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TAMILNADU URBAN HABITAT DEVELOPMENT BOARD

OFFICE OF THE
EXECUTIIVE ENGINEER,
STRUCTURAL QUALITY
CONTROL WING,
TAMILNADU URBAN HABITAT
DEVELOPMENT BOARD,
KAMARAJAR SALAI,
CHENNAI-05

STABILITY CERTIFICATE

This is to certify that the construction of 162 tenements S+9 Multi-storeyed with Internal Water supply, sanitary and Electrification Arrangements etc. at Rajathottam scheme in corporation division-68, Zone-VI, Greater Chennai Corporation, under PMAY (HFA) which is structurally designed for S+9 floors assuming the live load of 200kg/sq.m as per IS 875 are designed as per IS 456 Grade of Concrete will be M30 for all structural members. The structure is also designed for the Seismic zone as per IS code. The structure design is safe, Good and Sound.

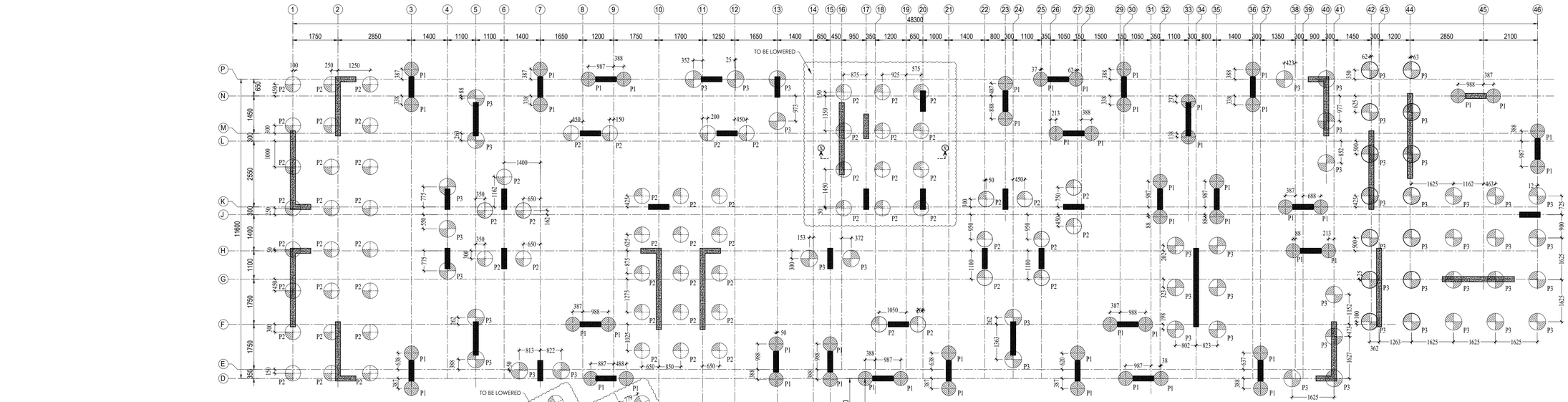
Yours Faithfully

25/6/2024

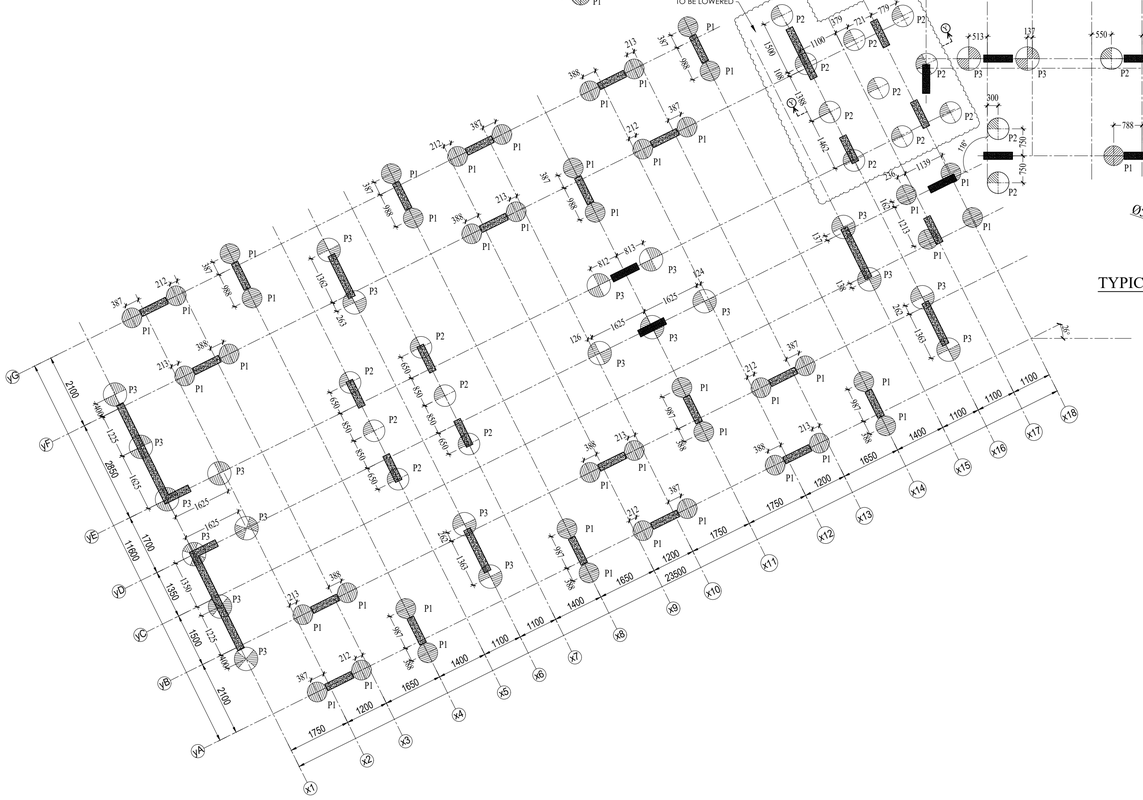
G. MAHENDIRAN, M.E.,
ASSISTANT EXECUTIVE ENGINEER
REGISTRATION No: SE/I/2024/4/0071
Registered Structural Engineer Grade-I (SE-I)
Tamil Nadu Urban Habitat Development Board
No. 5, Kamarajar Salai, Chennai-600 005.

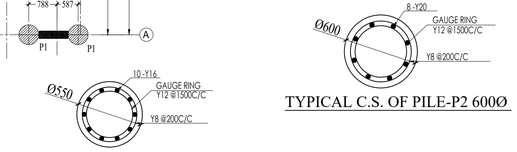
RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION



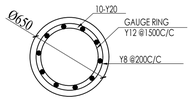
PILE LAYOUT





TYPICAL C.S. OF PILE-P1 550Ø

TYPICAL C.S. OF PILE-P2 600Ø

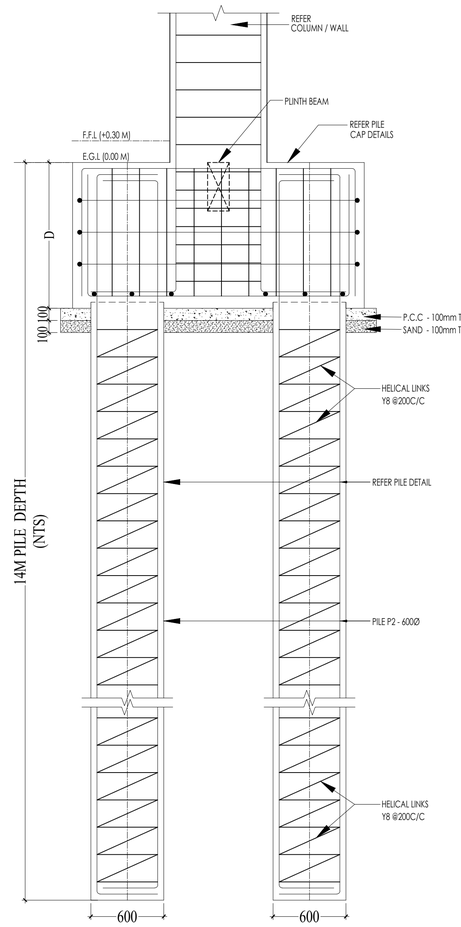


TYPICAL C.S. OF PILE-P3 650Ø

PILE DETAILS				
PILE ID	PILE DIA (mm)	AXIAL CAPACITY (kN)	LATERAL CAPACITY (kN)	DEPTH (m)
P1	550 - Ø	740	74	14
P2	600 - Ø	930	93	14
P3	650 - Ø	1220	114	14

SPECIAL NOTES FOR PILING- :-

1. ALL REINFORCEMENT OF PILE SHOULD BE TAKEN UP TO EGL. AFTER DISMANTLING THE PILE CONCRETE UP TO CUT OFF LEVEL 1m FROM EGL, ALL PILE REINFORCEMENT SHOULD BE PROPERLY.
2. PILE DRILLING & CONCRETING TO BE CARRIED OUT UP TO EGL FOR EACH PILE IN SEQUENCE & COMPLETE BEFORE TAKING UP NEXT PILE DRILLING. TIME GAP BETWEEN COMPLETION OF DRILLING & START OF CONCRETING SHOULD NOT BE MORE THAN 4 HOURS.
3. CASTING OF PILE CAP TO BE DONE ONLY AFTER ALL PILLING FOR OTHER STRUCTURE IN THE VICINITY ARE COMPLETED.
4. USE OF BENTONITE SLURRY SHOULD BE ENSURE WITH CONSISTENCY FROM STABILISING BORE HOLE TILL CONCRETING AS PILE -IS 2911 (PART 1 / SEC 2)- (R-1979) .
5. CONCRETING MUST BE ADOPTED USING TREMIE METHOD WITH GENERAL PRECAUTIONS.
6. LOWERING OF WATER TABLE MUST BE ENSURED TO MAXIMUM LEVEL.
7. DATA SHEETS AS PROVIDED IN APPENDIX-D OF IS 2911(PART 1 / SEC 2)- 1979 SHOULD BE MAINTAIN .
8. SLUMP OF CONCRETE BY TREMIE METHOD SHALL BE MAINTAINED NOT LESS THAN 150mm.
9. CONCRETING SHALL GO UNINTERRUPTED, IF INTERRUPTED NECESSARY PRECAUTIONS SHOULD BE ENSURED AS PER IS 2911(PART 1 / SEC 2)- 1979.
10. INCASE OF DEFECTIVE PILING SHOULD BE INFORMED TO DESIGN OFFICE TO GO AHEAD WITH CHANGE IN DESIGN THEREAFTER.
11. TEMPORARY CASING SHALL BE CONSIDERED INTO ACCOUNT DUE TO HIGH WATER TABLE AT THE TIME OF CONCRETING.
12. ALL PILE CAPACITIES CONSIDERED IN THE DESIGN ARE BASED ON THE SOIL INVESTIGATION REPORT ONLY.
13. TERMINATION OF PILE AND OTHER RECOMMENDATIONS PROVIDED IN SOIL INVESTIGATION REPORT SHALL BE STRICTLY FOLLOWED.
14. PILE LOAD TEST SHOULD BE CARRIE OUT TO ENSURE THE PILE CAPACITY.



