	2a	–
GHB26	1	–	450	450	–	3700	–	4T16	2T16	4T16	4T16	2T20	4T16	–	–	–	T8–200	T8–200	T8–200	–	2a	–
GHB27	1	–	300	800	–	4400	–	3T16	–	3T16	3T16	2T16	3T16	–	–	–	T8–200	T8–200	T8–200	–	1a	–
GHB28	1	–	300	800	–	4800	–	3T16	2T16	3T16	3T16	2T16	3T16	–	–	–	T8–200	T8–200	T8–200	–	1a	–
GHB29	1	–	300	800	–	4500	–	3T16	2T16	3T16	3T16	–	3T16	–	–	–	T8–200	T8–200	T8–200	–	1a	–
GHB30	1	–	450	450	–	3000	–	4T16	2T16	4T16	4T16	2T20	4T16	–	–	–	T8–200	T8–200	T8–200	–	2a	–
GVB3	1	–	300	800	–	4200	–	3T20	2T16	3T16	3T20	2T16	3T16	–	2T16	–	T8–150	T8–200	T8–150	–	1a	–
GVB4	1	–	300	800	–	4100	–	3T20	2T16	3T16	3T20	2T16	3T20	–	–	–	T8–150	T8–200	T8–150	–	1a	–
GVB5	1	–	300	800	–	3950	–	3T20	2T16	3T16	3T20	2T16	3T16	–	2T16	–	T8–150	T8–200	T8–150	–	1a	–
GVB8	1	–	200	450	–	2050	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
GVB9	1	–	200	600	–	2400	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
GVB16	1	–	200	600	–	3450	–	2T16	–	2T16	2T20	2T16	2T16	–	–	–	T8–125	T8–200	T8–125	–	1	–
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	T4	T5	B1	B2	B3	BAR SIDE	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			REINFORCEMENT									STIRRUPS					

XREF : BEB615_S-XREFA1_.dwg

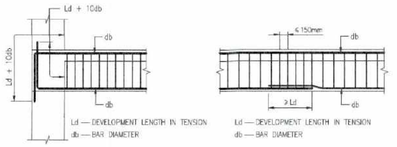
LEGEND

L —— LENGTH OF SPAN UNDER CONSIDERATION
Lc —— LENGTH OF LEFT END CANTILEVER
Rc —— LENGTH OF RIGHT END CANTILEVER
d —— EFFECTIVE DEPTH OF BEAM
db —— MINIMUM DIA OF BAR
(1) —— CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater

NOTES :

1. FOR GENERAL NOTES REFER TO BE620_/S-/ST/--/01
2. FOR STANDARD DETAILS REFER TO BE620_/S-/SD/--/01
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
4. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
5. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
6. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
7. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
8. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
9. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE
10. NOT MORE THAN 50% BARS (EITHER TOP OR BOTTOM BARS) SHALL BE SPLICED AT ANY ONE SECTION
11. AT LAP ZONE, MAXIMUM SPACING OF THE LINKS SHALL NOT EXCEED 150MM.

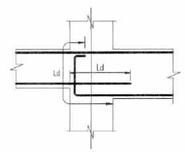


ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

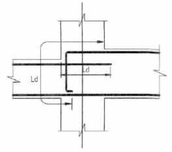
NOTE:
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LAP/SPLICE IN BEAM

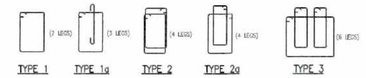
NOTE:
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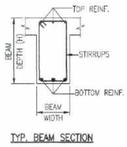


DETAIL OF BEAM COLUMN JUNCTION
(JUNCTION OF BEAMS OF VARYING DEPTH)

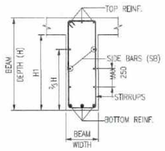


DETAIL OF BEAM COLUMN JUNCTION
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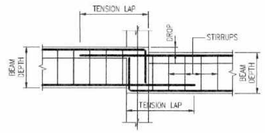


TYP. BEAM SECTION

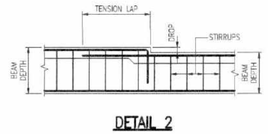


TYP. SIDE BARS DETAIL FOR H1 > 750

STIRRUPS TYPE

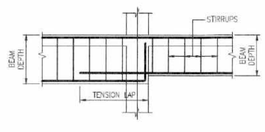


DETAIL 1

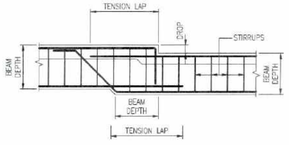


DETAIL 2

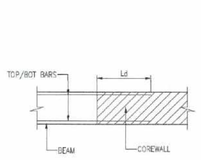
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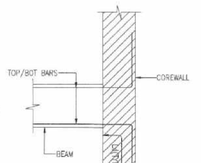
DETAIL 3



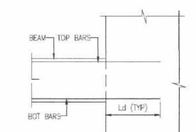
DETAIL 4



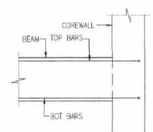
PLAN



PLAN



ELEVATION



ELEVATION

TYPICAL DETAIL AT CORE WALL LOCATION

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
26 DEC 2024
BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
–	ISSUE FOR CONSTRUCTION	MANI	26/12/2024

CONSTRUCTION DRAWING
STRUCTURAL

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CANAPATHY COLONY,3RD LANE OFF.
CENOTAPH ROAD
CHENNAI 600004

Architect
M/S.NATARAJ & VENKAT ARCHITECTS
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Civil & Structural Engineer :
Buro Engineers (I) Private Ltd.,
CIVIL & STRUCTURAL CONSULTANTS
NEW #31, OLD #14, RESANT AVENUE ROAD,
ADAYAR, CHENNAI–600020.
TEL: 42658573. / 74, FAX: 24662755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

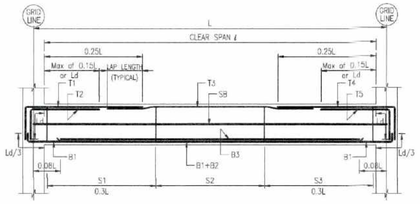
drawing title
GROUND FLOOR BEAM DETAILS

scale	1:100	design by	ROHITH
drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BEJ749_S-/BM/G-/--//01	revision	–

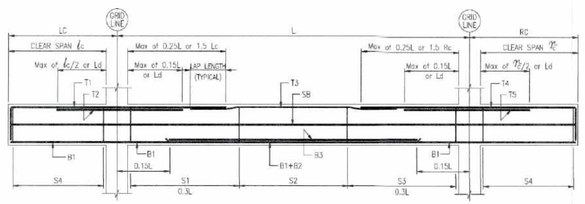
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CAD FILE NAME: BEJ749_S-BMG---01_.dwg

P.A. THEERTHAN, M.E., (Struct.)
REGD. STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SIL/CH-0199/2007
"PRASANTH" (OLD No.14), RESANT AVENUE
ADYAR, CHENNAI - 600 020.



TYPICAL DETAIL OF SINGLE SPAN BEAM (1)



TYPICAL DETAIL OF SINGLE SPAN BEAM WITH CANTILEVERS (2)

LOCATION			SIZE		SPAN			REINFORCEMENT								SIDE BAR	STIRRUPS					REMARKS
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	SPAN T1	T2	T3	T4	T5	B1	B2	B3	SB	S1	S2	S3	S4	TYPE	
GVB21	1	–	1250	500	–	10900	–	10T25	–	10T25	10T32	–	10T20	–	2T20	–	T8–200	T8–200	T8–200	–	4	–
GVB22	1	–	1250	500	–	10550	–	10T32	–	10T25	10T25	–	10T20	–	3T20	–	T8–200	T8–200	T8–200	–	4	–
GVB23	1	–	200	600	–	4600	–	2T16	–	2T16	2T16	–	2T20+ 2T20	–	–	–	T10–100	T10–200	T10–100	–	1	–
GVB26	–	–	200	600	–	2750	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
GVB27	–	–	1000	500	–	10800	–	10T25	4T25	10T20	10T25	5T25	10T20	–	4T20	–	T8–150	T8–200	T8–150	–	4	–
GVB28	–	–	1000	500	–	10400	–	10T25	5T25	10T20	10T25	5T25	10T20	–	4T20	–	T8–150	T8–200	T8–150	–	4	–
WHB1	–	–	300	600	–	4800	–	3T16	2T16	3T16	3T16	–	3T16	–	2T16	–	T10–125	T10–200	T10–125	–	1a	–
WHB2	–	–	300	600	–	2900	–	3T16	–	3T16	3T16	–	3T16	–	–	–	T8–150	T8–200	T8–150	–	1a	–
WHB3	–	–	300	600	–	4900	–	3T16	2T16	3T16	3T16	–	3T16	–	–	–	T8–150	T8–200	T8–150	–	1a	–
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	T4	T5	B1	B2	B3	SB	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			REINFORCEMENT								BAR SIDE	STIRRUPS					

XREF : BE1615_S-XREFA1_.dwg

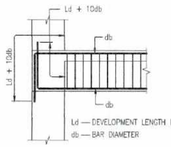
LEGEND

L ——LENGTH OF SPAN UNDER CONSIDERATION
Lc ——LENGTH OF LEFT END CANTILEVER
Rc ——LENGTH OF RIGHT END CANTILEVER
d ——EFFECTIVE DEPTH OF BEAM
db——MINIMUM DIA OF BAR
(1)——CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater

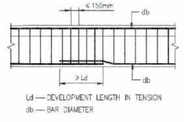
NOTES :-

1. FOR GENERAL NOTES REFER TO BE1620_/S-/NT/--/01
2. FOR STANDARD DETAILS REFER TO BE1620_/S-/SD/--/01
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
4. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
5. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
6. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
7. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM.
8. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
9. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE
10. NOT MORE THAN 50% BARS (EITHER TOP OR BOTTOM BARS) SHALL BE SPLICED AT ANY ONE SECTION
11. AT LAP ZONE, MAXIMUM SPACING OF THE LINKS SHALL NOT EXCEED 150MM.



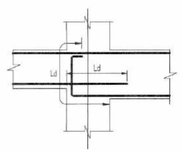
ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN

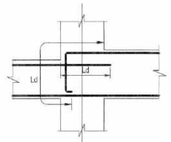


LAP/SPLICE IN BEAM

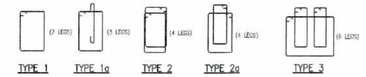
NOTE:
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DETAIL OF BEAM COLUMN JUNCTION
(JUNCTION OF BEAMS OF VARYING DEPTH)



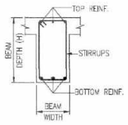
DETAIL OF BEAM COLUMN JUNCTION
(JUNCTION OF BEAMS OF VARYING DEPTH)



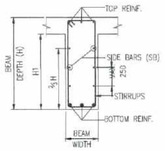
TYPE 1 TYPE 1a TYPE 2 TYPE 2a TYPE 3



TYPE 4 TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a

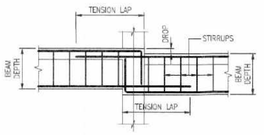


TYP. BEAM SECTION

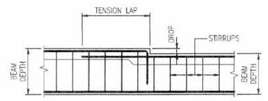


TYP. SIDE BARS DETAIL FOR H1 > 750

STIRRUPS TYPE

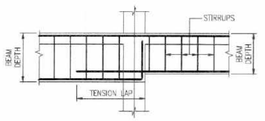


DETAIL 1

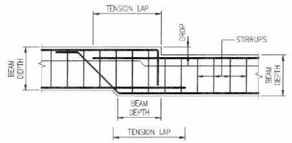


DETAIL 2

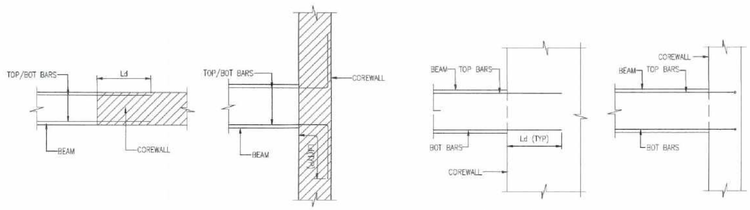
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DETAIL 3



DETAIL 4



PLAN PLAN ELEVATION ELEVATION

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project title
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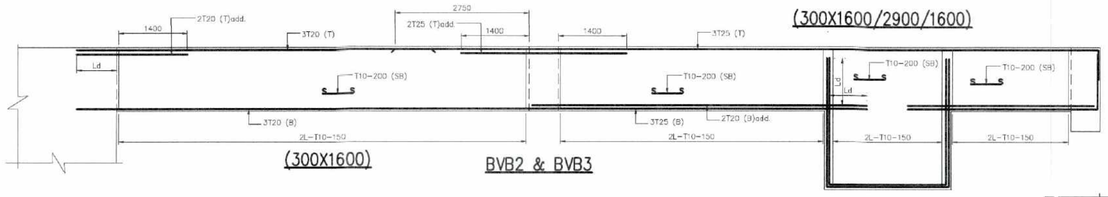
drawing title
GROUND FLOOR BEAM DETAILS

scale	1:100	design by	ROHITH
drawn by	MANI	checked by	SMA
date	DEC 2024	approved by	PJ
drawing no.	BE1749_S-/BM/G-/--//02	revision	–

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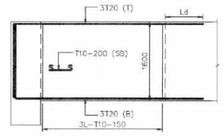
CAD FILE NAME: BE1749_S-BMG---02_.dwg

S.GAJENDRA GANESAN, M.E., (Struct.)
APPROVED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No.SE/CHN/01/STR/2007
VALID UPTO 31.12.2021
Door No.31, (OLD No.14), BESANT AVENUE ROAD,
ADYAR, CHENNAI - 600 020.

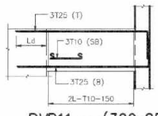


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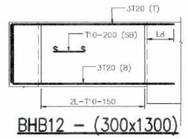
BVB2 & BVB3



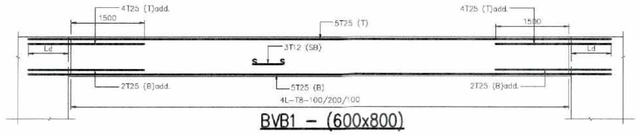
BHB9 – (300x1600)



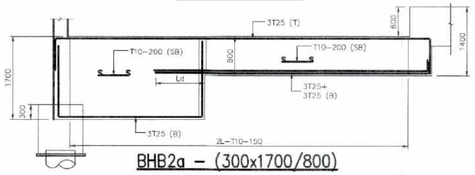
BVB11 – (300x850)



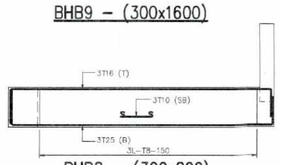
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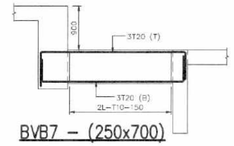
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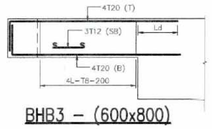
BHB2a – (300x1700/800)



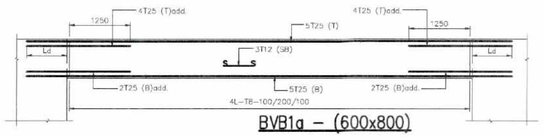
BHB8 – (300x800)



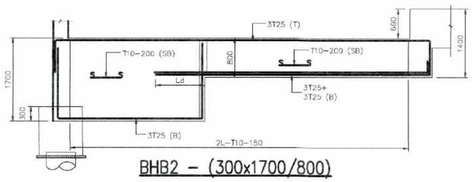
BVB7 – (250x700)



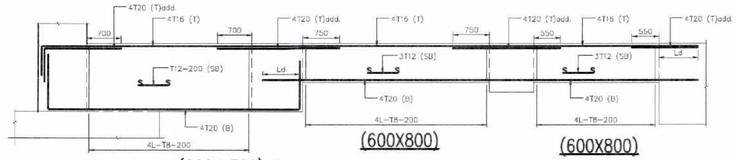
BHB3 – (600x800)



BVB1a – (600x800)



BHB2 – (300x1700/800)

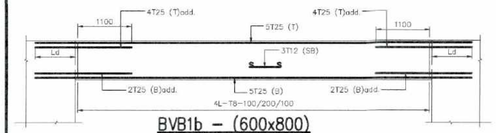


(600X1700) & (600X1300)

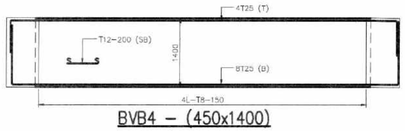
BHB4,BHB5 & BHB6

(600X800)

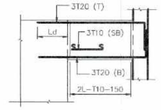
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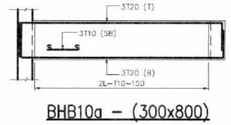
BVB1b – (600x800)



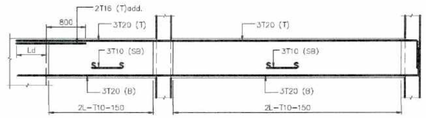
BVB4 – (450x1400)



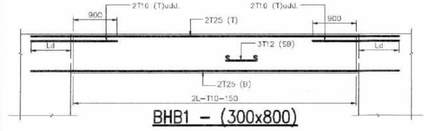
BVB8 – (300x800)



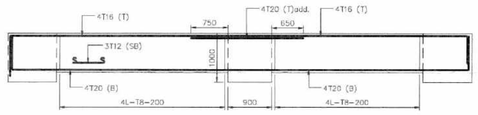
BHB10a – (300x800)



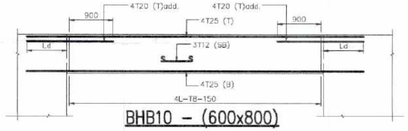
BVB9 & BVB10 – (300x800)



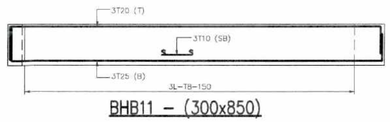
BHB1 – (300x800)



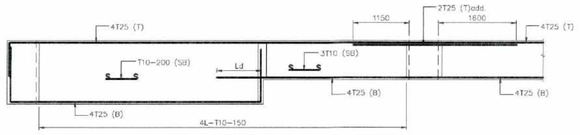
BVB5 & BVB6 – (600x800)



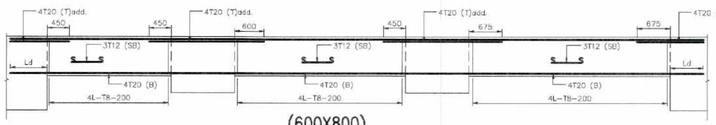
BHB10 – (600x800)



BHB11 – (300x850)



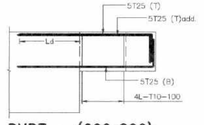
BVB13 (600x1300/800)



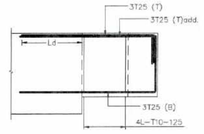
(600X800)

BVB12,BVB12a & BVB12b

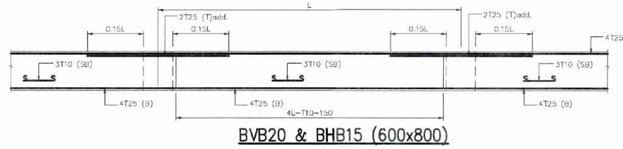
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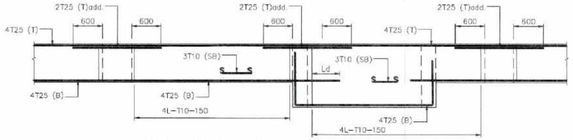
BHB7 – (600x800)



BHB7a – (300x1300)

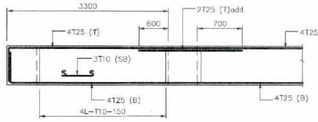


BVB20 & BHB15 (600x800)
TYPICAL BEAM DETAIL

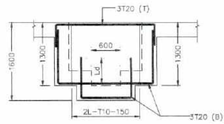


BVB20 (600x800)

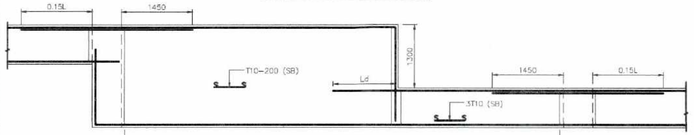
BVB17 (600x1300)



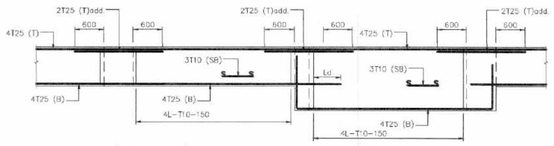
BVB16 (600x800)



BVB12a (600x1300/1600/1300)

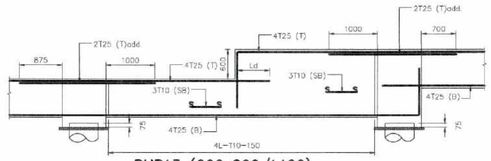


BVB14 600x2100/800

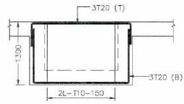


BVB20 (600x800)

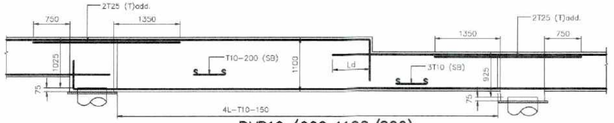
BVB18 (600x1300)



BHB13 (600x800/1400)



BVB12b (600x1300)



BVB19 (600x1100/800)

XREF : BEI615_S-XREFA1_.dwg

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
23 JAN 2025
BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
-	ISSUE FOR CONSTRUCTION	GUNA	23/01/2025

CONSTRUCTION DRAWING
STRUCTURAL

Client
M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
NO.3,OLD NO.25,
GANAPATHY COLONY,3RD LANE OFF.
CENOTAPH ROAD
CHENNAI 600004

Architect
M/S. NATARAJ & VENKAT ARCHITECTS
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THIRUVANMIYUR,
CHENNAI 600 041
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Civil & Structural Engineer :
Buro Engineers (I) Private Ltd.,
CIVIL & STRUCTURAL CONSULTANTS
NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

drawing title
BASEMENT BEAM DETAILS

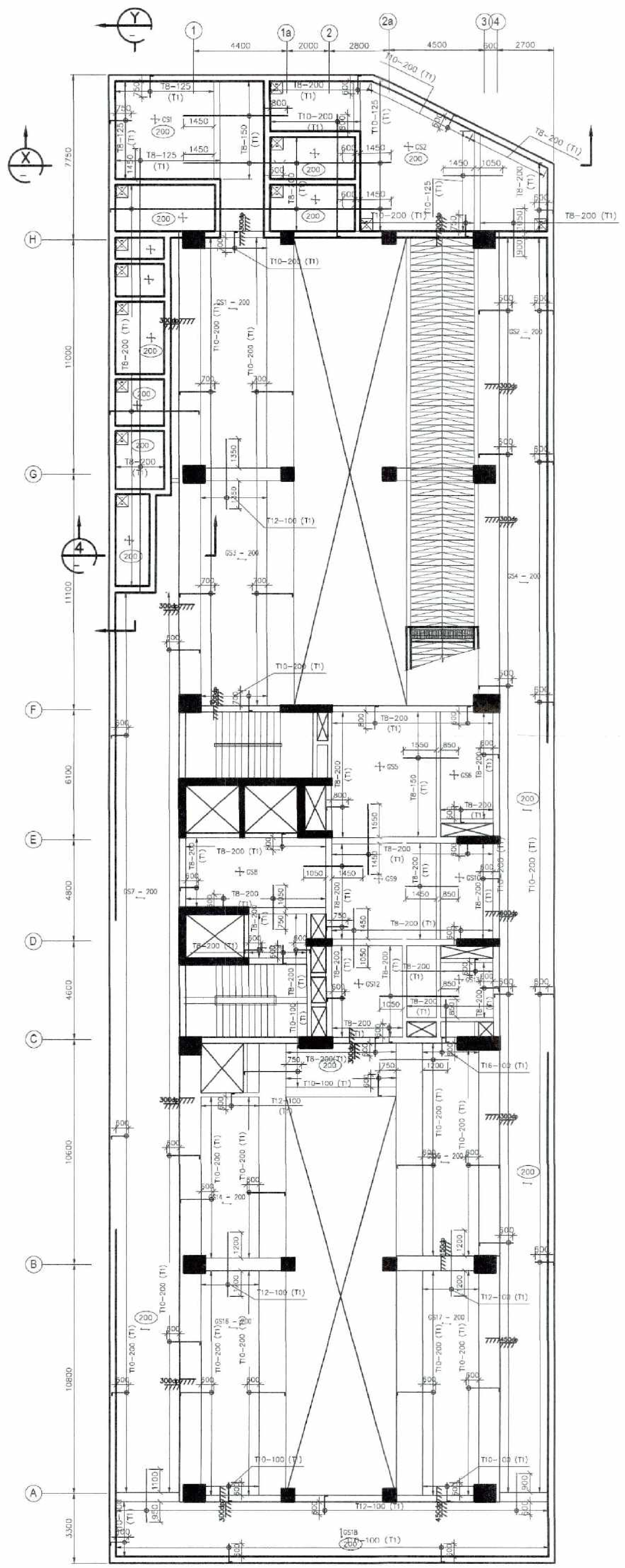
scale	1:125	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BEI749_S-/PL/--/--/07	revision	-

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CAD FILE NAME: BEI749_S-PL----07_.dwg

* PILECAP LAYOUT PLAN REFER CAD FILE NAME: BEI749_S-PL----02_.dwg
* BASEMENT BEAM DETAILS REFER CAD FILE NAME: BEI749_S-PL----07_.dwg
* BASEMENT SLAB DETAILS REFER CAD FILE NAME: BEI749_S-PL----05_.dwg
* BASEMENT & STP, SUMP WALL SECTION DETAILS REFER CAD FILE NAME: BEI749_S-PL----06_.dwg

P.J. ANTHEENAN, M.E.
CHIEF STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No.SR/CHN-0178/M/2012
NO.31 (OLD No.14), BESANT AVENUE ROAD,
ADYAR, CHENNAI - 600 020.