(TYPICAL) PILE-2 L.S DETAILS

NOTES:

1. ALL DIMENSIONS ARE IN "mm" AND LEVELS ARE IN "m".
2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,
   - PILE : 75mm
   - PILE CAP : 75mm (BOTTOM)
   - PILE CAP : 50mm (SIDES)
   - COLUMN/WALL : 40mm
   - BEAM : 30mm
   - SLAB : 25mm.
5. HIGH YIELD STRENGTH DEFORMED BARS OF FE 500 D CONFORMING TO IS 1786:2008 SHALL BE USED.
6. "Y" DENOTES FOR HYSD BAR IN mm.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+09 FLOOR ONLY.
8. STRIKING OF FORM WORK SHALL BE IN ACCORDANCE WITH IS456:2000 (R-2021).
9. ANY DISCREPANCY IN DRAWING SHALL BE NOTIFIED TO THE STRUCTURAL CONSULTANT BEFORE START THE WORK.
10. THE BUILDING IS DESIGNED TO CARRY 6.5 kN/ m² INFILL WALL (AAC) ONLY. CONSTRUCTION HAS TO BE DONE WITH AAC BLOCKS ONLY. FOR THICKNESS OF WALL REFER ARCHITECTURAL DRAWING.
11. DO NOT SCALE THIS DRAWING.
12. NO CHANGES SHALL BE MADE WITHOUT THE CONSENT OF STRUCTURAL CONSULTANT.
13. PROVIDE SPACER BAR AT 900mm INTERVALS.
14. COLUMN / WALL VERTICALITY, ORIENTATION, CENTER ALIGNMENT WITH FOUNDATION ARE VERY IMPORTANT FOR STRUCTURAL STABILITY.
15. ONUS AND QUALITY OF CONSTRUCTION LIES WITH CONTRACTOR / CLIENT.
16. STRUCTURAL CONSULTANT IS NOT LIABLE FOR QUALITY OF CONSTRUCTION/PERIODICAL INSPECTION OF EXECUTION, UNLESS ANY SEPARATE COMMERCIAL AGREEMENT & MoU IS EXECUTED.

REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
CHENNAI, TAMILNADU - 600 036.

STRUCTURAL CONSULTANT:

CENTRE FOR URBANIZATION BUILDINGS & ENVIRONMENT
MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

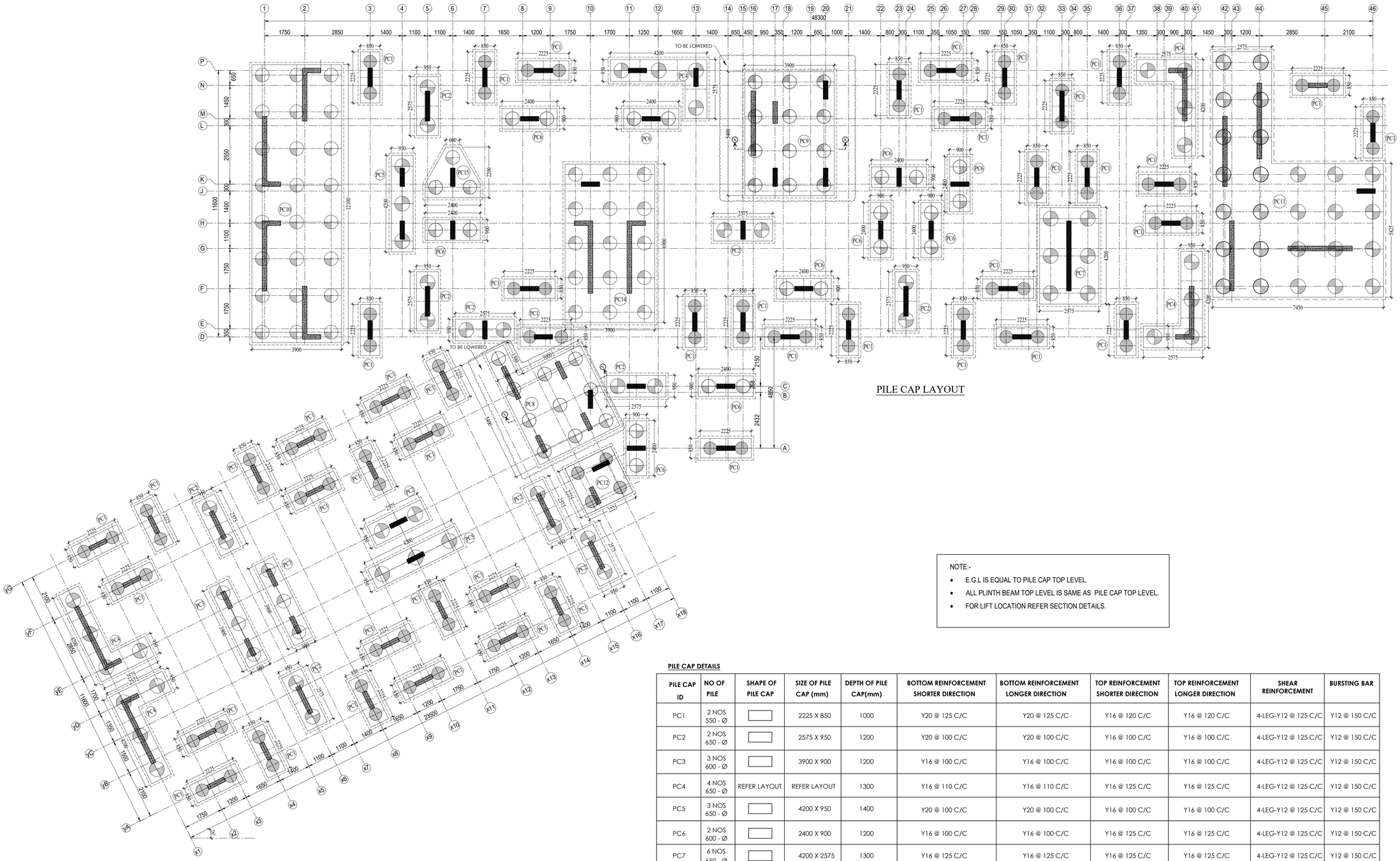
DRAWING TITLE:

PILE LAYOUT & PILE DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/01	SHEET NO : 01 OF 04	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100	SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		
PREPARED BY: K.B.M	DRAWN BY: D.K.J	
CHECKED BY:	APPROVED BY:	

NOTE: ALL DIMENSIONS ARE IN mm

* For Culvert & UG Tank details Refer DRAWING NO: TNUHDB/CH/RT/10/01/11; Sheet No: 01/01.



PILE CAP LAYOUT

NOTE:-
- E.G.L IS EQUAL TO PILE CAP TOP LEVEL.
- ALL PLINTH BEAM TOP LEVEL IS SAME AS PILE CAP TOP LEVEL.
- FOR LIFT LOCATION REFER SECTION DETAILS.

PILE CAP DETAILS

PILE CAP ID	NO OF PILE	SHAPE OF PILE CAP	SIZE OF PILE CAP (mm)	DEPTH OF PILE CAP(mm)	BOTTOM REINFORCEMENT SHORTER DIRECTION	BOTTOM REINFORCEMENT LONGER DIRECTION	TOP REINFORCEMENT SHORTER DIRECTION	TOP REINFORCEMENT LONGER DIRECTION	SHEAR REINFORCEMENT	BURSTING BAR
PC1	2 NOS 550 - Ø	▭	2225 X 850	1000	Y20 @ 125 C/C	Y20 @ 125 C/C	Y16 @ 120 C/C	Y16 @ 120 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC2	2 NOS 650 - Ø	▭	2575 X 950	1200	Y20 @ 100 C/C	Y20 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC3	3 NOS 600 - Ø	▭	3900 X 900	1200	Y16 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC4	4 NOS 650 - Ø	REFER LAYOUT	REFER LAYOUT	1300	Y16 @ 110 C/C	Y16 @ 110 C/C	Y16 @ 125 C/C	Y16 @ 125 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC5	3 NOS 650 - Ø	▭	4200 X 950	1400	Y20 @ 100 C/C	Y20 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC6	2 NOS 600 - Ø	▭	2400 X 900	1200	Y16 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 125 C/C	Y16 @ 125 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC7	6 NOS 650 - Ø	▭	4200 X 2575	1300	Y16 @ 125 C/C	Y16 @ 125 C/C	Y16 @ 125 C/C	Y16 @ 125 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC8*	10 NOS 600 - Ø	REFER LAYOUT	REFER LAYOUT	1400	Y20 @ 100 C/C	Y20 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC9*	12 NOS 600 - Ø	▭	5400 X 3900	1400	Y20 @ 100 C/C	Y20 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC10	24 NOS 600 - Ø	▭	12100 X 3900	1300	Y20 @ 100 C/C	Y20 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC11	26 NOS 650 - Ø	REFER LAYOUT	REFER LAYOUT	1400	Y20 @ 100 C/C	Y20 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC12	4 NOS 550 - Ø	□	2225 X 2225	1200	Y16 @ 100 C/C	Y16 @ 100 C/C	Y12 @ 100 C/C	Y12 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC13	12 NOS 600 - Ø	▭	5400 X 3900	1400	Y20 @ 100 C/C	Y20 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC14	15 NOS 600 - Ø	▭	6900 X 3900	1400	Y20 @ 100 C/C	Y20 @ 100 C/C	Y16 @ 100 C/C	Y16 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C
PC15	3 NOS 600 - Ø	△	REFER LAYOUT	1200	Y16 @ 100 C/C	Y16 @ 100 C/C	Y12 @ 100 C/C	Y12 @ 100 C/C	4-LEG-Y12 @ 125 C/C	Y12 @ 150 C/C