GROUND FLOOR SLAB DETAIL TOP REINFT.

SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED

1. GRADE OF CONCRETE
   a. COLUMNS AND RC WALL– M40
   b. ALL OTHER ELEMENTS – M35
2. GRADE OF STEEL Fe 550
3. ALL THE BEAMS SIZES ARE TO BE (200x600)
4. ALL THE PT SLABS SIZES ARE TO BE REFER PLAN
5. ALL THE RC SLABS ARE TO BE 150mm THICK
6. ALL THE COLUMNS SIZES ARE TO BE REFER PLAN

NOTES

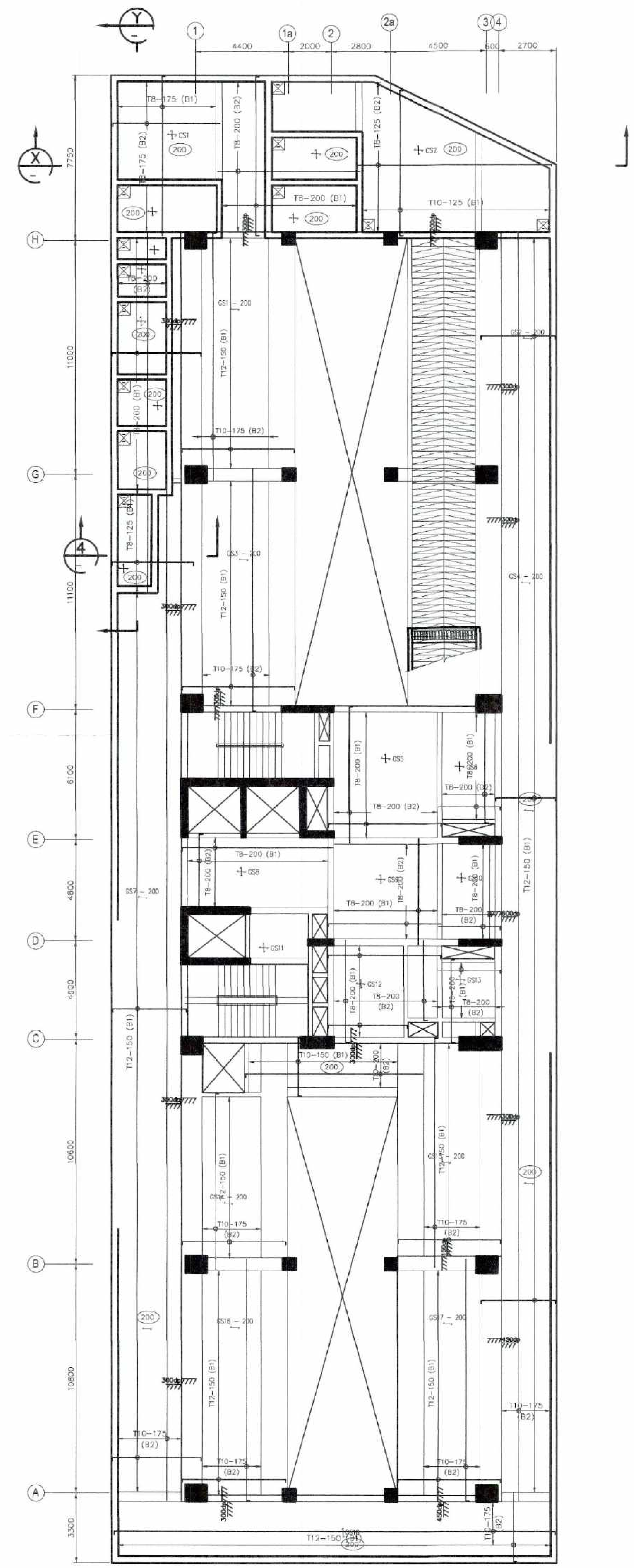
FOR CLARITY PURPOSE DISTRIBUTION BARS NOT SHOWN. THE DISTRIBUTION BARS ARE TO BE T8–200 (T2&B2) UNLESS OTHERWISE INDICATED

LEGEND:

——— TOP REINFORCEMENT

——— BOTTOM REINFORCEMENT

BAR LAYING SEQUENCE (T1) (T2) (B1) (B2)



GROUND FLOOR BOTTOM REINFT.

SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED

1. GRADE OF CONCRETE
   a. COLUMNS AND RC WALL– M40
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XREF : BEI615_S–XREFA1_.dwg

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CONSTRUCTION DRAWING

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TEL: 42658573 / 74, FAX: 24662755

project title

PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

drawing title

GROUND FLOOR SLAB DETAIL

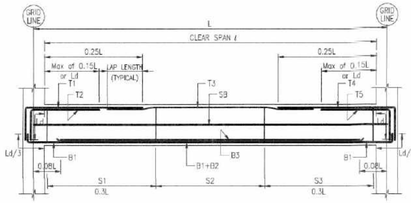
TOP & BOTTOM REINFT.

scale	1:100	design by	ROHIT
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BEI749_S–/SB/G–/––//01	revision	–

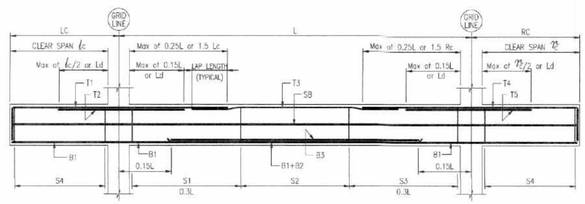
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CAD FILE NAME: BEI749_S–SBG–––01_.dwg

JEGATHEESAN, M.E. REGISTERED STRUCTURAL ENGINEER, CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY, REGISTRATION No.SE/GR-I/19/03/027, NEW No.31 (OLD No.14), BESANT AVENUE, ADYAR, CHENNAI - 600 020.



ROOFDETAIL OF SINGLE SPAN BEAM (1)



ROOFDETAIL OF SINGLE SPAN BEAM WITH CANTILEVERS (2)

LOCATION			SIZE		SPAN			REINFORCEMENT								SIDE BAR	STIRRUPS					REMARKS
								SPAN														
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	T1	T2	T3	T4	T5	B1	B2	B3	SB	S1	S2	S3	S4	TYPE	
RHB3	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
RHB6	1	–	300	600	–	6350	–	3T25	–	3T25	3T32	2T32	3T32	–	2T20	–	T10-100	T10-100	T10-100	–	1a	–
RHB8	1	–	300	600	–	4200	–	3T20	2T20	3T16	3T16	–	3T16	–	–	–	T8-200	T8-200	T8-200	–	1a	–
RHB7	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T20	–	2T16	–	T8-150	T8-200	T8-150	–	1	–
RHB9	1	–	300	600	–	7500	–	3T25	3T25	3T25	3T32	3T25	3T25	–	2T20	–	T10-100	T10-125	T10-100	–	1a	–
RHB10	1	–	300	600	–	3350	–	3T20	3T20	3T20	3T20	–	3T16	–	–	–	T8-200	T8-200	T8-200	–	1a	–
RHB11	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T16	–	2T16	–	T8-200	T8-200	T8-200	–	1	–
RVB1	1	–	300	800	–	4200	–	3T20	2T25	3T16	3T20	2T25	3T20	–	–	–	T8-175	T8-200	T8-175	–	1a	–
RVB2	1	–	300	800	–	4100	–	3T25	2T25	3T20	3T25	2T25	3T25+ 2T20	–	–	–	T8-100	T8-125	T8-100	–	1a	–
RVB3	1	–	300	800	–	3950	–	3T25	2T20	3T20	3T20	2T20	3T20	–	–	–	T8-175	T8-200	T8-175	–	1a	–
RVB4	1	–	200	600	–	2400	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
RVB7	1	–	200	600	–	3450	–	2T20	2T16	2T16	2T16	–	2T16	–	–	–	T8-100	T8-200	T8-100	–	1	–
RVB15	1	–	200	600	–	2050	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
RVB16	1	–	200	600	–	2800	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	T4	T5	B1	B2	B3	BAR SIDE	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			REINFORCEMENT									STIRRUPS					

XREF : BE1615_S-XREFA1_.dwg

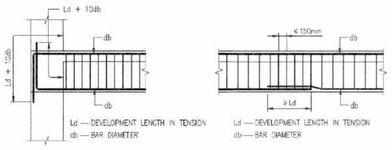
LEGEND

L ——LENGTH OF SPAN UNDER CONSIDERATION
Lc ——LENGTH OF LEFT END CANTILEVER
Rc ——LENGTH OF RIGHT END CANTILEVER
d ——EFFECTIVE DEPTH OF BEAM
db——MINIMUM DIA OF BAR
(1)——CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater

NOTES :

1. FOR GENERAL NOTES REFER TO BE1620_/S-/M1/--/01
2. FOR STANDARD DETAILS REFER TO BE1620_/S-/SD/--/01
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
4. IF THE REINFORCEMENT IS PROMPTED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
5. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL
6. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
7. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
8. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
9. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE
10. NOT MORE THAN 50% BARS (EITHER TOP OR BOTTOM BARS) SHALL BE SPLICED AT ANY ONE SECTION
11. AT LAP ZONE, MAXIMUM SPACING OF THE LINKS SHALL NOT EXCEED 150MM.

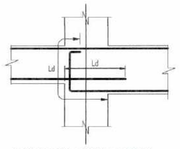


ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

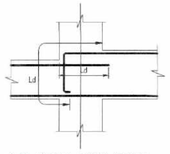
NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN.

LAP/SPLICE IN BEAM

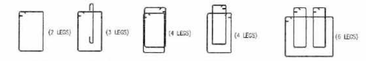
NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION



DETAIL OF BEAM COLUMN JUNCTION
(JUNCTION OF BEAMS OF VARYING DEPTH)

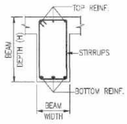


DETAIL OF BEAM COLUMN JUNCTION
(JUNCTION OF BEAMS OF VARYING DEPTH)

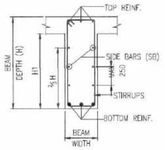


TYPE 1 TYPE 1a TYPE 2 TYPE 2a TYPE 3

TYPE 4 TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a

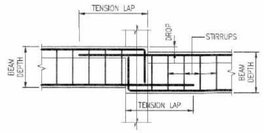


TYP. BEAM SECTION

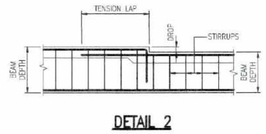


TYP. SIDE BARS DETAIL FOR H1 > 750

STIRRUPS TYPE

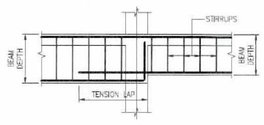


DETAIL 1

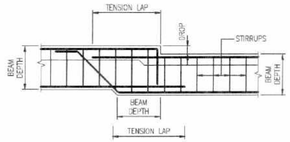


DETAIL 2

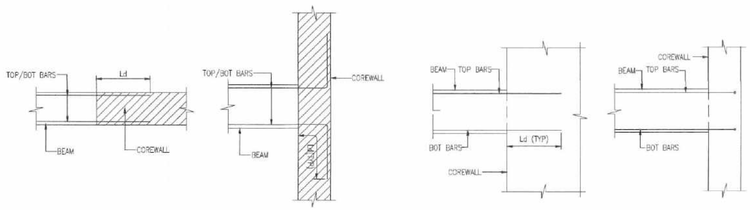
Wherever the drop is less than or equivalent to 50 The reinforcement bars can be bent at 1:10 and continued



DETAIL 3



DETAIL 4



PLAN PLAN ELEVATION ELEVATION

ROOFDETAIL AT CORE WALL LOCATION

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
26 DEC 2024
BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
–	ISSUE FOR CONSTRUCTION	MANI	26/12/2024

CONSTRUCTION DRAWING

STRUCTURAL

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NO.3,OLD NO.25,
GANAPATHY COLONY,3RD LANE OFF.
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NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

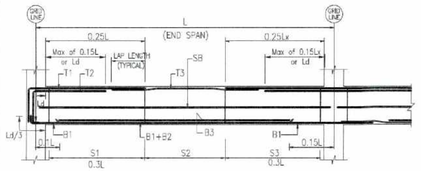
STILT + 7TH FLOOR + ROOF FLOOR

drawing title
ROOF FLOOR BEAM DETAILS

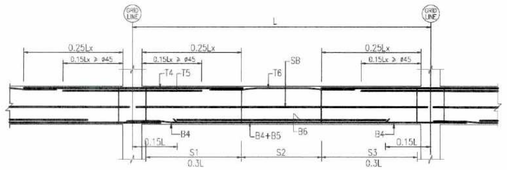
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drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BE1749_S-/BM/R-/--//01	revision	–

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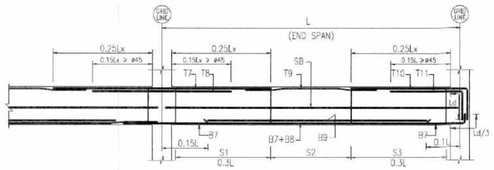
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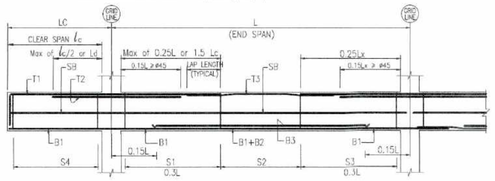
END SPAN BEAM [LHS] (1)



INTERMEDIATE SPAN BEAM (2)



END SPAN BEAM [RHS] (3)

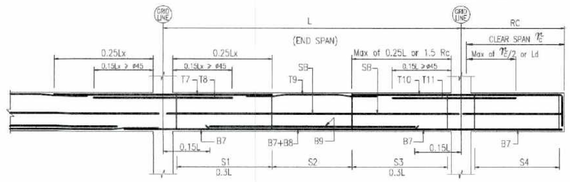


END SPAN BEAM [LHS] WITH CANTILEVER (4)

LEGEND

L —— LENGTH OF SPAN UNDER CONSIDERATION
La —— LENGTH OF ADJACENT SPAN TO THE SPAN UNDER CONSIDERATION
Lc —— LENGTH OF LEFT END CANTILEVER
Rc —— LENGTH OF RIGHT END CANTILEVER
(1) —— CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater



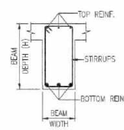
END SPAN BEAM [RHS] WITH CANTILEVER (5)

LOCATION			SIZE		SPAN			REINFORCEMENT																		SIDE BAR	STIRRUPS					REMARKS
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN														
								T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	
RHB1	1	–	300	800	–	5575	–	3T20	–	3T20	3T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–175	T8–200	T8–175	–	1a	–
RHB2	3	–	300	800	–	8125	–	–	–	–	–	–	–	–	–	–	–	–	–	3T25	2T25	3T20	3T25	2T25	3T20	–	–	–	T8–125	T8–150	T8–125	–	1a	–
RHB4	1	–	200	600	–	2800	–	2T16	–	2T16	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1	–
RHB5	3	–	200	600	–	2950	–	–	–	–	–	–	–	–	–	–	–	–	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
RHB12	1	–	300	800	–	5925	–	3T20	–	3T20	3T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
RHB13	3	–	300	800	–	7675	–	–	–	–	–	–	–	–	–	–	–	–	–	3T20	2T25	3T20	3T25	2T20	3T20	–	–	–	T8–150	T8–200	T8–150	–	1a	–
RVB5	1	–	200	600	–	4800	–	2T20	2T20	2T16	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–100	T8–200	T8–100	–	1	–
RVB6	3	–	200	600	–	1500	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	–	2T20	2T20	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
RVB8	1	–	300	600	–	4450	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
RVB9	2	–	300	600	–	5100	–	–	–	–	–	–	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
RVB10	2	–	300	600	–	2450	–	–	–	–	–	–	–	3T20	2T16	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
RVB11	3	–	200	600	–	3450	–	–	–	–	–	–	–	–	–	–	–	–	–	3T16/ 2T16	2T16	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
RVB12	1	–	200	600	–	4450	–	2T16	–	2T16	2T16	–	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T10–125	T10–200	T10–125	–	1	–
RVB13	2	–	200	600	–	4800	–	–	–	–	–	–	–	2T20	2T16	2T16	2T16	–	2T16	–	–	–	–	–	–	–	–	–	T8–125	T8–200	T8–125	–	1	–
RVB14	3	–	200	600	–	6200	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T16	2T16	2T16	–	2T25	–	2T16	–	T8–125	T8–200	T8–125	–	1	–
RVB17	1	–	300	800	–	4750	–	3T16	2T16	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
RVB18	2	–	300	800	–	4800	–	–	–	–	–	–	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
RVB19	3	–	300	800	–	6200	–	–	–	–	–	–	–	–	–	–	–	–	–	3T16	–	3T16	3T16	2T16	3T16	–	–	–	T8–200	T8–200	T8–200	–	1a	–
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	BAR SIDE	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN								STIRRUPS					
								REINFORCEMENT																										

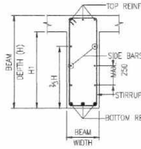
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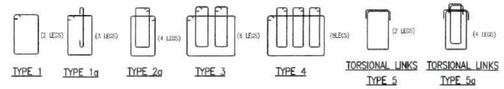
1. FOR GENERAL NOTES REFER TO BD820_/S-/NT/-~/01
2. FOR STANDARD DETAILS REFER TO BE820_/S-/SD/-~/01
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
4. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
5. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
6. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
7. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
8. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
9. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE
10. NOT MORE THAN 50% BARS (EITHER TOP OR BOTTOM BARS) SHALL BE SPLICED AT ANY ONE SECTION
11. AT LAP ZONE, MAXIMUM SPACING OF THE LINKS SHALL NOT EXCEED 150MM.



TYP. BEAM SECTION

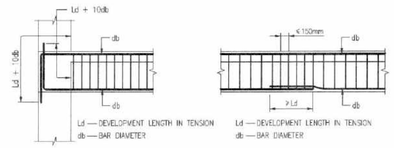


TYP. SIDE BARS DETAIL FOR H1 > 750



TYPE 1 TYPE 1a TYPE 2a TYPE 3 TYPE 4 TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a

STIRRUPS TYPE

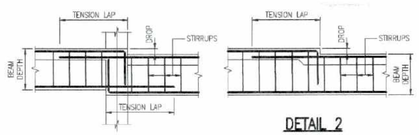


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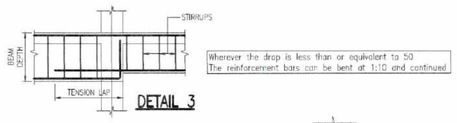
NOTE:
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LAP/SPLICE IN BEAM

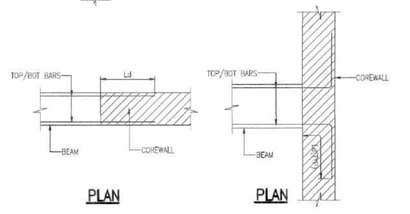
NOTE:
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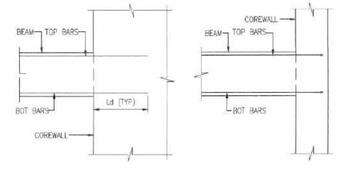
DETAIL 1 DETAIL 2



DETAIL 3



PLAN PLAN



ELEVATION ELEVATION

ROOFDETAIL AT CORE WALL LOCATION

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

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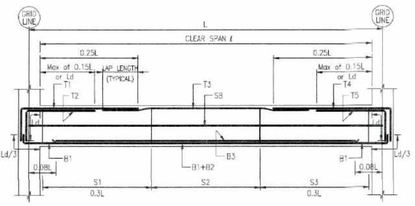
STILT + 7TH FLOOR + ROOF FLOOR

drawing title
ROOF FLOOR BEAM DETAILS

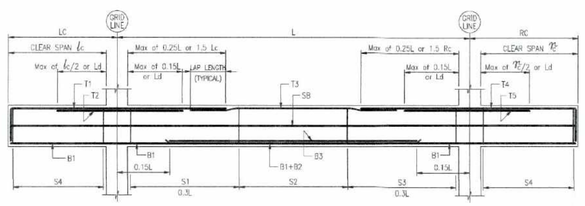
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drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BE1749_S-/BM/R-/--//02	revision	–

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CAD FILE NAME: BE1749_S-BMR---02_.dwg



TYPICAL DETAIL OF SINGLE SPAN BEAM (1)



TYPICAL DETAIL OF SINGLE SPAN BEAM WITH CANTILEVERS (2)

LOCATION			SIZE		SPAN			REINFORCEMENT								SIDE BAR	STIRRUPS					REMARKS
								SPAN														
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	T1	T2	T3	T4	T5	B1	B2	B3	SB	S1	S2	S3	S4	TYPE	
THB3	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
THB5	1	–	300	600	–	6350	–	3T25	–	3T25	3T32	2T32	3T32	–	2T20	–	T10-100	T10-100	T10-100	–	1a	–
THB8	1	–	300	600	–	4200	–	3T20	2T20	3T16	3T16	–	3T16	–	–	–	T8-200	T8-200	T8-200	–	1a	–
THB7	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T20	–	2T16	–	T8-150	T8-200	T8-150	–	1	–
THB9	1	–	300	600	–	7500	–	3T25	3T25	3T25	3T32	3T25	3T25	–	2T20	–	T10-100	T10-125	T10-100	–	1a	–
THB10	1	–	300	600	–	3350	–	3T20	3T20	3T20	3T20	–	3T16	–	–	–	T8-200	T8-200	T8-200	–	1a	–
THB11	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T16	–	2T16	–	T8-200	T8-200	T8-200	–	1	–
TVB1	1	–	300	800	–	4200	–	3T20	2T25	3T16	3T20	2T25	3T20	–	–	–	T8-175	T8-200	T8-175	–	1a	–
TVB2	1	–	300	800	–	4100	–	3T25	2T25	3T20	3T25	2T25	3T25+ 2T20	–	–	–	T8-100	T8-125	T8-100	–	1a	–
TVB3	1	–	300	800	–	3950	–	3T25	2T20	3T20	3T20	2T20	3T20	–	–	–	T8-175	T8-200	T8-175	–	1a	–
TVB4	1	–	200	600	–	2400	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
TVB7	1	–	200	600	–	3450	–	2T20	2T16	2T16	2T16	–	2T16	–	–	–	T8-100	T8-200	T8-100	–	1	–
TVB15	1	–	200	600	–	2050	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
TVB16	1	–	200	600	–	2800	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	T4	T5	B1	B2	B3	SB	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			SPAN								BAR SIDE	STIRRUPS					
								REINFORCEMENT														

XREF : BE1815_S-XREFA1_.dwg

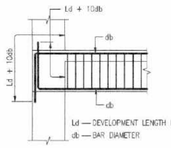
LEGEND

L ——LENGTH OF SPAN UNDER CONSIDERATION
Lc ——LENGTH OF LEFT END CANTILEVER
Rc ——LENGTH OF RIGHT END CANTILEVER
d ——EFFECTIVE DEPTH OF BEAM
db——MINIMUM DIA OF BAR
(1)——CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater

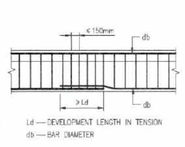
NOTES :-

1. FOR GENERAL NOTES REFER TO BE1820_/S-/NT/--/01
2. FOR STANDARD DETAILS REFER TO BE1820_/S-/SD/--/01
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
4. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
5. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
6. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
7. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM.
8. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
9. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE
10. NOT MORE THAN SIX BARS (EITHER TOP OR BOTTOM BARS) SHALL BE SPLICED AT ANY ONE SECTION
11. AT LAP ZONE, MAXIMUM SPACING OF THE LINKS SHALL NOT EXCEED 150MM.