* For Pile Cap/ Raft Top Level Refer the Cross-Section on DRAWING NO: TNUHDB/CH/RT/10/01/01; Sheet No: 03/04.

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

N

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REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

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PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

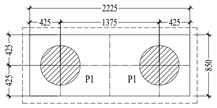
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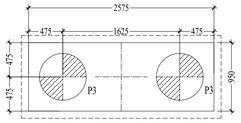
PILE CAP LAYOUT & DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/01	SHEET NO : 02 OF 04	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		SHEET SIZE: A1
PREPARED BY: K.B.M	DRAWN BY: D.K.J	
CHECKED BY:	APPROVED BY:	

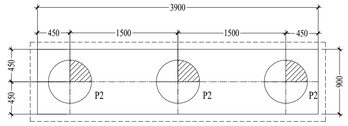
NOTE: ALL DIMENSIONS ARE IN mm



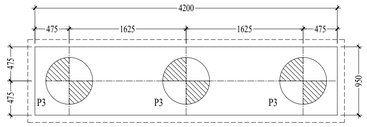
PILE CAP - PC1



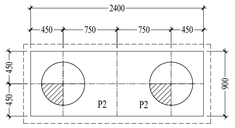
PILE CAP - PC2



PILE CAP - PC3



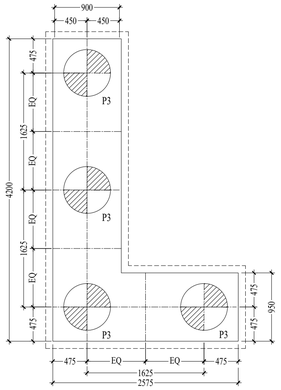
PILE CAP - PC5



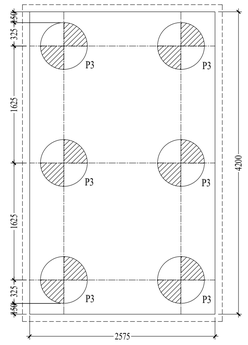
PILE CAP - PC6

NOTE:-

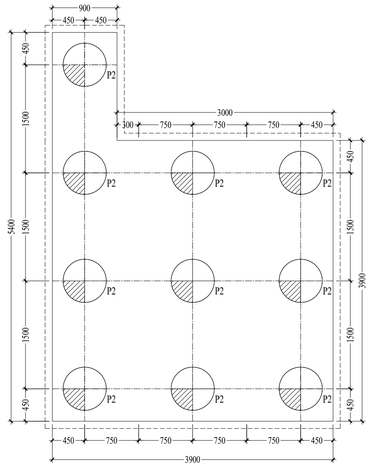
- E.G.L IS EQUAL TO PILE CAP TOP LEVEL.
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- FOR LIFT LOCATION REFER SECTION DETAILS.



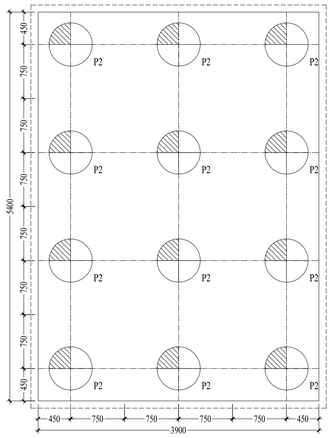
PILE CAP - PC4



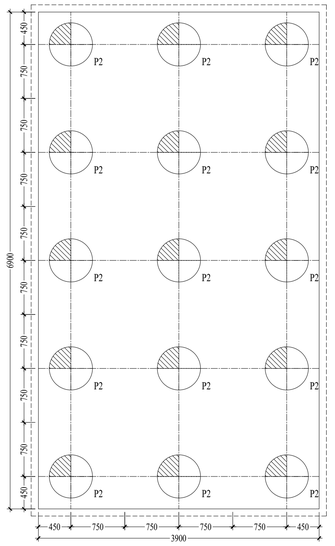
PILE CAP - PC7



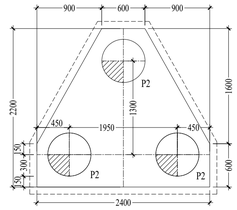
PILE CAP - PC8



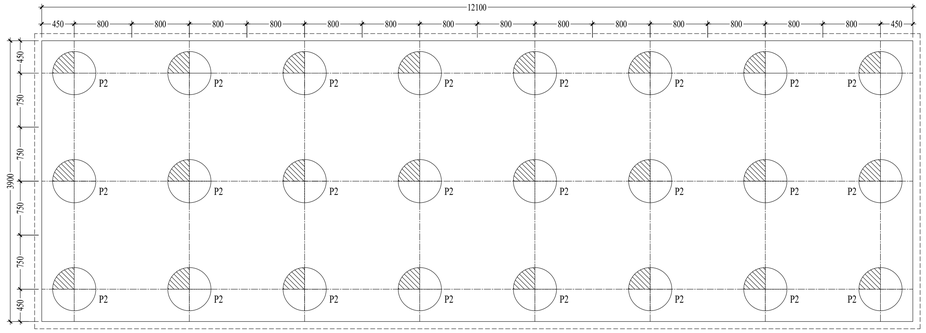
PILE CAP - PC9



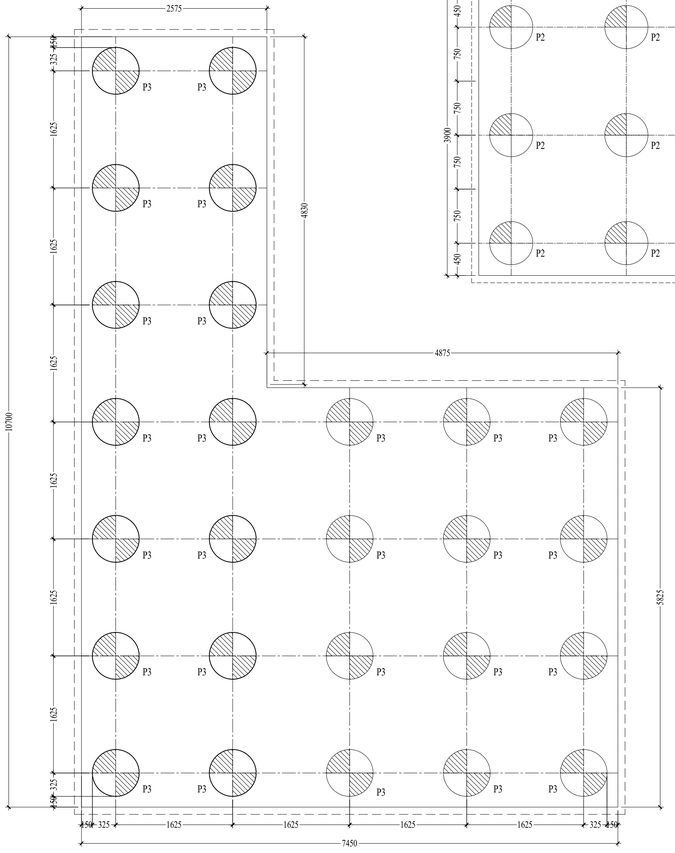
PILE CAP - PC14



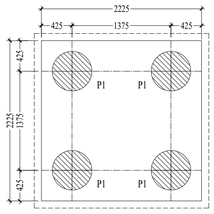
PILE CAP - PC15



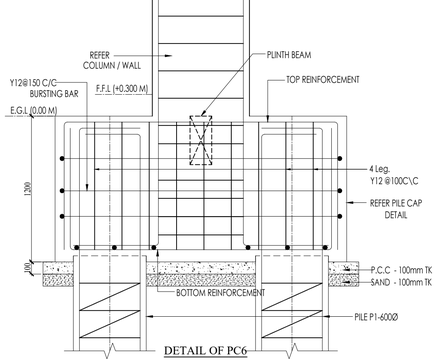
PILE CAP - PC10



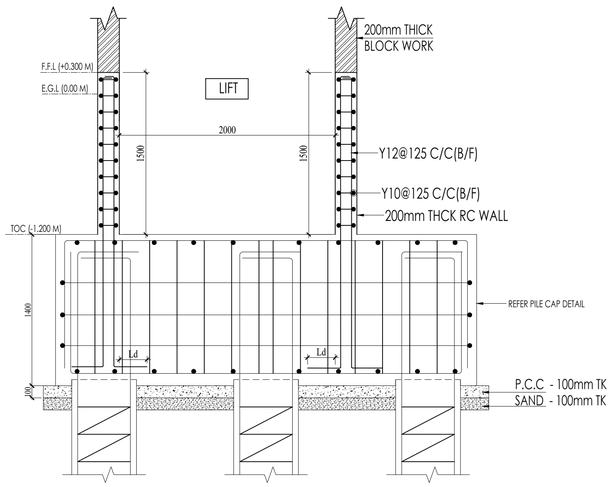
PILE CAP - PC11



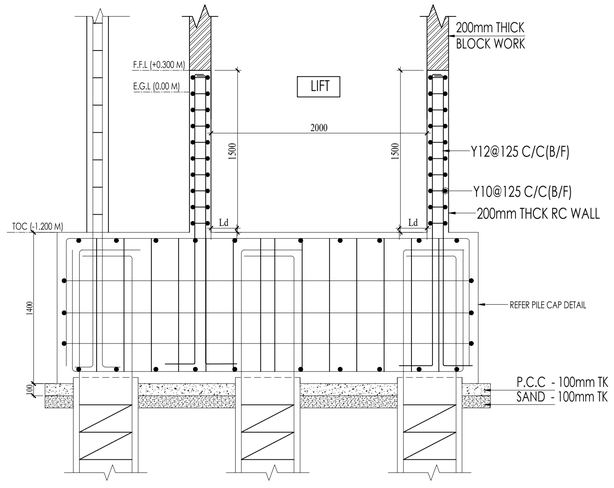
PILE CAP - PC12



DETAIL OF PC6



DETAILS OF LIFT LOCATION
(SECTION Y-Y)



DETAILS OF LIFT LOCATION
(SECTION X-X)

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

N

NOTES:

1. ALL DIMENSIONS ARE IN "mm" AND LEVELS ARE IN "m".
2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,

PILE	:	75mm
PILE CAP	:	75mm (BOTTOM)
PILE CAP	:	50mm (SIDES)
COLUMN/WALL	:	40mm
BEAM	:	30mm
SLAB	:	25mm.

5. HIGH YIELD STRENGTH DEFORMED BARS OF FE 500 D CONFORMING TO IS 1786:2008 SHALL BE USED.
6. "Y" DENOTES FOR HYSD BAR IN mm.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+09 FLOOR ONLY.
8. STRIKING OF FORM WORK SHALL BE IN ACCORDANCE WITH IS456:2000 (R-2021).
9. ANY DISCREPANCY IN DRAWING SHALL BE NOTIFIED TO THE STRUCTURAL CONSULTANT BEFORE START THE WORK.
10. THE BUILDING IS DESIGNED TO CARRY 6.5 kN/ m² INFILL WALL (AAC) ONLY. CONSTRUCTION HAS TO BE DONE WITH AAC BLOCKS ONLY. FOR THICKNESS OF WALL REFER ARCHITECTURAL DRAWING.
11. DO NOT SCALE THIS DRAWING.
12. NO CHANGES SHALL BE MADE WITHOUT THE CONSENT OF STRUCTURAL CONSULTANT.
13. PROVIDE SPACER BAR AT 900mm INTERVALS.
14. COLUMN / WALL VERTICALITY, ORIENTATION, CENTER ALIGNMENT WITH FOUNDATION ARE VERY IMPORTANT FOR STRUCTURAL STABILITY.
15. ONUS AND QUALITY OF CONSTRUCTION LIES WITH CONTRACTOR / CLIENT.
16. STRUCTURAL CONSULTANT IS NOT LIABLE FOR QUALITY OF CONSTRUCTION/PERIODICAL INSPECTION OF EXECUTION, UNLESS ANY SEPARATE COMMERCIAL AGREEMENT & MoU IS EXECUTED.

REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
CHENNAI, TAMILNADU - 600 036.

STRUCTURAL CONSULTANT:

CENTRE FOR URBANIZATION BUILDINGS & ENVIRONMENT
MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

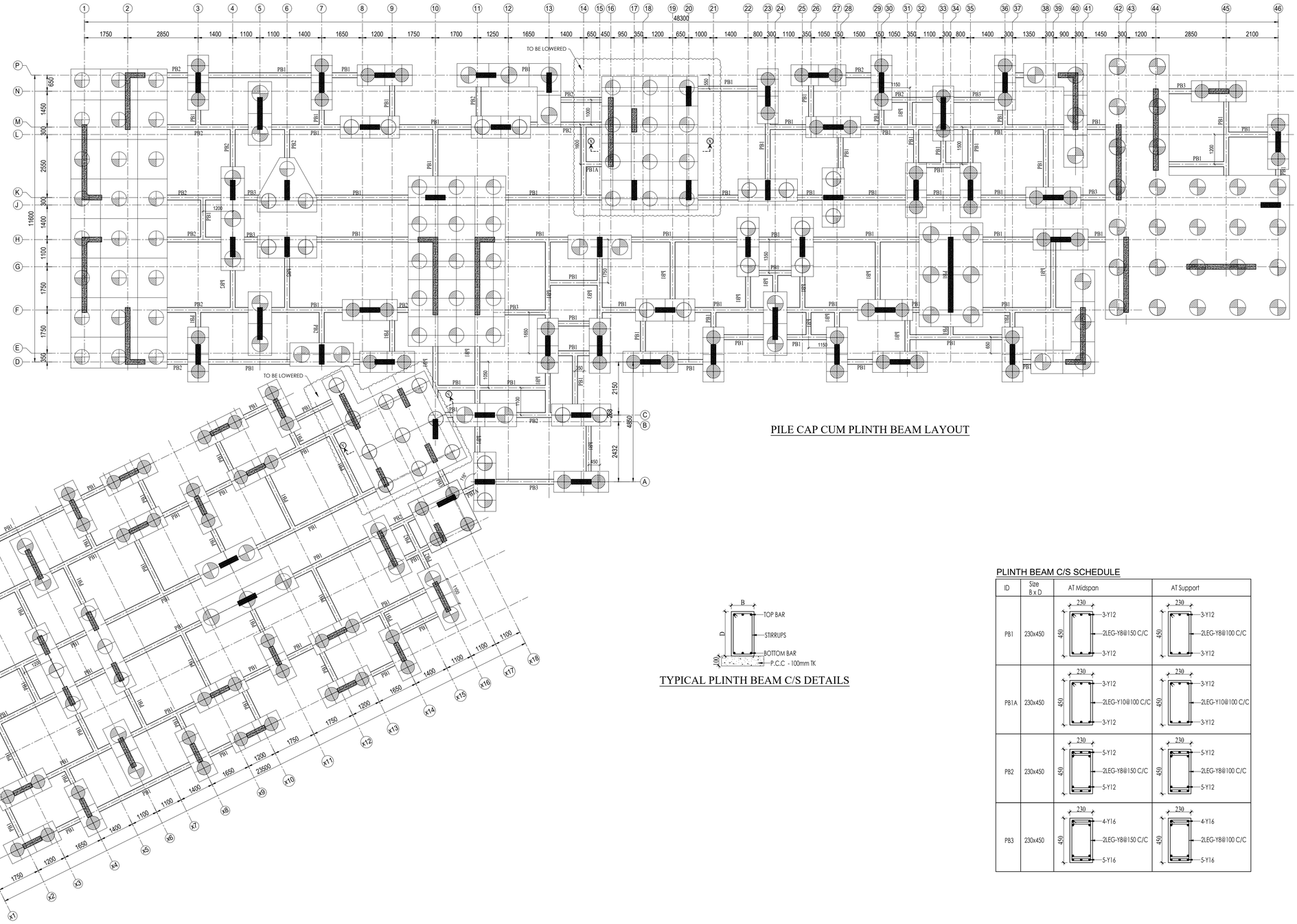
THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWING TITLE:

PILE CAP DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/01		SHEET NO : 03 OF 04	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100	SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION			
PREPARED BY: K.B.M		DRAWN BY: D.K.J	
CHECKED BY:		APPROVED BY:	

NOTE: ALL DIMENSIONS ARE IN mm



PILE CAP CUM PLINTH BEAM LAYOUT

TYPICAL PLINTH BEAM C/S DETAILS

PLINTH BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
PB1	230x450	3-Y12 2LEG-Y8@150 C/C 3-Y12	3-Y12 2LEG-Y8@100 C/C 3-Y12
PB1A	230x450	3-Y12 2LEG-Y10@100 C/C 3-Y12	3-Y12 2LEG-Y10@100 C/C 3-Y12
PB2	230x450	5-Y12 2LEG-Y8@150 C/C 5-Y12	5-Y12 2LEG-Y8@100 C/C 5-Y12
PB3	230x450	4-Y16 2LEG-Y8@150 C/C 5-Y16	4-Y16 2LEG-Y8@100 C/C 5-Y16

* For staircase details Refer DRAWING NO: TNUHDB/CH/RT/10/01/10; Sheet No: 01/02.

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

NOTES:

1. ALL DIMENSIONS ARE IN "mm" AND LEVELS ARE IN "m".
2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,
   PILE : 75mm
   PILE CAP : 75mm (BOTTOM)
   PILE CAP : 50mm (SIDES)
   COLUMN/WALL : 40mm
   BEAM : 30mm
   SLAB : 25mm.
5. HIGH YIELD STRENGTH DEFORMED BARS OF FE 500 D CONFORMING TO IS 1786:2008 SHALL BE USED.
6. "Y" DENOTES FOR HYSD BAR IN mm.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+09 FLOOR ONLY.
8. STRIKING OF FORM WORK SHALL BE IN ACCORDANCE WITH IS456:2000 (R-2021).
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REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
CHENNAI, TAMILNADU - 600 036.