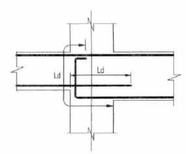
ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN

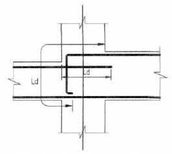


LAP/SPLICE IN BEAM

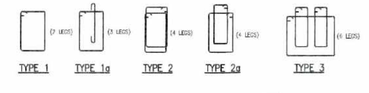
NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION



DETAIL OF BEAM COLUMN JUNCTION
(JUNCTION OF BEAMS OF VARYING DEPTH)

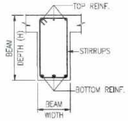


DETAIL OF BEAM COLUMN JUNCTION
(JUNCTION OF BEAMS OF VARYING DEPTH)

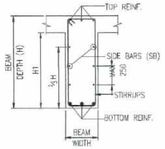


TYPE 1 TYPE 1a TYPE 2 TYPE 2a TYPE 3

TYPE 4 TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a

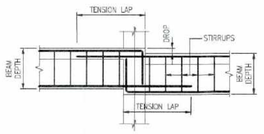


TYP. BEAM SECTION

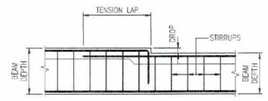


TYP. SIDE BARS DETAIL FOR H1 > 750

STIRRUPS TYPE

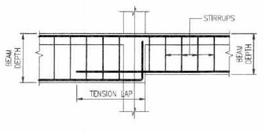


DETAIL 1

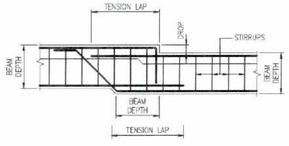


DETAIL 2

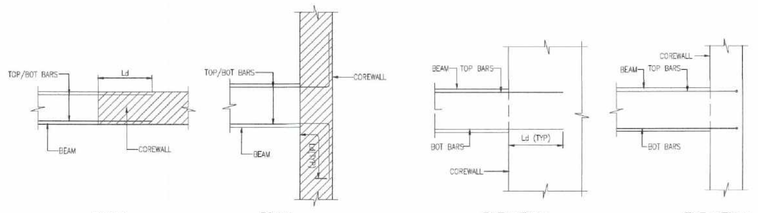
Wherever the drop is less than or equivalent to 50 The reinforcement bars can be bent at 1:10 and continued



DETAIL 3



DETAIL 4



PLAN PLAN ELEVATION ELEVATION

TYPICAL DETAIL AT CORE WALL LOCATION

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
26 DEC 2024
BURO ENGINEERS (I) PRIVATE LTD

NO	AMENDMENTS	BY	DATE
–	ISSUE FOR CONSTRUCTION	MANI	26/12/2024

CONSTRUCTION DRAWING
STRUCTURAL

Client
M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
NO.3,OLD NO.25,
GANAPATHY COLONY,3RD LANE OFF.
CENOTAPH ROAD
CHENNAI 600004

Architect
M/S.NATARAJ & VENKAT ARCHITECTS
18, 3RD SEAWARD RD,
VALMIKI NAGAR,
THIRUVANMIYUR,
CHENNAI 600 041
PH. 044-24572457

Civil & Structural Engineer :
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CIVIL & STRUCTURAL CONSULTANTS
NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

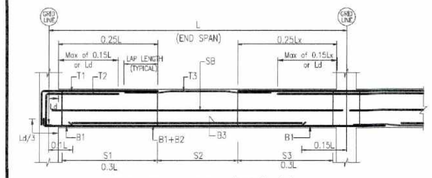
STILT + 7TH FLOOR + ROOF FLOOR

drawing title
TYPICAL FLOOR BEAM DETAILS
(2nd,3rd,4th,5th,6th & 7th) FLOORS

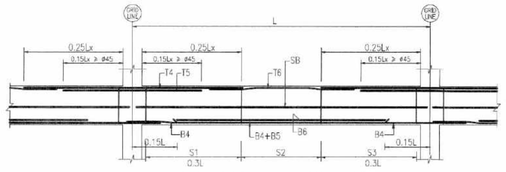
scale	1:100	design by	ROHITH
drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BE1749_S-/BM/T-/--//01	revision	–

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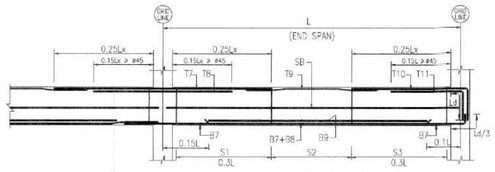
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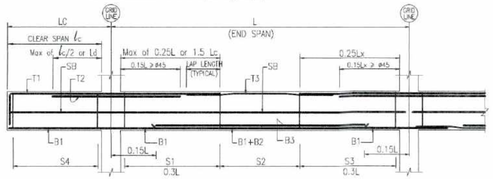
END SPAN BEAM [LHS] (1)



INTERMEDIATE SPAN BEAM (2)



END SPAN BEAM [RHS] (3)

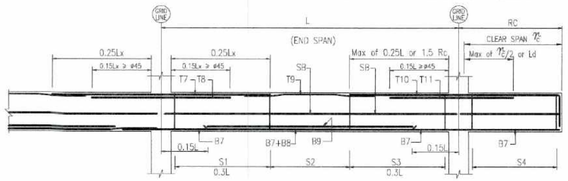


END SPAN BEAM [LHS] WITH CANTILEVER (4)

LEGEND

L —— LENGTH OF SPAN UNDER CONSIDERATION
La —— LENGTH OF ADJACENT SPAN TO THE SPAN UNDER CONSIDERATION
Lc —— LENGTH OF LEFT END CANTILEVER
Rc —— LENGTH OF RIGHT END CANTILEVER
(1) —— CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater



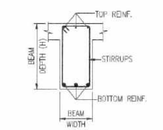
END SPAN BEAM [RHS] WITH CANTILEVER (5)

LOCATION			SIZE		SPAN			REINFORCEMENT																		SIDE BAR	STIRRUPS					REMARKS
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN													
								T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	
TVB1	1	–	300	800	–	5575	–	3T20	–	3T20	3T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–175	T8–200	T8–175	–	1a	–
TVB2	3	–	300	800	–	8125	–	–	–	–	–	–	–	–	–	–	–	–	–	3T25	2T25	3T20	3T25	2T25	3T20	–	–	–	T8–125	T8–150	T8–125	–	1a	–
TVB4	1	–	200	600	–	2800	–	2T16	–	2T16	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1	–
TVB5	3	–	200	600	–	2950	–	–	–	–	–	–	–	–	–	–	–	–	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
TVB12	1	–	300	800	–	5925	–	3T20	–	3T20	3T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
TVB13	3	–	300	800	–	7675	–	–	–	–	–	–	–	–	–	–	–	–	–	3T20	2T25	3T20	3T25	2T20	3T20	–	–	–	T8–150	T8–200	T8–150	–	1a	–
TVB5	1	–	200	600	–	4600	–	2T20	2T20	2T16	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–100	T8–200	T8–100	–	1	–
TVB6	3	–	200	600	–	1500	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	–	2T20	2T20	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
TVB8	1	–	300	600	–	4450	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
TVB9	2	–	300	600	–	5100	–	–	–	–	–	–	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
TVB10	2	–	300	600	–	2450	–	–	–	–	–	–	–	3T20	2T16	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
TVB11	3	–	200	600	–	3450	–	–	–	–	–	–	–	–	–	–	–	–	–	3T16/ 2T16	2T16	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
TVB12	1	–	200	600	–	4450	–	2T16	–	2T16	2T16	–	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T10–125	T10–200	T10–125	–	1	–
TVB13	2	–	200	600	–	4800	–	–	–	–	–	–	–	2T20	2T16	2T16	2T16	–	2T16	–	–	–	–	–	–	–	–	–	T8–125	T8–200	T8–125	–	1	–
TVB14	3	–	200	600	–	6200	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T16	2T16	2T16	–	2T25	–	2T16	–	T8–125	T8–200	T8–125	–	1	–
TVB17	1	–	300	800	–	4750	–	3T16	2T16	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
TVB18	2	–	300	800	–	4800	–	–	–	–	–	–	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
TVB19	3	–	300	800	–	6200	–	–	–	–	–	–	–	–	–	–	–	–	–	3T16	–	3T16	3T16	2T16	3T16	–	–	–	T8–200	T8–200	T8–200	–	1a	–
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN								BAR SIDE	STIRRUPS					
								REINFORCEMENT																										

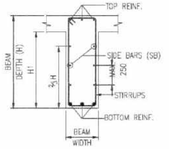
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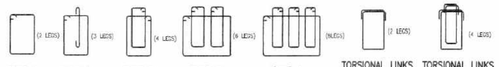
1. FOR GENERAL NOTES REFER TO BEI620_/S-/NT/---/01
2. FOR STANDARD DETAILS REFER TO BEI620_/S-/SD/---/01
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
4. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
5. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
6. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
7. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
8. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS.
9. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE
10. NOT MORE THAN 50% BARS (EITHER TOP OR BOTTOM BARS) SHALL BE SPLICED AT ANY ONE SECTION
11. AT LAP ZONE, MAXIMUM SPACING OF THE LINKS SHALL NOT EXCEED 150MM.



TYP. BEAM SECTION

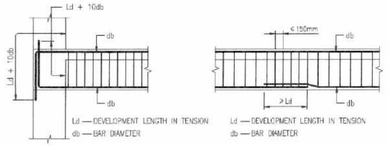


TYP. SIDE BARS DETAIL FOR H1 > 750



TYPE 1 TYPE 1a TYPE 2a TYPE 3 TYPE 4 TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a

STIRRUPS TYPE

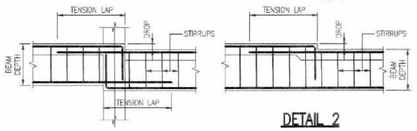


ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN

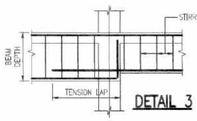
LAP/SPLICE IN BEAM

NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION



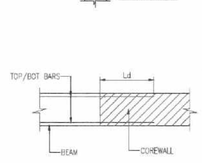
DETAIL 1

DETAIL 2

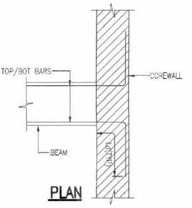


Wherever the drop is less than or equivalent to 50 The reinforcement bars can be bent at 1:10 and continued

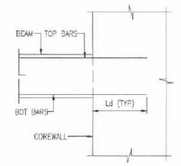
DETAIL 3



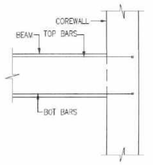
PLAN



PLAN



ELEVATION



ELEVATION

TYPICAL DETAIL AT CORE WALL LOCATION

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
28 DEC 2024
BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
–	ISSUE FOR CONSTRUCTION	MANI	26/12/2024

CONSTRUCTION DRAWING
STRUCTURAL

Client
M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
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CENOTAPH ROAD
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Civil & Structural Engineer :
Buro Engineers (I) Private Ltd.,
CIVIL & STRUCTURAL CONSULTANTS
NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

drawing title
TYPICAL FLOOR BEAM DETAILS
(2nd,3rd,4th,5th,6th & 7th) FLOORS

scale	1:100	design by	ROHITH
drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BEI749_S-/BM/T-/---//02	revision	–

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CAD FILE NAME: BEI749_S-BMT---02_.dwg

ROOF LEVEL TO UPPER ROOF LEVEL	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100		M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T10 @ 100/200/100	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100	6TH FLOOR LEVEL TO ROOF LEVEL	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 24-T12 + 10-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @100/250/100 32-T20	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 18-T20 + 8-T12	M40:Fe550 (M):Fe415 (S),COVER = 40MM 14-T12 + 4-T10	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 20-T12 + 8-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 12-T20 + 14-T16	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 32-T20
7TH FLOOR LEVEL TO ROOF LEVEL	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T10 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T10 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100		5TH FLOOR LEVEL TO 6TH FLOOR LEVL	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 24-T12 + 10-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @100/250/100 32-T20	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 18-T20 + 8-T12	M40:Fe550 (M):Fe415 (S),COVER = 40MM 14-T12 + 4-T10	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 20-T12 + 8-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 12-T20 + 14-T16	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 32-T20
6TH FLOOR LEVEL TO 7TH FLOOR LEVEL	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T10 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100		4TH FLOOR LEVEL TO 5TH FLOOR LEVEL	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 24-T12 + 10-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @100/250/100 32-T20	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 18-T20 + 8-T12	M40:Fe550 (M):Fe415 (S),COVER = 40MM 14-T12 + 4-T10	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 20-T12 + 8-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 12-T20 + 14-T16	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 32-T20
5TH FLOOR LEVEL TO 6TH FLOOR LEVEL	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T10 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100		3RD FLOOR LEVEL TO 4TH FLOOR LEVEL	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 24-T12 + 10-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @100/250/100 32-T20	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 18-T20 + 8-T12	M40:Fe550 (M):Fe415 (S),COVER = 40MM 14-T12 + 4-T10	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 20-T12 + 8-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 12-T20 + 14-T16	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 32-T20
4TH FLOOR LEVEL TO 5TH FLOOR LEVEL	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T10 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100		2ND FLOOR LEVEL TO 3RD FLOOR LEVEL	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 24-T12 + 10-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @100/250/100 32-T20	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 18-T20 + 8-T12	M40:Fe550 (M):Fe415 (S),COVER = 40MM 14-T12 + 4-T12	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 20-T12 + 8-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 12-T20 + 14-T16	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 32-T20
3RD FLOOR LEVEL TO 4TH FLOOR LEVEL	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T10 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100		1ST FLOOR LEVEL TO 2ND FLOOR LEVEL	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 24-T12 + 10-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @100/250/100 32-T20	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 18-T20 + 8-T12	M40:Fe550 (M):Fe415 (S),COVER = 40MM 14-T12 + 4-T12	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 20-T12 + 8-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 12-T20 + 14-T16	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 32-T20
2ND FLOOR LEVEL TO 3RD FLOOR LEVEL	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T10 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100		GROUND FLOOR LEVEL TO 1ST FLOOR LEVEL	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 24-T12 + 10-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @100/250/100 32-T20	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 18-T20 + 8-T12	M40:Fe550 (M):Fe415 (S),COVER = 40MM 14-T25 + 4-T12	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 20-T12 + 8-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 12-T20 + 14-T16	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 32-T20
1ST FLOOR LEVEL TO 2ND FLOOR LEVEL	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T10 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100		GROUND FLOOR LEVEL TO 1ST FLOOR LEVEL	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 24-T12 + 10-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @100/250/100 32-T20	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 20-T20 + 8-T16	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 14-T32 + 4-T25	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 (12T16+8T12) + 8-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 12-T20 + 14-T16	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 32-T20
GROUND FLOOR LEVEL TO 1ST FLOOR LEVEL	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 200	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS T10 @ 100/200/100	M40 : Fe500 (M) : Fe415 (S) , COVER = 40MM LINKS T8 @ 100/200/100	BASEMENT FLOOR TO GROUND FLOOR LEVEL	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 24-T12 + 10-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T10 @100/250/100 4-(2#132) + 22-T32	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 20-T20 + 8-T16	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 14-T32 + 4-T25	M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM MAIN LINKS: T8 @ 100 / OTHER LINKS: T8@ 150 (12T16+8T12) + 8-T10	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 12-T20 + 14-T16	M40 : Fe550 (M) : Fe415 (S) , COVER = 40MM LINKS: T8 @ 100/250/100 32-T20
COLUMN MARKED	C1, C2, C9, C10,	FC1,FC2,FC3,FC4 FC5,FC6,FC7,FC8,	C3, C4, C7, C8,	C5, C6	COLUMN MARKED	P1,	P2,	P8,	P12,	P13,	P14,	P15,

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
23 JAN 2025
BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
	ISSUE FOR CONSTRUCTION	MANI	23-01-2025

CONSTRUCTION DRAWING
STRUCTURAL

Client
M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
NO.3,OLD NO.25,
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CENOTAPH ROAD
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Civil & Structural Engineer :
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NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

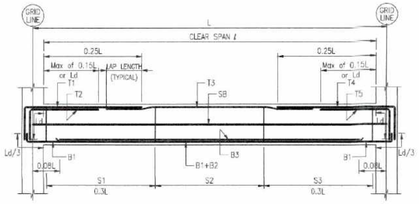
STILT + 7TH FLOOR + ROOF FLOOR

drawing title
SHEAR WALL DETAILS

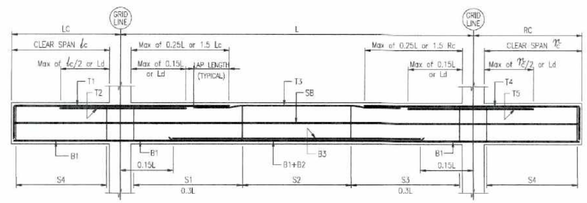
scale	1:100	design by	JOSHI
drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BEI749_S-/SW/DT/--/01	revision	-

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CAD FILE NAME: BEI749_S-SW-DT--01_.dwg



TYPICAL DETAIL OF SINGLE SPAN BEAM (1)



TYPICAL DETAIL OF SINGLE SPAN BEAM WITH CANTILEVERS (2)

LOCATION			SIZE		SPAN			REINFORCEMENT								SIDE BAR	STIRRUPS					REMARKS
								SPAN														
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	T1	T2	T3	T4	T5	B1	B2	B3	SB	S1	S2	S3	S4	TYPE	
1HB9	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
1HB12	1	–	300	600	–	6350	–	3T25	–	3T25	3T32	2T32	3T32	–	2T20	–	T10-100	T10-100	T10-100	–	1a	–
1HB13	1	–	300	600	–	4200	–	3T20	2T16	3T16	3T16	–	3T16	–	–	–	T8-200	T8-200	T8-200	–	1a	–
1HB14	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T20	–	2T16	–	T8-150	T8-200	T8-150	–	1	–
1HB15	1	–	300	600	–	7500	–	3T25	3T25	3T20	3T25	3T25	3T25	–	2T20	–	T10-100	T10-125	T10-100	–	1a	–
1HB16	1	–	300	600	–	3350	–	3T20	2T16	3T20	3T20	–	3T16	–	–	–	T8-200	T8-200	T8-200	–	1a	–
1HB16a	1	–	200	600	–	4350	–	2T16	–	2T16	2T16	–	2T16	–	2T16	–	T8-200	T8-200	T8-200	–	1	–
1VB3	1	–	300	800	–	4200	–	3T20	2T16	3T16	3T20	2T16	3T16	–	–	–	T8-200	T8-200	T8-200	–	1a	–
1VB4	1	–	300	800	–	4100	–	3T25	2T25	3T20	3T25	2T25	3T25+ 2T20	–	–	–	T8-125	T8-125	T8-125	–	1a	–
1VB5	1	–	300	800	–	3950	–	3T20	2T20	3T20	3T20	2T20	3T16	–	–	–	T8-200	T8-200	T8-200	–	1a	–
1VB8	1	–	200	600	–	2400	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
1VB15	1	–	200	800	–	3450	–	2T20	–	2T20	2T25	2T20	2T16	–	–	–	T8-100	T8-175	T8-100	–	1	–
1VB27	1	–	200	600	–	2050	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
1VB28	1	–	200	600	–	2800	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8-200	T8-200	T8-200	–	1	–
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	T4	T5	B1	B2	B3	BAR SIDE	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			REINFORCEMENT									STIRRUPS					

XREF : BEI615_S-XREF#1_.dwg

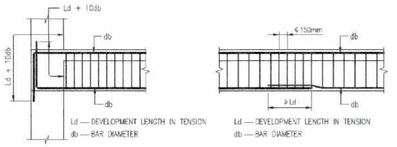
LEGEND

L ——LENGTH OF SPAN UNDER CONSIDERATION
Lc ——LENGTH OF LEFT END CANTILEVER
Rc ——LENGTH OF RIGHT END CANTILEVER
d ——EFFECTIVE DEPTH OF BEAM
db——MINIMUM DIA OF BAR
(1)——CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater

NOTES :

1. FOR GENERAL NOTES REFER TO BEI620_/S-/NT/--/01
2. FOR STANDARD DETAILS REFER TO BEI620_/S-/SD/--/01
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
4. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
5. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL
6. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
7. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
8. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
9. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE
10. NOT MORE THAN 50% BARS (EITHER TOP OR BOTTOM BARS) SHALL BE SPLICED AT ANY ONE SECTION
11. AT LAP ZONE, MAXIMUM SPACING OF THE LINKS SHALL NOT EXCEED 150MM.

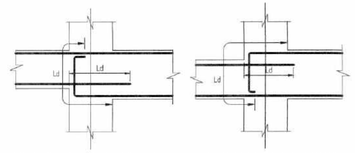


ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN

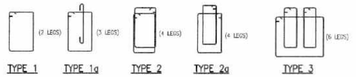
LAP/SPLICE IN BEAM

NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION



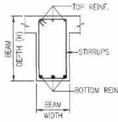
DETAIL OF BEAM COLUMN JUNCTION
(JUNCTION OF BEAMS OF VARYING DEPTH)

DETAIL OF BEAM COLUMN JUNCTION
(JUNCTION OF BEAMS OF VARYING DEPTH)

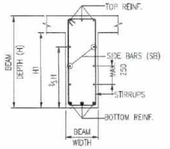


TYPE 1 TYPE 1a TYPE 2 TYPE 2a TYPE 3

TYPE 4 TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a

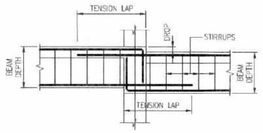


TYP. BEAM SECTION

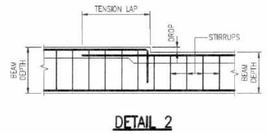


TYP. SIDE BARS DETAIL FOR H1 > 750

STIRRUPS TYPE

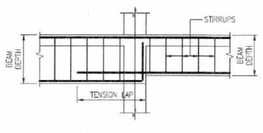


DETAIL 1

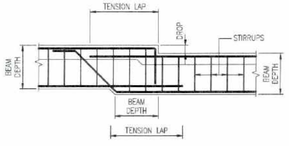


DETAIL 2

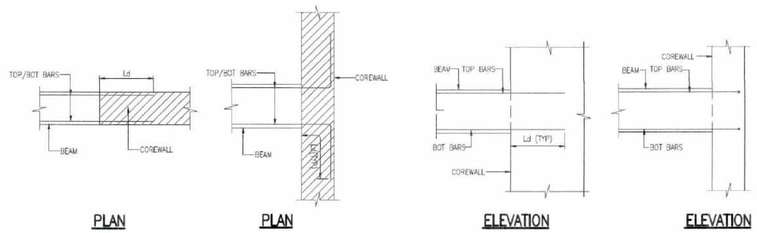
Wherever the drop is less than or equivalent to 50
The reinforcement bars can be bent at 1:10 and continued



DETAIL 3



DETAIL 4



PLAN PLAN ELEVATION ELEVATION

TYPICAL DETAIL AT CORE WALL LOCATION

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
26 DEC 2024
BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
–	ISSUE FOR CONSTRUCTION	MANI	26/12/2024

CONSTRUCTION DRAWING
STRUCTURAL

Client
M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
NO.3,OLD NO.25,
GANAPATHY COLONY,3RD LANE OFF.
CENOTAPH ROAD
CHENNAI 600004

Architect
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18, 3RD SEAWARD RD,
VALMIKI NAGAR,
THIRUVANMIYUR,
CHENNAI 600 041
PH. 044-24572457

Civil & Structural Engineer :
Buro Engineers (I) Private Ltd.,
CIVIL & STRUCTURAL CONSULTANTS
NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

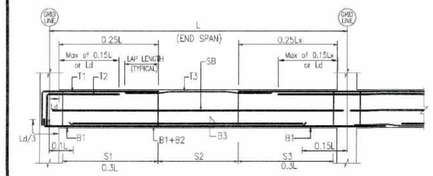
STILT + 7TH FLOOR + ROOF FLOOR

drawing title
FIRST FLOOR BEAM SCHEDULE

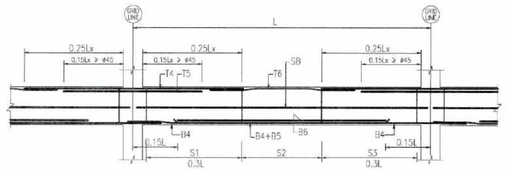
scale	1:100	design by	ROHITH
drawn by	MANI	checked by	S/A
date	DEC 2024	approved by	PJ
drawing no.	BEI749_S-/BM/01-/---//0	revision	–

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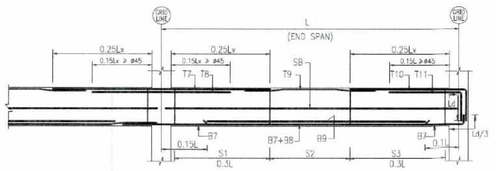
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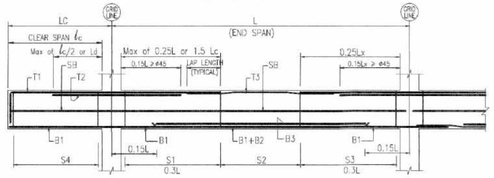
END SPAN BEAM [LHS] (1)



INTERMEDIATE SPAN BEAM (2)



END SPAN BEAM [RHS] (3)



END SPAN BEAM [LHS] WITH CANTILEVER (4)

LEGEND

L —— LENGTH OF SPAN UNDER CONSIDERATION

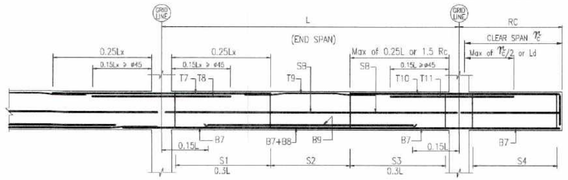
La —— LENGTH OF ADJACENT SPAN TO THE SPAN UNDER CONSIDERATION

Lc —— LENGTH OF LEFT END CANTILEVER

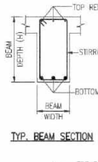
Rc —— LENGTH OF RIGHT END CANTILEVER

(1) —— CATEGORY

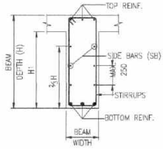
Lx = Length of span under consideration or Length of adjacent span whichever is greater



END SPAN BEAM [RHS] WITH CANTILEVER (5)



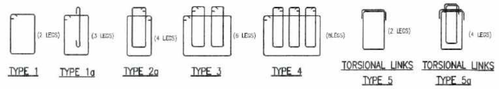
TYP. BEAM SECTION



TYP. SIDE BARS DETAIL FOR H1 > 750

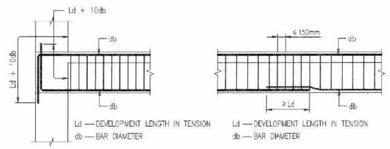
NOTES :-

1. FOR GENERAL NOTES REFER TO BEI620_/S-_/NT/--/01
2. FOR STANDARD DETAILS REFER TO BEI620_/S-/SD/--/01
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
4. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
5. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 800c/c BETWEEN EACH LAYER OF MAIN STEEL.
6. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
7. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
8. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
9. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE.
10. NOT MORE THAN 50% BARS (EITHER TOP OR BOTTOM BARS) SHALL BE SPLICED AT ANY ONE SECTION
11. AT LAP ZONE, MAXIMUM SPACING OF THE LINKS SHALL NOT EXCEED 150MM.



TYPE 1 TYPE 1a TYPE 2a TYPE 3 TYPE 4 TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a

STIRRUPS TYPE

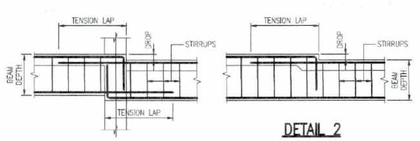


ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

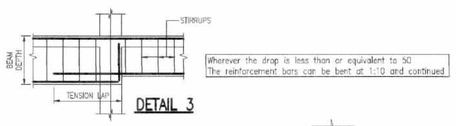
NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN

LAP/SPLICE IN BEAM

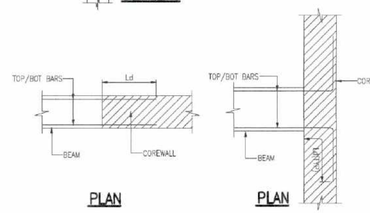
NOTE:
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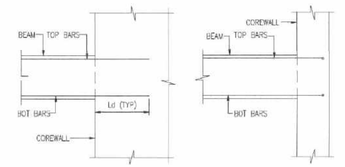
DETAIL 1 DETAIL 2



DETAIL 3



PLAN PLAN



ELEVATION ELEVATION

TYPICAL DETAIL AT CORE WALL LOCATION

LOCATION			SIZE		SPAN			REINFORCEMENT																		SIDE BAR	STIRRUPS					REMARKS
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN													
								T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	
1HB1	1	–	300	800	–	4400	–	3T16	2T16	3T16	3T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1HB2	2	–	300	800	–	4800	–	–	–	–	–	–	–	3T16	2T16	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1HB3	3	–	300	800	–	4500	–	–	–	–	–	–	–	–	–	–	–	–	–	3T16	2T16	3T16	3T16	2T16	3T25	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1HB4	1	–	600	800	–	4400	–	6T16	–	6T16	6T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	2a	–
1HB5	2	–	600	800	–	4800	–	–	–	–	–	–	–	6T16	–	6T16	6T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	2a	–
1HB6	3	–	600	800	–	4500	–	–	–	–	–	–	–	–	–	–	–	–	–	6T16	–	6T16	6T16	–	6T20	–	–	–	T8–200	T8–200	T8–200	–	2a	–
1HB7	1	–	300	800	–	5575	–	3T20	–	3T20	3T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1HB8	3	–	300	800	–	8125	–	–	–	–	–	–	–	–	–	–	–	–	–	3T25	2T25	3T20	3T25	3T25	3T20	–	2T25	–	T10–125	T10–150	T10–125	–	1a	–
1HB10	1	–	200	600	–	2800	–	2T12	–	2T12	2T12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1	–
1HB11	3	–	200	600	–	2950	–	–	–	–	–	–	–	–	–	–	–	–	–	2T12	–	2T12	2T12	–	2T12	–	–	–	T8–200	T8–200	T8–200	–	1	–
1HB17	1	–	300	800	–	5525	–	3T20	–	3T20	3T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1HB18	3	–	300	800	–	7675	–	–	–	–	–	–	–	–	–	–	–	–	–	3T25	2T25	3T20	3T25	3T25	3T20	–	2T20	–	T8–100	T8–125	T8–160	–	1a	–
1HB19	1	–	600	800	–	4400	–	6T16	–	6T16	6T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	2a	–
1HB20	2	–	600	800	–	4800	–	–	–	–	–	–	–	6T16	–	6T16	6T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	2a	–
1HB21	3	–	600	800	–	4500	–	–	–	–	–	–	–	–	–	–	–	–	–	6T16	–	6T16	6T16	–	6T20	–	–	–	T8–200	T8–200	T8–200	–	2a	–
1HB22	1	–	300	800	–	4400	–	3T16	2T16	3T16	3T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1HB23	2	–	300	800	–	4800	–	–	–	–	–	–	–	3T16	2T16	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1HB24	3	–	300	800	–	4500	–	–	–	–	–	–	–	–	–	–	–	–	–	3T16	2T16	3T16	3T16	2T16	3T25	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1VB1	1	–	1000	500	–	10800	–	10T20	2T20	10T16	10T16	–	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	4	–
1VB2	3	–	1000	500	–	10600	–	–	–	–	–	–	–	–	–	–	–	–	–	10T20	2T20	10T16	10T20	2T20	10T16	–	–	–	T8–200	T8–200	T8–200	–	4	–
1VB6	1	–	1000	500	–	10800	–	10T20	2T20	10T16	10T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	4	–
1VB7	3	–	1000	500	–	11000	–	–	–	–	–	–	–	–	–	–	–	–	–	10T20	2T20	10T16	10T20	2T20	10T16	–	–	–	T8–200	T8–200	T8–200	–	4	–
1VB9	1	–	1250	500	–	11050	–	10T25	–	10T25	10T25	–	3T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–150	T8–200	T8–150	–	4	–
1VB10	3	–	1250	500	–	10550	–	–	–	–	–	–	–	–	–	–	–	–	–	10T32	2T32	10T25	10T25	–	10T20	–	2T20	–	T8–200	T8–200	T8–200	–	4	–
1VB11	1	–	1250	500	–	11050	–	10T25	–	10T25	10T20	–	3T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	4	–
1VB12	3	–	1250	500	–	11250	–	–	–	–	–	–	–	–	–	–	–	–	–	10T32	2T32	10T25	10T25	–	10T25	–	2T25	–	T8–175	T8–200	T8–175	–	4	–
1VB13	1	–	200	600	–	4800	–	2T25	2T25	2T20	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T10–125	T10–200	T10–125	–	1	–
1VB14	3	–	200	600	–	1500	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	–	2T20	2T20	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
1VB16	1	–	300	600	–	4450	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1VB17	2	–	300	600	–	5100	–	–	–	–	–	–	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1VB18	1	–	300	600	–	2450	–	–	–	–	–	–	–	3T16	2T16	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
1VB19	3	–	200	600	–	3450	–	–	–	–	–	–	–	–	–	–	–	–	–	3T16/ 2T16	2T16	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	BAR SIDE	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN									STIRRUPS					
								REINFORCEMENT																											

XREF : BEI619_S-XREFA1_.dwg

NO.	AMENDMENTS	BY	DATE
–	ISSUE FOR CONSTRUCTION	MANI	23/01/2025

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BURO ENGINEERS (I) PRIVATE LTD.

CONSTRUCTION DRAWING

STRUCTURAL

Client
M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
NO.3,OLD NO.25,
GANAPATHY COLONY,3RD LANE OFF.
CENOTAPH ROAD
CHENNAI 600004

Architect
M/S.NATARAJ & VENKAT ARCHITECTS
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VALMIKI NAGAR,
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ADAYAR, CHENNAI–600020.
TEL: 42658573 / 74, FAX: 24662755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

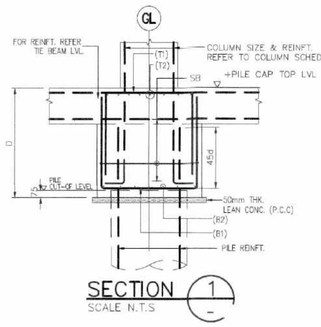
drawing title
FIRST FLOOR BEAM DETAILS

scale	1:100	design by	ROHITH
drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BEI749_S-/BM/01-/--//02		revision –

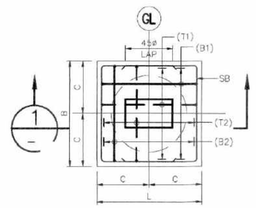
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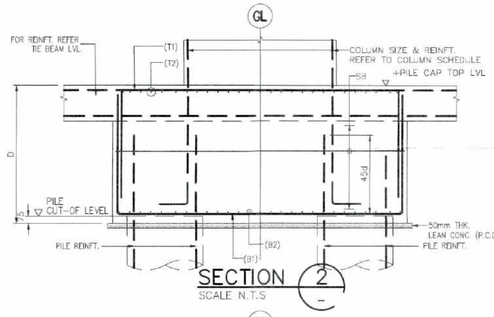
GAITHEESAN, M.E. (Str.)
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No.SE/CRE/1149/3/D/27
31 (OLD No.14), BESANT AVENUE
ADYAR, CHENNAI 600 020.



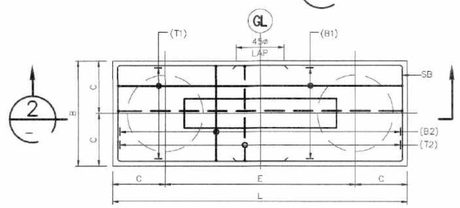
SECTION 1
SCALE N.T.S



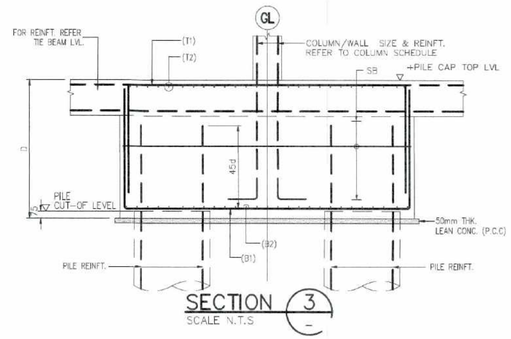
PLAN OF ONE-PILE GROUP



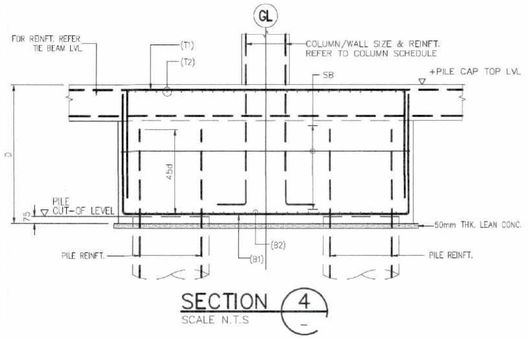
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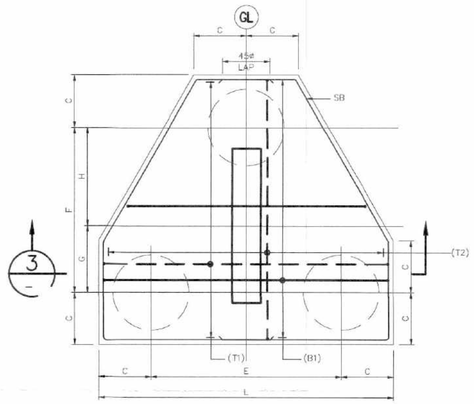
PLAN OF TWO-PILE GROUP



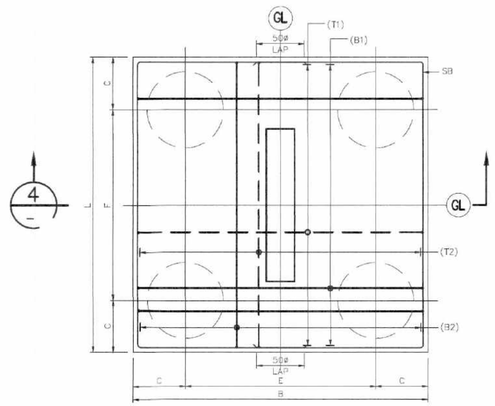
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SCALE N.T.S



SECTION 4
SCALE N.T.S



PLAN OF THREE-PILE GROUP (TYPE-1)



PLAN OF FOUR-PILE GROUP (TYPE-1)

PILE CAP REINFORCEMENT DETAILS FOR ONE, TWO, THREE & FOUR PILE GROUP

TYPE OF PILE	TYPE OF PILE CAP	PILECAP DIMENSIONS									PILECAP REINFORCEMENTS									REMARKS
		L	B	D	C	E	F	G	H	J	BOTTOM REINFORCEMENT						TOP REINFORCEMENT		SIDE BAR	
		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	B1	B2	B3	B4	B1a	B2a	T1	T2	SB	
ONE-PILE GROUP																				
BP1C	PC1C1	900	900	1000	450	–	–	–	–	–	T32-100	T32-100	–	–	–	–	T10-200	T10-200	T10-200	
BP1C1/1	PC1C1	900	900	2300	450	–	–	–	–	–	T32-100	T32-100	–	–	–	–	T10-200	T10-200	T10-200	
BP1C1/2	PC1C1	900	900	1600	450	–	–	–	–	–	T32-100	T32-100	–	–	–	–	T10-200	T10-200	T10-200	
BP1C1/3	PC1C1	900	900	1300	450	–	–	–	–	–	T32-100	T32-100	–	–	–	–	T10-200	T10-200	T10-200	
BP1C	PC1C2	900	900	1000	450	–	–	–	–	–	T16-100	T16-100	–	–	–	–	T10-200	T10-200	T10-200	
BP1B	PC1B	1050	1050	1000	525	–	–	–	–	–	T16-100	T16-100	–	–	–	–	T10-200	T10-200	T10-200	
BP1B	PC1B/1	1050	1050	1400	525	–	–	–	–	–	T16-100	T16-100	–	–	–	–	T10-200	T10-200	T10-200	
BP1B	PC1B/2	1050	1300	1400	525	–	–	–	–	–	T16-100	T16-100	–	–	–	–	T10-200	T10-200	T10-200	
TWO-PILE GROUP																				
BP2A	PC2A	3800	1300	1150	650	2500	–	–	–	–	T25-100	T25-100	–	–	–	–	T10-200	T10-200	T10-200	
THREE-PILE GROUP																				
BP3A	PC3A1	3800	–	1650	650	2500	2165	–	–	–	T32-100	T32-100	–	–	–	–	T10-200	T10-200	T10-150	
BP3A	PC3A2	3800	–	1600	650	2500	2165	–	–	–	T32-100	T32-100	–	–	–	–	T10-200	T10-200	T10-150	
BP3A	PC3A3	3800	–	1600	650	2500	2165	–	–	–	T32-100	T32-100	–	–	–	–	T10-200	T10-200	T10-200	
FOUR-PILE GROUP																				
BP4A	PC4A/1	3800	3800	1850	650	2500	2500	–	–	–	T32-100	T32-100	–	–	–	–	T10-200	T10-200	T10-175	
TYPE OF PILE	TYPE OF PILE CAP	L	B	D	C	E	F	G	H	J	B1	B2	B3	B4	B1a	B2a	T1	T2	SB	REMARKS
		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	BOTTOM REINFORCEMENT						TOP REINFORCEMENT		SIDE BAR	
		PILECAP DIMENSIONS									PILECAP REINFORCEMENTS									

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STILT + 7TH FLOOR + ROOF FLOOR

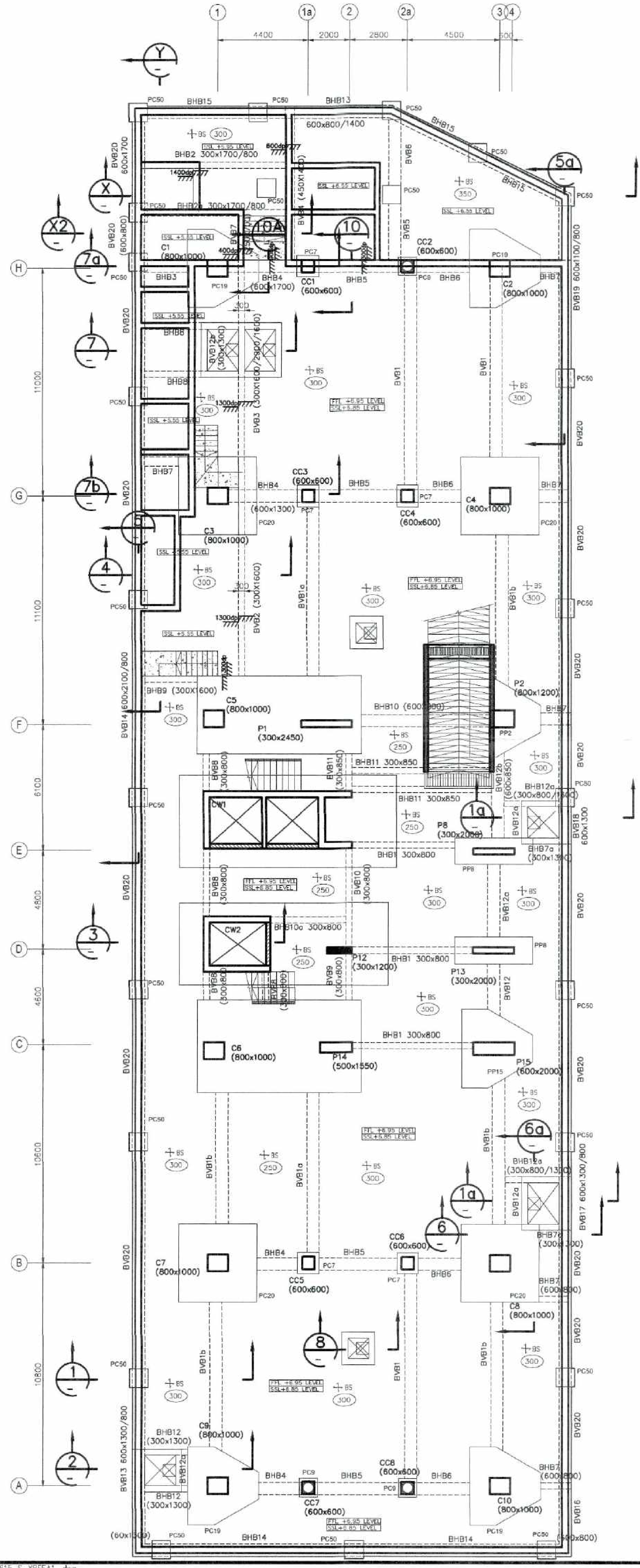
drawing title
PILE CAP DETAILS

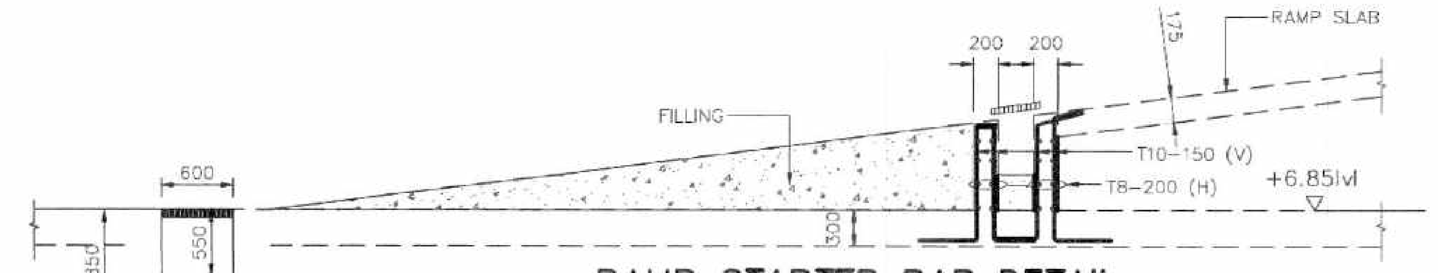
scale	1:125	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BE1749_S-/PL/--/--/03	revision	-

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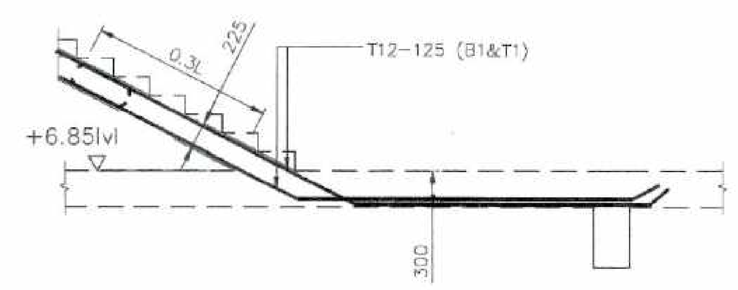
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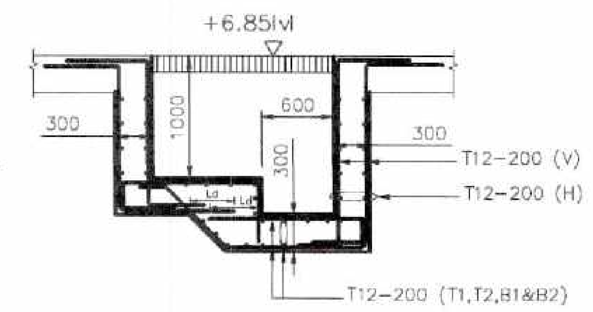




RAMP STARTER BAR DETAIL



TYP. STAIR STARTER BAR DETAIL



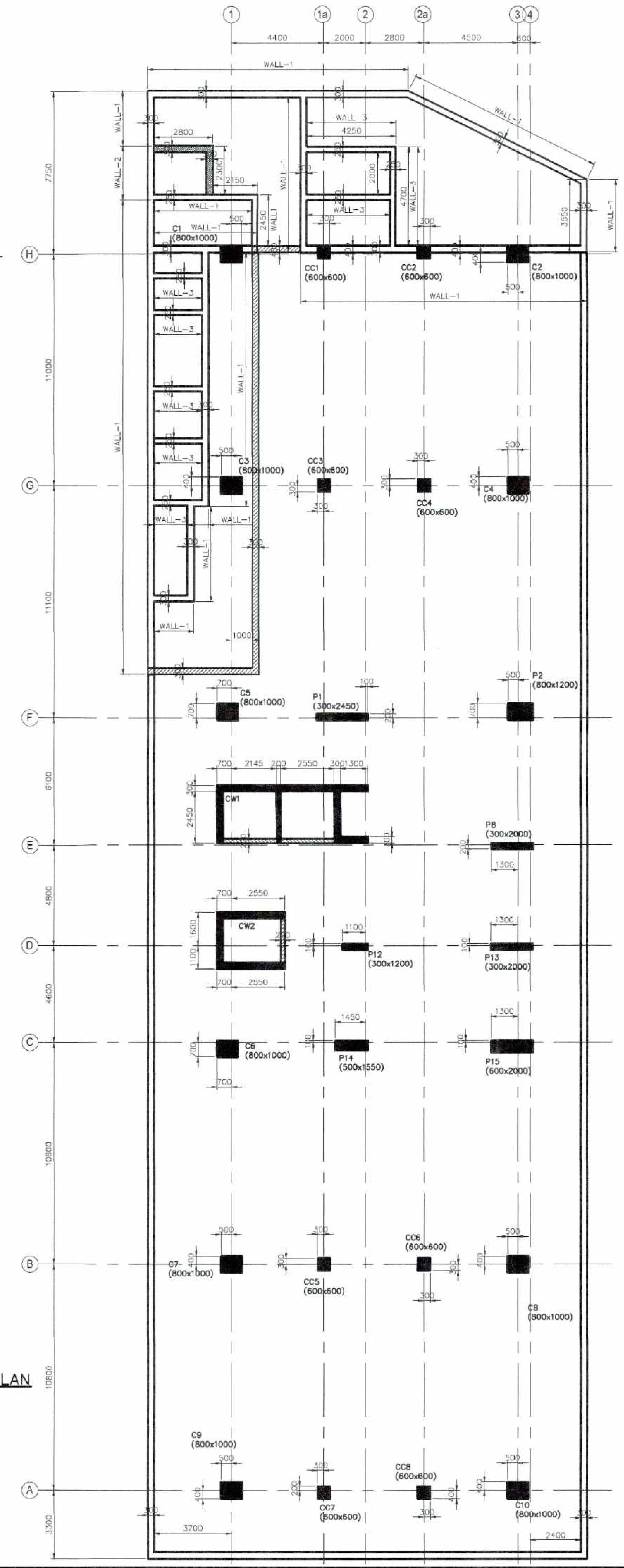
TYP. STORM WATER SUMP SECTION

SECTION 8
SCALE 1:50

BASEMENT LAYOUT PLAN
SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED
1. GRADE OF CONCRETE M30
2. GRADE OF STEEL Fe 550
3. ALL THE BEAMS SIZES ARE TO BE 600X800mm
4. ALL THE RC SLABS ARE TO BE 300mm THICK
5. ALL THE BASEMENT AND WATER TANKS WALLS ARE 300mm THICK.



COLUMN LAYOUT PLAN
SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED
1. GRADE OF CONCRETE M30
2. GRADE OF STEEL Fe 550

* PILECAP LAYOUT PLAN REFER CAD FILE NAME: BEI749_S-PL----02_.dwg
* BASEMENT BEAM DETAILS REFER CAD FILE NAME: BEI749_S-PL----07_.dwg
* BASEMENT SLAB DETAILS REFER CAD FILE NAME: BEI749_S-PL----05_.dwg
* BASEMENT & STP. SUMP WALL SECTION DETAILS REFER CAD FILE NAME: BEI749_S-PL----06_.dwg

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XREF : BEI615_S-XREFA1_.dwg

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project title

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STILT + 7TH FLOOR + ROOF FLOOR

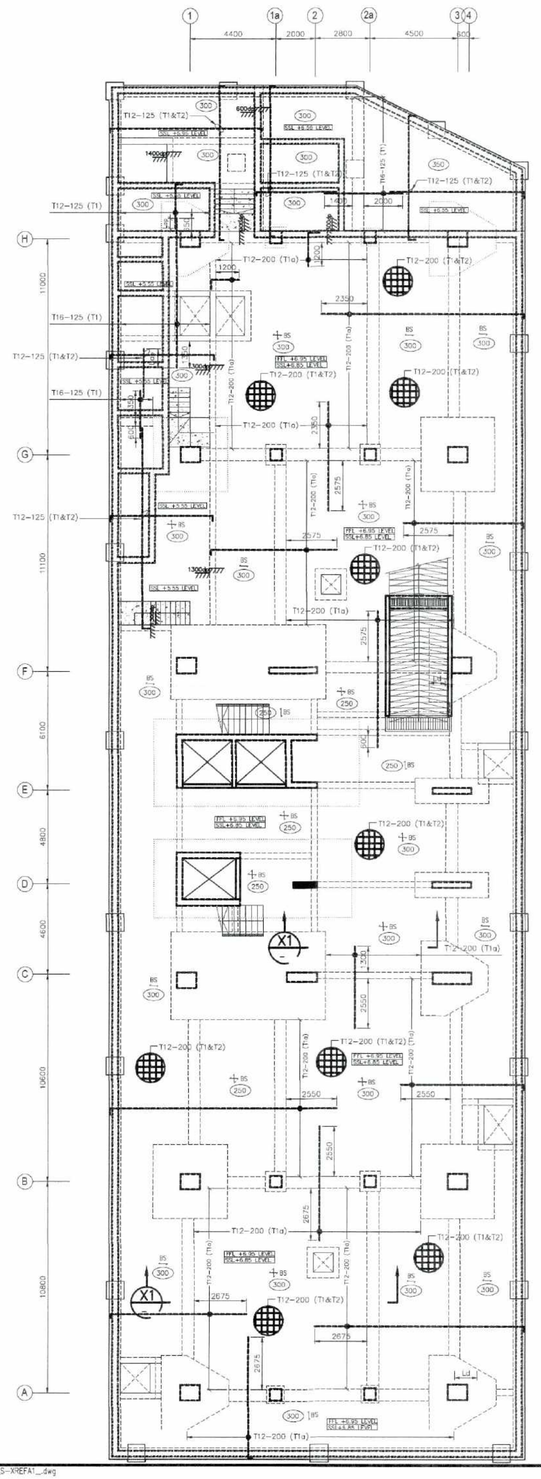
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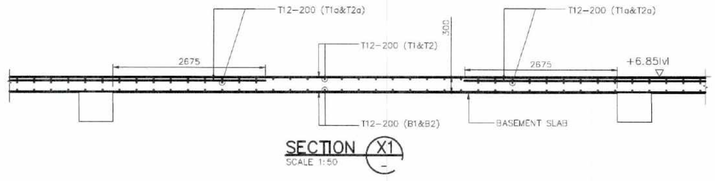
BASEMENT SLAB LAYOUT PLAN &
COLUMN LAYOUT PLAN

scale	1:125	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BEI749_S-/PL/--/--/04	revision	

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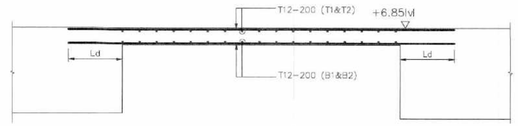
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SECTION X1
SCALE 1:50

FOR ADDITIONAL REINFT. SLAB (TYP.)



PILECAP–SLAB CONNECTION DETAIL (TYP.)

BASEMENT SLAB TOP REINFT. DETAIL
SCALE 1:125

NOTES
UNLESS OTHERWISE SPECIFIED
1. GRADE OF CONCRETE M30
2. GRADE OF STEEL Fe 550
3. ALL THE RC SLABS ARE TO BE 300mm THICK
4. ALL THE BASEMENT AND WATER TANKS WALLS ARE 300mm THICK.

LEGEND:
—— BOTTOM REINFORCEMENT
– – – – TOP REINFORCEMENT

NOTE
1. FOR CLARITY PURPOSE DISTRIBUTION BARS NOT SHOWN. ALL DISTRIBUTION BARS ARE TO BE T12-200 (T2&T2a) UNLESS OTHERWISE INDICATED

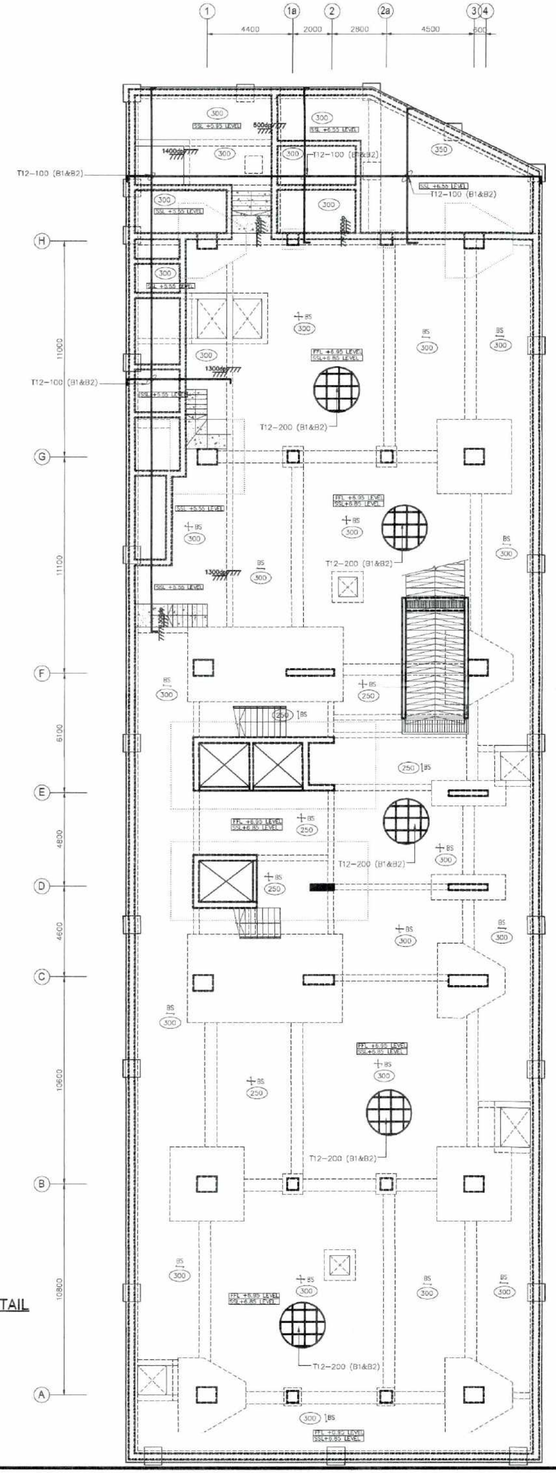
– UNLESS OTHER WISE SPECIFIED SLAB TOP MID T8-200 (T1&T2)

* BASEMENT BEAM DETAILS REFER CAD FILE NAME: BEI749_S-PL----07_dwg
* BASEMENT SLAB DETAILS REFER CAD FILE NAME: BEI749_S-PL----05_dwg
* BASEMENT & STP, SUMP WALL SECTION DETAILS REFER CAD FILE NAME: BEI749_S-PL----06_dwg

* PILECAP LAYOUT PLAN REFER CAD FILE NAME: BEI749_S-PL----02_dwg
* BASEMENT BEAM DETAILS REFER CAD FILE NAME: BEI749_S-PL----07_dwg
* BASEMENT SLAB DETAILS REFER CAD FILE NAME: BEI749_S-PL----05_dwg
* BASEMENT & STP, SUMP WALL SECTION DETAILS REFER CAD FILE NAME: BEI749_S-PL----06_dwg

BASEMENT SLAB BOTTOM REINFT. DETAIL
SCALE 1:125

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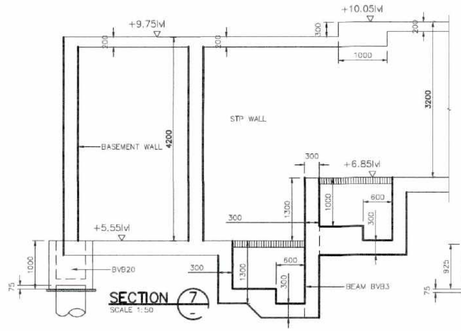
drawing title
BASEMENT SLAB TOP & BOTTOM REINFT.

scale	1:125	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BEI749_S-/PL/--/--/05	revision	-

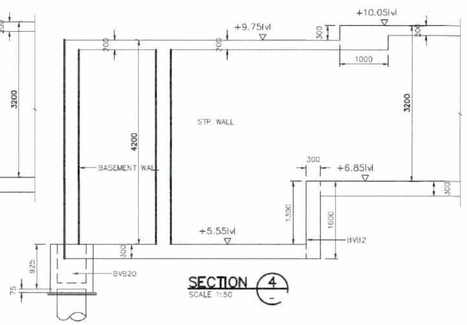
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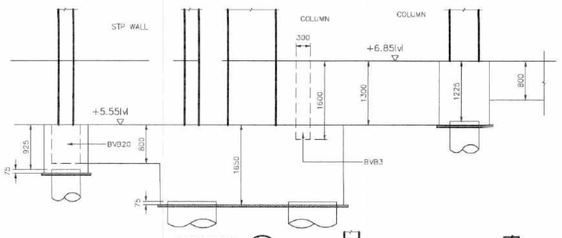
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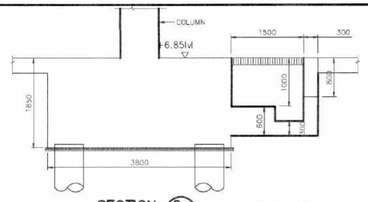
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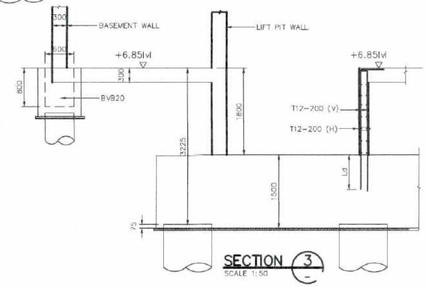
SECTION 4
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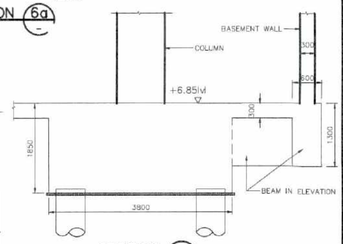
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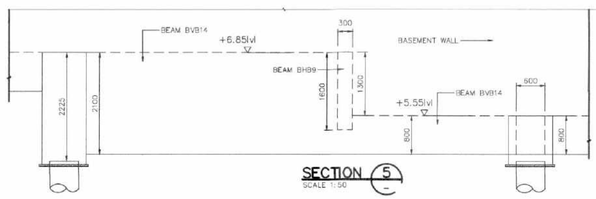
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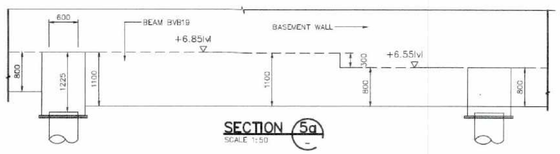
SECTION 3
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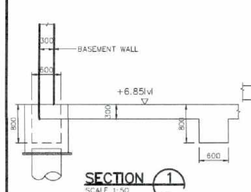
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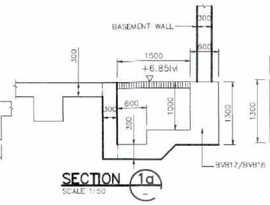
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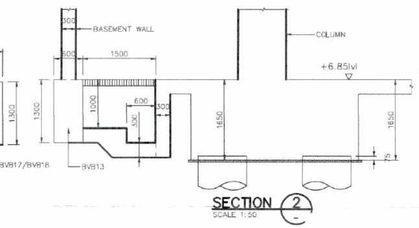
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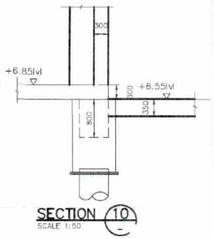
SECTION 1
SCALE 1:50



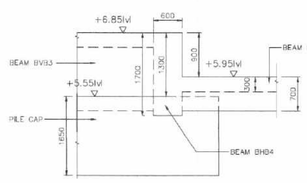
SECTION 1a
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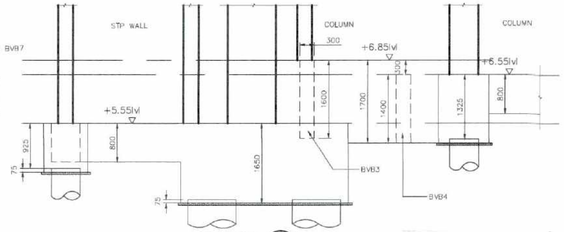
SECTION 2
SCALE 1:50



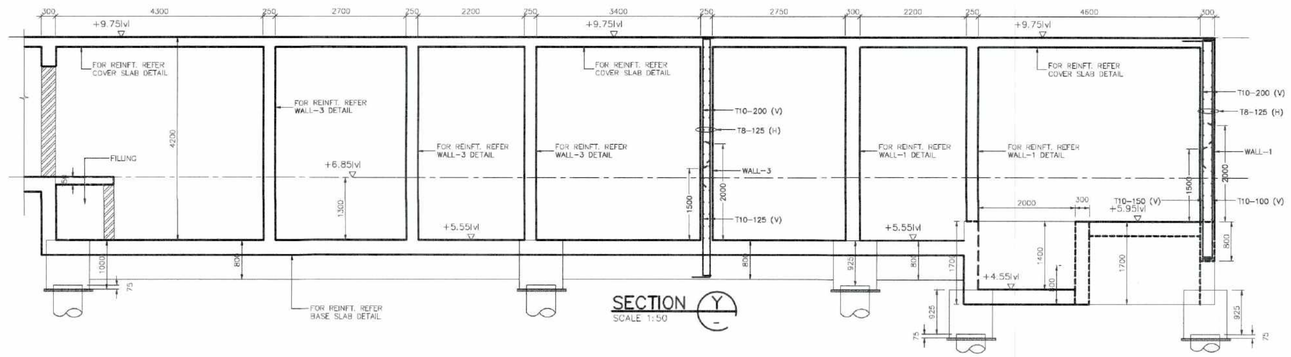
SECTION 10
SCALE 1:50



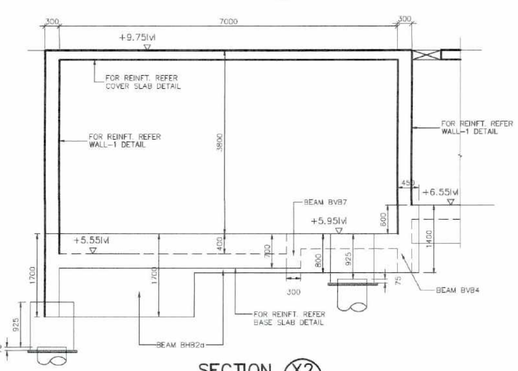
SECTION 10A
SCALE 1:50



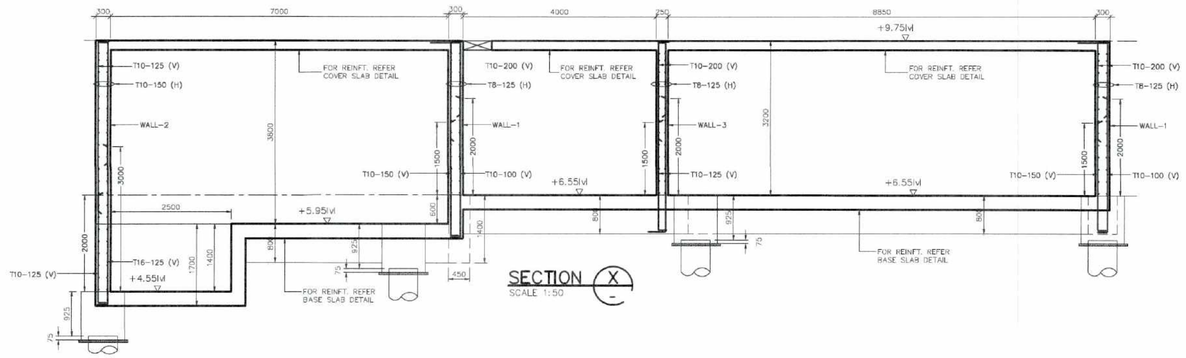
SECTION 7a
SCALE 1:50



SECTION Y
SCALE 1:50



SECTION X2
SCALE 1:50



SECTION X
SCALE 1:50

* PILECAP LAYOUT PLAN REFER CAD FILE NAME: BEI749_S-PL-----02_.dwg
* BASEMENT BEAM DETAILS REFER CAD FILE NAME: BEI749_S-PL-----07_.dwg
* BASEMENT SLAB DETAILS REFER CAD FILE NAME: BEI749_S-PL-----05_.dwg
* BASEMENT & STP, SUMP WALL SECTION DETAILS REFER CAD FILE NAME: BEI749_S-PL-----06_.dwg

XREF : BEI615_S-XREFA1_.dwg

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
23 JAN 2025
BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
-	ISSUE FOR CONSTRUCTION	SUNA	23/01/2025

CONSTRUCTION DRAWING
STRUCTURAL

Client
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NO.3,OLD NO.25,
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Civil & Structural Engineer :
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NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

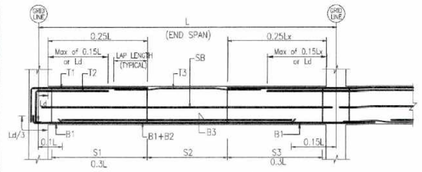
STILT + 7TH FLOOR + ROOF FLOOR

drawing title
PILE LAYOUT PLAN SECTIONS

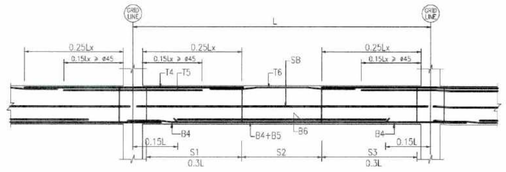
scale	1:125	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BEI749_S-/PL/--/--/06		revision

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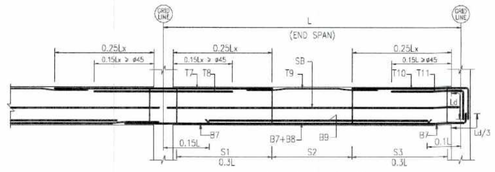
CAD FILE NAME: BEI749_S-PL-----06_.dwg



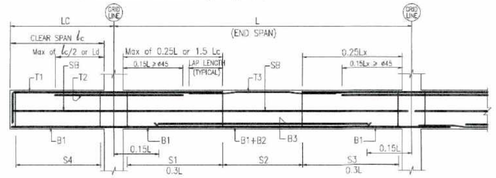
END SPAN BEAM [LHS] (1)



INTERMEDIATE SPAN BEAM (2)



END SPAN BEAM [RHS] (3)

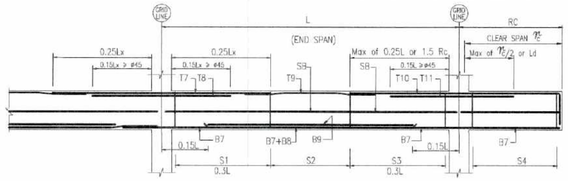


END SPAN BEAM [LHS] WITH CANTILEVER (4)

LEGEND

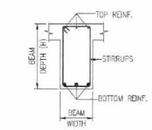
L —— LENGTH OF SPAN UNDER CONSIDERATION
La —— LENGTH OF ADJACENT SPAN TO THE SPAN UNDER CONSIDERATION
Lc —— LENGTH OF LEFT END CANTILEVER
Rc —— LENGTH OF RIGHT END CANTILEVER
(1) —— CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater



END SPAN BEAM [RHS] WITH CANTILEVER (5)

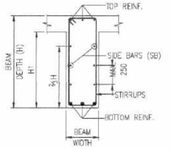
LOCATION			SIZE		SPAN			REINFORCEMENT																		SIDE BAR	STIRRUPS					REMARKS
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN													
								T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	
GHB1	1	–	300	800	–	4400	–	3T16	2T16	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–125	T8–200	T8–125	–	1a	–
GHB2	2	–	300	800	–	4800	–	–	–	–	–	–	–	3T20	2T20	3T16	3T16	–	2T16	–	–	–	–	–	–	–	–	–	T16–125	T16–200	T16–125	–	1a	–
GHB3	3	–	300	800	–	4500	–	–	–	–	–	–	–	–	–	–	–	–	–	3T20	2T20	3T16	3T16	2T16	3T16	–	–	–	T10–125	T10–200	T10–125	–	1a	–
GHB10	1	–	200	600	–	2800	–	2T16	–	2T16	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1	–
GHB11	3	–	200	600	–	2950	–	–	–	–	–	–	–	–	–	–	–	–	–	2T16	–	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
GHB18	1	–	200	600	–	3450	–	2T16	–	2T16	2T16	–	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1	–
GHB19	3	–	200	600	–	4450	–	–	–	–	–	–	–	–	–	–	–	–	–	2T16	–	2T16	2T16	–	2T16	–	2T16	–	T8–200	T8–200	T8–200	–	1	–
GHB20	1	–	300	800	–	5950	–	3T20	–	3T20	3T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
GHB21	3	–	300	800	–	7650	–	–	–	–	–	–	–	–	–	–	–	–	–	3T25	2T20	3T20	3T25	2T25	3T25	–	2T20	–	T8–100	T8–100	T8–100	–	1a	–
GVB1	1	–	1000	500	–	10800	–	10T25	5T25	10T20	10T20	–	5T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–125	T8–200	T8–125	–	4	–
GVB2	3	–	1000	500	–	10300	–	–	–	–	–	–	–	–	–	–	–	–	–	10T25	5T25	10T20	10T25	4T25	10T20	–	4T20	–	T8–125	T8–200	T8–125	–	4	–
GVB6	1	–	1000	500	–	10800	–	10T32	3T25	10T25	10T25	–	3T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T10–125	T10–200	T10–125	–	4	–
GVB7	3	–	1000	500	–	11000	–	–	–	–	–	–	–	–	–	–	–	–	–	10T32	2T32	10T25	10T32	2T25	10T25	–	3T25	–	T10–125	T10–200	T10–125	–	4	–
GVB10	1	–	1250	500	–	11050	–	10T20	–	10T20	10T20	–	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	4	–
GVB11	3	–	1250	500	–	10550	–	–	–	–	–	–	–	–	–	–	–	–	–	10T25	2T25	10T20	10T20	–	10T16	–	3T16	–	T8–200	T8–200	T8–200	–	4	–
GVB12	1	–	1250	500	–	11050	–	10T20	–	10T20	10T16	–	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	4	–
GVB13	3	–	1250	500	–	11000	–	–	–	–	–	–	–	–	–	–	–	–	–	10T25	2T20	10T20	10T20	–	10T20	–	2T20	–	T8–200	T8–200	T8–200	–	4	–
GVB14	1	–	200	600	–	4600	–	2T25	2T20	2T20	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T10–150	T10–200	T10–150	–	1	–
GVB15	3	–	200	600	–	1500	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	–	2T20	2T20	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
GVB17	1	–	300	600	–	4800	–	3T16		3T16	3T16	–	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
GVB18	2	–	300	600	–	5100	–	–	–	–	–	–	–	3T16	–	3T16	3T16	–	2T16	–	–	–	–	–	–	–	–	–	T10–125	T10–200	T10–125	–	1a	–
GVB19	2	–	300	600	–	2450	–	–	–	–	–	–	–	3T16	–	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
GVB20	3	–	200	600	–	3450	–	–	–	–	–	–	–	–	–	–	–	–	–	3T16/ 2T16	–	2T16	2T16	–	2T16	–	–	–	T8–200	T8–200	T8–200	–	1	–
GVB24	1	–	200	600	–	4800	–	2T20	–	2T20	2T20	–	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–100	T8–125	T8–100	–	1	–
GVB25	3	–	200	600	–	6200	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T16	2T20	2T20	–	2T25	–	2T16	–	T8–100	T8–125	T8–100	–	1	–
GVB29	1	–	300	800	–	4750	–	3T20	2T16	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–150	T8–200	T8–150	–	1a	–
GVB30	2	–	300	800	–	4800	–	–	–	–	–	–	–	3T16	2T16	3T16	3T16	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	1a	–
GVB31	3	–	300	800	–	6450	–	–	–	–	–	–	–	–	–	–	–	–	–	3T16	2T16	3T16	3T20	2T16	3T16	–	–	–	T8–175	T8–200	T8–175	–	1a	–
GVB32	1	–	1000	500	–	10800	–	10T25	5T25	10T20	10T20	–	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	T8–200	T8–200	T8–200	–	4	–
GVB33	3	–	1000	500	–	11000	–	–	–	–	–	–	–	–	–	–	–	–	–	10T25	3T20	10T20	10T25	2T20	10T20	–	2T20	–	T8–200	T8–200	T8–200	–	4	–
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN								BAR SIDE	STIRRUPS					
								REINFORCEMENT																										



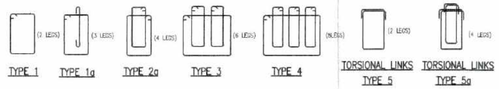
TYP. BEAM SECTION

NOTES:

1. FOR GENERAL NOTES REFER TO BE8320_/S-/NT/--/01
2. FOR STANDARD DETAILS REFER TO BE8320_/S-/SD/--/01
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
4. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
5. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 800c/c BETWEEN EACH LAYER OF MAIN STEEL.
6. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
7. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
8. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS.
9. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE
10. NOT MORE THAN 50% BARS (EITHER TOP OR BOTTOM BARS) SHALL BE SPLICED AT ANY ONE SECTION
11. AT LAP ZONE, MAXIMUM SPACING OF THE LINKS SHALL NOT EXCEED 150MM.

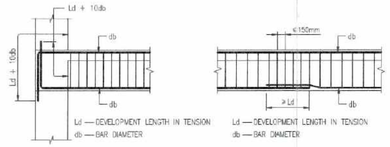


TYP. SIDE BARS DETAIL FOR H1 > 750



TYPE 1 TYPE 1a TYPE 2a TYPE 3 TYPE 4 TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a

STIRRUPS TYPE

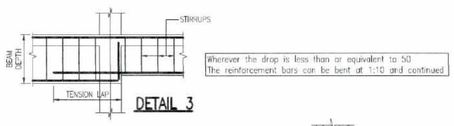


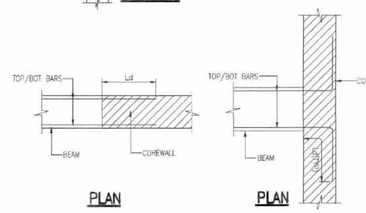
ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

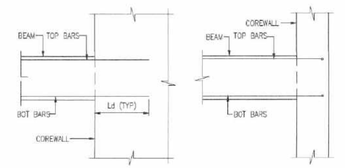
NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN.

LAP/SPLICE IN BEAM

NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION







TYPICAL DETAIL AT CORE WALL LOCATION

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE
26 DEC 2024
BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
–	ISSUE FOR CONSTRUCTION	MANI	26/12/2024

CONSTRUCTION DRAWING
STRUCTURAL

Client
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TEL: 42658573 / 74, FAX: 24682755

project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

drawing title
GROUND FLOOR BEAM DETAILS

scale	1:100	design by	ROHITH
drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BE1749_S–/BM/G–/––//03	revision	–

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CAD FILE NAME: BE1749_S–BMG–––03_.dwg

XREF : BE1615_S–XREFA1_.dwg

M40 : Fc550 (MAIN) : Fe415 (SHEAR) , COVER = 30MM

1ST FLOOR LEVEL

TO

3RD FLOOR LEVEL

P7

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P6

MAIN LINKS	OTHER LINKS
T10-100	T8-150

P5

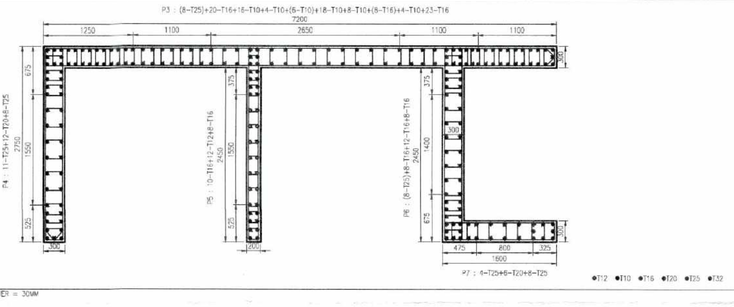
MAIN LINKS	OTHER LINKS
T8-100	T8-150

P4

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P3

MAIN LINKS	OTHER LINKS
T12-100	T8-150



M40 : Fc550 (MAIN) : Fe415 (SHEAR) , COVER = 30MM

5TH FLOOR LEVEL

TO

6TH FLOOR LEVEL

P7

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P6

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P5

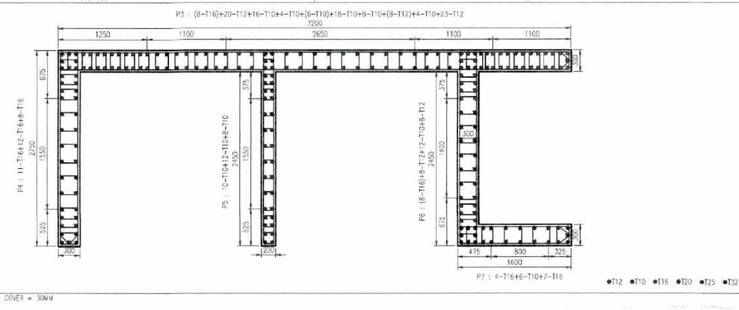
MAIN LINKS	OTHER LINKS
T8-100	T8-150

P4

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P3

MAIN LINKS	OTHER LINKS
T10-100	T8-150



M40 : Fc550 (MAIN) : Fe415 (SHEAR) , COVER = 30MM

BASEMENT FLOOR

TO

1ST FLOOR LEVEL

P7 : 4-T20+6-T16+7-T20

P7

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P6

MAIN LINKS	OTHER LINKS
T12-100	T8-150

P5

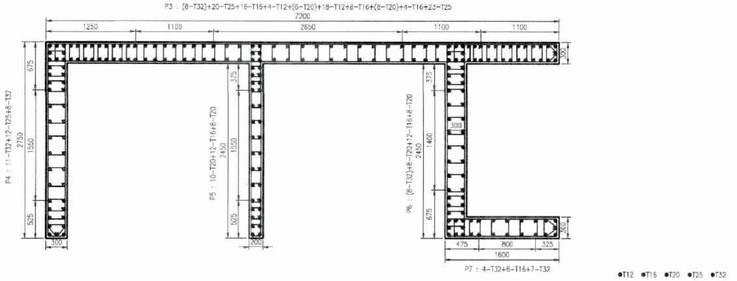
MAIN LINKS	OTHER LINKS
T8-100	T8-150

P4

MAIN LINKS	OTHER LINKS
T10-100	T8-150

P3

MAIN LINKS	OTHER LINKS
T12-100	T8-150



COLUMN MARKED

CW1.

M40 : Fc550 (MAN) : Fe415 (SHEAR) , COVER = 30MM

3RD FLOOR LEVEL

TO

5TH FLOOR LEVEL

P7

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P6

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P5

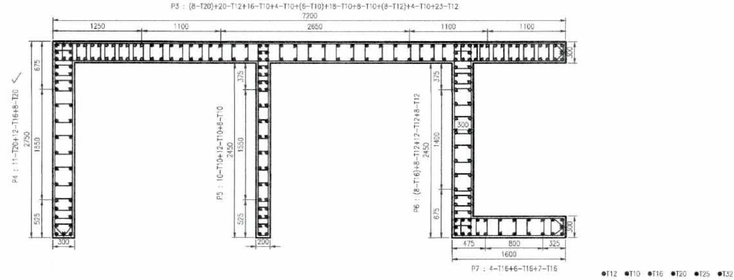
MAIN LINKS	OTHER LINKS
T8-100	T8-150

P4

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P3

MAIN LINKS	OTHER LINKS
T12-100	T8-150



COLUMN MARKED

CW1.

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE

23 JAN 2025

BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
	ISSUE FOR CONSTRUCTION	MANI	23-01-2025

CONSTRUCTION DRAWING

STRUCTURAL

Client

M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
NO.3,OLD NO.25,
GANAPATHY COLONY,3RD LANE OFF.
CENOTAPH ROAD
CHENNAI 600004

Architect

M/S.NATARAJ & VENKAT ARCHITECTS
18, 3RD SEAWARD RD,
VALMIKI NAGAR,
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CHENNAI 600 041
PH. 044-24572457

Civil & Structural Engineer :

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NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title

PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

drawing title

CORE WALL DETAILS

scale	1:100	design by	JOSHI
drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BE1749_S-/CW/DT/--/01	revision	--

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CAD FILE NAME: BE1749_S-CW-DT---01_.dwg

GNANATHEESAN, M.E., (Struct.)
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No.SE/STR/81/99/027
31 (OLD No.14), BESANT AVENUE ROAD,
ADAYAR, CHENNAI - 600 020.

7TH FLOOR LEVEL

TO

ROOF LEVEL

M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 30MM

P7

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P6

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P5

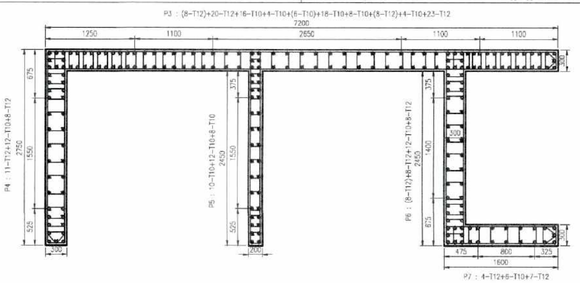
MAIN LINKS	OTHER LINKS
T8-100	T8-150

P4

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P3

MAIN LINKS	OTHER LINKS
T10-100	T8-150



●T12 ●T10 ●T16 ●T20 ●T25 ●T32

1ST FLOOR LEVEL

TO

2ND FLOOR LEVEL

M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM

P9

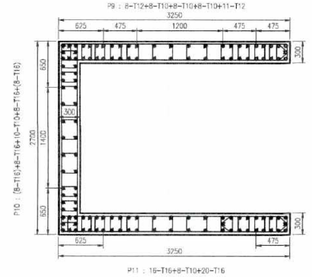
MAIN LINKS	OTHER LINKS
T8-100	T8-150

P10

MAIN LINKS	OTHER LINKS
T12-100	T8-150

P11

MAIN LINKS	OTHER LINKS
T8-100	T8-150



●T12 ●T10 ●T16 ●T12 ●T16

3RD FLOOR LEVEL

TO

ROOF LEVEL

M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM

P9

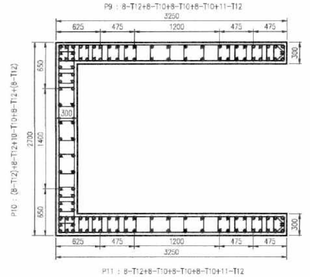
MAIN LINKS	OTHER LINKS
T8-100	T8-150

P10

MAIN LINKS	OTHER LINKS
T10-100	T8-150

P11

MAIN LINKS	OTHER LINKS
T8-100	T8-150



●T10 ●T12

6TH FLOOR LEVEL

TO

7TH FLOOR LEVEL

M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 30MM

P7

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P6

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P5

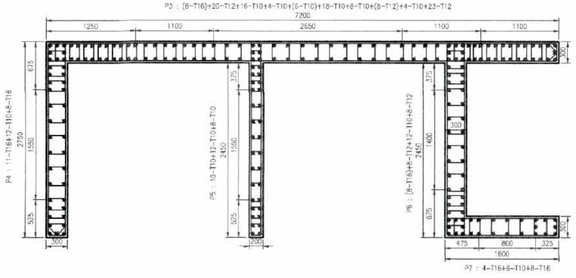
MAIN LINKS	OTHER LINKS
T8-100	T8-150

P4

MAIN LINKS	OTHER LINKS
T8-100	T8-150

P3

MAIN LINKS	OTHER LINKS
T10-100	T8-150



●T12 ●T10 ●T16 ●T20 ●T25 ●T32

BASEMENT FLOOR

TO

1ST FLOOR

M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM

P9

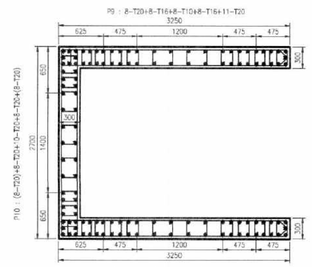
MAIN LINKS	OTHER LINKS
T8-100	T8-150

P10

MAIN LINKS	OTHER LINKS
T12-100	T8-150

P11

MAIN LINKS	OTHER LINKS
T8-100	T8-150



●T12 ●T10 ●T16 ●T20

2ND FLOOR LEVEL

TO

3RD FLOOR LEVEL

M40 : Fe550 (MAIN) : Fe415 (SHEAR) , COVER = 40MM

P9

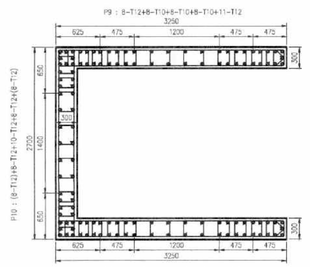
MAIN LINKS	OTHER LINKS
T8-100	T8-150

P10

MAIN LINKS	OTHER LINKS
T12-100	T8-150

P11

MAIN LINKS	OTHER LINKS
T8-100	T8-150



●T10 ●T12

COLUMN MARKED

DW1.

COLUMN MARKED

DW2.

COLUMN MARKED

DW2.

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE

23 JAN 2025

BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
	ISSUE FOR CONSTRUCTION	MANI	23-01-2025

CONSTRUCTION DRAWING

STRUCTURAL

Client

M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
NO.3,OLD NO.25,
CANAPATHY COLONY,3RD LANE OFF.
CENOTAPH ROAD
CHENNAI 600004

Architect

M/S.NATARAJ & VENKAT ARCHITECTS
18, 3RD SEAWARD RD,
VALMIKI NAGAR,
THIRUVANMIYUR,
CHENNAI 600 041
PH. 044-24572457

Civil & Structural Engineer :

Buro Engineers (I) Private Ltd.,
CIVIL & STRUCTURAL CONSULTANTS
NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24462755

project title

PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

drawing title

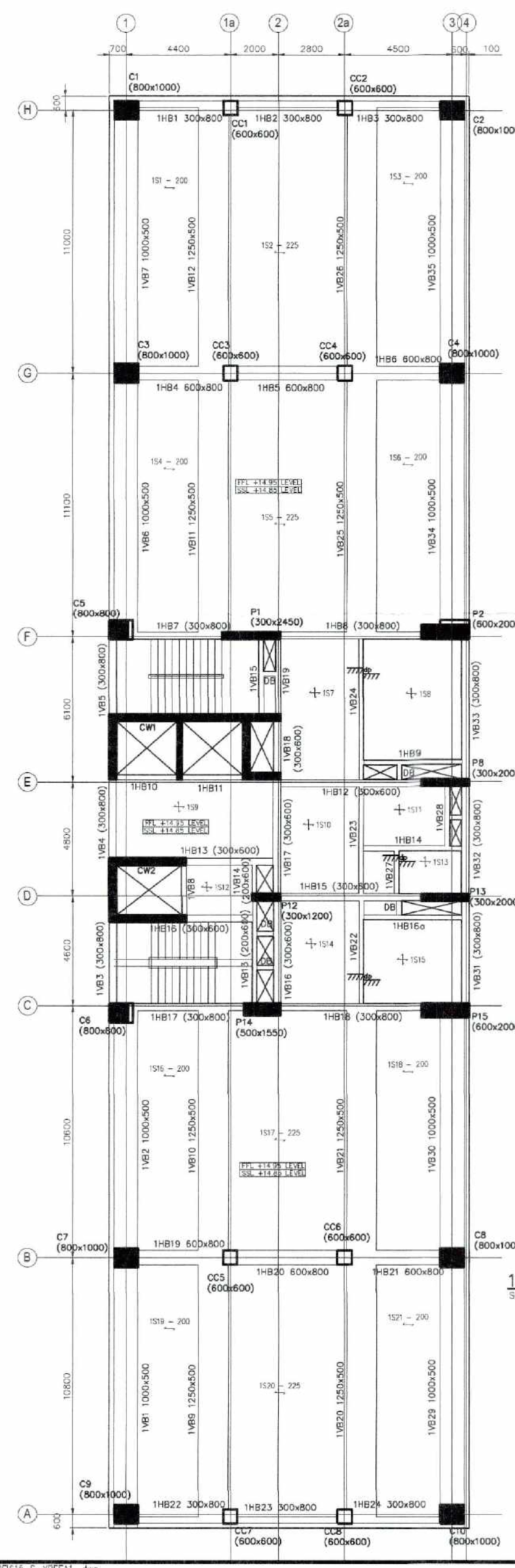
CORE WALL DETAILS

scale	1:100	design by	PJ
drawn by	MANI	checked by	SIVA
date	DEC 2024	approved by	PJ
drawing no.	BEI749_S-/CW/DT/--/02	revision	--

P. JEGATHEESAN, M.E., (Struct.)
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No.SE/CR/1193/2021
(OLD No.14), BESANT AVENUE,
ADYAR, CHENNAI - 600 020.

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CAD FILE NAME: BEI749_S-CW-DT---02_dwg



1st FLOOR FRAMING PLAN

SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED

1. GRADE OF CONCRETE
   a. COLUMNS AND RC WALL– M40
   b. ALL OTHER ELEMENTS – M35
2. GRADE OF STEEL Fe 550
3. ALL THE BEAMS SIZES ARE TO BE (200x600)
4. ALL THE PT SLABS SIZES ARE TO BE REFER PLAN
5. ALL THE1SS ARE TO BE 150mm THICK
6. ALL THE COLUMNS SIZES ARE TO BE REFER PLAN

NOTES

FOR CLARITY PURPOSE DISTRIBUTION BARS NOT SHOWN. THE DISTRIBUTION BARS ARE TO BE T8–200 (T2&B2) UNLESS OTHERWISE INDICATED

LEGEND:

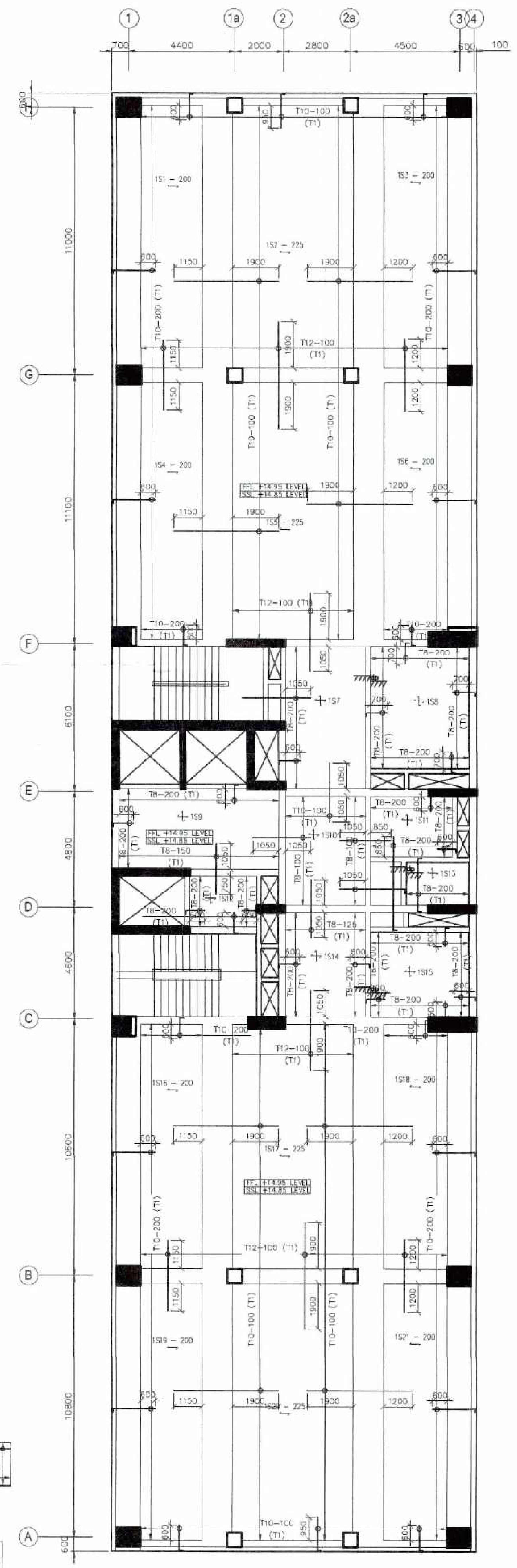
TOP REINFORCEMENT

BOTTOM REINFORCEMENT

BAR LAYING SEQUENCE (T1) (T2) (B1) (B2)

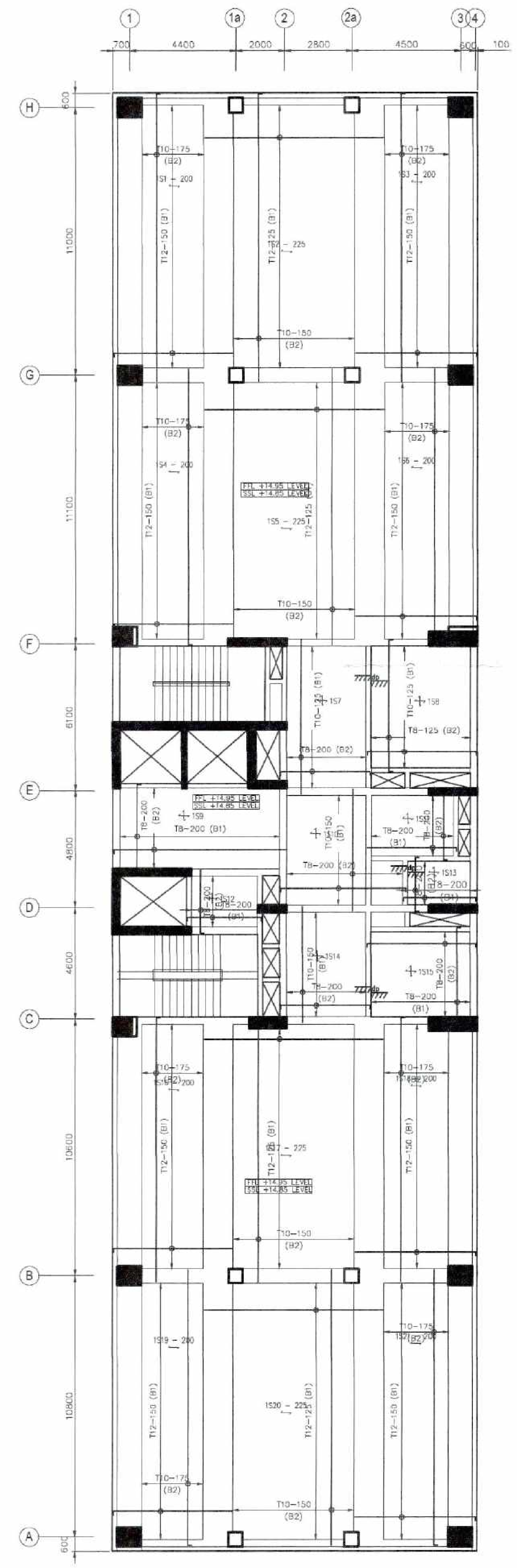
ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

XREF : BEI615_S–XREFA1_.dwg



1st FLOOR SLAB DETAIL (TOP REINFT.)

SCALE 1:125



1st FLOOR SLAB DETAIL (BOTTOM REINFT.)

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

DATE OF ISSUE

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BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
–	ISSUE FOR CONSTRUCTION	GUNA	23–01–2025

CONSTRUCTION DRAWING

STRUCTURAL

Client

M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
NO.3,OLD NO.25,
GANAPATHY COLONY,3RD LANE OFF.
CENOTAPH ROAD
CHENNAI 600004

Architect

M/S.NATARAJ & VENKAT ARCHITECTS
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VALMIKI NAGAR,
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TEL: 42658573 / 74, FAX: 24662755

project title

PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

drawing title

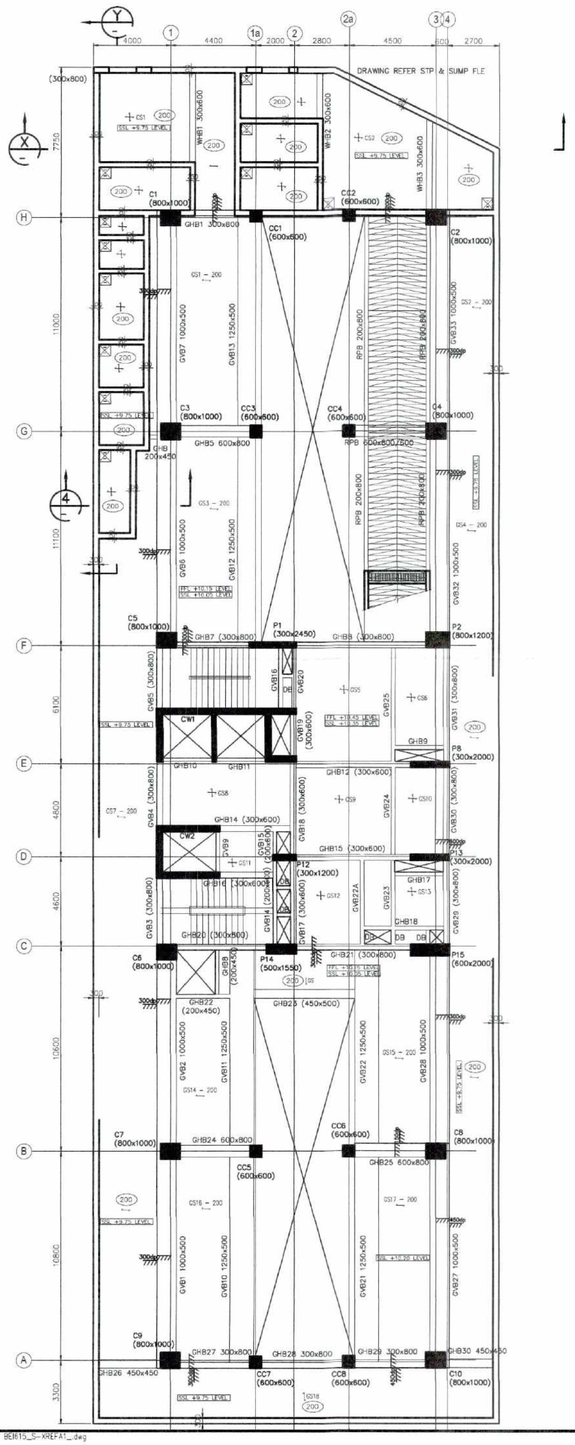
1st FLOOR FRAMING PLAN & SLAB DETAIL
TOP & BOTTOM REINFT.

scale	1:100	design by	ROHIT
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BEI749_S–/FP/01/––//01	revision	–

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CAD FILE NAME: BEI749_S–FP01––01_.dwg

JEGATHEESAN, M.E. (Struc)
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No.SE/GR-I/19/03/027
No.31 (OLD No.14), BESANT AVENUE
ADYAR, CHENNAI - 600 020



NOTES

UNLESS OTHERWISE SPECIFIED

1. GRADE OF CONCRETE
   a. COLUMNS AND RC WALL– M40
   b. ALL OTHER ELEMENTS – M35
2. GRADE OF STEEL Fe 550
3. ALL THE BEAMS SIZES ARE TO BE (300x600)
4. ALL THE PT SLABS SIZES ARE TO BE REFER PLAN
5. ALL THE RC SLABS ARE TO BE 150mm THICK
6. ALL THE COLUMNS SIZES ARE TO BE REFER PLAN
7. ALL STP,SUMP COVER SLAB SIZES ARE TO BE 200mm THICK.

* PILECAP LAYOUT PLAN REFER CAD FILE NAME: BE1749_S-PL----02_.dwg
* BASEMENT BEAM DETAILS REFER CAD FILE NAME: BE1749_S-PL----07_.dwg
* BASEMENT SLAB DETAILS REFER CAD FILE NAME: BE1749_S-PL----05_.dwg
* BASEMENT & STP, SUMP WALL SECTION DETAILS REFER CAD FILE NAME: BE1749_S-PL----06_.dwg

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CONSTRUCTION DRAWING
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project title
PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

drawing title
GROUND FLOOR FRAMING PLAN

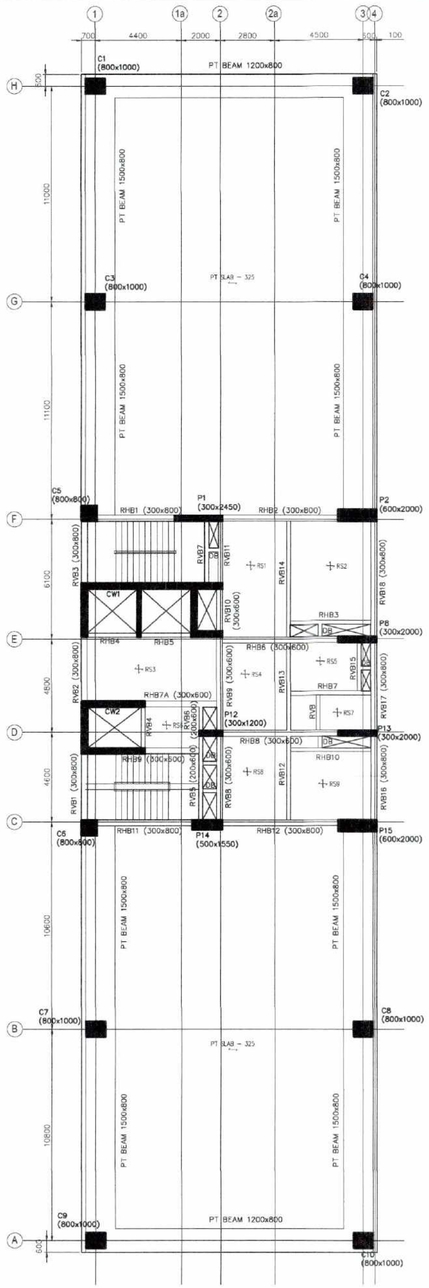
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drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BE1749_S-/FP/G-/--//01		revision

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DEGATHEESAN, M.E., (Str.)
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No.BE/GR-ATH/MDDT/
No.31 (OLD No.14), BESANT AVENUE
ADYAR, CHENNAI - 600 020.

XREF : BE1615_S-XREFAT_.dwg

CAD FILE NAME: BE1749_S-FPG----01_.dwg



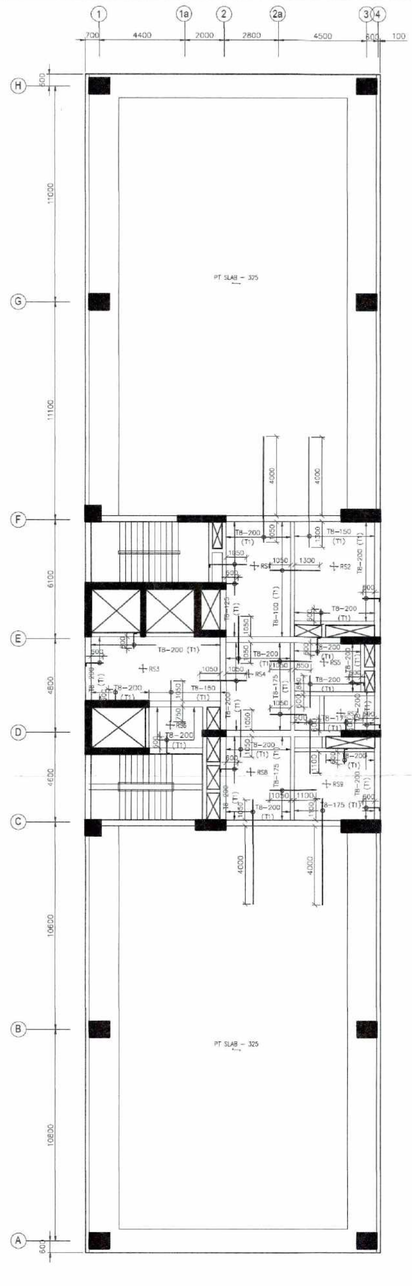
ROOF FLOOR FRAMING PLAN

SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED

1. GRADE OF CONCRETE
   a. COLUMNS AND RC WALL– M40
   b. ALL OTHER ELEMENRS – M35
2. GRADE OF STEEL Fe 550
3. ALL THE BEAMS SIZES ARE TO BE (200x600)
4. ALL THE PT SLABS SIZES ARE TO BE REFER PLAN
5. ALL THE RC SLABS ARE TO BE 150mm THICK
6. ALL THE COLUMNS SIZES ARE TO BE REFER PLAN



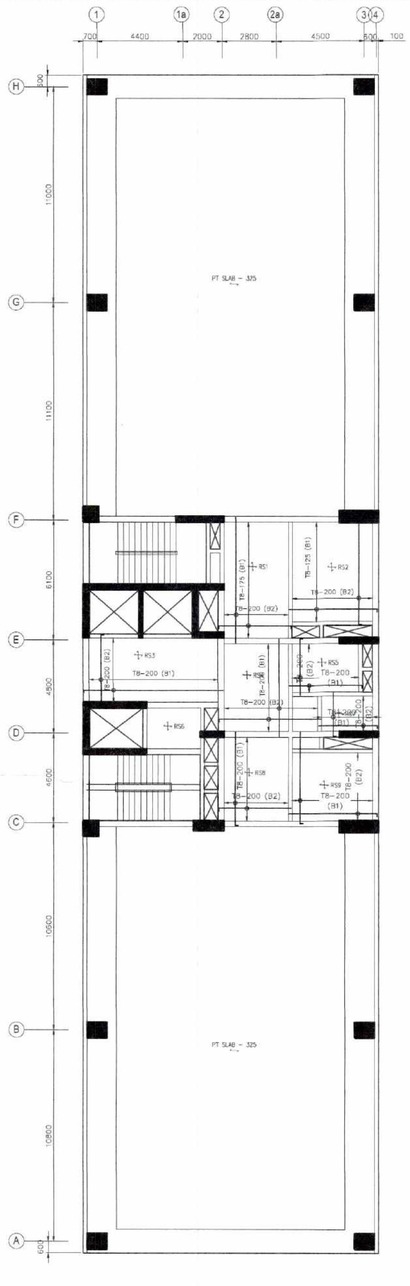
ROOF FLOOR SLAB DETAIL (TOP REINFT.)

SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED

1. GRADE OF CONCRETE
   a. COLUMNS AND RC WALL– M40
   b. ALL OTHER ELEMENRS – M35
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4. ALL THE PT SLABS SIZES ARE TO BE REFER PLAN
5. ALL THE RC SLABS ARE TO BE 150mm THICK
6. ALL THE COLUMNS SIZES ARE TO BE REFER PLAN



ROOF FLOOR SLAB DETAIL (BOTTOM REINFT.)

SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED

1. GRADE OF CONCRETE
   a. COLUMNS AND RC WALL– M40
   b. ALL OTHER ELEMENRS – M35
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3. ALL THE BEAMS SIZES ARE TO BE (200x600)
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5. ALL THE RC SLABS ARE TO BE 150mm THICK
6. ALL THE COLUMNS SIZES ARE TO BE REFER PLAN

NOTES

FOR CLARITY PURPOSE DISTRIBUTION BARS NOT SHOWN. THE DISTRIBUTION BARS ARE TO BE T8-200 (T2&B2) UNLESS OTHERWISE INDICATED

LEGEND:

TOP REINFORCEMENT

BOTTOM REINFORCEMENT

BAR LAYING SEQUENCE



ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

XREF : BEI915_S-XREFA1_.dwg

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DATE OF ISSUE

23 JAN 2025

BURO ENGINEERS (I) PRIVATE LTD.

NO.	AMENDMENTS	BY	DATE
–	ISSUE FOR CONSTRUCTION	GUNA	23-01-2025

CONSTRUCTION DRAWING

STRUCTURAL

Client

M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
NO.3,OLD NO.25,
GANAPATHY COLONY,3RD LANE OFF.
GENOTAPH ROAD
CHENNAI 600004

Architect

M/S.NATARAJ & VENKAT ARCHITECTS
18, 3RD SEAWARD RD,
VALMIKI NAGAR,
THIRUVANMIYUR,
CHENNAI 600 041
PH. 044-24572457

Civil & Structural Engineer :

Buro Engineers (I) Private Ltd.,
CIVIL & STRUCTURAL CONSULTANTS
NEW #31, OLD #14, BESANT AVENUE ROAD,
ADAYAR, CHENNAI-600020.
TEL: 42658573 / 74, FAX: 24662755

project title

PROPOSED OFFICE BUILDING AT THIRU VI KA INDUSTRIAL ESTATE EKKATUTHANGAL,CHENNAI. (G2)

STILT + 7TH FLOOR + ROOF FLOOR

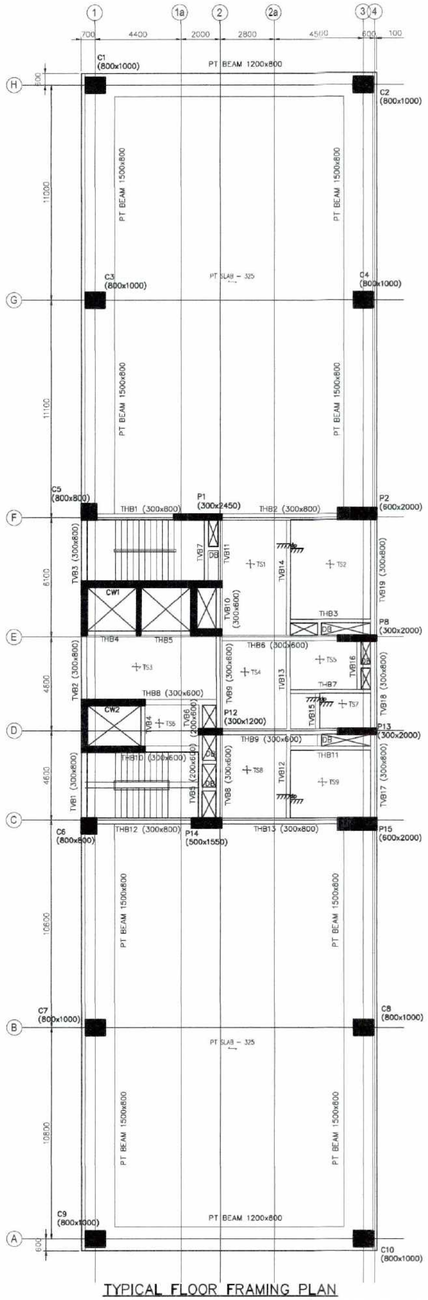
drawing title

ROOF FLOOR FRAMING PLAN & SLAB DETAIL
TOP & BOTTOM REINFT.

scale	1:100	design by	ROHIT
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BEI749_S-/FP/R-/--//01	revision	–

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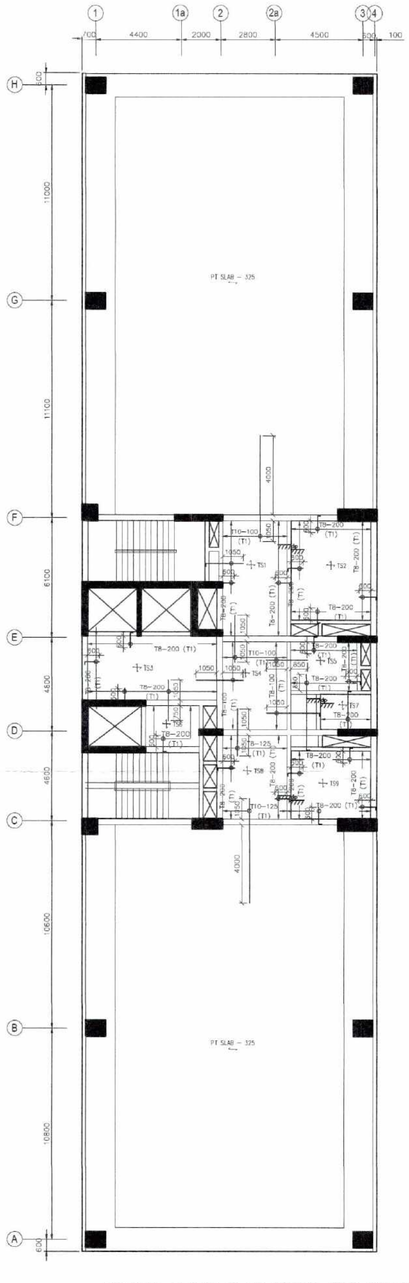


TYPICAL FLOOR FRAMING PLAN
(2nd,3rd,4th,5th,6th & 7th) FLOOR FRAMING PLAN
SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED

1. GRADE OF CONCRETE
   a. COLUMNS AND RC WALL- M40
   b. ALL OTHER ELEMENTS – M35
2. GRADE OF STEEL Fe 550
3. ALL THE BEAMS SIZES ARE TO BE (200x600)
4. ALL THE PT SLABS SIZES ARE TO BE REFER PLAN
5. ALL THE RC SLABS ARE TO BE 150mm THICK
6. ALL THE COLUMNS SIZES ARE TO BE REFER PLAN



TYPICAL FLOOR SLAB DETAIL TOP REINFT.
(2nd,3rd,4th,5th,6th & 7th) FLOOR FRAMING PLAN
SCALE 1:125

NOTES

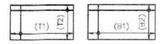
UNLESS OTHERWISE SPECIFIED

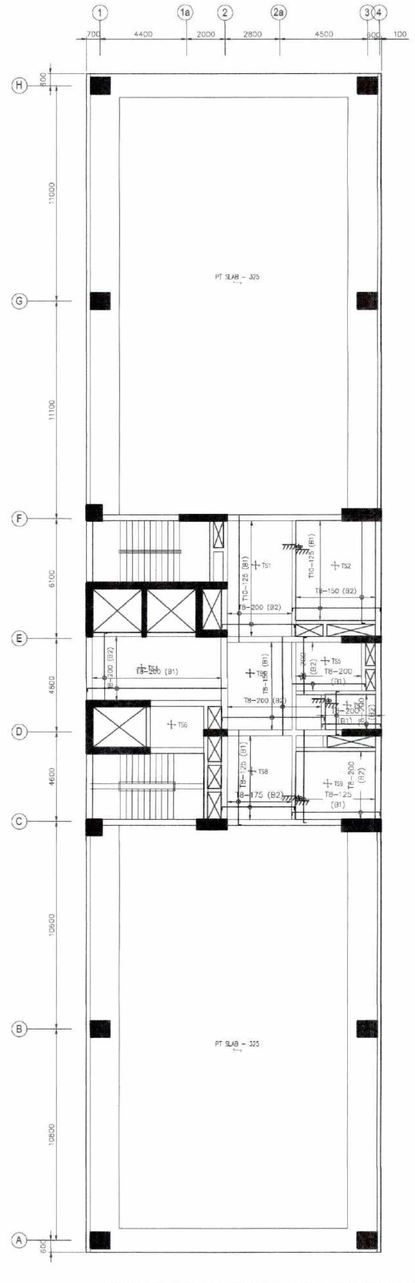
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5. ALL THE RC SLABS ARE TO BE 150mm THICK
6. ALL THE COLUMNS SIZES ARE TO BE REFER PLAN

NOTES
FOR CLARITY PURPOSE DISTRIBUTION BARS NOT SHOWN. THE DISTRIBUTION BARS ARE TO BE T8-200 (T)/(B) UNLESS OTHERWISE INDICATED

LEGEND
TOP REINFORCEMENT
BOTTOM REINFORCEMENT

BAR LAYING SEQUENCE





TYPICAL FLOOR SLAB DETAIL BOTTOM REINFT.
(2nd,3rd,4th,5th,6th & 7th) FLOOR FRAMING PLAN
SCALE 1:125

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project title

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STILT + 7TH FLOOR + ROOF FLOOR

drawing title

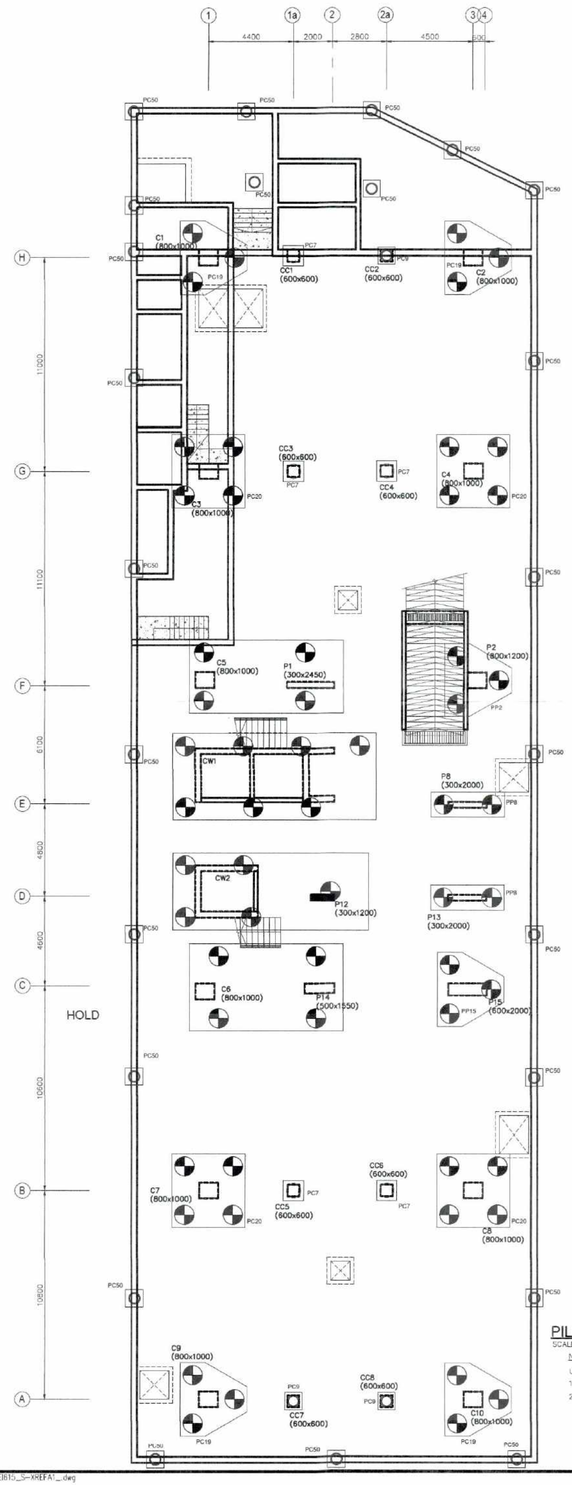
TYPICAL FLOOR FRAMING PLAN & SLAB DETAIL
(2nd,3rd,4th,5th,6th & 7th) FLOORS

scale	1:100	design by	ROHIT
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BEI749_S-/FP/T-/--//01	revision	-

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CAD FILE NAME: BEI749_S-FPT---01_.dwg

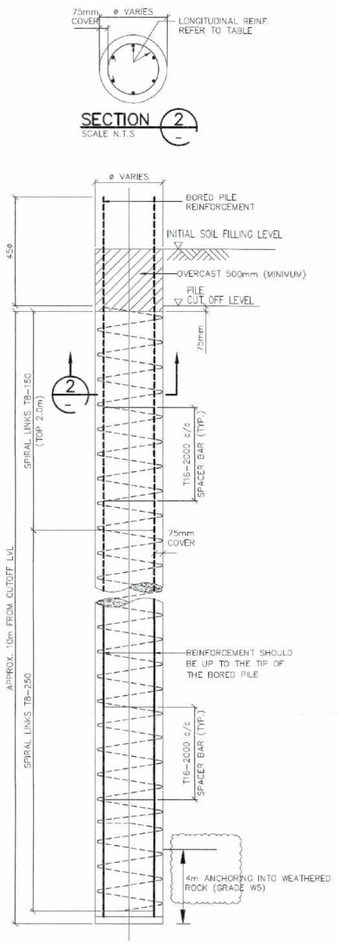
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PILE LAYOUT PLAN
SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED
1. GRADE OF CONCRETE M30
2. GRADE OF STEEL Fe 550



PILE REINFORCEMENT DETAILS (BORED PILE SCHEDULE)

BORED PILE MARK / TYPE	SIZE	WORKING COMPRESSION CAPACITY (TONS)	LONGITUDINAL REINFORCEMENT	LINKS		NOS. OF PILES
				S1	S2	
TYPE A	1000ø	400	14T20	T8-150	T8-250	58
TYPE B	750ø	240	10T20	T8-150	T8-250	5
TYPE C	600ø	160	8T16	T8-150	T8-250	30

GENERAL NOTES FOR PILING WORKS

1. The contractor shall verify all dimensions and levels on site and resolve any discrepancy with the Architect or Engineer before commencement of work.
2. A copy of pile setting out plan prepared by a Licensed Surveyor shall be submitted by the contractor to Architect and Engineer prior to the commencement of the work.
3. Grade of concrete for pile shall be M30 (fcu = 30 N/mm2)
4. Reinforcement shall be high strength deformed bars (fy = 550 N/mm2)
   a) Longitudinal reinforcement shall be extended up to the tip of the pile (Base of the pile)
   b) any additional reinforcement bars required to stiffen the reinforcement cage shall be allowed in the tender.
5. All piles shall be installed to have an ultimate capacity of not less than 2.5 times the specified working capacity of pile.
6. The working piles shall be installed upon successful completion of preliminary load test.
7. Estimated Toe of the pile from the existing ground level shall be around 10m.
8. The maximum permissible deviation of the centre of each pile at cut-off level in a group from the correct centre point as approved by the engineer shall be 75mm(3") in any direction. Allowable deviation of the centre of piles for any single pile or single line of piles carrying structural load shall not be more than 40mm laterally from its correct position. All piles shall be installed using rotary piling rig only.
9. The format of the piling record shall be submitted to the Engineer's approval before commencement of work. Complete piling records shall be kept by the contractor during the installation of pile. The contractor shall submit the records of all piles as the work proceeds.
10. After the completion of the piling work, the contractor shall submit as-built drawing prepared by a Registered Licensed Surveyor which includes the size and type of piles, eccentricities and penetration depth from cutoff level. Eccentricity of pile is to be taken at cutoff level for the pile.
11. The stripping and cutting of pile to the required cutoff level is to be carried out by the piling contractor, when the excavation for construction of pilecap is completed by the other contractor. The contractor shall allow in his tender for the same.
12. Distance between centre to centre of the pile in a pile group shall be 2.5 times the diameter of the pile.
13. The contractor shall ensure and provide necessary protection, that the adjacent buildings are not affected and damaged during the installation of bored piles
14. Working load test to be carried out to a load of 1.5 times specified working capacity of pile
15. Ultimate load test to be carried out to a load of 2.5 times specified working capacity of pile.

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWINGS BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ON THE DIMENSIONS.

* PILECAP LAYOUT PLAN REFER CAD FILE NAME: BE749_S-PL----02_.dwg
* BASEMENT BEAM DETAILS REFER CAD FILE NAME: BE749_S-PL----07_.dwg
* BASEMENT SLAB DETAILS REFER CAD FILE NAME: BE749_S-PL----05_.dwg
* BASEMENT & STP, SUMP WALL SECTION DETAILS REFER CAD FILE NAME: BE749_S-PL----06_.dwg

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DATE OF ISSUE
11 DEC 2024
BURO ENGINEERS (I) PRIVATE LTD.

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-	ISSUE FOR CONSTRUCTION	GUNA	11/12/2024

CONSTRUCTION DRAWING
STRUCTURAL

Client
M/S.ARIHANT FOUNDATIONS & HOUSING LTD.,
NO.3,OLD NO.25,
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project title
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STILT + 7TH FLOOR + ROOF FLOOR

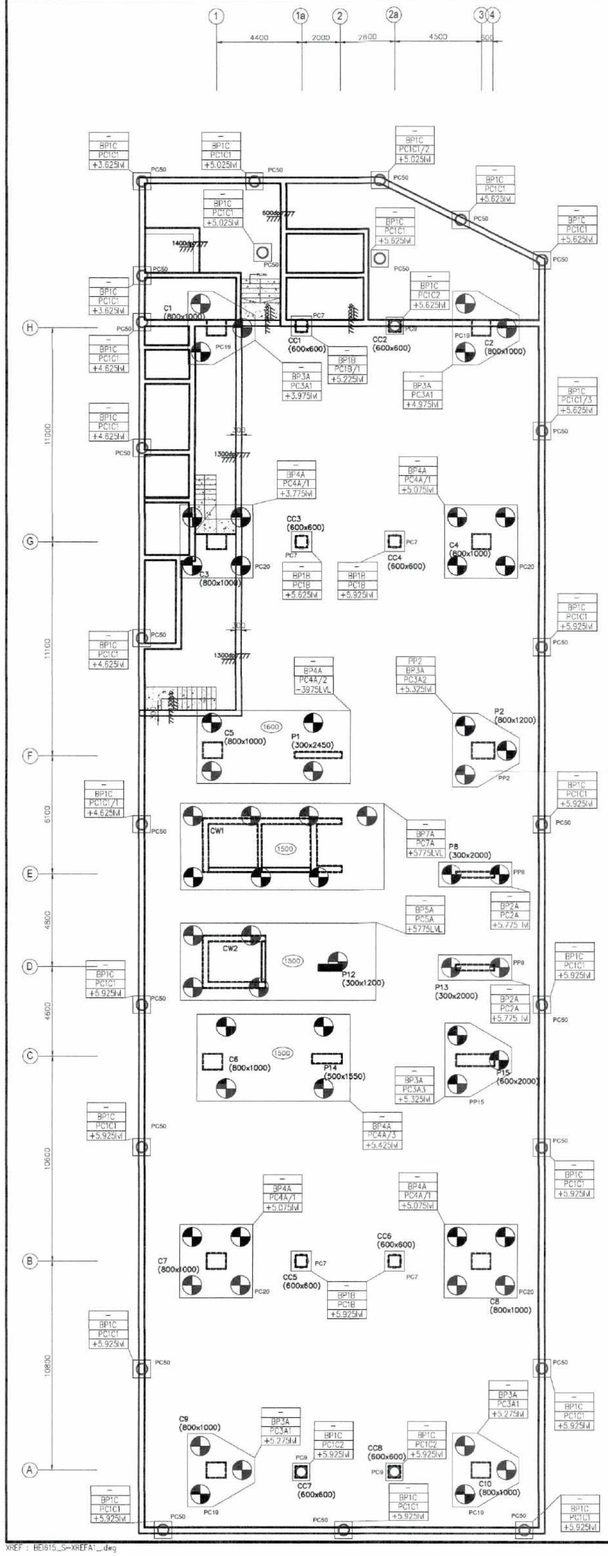
drawing title
PILE LAYOUT PLAN

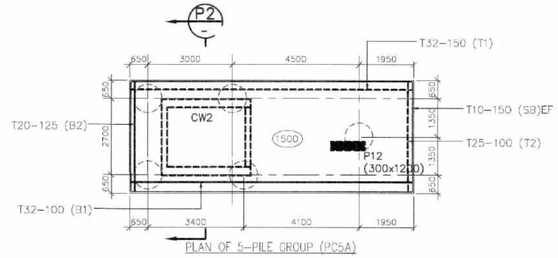
scale	1:125	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BE1749_S-/PL/--/--/01	revision	

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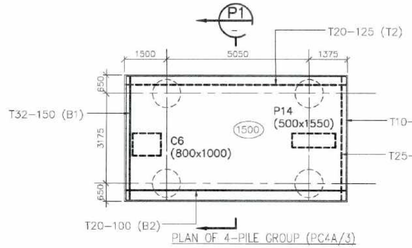
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P.JAYATHEESAPAN, ME., (STRUCTURAL ENGINEERING)
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
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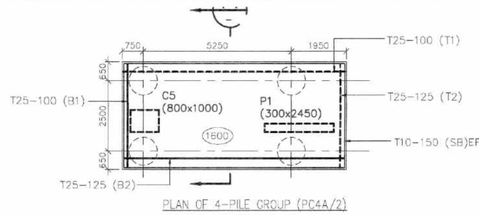




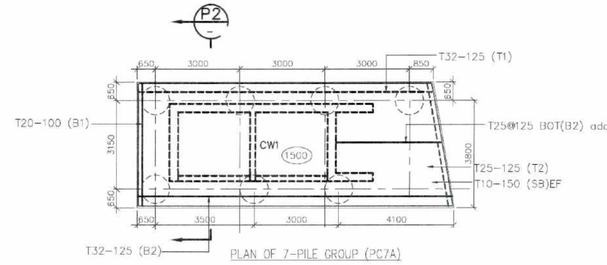
PLAN OF 5–PILE GROUP (PC5A)



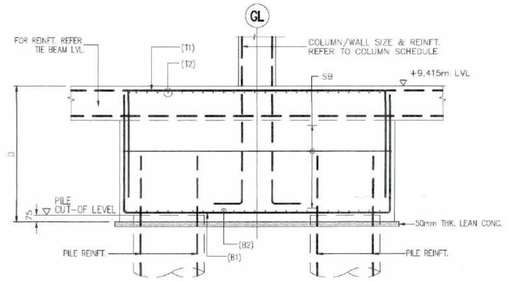
PLAN OF 4–PILE GROUP (PC4A/3)



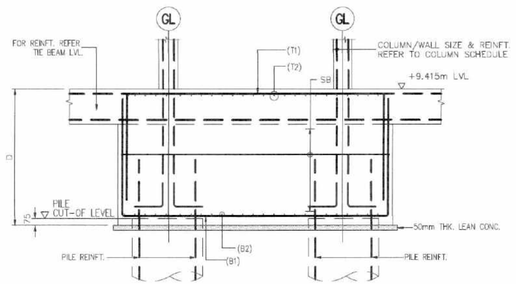
PLAN OF 4–PILE GROUP (PC4A/2)



PLAN OF 7–PILE GROUP (PC7A)



SECTION P1
SCALE N.T.S



SECTION P1
SCALE N.T.S

PILECAP LAYOUT PLAN

SCALE 1:125

NOTES

UNLESS OTHERWISE SPECIFIED

1. GRADE OF CONCRETE M30
2. GRADE OF STEEL Fe 550
3. ALL THE BEAMS SIZES ARE TO BE 600X800mm
4. ALL THE RC SLABS ARE TO BE 300mm THICK
5. ALL THE BASEMENT AND WATER TANKS WALLS ARE 300mm THICK.

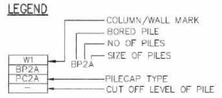
PILE CAP SCHEDULE

PILE CAP MARK	PILES	DIMENSIONS			REINFORCEMENT				SFR (SF)
					BOTTOM		TOP		
		L	B	D	ALONG L	ALONG B	ALONG L	ALONG B	
PC19	3-1000 DIA	-	-	1650	T32@100 C/C	T32@100 C/C	T10@200 C/C	T10@200 C/C	T10-150
PC9	1-600 DIA	900	900	1000	T16@100 C/C	T16@100 C/C	T10@200 C/C	T10@200 C/C	T10-200
PC20	4-1000 DIA	3800	3800	1850	T32@100 C/C	T32@100 C/C	T10@200 C/C	T10@200 C/C	T10-175
PC7	1-750 DIA	1050	1050	1600	T16@100 C/C	T16@100 C/C	T10@200 C/C	T10@200 C/C	T10-200
PP2	3-1000 DIA	-	-	1600	T32@100 C/C	T32@100 C/C	T10@200 C/C	T10@200 C/C	T10-150
PP8	2-1000 DIA	1300	3800	1150	T20@100 C/C	T16@100 C/C	T10@200 C/C	T10@200 C/C	T10-200
PP15	3-1000 DIA	-	-	1600	T32@100 C/C	T32@100 C/C	T10@200 C/C	T10@200 C/C	T10-150
PC50	1-600 DIA	900	900	1600	T32@100 C/C	T32@100 C/C	T10@200 C/C	T10@200 C/C	T10-200

PILE REINFORCEMENT DETAILS

BORED PILE MARK / TYPE	SIZE	WORKING COMPRESSION CAPACITY (TONS)	LONGITUDINAL REINFORCEMENT	LINKS		NOS. OF PILES
				S1	S2	
TYPE A	1000ø	400	14T20	T8–150	T8–250	58
TYPE B	750ø	240	10T20	T8–150	T8–250	5
TYPE C	600ø	160	8T16	T8–150	T8–250	30

LEGEND



* PILECAP LAYOUT PLAN REFER CAD FILE NAME: BEI749_S-PL----02_.dwg
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drawing title
PILE CAP LAYOUT PLAN & DETAILS

scale	1:125	design by	YOGA
drawn by	GUNA	checked by	SIVA
date	JUNE 2023	approved by	PJ
drawing no.	BEI749_S-/PL/--/--/02	revision	

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CAD FILE NAME: BEI749_S-PL----02_.dwg

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

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Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.