STRUCTURAL CONSULTANT:

CENTRE FOR URBANIZATION BUILDINGS & ENVIRONMENT
MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

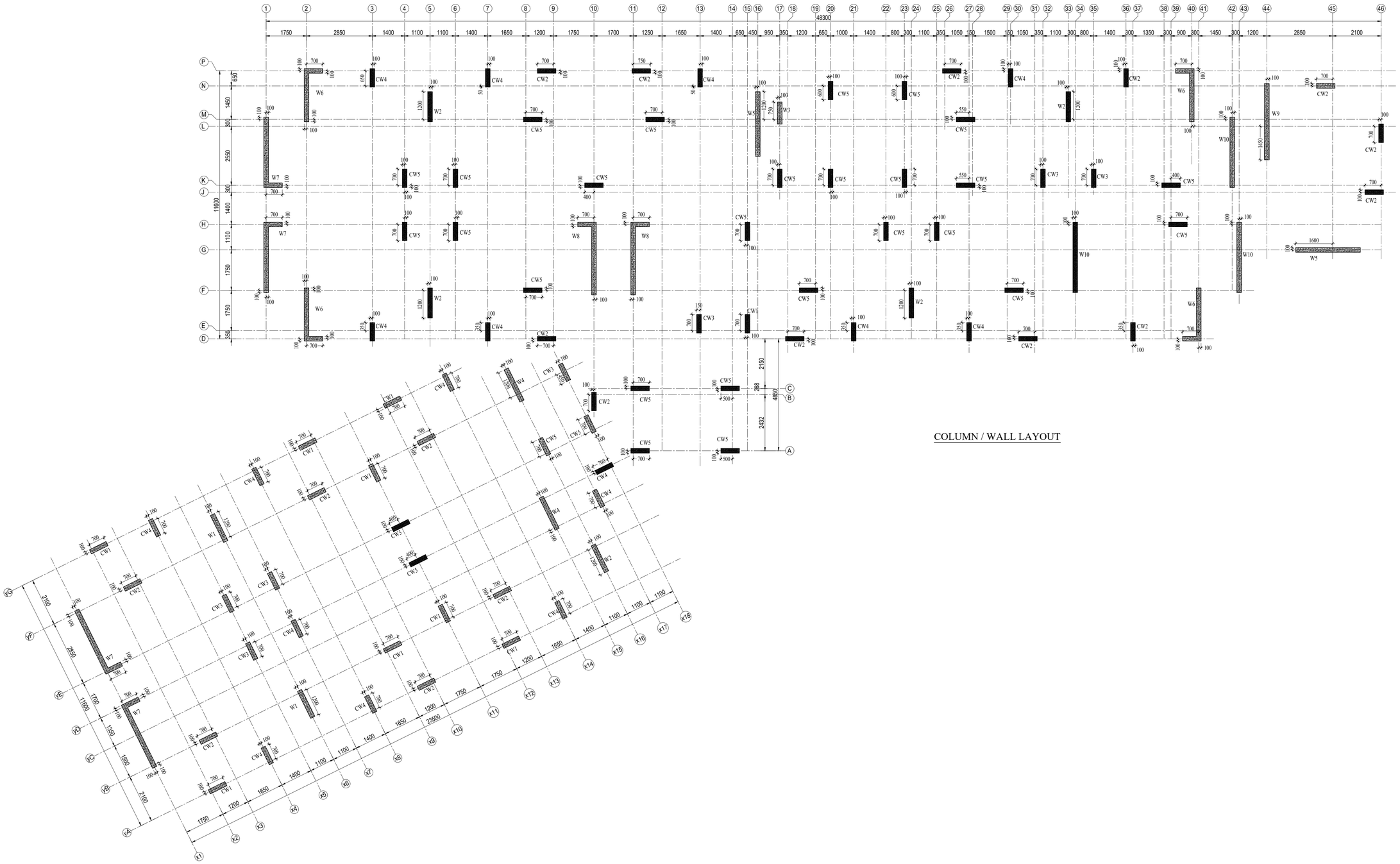
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DRAWING TITLE:

PILE CAP CUM PLINTH BEAM LAYOUT & DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/01	SHEET NO : 04 OF 04	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		SHEET SIZE: A1
PREPARED BY: K.B.M	DRAWN BY: D.K.J	
CHECKED BY:	APPROVED BY:	

NOTE: ALL DIMENSIONS ARE IN mm



* For Column / wall section details Refer the Cross-Section on DRAWING NO: TNUHDB/CH/RT/10/01/02; Sheet No: 02/03 & 03/03.

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

N

NOTES:

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PRINCIPAL DEVELOPER:

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NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
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STRUCTURAL CONSULTANT:

CENTRE FOR URBANIZATION BUILDINGS & ENVIRONMENT
MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

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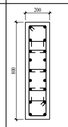
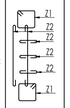
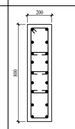
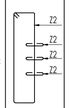
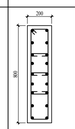
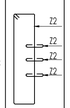
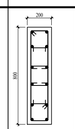
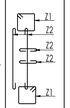
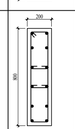
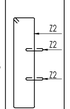
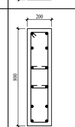
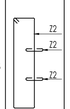
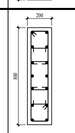
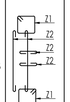
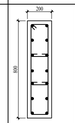
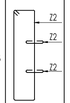
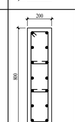
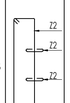
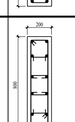
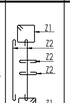
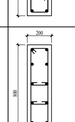
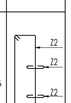
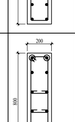
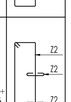
COLUMN / WALL LAYOUT

DRAWING NO : TNUHDB/CH/RT/10/01/02		SHEET NO : 01 OF 03	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100	SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION			
PREPARED BY: K.B.M		DRAWN BY: D.K.J	
CHECKED BY:		APPROVED BY:	

NOTE: ALL DIMENSIONS ARE IN mm

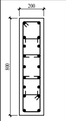
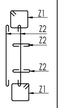
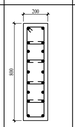
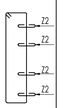
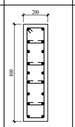
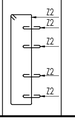
M30 : Fe500D , COVER = 40mm

COLUMN / WALL DETAILS

ID	SIZE & LEVEL	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
CW1	200 x 800 Foundation TO 2nd floor		● 18-Y12		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 800 3rd floor TO 5th floor		● 18-Y12		
	200 x 800 6th floor TO Top		● 18-Y12		
CW2	200 x 800 Foundation TO 2nd floor		● 12-Y16		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 800 3rd floor TO 5th floor		● 12-Y16		
	200 x 800 6th floor TO Top		● 12-Y16		
CW3	200 x 800 Foundation TO 2nd floor		● 14-Y16		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 800 3rd floor TO 5th floor		● 14-Y16		
	200 x 800 6th floor TO Top		● 14-Y16		
CW4	200 x 800 Foundation TO 2nd floor		● 12-Y16		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 800 3rd floor TO 5th floor		● 12-Y16		
	200 x 800 6th floor TO Top		●4-Y20+ ● 8-Y16		

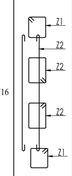
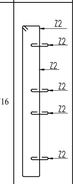
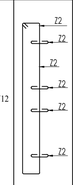
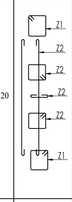
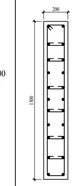
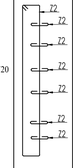
M30 : Fe500D , COVER = 40mm

COLUMN / WALL DETAILS

ID	SIZE & LEVEL	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
CW5	200 x 800 Foundation TO 2nd floor		● 18-Y20		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 800 3rd floor TO 5th floor		● 18-Y20		
	200 x 800 6th floor TO Top		● 18-Y16		

M30 : Fe500D , COVER = 40mm

COLUMN / WALL DETAILS

ID	SIZE & LEVEL	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
W1	200 x 1300 Foundation TO 2nd floor		● 16-Y16		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 1300 3rd floor TO 5th floor		● 16-Y16		
	200 x 1300 6th floor TO Top		● 16-Y12		
W2	200 x 1300 Foundation TO 2nd floor		● 22-Y20		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 1300 3rd floor TO 5th floor		● 22-Y20		
	200 x 1300 6th floor TO Top		● 22-Y16		

M30 : Fe500D , COVER = 40mm

COLUMN / WALL DETAILS

ID	SIZE & LEVEL	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
W3	200 x 950 Foundation TO 2nd floor		● 16-Y16		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 950 3rd floor TO 5th floor		● 16-Y16		
	200 x 950 6th floor TO Top		● 16-Y12		
W4	200 x 1550 Foundation TO 2nd floor		● 20-Y20		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 1550 3rd floor TO 5th floor		● 20-Y16		
	200 x 1550 6th floor TO Top		● 20-Y16		

M30 : Fe500D , COVER = 40mm

COLUMN / WALL DETAILS

ID		CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
W5	200 x 2800 Foundation TO 2nd floor		◉16-Y25+ ●54-Y20		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 2800 3rd floor TO 5th floor		● 54-Y16		
	200 x 2800 6th floor TO Top		● 54-Y16		

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

N

NOTES:

1. ALL DIMENSIONS ARE IN "mm" AND LEVELS ARE IN "m".
2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,
   - PILE : 75mm
   - PILE CAP : 75mm (BOTTOM)
   - PILE CAP : 50mm (SIDES)
   - COLUMN/WALL : 40mm
   - BEAM : 30mm
   - SLAB : 25mm.
5. HIGH YIELD STRENGTH DEFORMED BARS OF FE 500 D CONFORMING TO IS 1786:2008 SHALL BE USED.
6. "Y" DENOTES FOR HYSD BAR IN mm.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+09 FLOOR ONLY.
8. STRIKING OF FORM WORK SHALL BE IN ACCORDANCE WITH IS456:2000 (R-2021).
9. ANY DISCREPANCY IN DRAWING SHALL BE NOTIFIED TO THE STRUCTURAL CONSULTANT BEFORE START THE WORK.
10. THE BUILDING IS DESIGNED TO CARRY 6.5 kN/ m² INFILL WALL (AAC) ONLY. CONSTRUCTION HAS TO BE DONE WITH AAC BLOCKS ONLY. FOR THICKNESS OF WALL REFER ARCHITECTURAL DRAWING.
11. DO NOT SCALE THIS DRAWING.
12. NO CHANGES SHALL BE MADE WITHOUT THE CONSENT OF STRUCTURAL CONSULTANT.
13. PROVIDE SPACER BAR AT 900mm INTERVALS.
14. COLUMN / WALL VERTICALITY, ORIENTATION, CENTER ALIGNMENT WITH FOUNDATION ARE VERY IMPORTANT FOR STRUCTURAL STABILITY.
15. ONUS AND QUALITY OF CONSTRUCTION LIES WITH CONTRACTOR / CLIENT.
16. STRUCTURAL CONSULTANT IS NOT LIABLE FOR QUALITY OF CONSTRUCTION/PERIODICAL INSPECTION OF EXECUTION, UNLESS ANY SEPARATE COMMERCIAL AGREEMENT & MoU IS EXECUTED.

REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
CHENNAI, TAMILNADU - 600 036.

STRUCTURAL CONSULTANT:

CENTRE FOR URBANIZATION BUILDINGS & ENVIRONMENT
MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

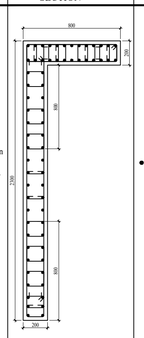
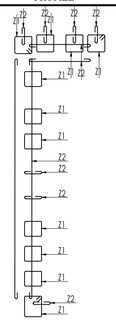
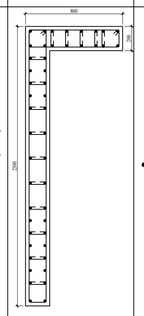
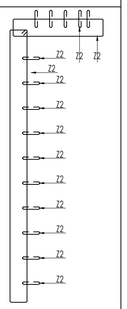
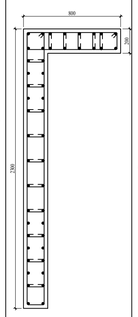
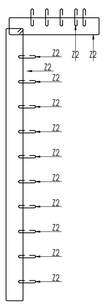
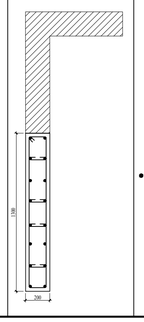
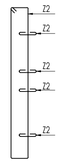
DRAWING TITLE:
COLUMN / WALL DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/02	SHEET NO : 02 OF 03	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100	SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		
PREPARED BY: K.B.M	DRAWN BY: D.K.J	
CHECKED BY:	APPROVED BY:	

NOTE: ALL DIMENSIONS ARE IN mm

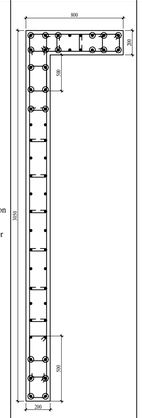
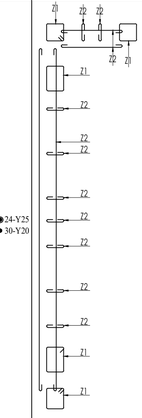
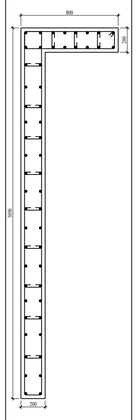
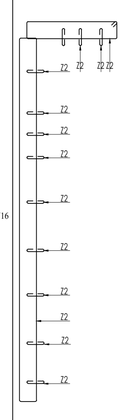
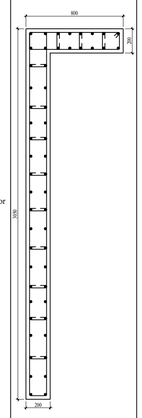
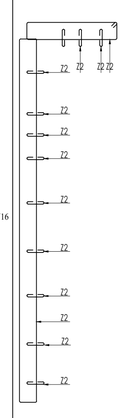
M30 : Fe500D , COVER = 40mm

COLUMN DETAILS

ID	LEVEL	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
W6	Foundation TO 2nd floor		● 68-Y20		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	3rd floor TO 5th floor		● 48-Y20		
	6th floor TO Terrace		● 48-Y20		
	Terrace TO Top		● 16-Y16		

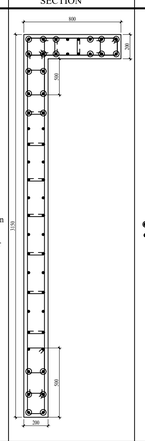
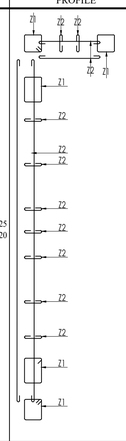
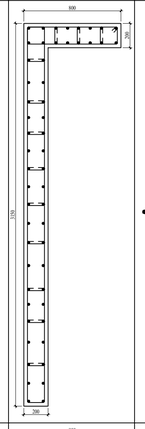
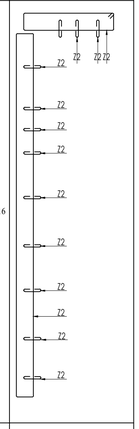
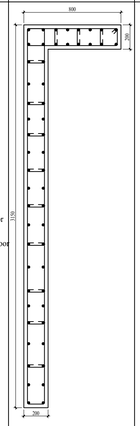
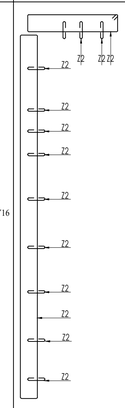
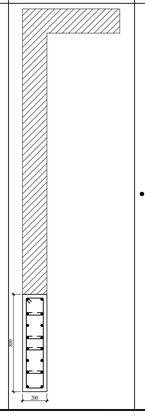
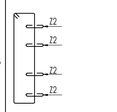
M30 : Fe500D , COVER = 40mm

COLUMN DETAILS

ID	LEVEL	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
W7	Foundation TO 2nd floor		● 24-Y25 ● 30-Y20		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	3rd floor TO 5th floor		● 54-Y16		
	6th floor TO Top		● 54-Y16		

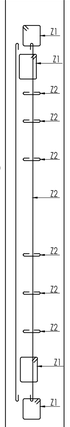
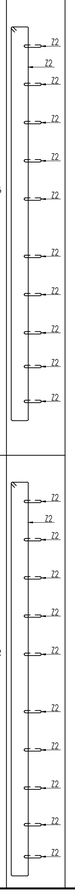
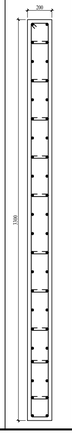
M30 : Fe500D , COVER = 40mm

COLUMN DETAILS

ID	LEVEL	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
W8	Foundation TO 2nd floor		● 24-Y25 ● 30-Y20		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	3rd floor TO 5th floor		● 54-Y16		
	6th floor TO Terrace floor		● 54-Y16		
	Terrace TO Top		● 16-Y16		

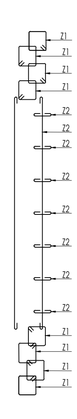
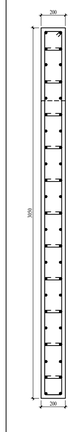
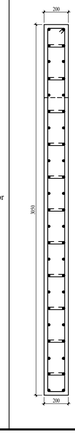
M30 : Fe500D , COVER = 40mm

COLUMN / WALL DETAILS

ID	LEVEL	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
W9	200 x 2800 Foundation TO 2nd floor		● 44-Y20		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	200 x 2800 3rd floor TO 5th floor		● 44-Y16		
	200 x 2800 6th floor TO Top		● 44-Y12		

M30 : Fe500D , COVER = 40mm

COLUMN DETAILS

ID	LEVEL	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
W10	Foundation TO 2nd floor		● 46-Y20		Y8 @100C/C (Z1 LINKS) Y8 @150C/C (Z2 LINKS)
	3rd floor TO 5th floor		● 46-Y16		
	6th floor TO Top		● 46-Y12		

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

N

NOTES:

1. ALL DIMENSIONS ARE IN "mm" AND LEVELS ARE IN "m".
2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,
   - PILE : 75mm
   - PILE CAP : 75mm (BOTTOM)
   - PILE CAP : 50mm (SIDES)
   - COLUMN/WALL : 40mm
   - BEAM : 30mm
   - SLAB : 25mm.
5. HIGH YIELD STRENGTH DEFORMED BARS OF FE 500 D CONFORMING TO IS 1786:2008 SHALL BE USED.
6. "Y" DENOTES FOR HYSD BAR IN mm.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+09 FLOOR ONLY.
8. STRIKING OF FORM WORK SHALL BE IN ACCORDANCE WITH IS456:2000 (R-2021).
9. ANY DISCREPANCY IN DRAWING SHALL BE NOTIFIED TO THE STRUCTURAL CONSULTANT BEFORE START THE WORK.
10. THE BUILDING IS DESIGNED TO CARRY 6.5 kN/ m² INFILL WALL (AAC) ONLY. CONSTRUCTION HAS TO BE DONE WITH AAC BLOCKS ONLY. FOR THICKNESS OF WALL REFER ARCHITECTURAL DRAWING.
11. DO NOT SCALE THIS DRAWING.
12. NO CHANGES SHALL BE MADE WITHOUT THE CONSENT OF STRUCTURAL CONSULTANT.
13. PROVIDE SPACER BAR AT 900mm INTERVALS.
14. COLUMN / WALL VERTICALITY, ORIENTATION, CENTER ALIGNMENT WITH FOUNDATION ARE VERY IMPORTANT FOR STRUCTURAL STABILITY.
15. ONUS AND QUALITY OF CONSTRUCTION LIES WITH CONTRACTOR / CLIENT.
16. STRUCTURAL CONSULTANT IS NOT LIABLE FOR QUALITY OF CONSTRUCTION/PERIODICAL INSPECTION OF EXECUTION, UNLESS ANY SEPARATE COMMERCIAL AGREEMENT & MoU IS EXECUTED.

REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
CHENNAI, TAMILNADU - 600 036.

STRUCTURAL CONSULTANT:

CENTRE FOR URBANIZATION BUILDINGS & ENVIRONMENT
MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWING TITLE:

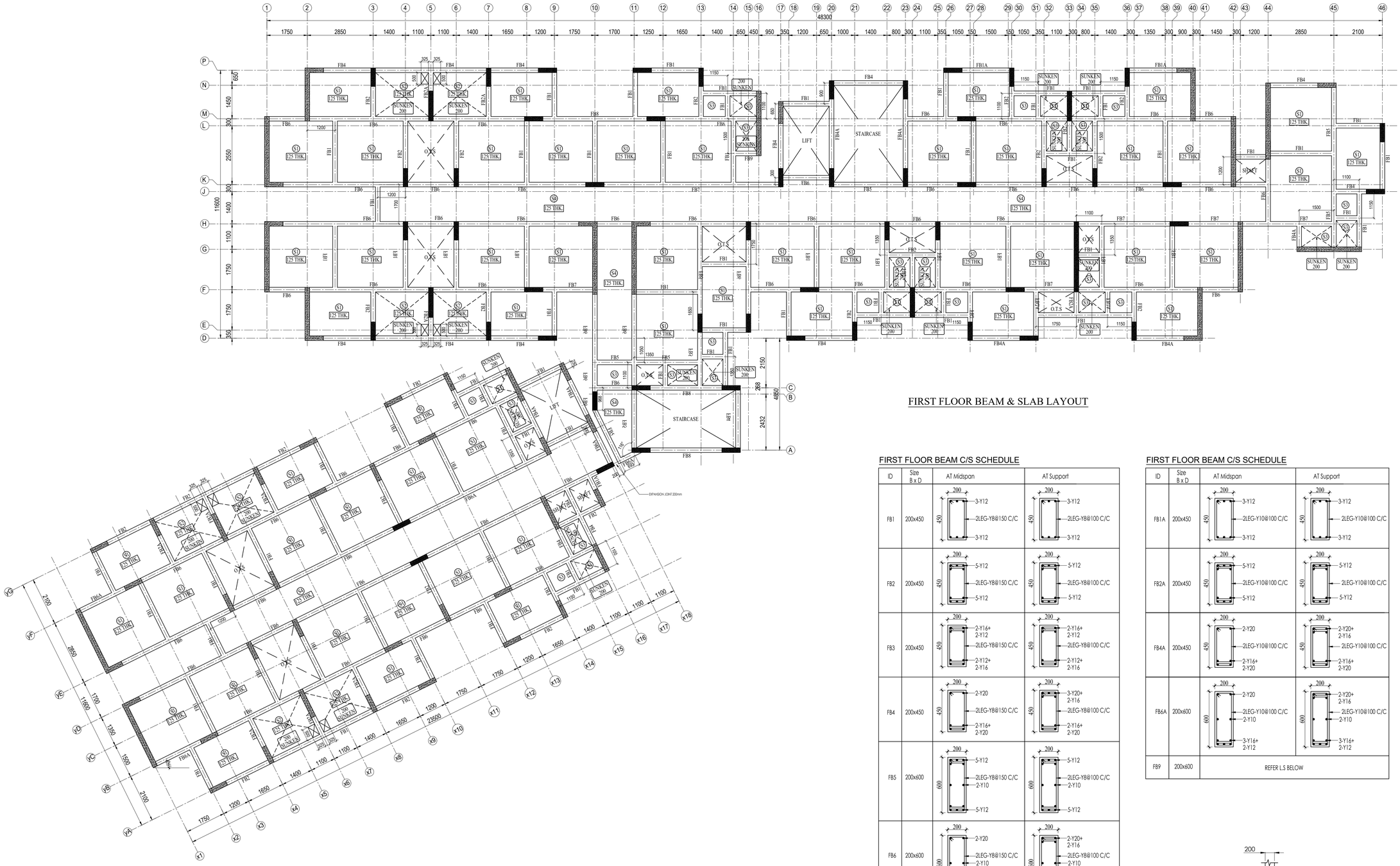
COLUMN / WALL DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/02		SHEET NO : 03 OF 03	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100	SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION			
PREPARED BY: K.B.M		DRAWN BY: D.K.J	
CHECKED BY:		APPROVED BY:	

NOTE: ALL DIMENSIONS ARE IN mm

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION



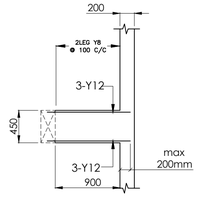
FIRST FLOOR BEAM & SLAB LAYOUT

FIRST FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
FB1	200x450	3-Y12 / 2LEG-Y8@150 C/C / 3-Y12	3-Y12 / 2LEG-Y8@100 C/C / 3-Y12
FB2	200x450	5-Y12 / 2LEG-Y8@150 C/C / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 5-Y12
FB3	200x450	2-Y16+ 2-Y12 / 2LEG-Y8@150 C/C / 2-Y12+ 2-Y16	2-Y16+ 2-Y12 / 2LEG-Y8@100 C/C / 2-Y12+ 2-Y16
FB4	200x450	2-Y20 / 2LEG-Y8@150 C/C / 2-Y16+ 2-Y20	3-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y16+ 2-Y20
FB5	200x600	5-Y12 / 2LEG-Y8@150 C/C / 2-Y10 / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 2-Y10 / 5-Y12
FB6	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB7	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y20+ 2-Y16	3-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y20+ 2-Y16
FB8	200x600	3-Y20 / 2LEG-Y10@75 C/C / 2-Y10 / 3-Y20	3-Y20+ 2-Y20 / 2LEG-Y10@75 C/C / 2-Y10 / 3-Y20+ 2-Y20

FIRST FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
FB1A	200x450	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12
FB2A	200x450	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12
FB4A	200x450	2-Y20 / 2LEG-Y10@100 C/C / 2-Y16+ 2-Y20	2-Y20+ 2-Y16 / 2LEG-Y10@100 C/C / 2-Y16+ 2-Y20
FB6A	200x600	2-Y20 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB9	200x600	REFER L.S BELOW	



L.S OF BEAM - FB9

FIRST FLOOR SLAB SCHEDULE

S.NO	SLAB ID	THICK (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
			SHORTER DIRECTION	LONGER DIRECTION	SHORTER DIRECTION EXTRA BAR - SUPPORT	LONGER DIRECTION EXTRA BAR - SUPPORT
1.	S1–TW	125	Y8 @ 125 C/C	Y8 @ 125 C/C	Y8 @ 250 C/C	Y8 @ 250 C/C
2.	S2	125	Y8 @ 125 C/C (T&B)	Y8 @ 125 C/C (T&B)	–	–
3.	S3	125	Y8 @ 150 C/C (T&B)	Y8 @ 150 C/C (T&B)	–	–
4.	S4–OW	125	Y8 @ 150 C/C	Y8 @ 175 C/C	Y8 @ 300 C/C	–

(*)NOTE:
TW - TWO WAY SLAB
OW - ONE WAY SLAB
T&B - TOP & BOTTOM

NOTES:

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3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,
   PILE : 75mm
   PILE CAP : 75mm (BOTTOM)
   PILE CAP : 50mm (SIDES)
   COLUMN/WALL : 40mm
   BEAM : 30mm
   SLAB : 25mm.
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PRINCIPAL DEVELOPER:

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NO 5, KAMARAJAR SALAI, CHEPAUK,
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PROOF CHECKING CONSULTANT:

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MODULE NO. 6C, PHASE II BUILDING,
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DRAWING TITLE:

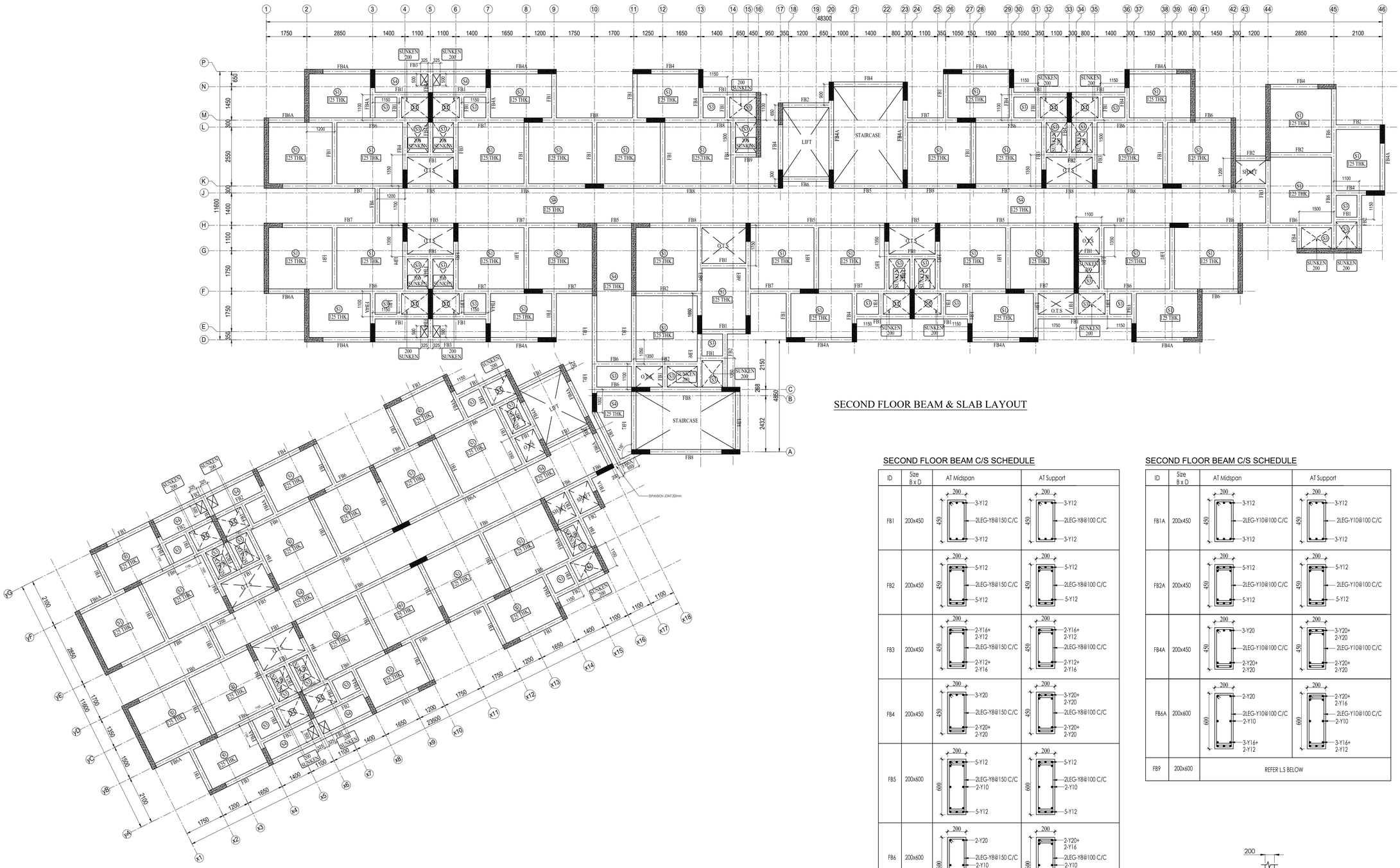
FIRST FLOOR BEAM, SLAB LAYOUT & DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/03		SHEET NO : 01 OF 01 / REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100 / SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		
PREPARED BY: K.B.M		DRAWN BY: D.K.J
CHECKED BY:		APPROVED BY:

NOTE: ALL DIMENSIONS ARE IN mm

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION



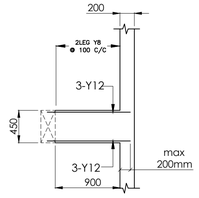
SECOND FLOOR BEAM & SLAB LAYOUT

SECOND FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
FB1	200x450	3-Y12 / 2LEG-Y8@150 C/C / 3-Y12	3-Y12 / 2LEG-Y8@100 C/C / 3-Y12
FB2	200x450	5-Y12 / 2LEG-Y8@150 C/C / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 5-Y12
FB3	200x450	2-Y16+ 2-Y12 / 2LEG-Y8@150 C/C / 2-Y12+ 2-Y16	2-Y16+ 2-Y12 / 2LEG-Y8@100 C/C / 2-Y12+ 2-Y16
FB4	200x450	3-Y20 / 2LEG-Y8@150 C/C / 2-Y20+ 2-Y20	3-Y20+ 2-Y20 / 2LEG-Y8@100 C/C / 2-Y20+ 2-Y20
FB5	200x600	5-Y12 / 2LEG-Y8@150 C/C / 2-Y10 / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 2-Y10 / 5-Y12
FB6	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB7	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y16+ 2-Y12	3-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB8	200x600	3-Y20 / 2LEG-Y10@75 C/C / 2-Y10 / 3-Y20	3-Y20+ 2-Y20 / 2LEG-Y10@75 C/C / 2-Y10 / 3-Y20+ 2-Y20

SECOND FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
FB1A	200x450	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12
FB2A	200x450	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12
FB4A	200x450	3-Y20 / 2LEG-Y10@100 C/C / 2-Y20+ 2-Y20	3-Y20+ 2-Y20 / 2LEG-Y10@100 C/C / 2-Y20+ 2-Y20
FB6A	200x600	2-Y20 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB9	200x600	REFER L.S BELOW	



L.S OF BEAM - FB9

SECOND FLOOR SLAB SCHEDULE

S.NO	SLAB ID	THICK (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
			SHORTER DIRECTION	LONGER DIRECTION	SHORTER DIRECTION EXTRA BAR - SUPPORT	LONGER DIRECTION EXTRA BAR - SUPPORT
1.	S1–TW	125	Y8 @ 125 C/C	Y8 @ 125 C/C	Y8 @ 250 C/C	Y8 @ 250 C/C
2.	S2	125	Y8 @ 125 C/C (T&B)	Y8 @ 125 C/C (T&B)	–	–
3.	S3	125	Y8 @ 150 C/C (T&B)	Y8 @ 150 C/C (T&B)	–	–
4.	S4–OW	125	Y8 @ 150 C/C	Y8 @ 175 C/C	Y8 @ 300 C/C	–

(*)NOTE:
TW - TWO WAY SLAB
OW - ONE WAY SLAB
T&B - TOP & BOTTOM

NOTES:

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4. CLEAR COVER TO THE REINFORCEMENT FOR,
   - PILE : 75mm
   - PILE CAP : 75mm (BOTTOM)
   - PILE CAP : 50mm (SIDES)
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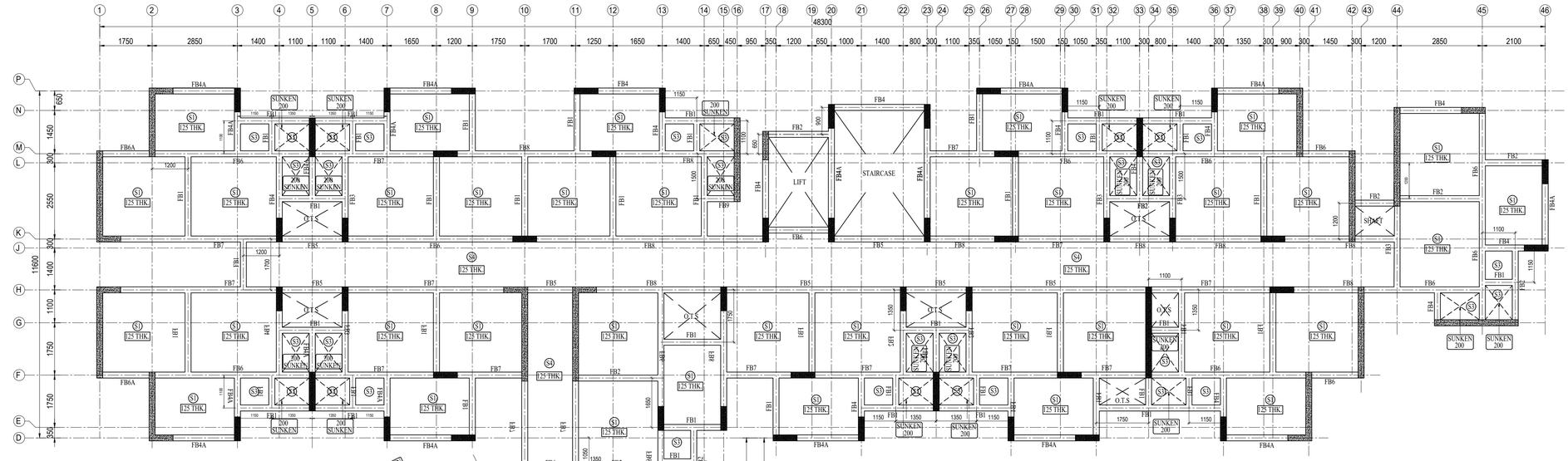
SECOND FLOOR BEAM, SLAB LAYOUT & DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/04		SHEET NO : 01 OF 01 / REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100 / SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		
PREPARED BY: K.B.M		DRAWN BY: D.K.J
CHECKED BY:		APPROVED BY:

NOTE: ALL DIMENSIONS ARE IN mm

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION



3rd TO 5th FLOOR BEAM & SLAB LAYOUT

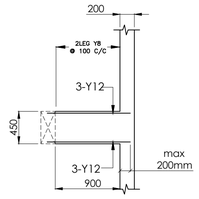


3rd TO 5th FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
FB1	200x450	3-Y12 / 2LEG-Y8@150 C/C / 3-Y12	3-Y12 / 2LEG-Y8@100 C/C / 3-Y12
FB2	200x450	5-Y12 / 2LEG-Y8@150 C/C / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 5-Y12
FB3	200x450	2-Y16+ 2-Y12 / 2LEG-Y8@150 C/C / 2-Y12+ 2-Y16	2-Y16+ 2-Y12 / 2LEG-Y8@100 C/C / 2-Y12+ 2-Y16
FB4	200x450	3-Y20 / 2LEG-Y8@150 C/C / 2-Y20+ 2-Y20	3-Y20+ 2-Y20 / 2LEG-Y8@100 C/C / 2-Y20+ 2-Y20
FB5	200x600	5-Y12 / 2LEG-Y8@150 C/C / 2-Y10 / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 2-Y10 / 5-Y12
FB6	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
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3rd TO 5th FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
FB1A	200x450	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12
FB2A	200x450	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12
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FB6A	200x600	2-Y20 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB9	200x600	REFER L.S BELOW	



L.S OF BEAM - FB9

3rd TO 5th FLOOR SLAB SCHEDULE

S.NO	SLAB ID	THICK (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
			SHORTER DIRECTION	LONGER DIRECTION	SHORTER DIRECTION EXTRA BAR - SUPPORT	LONGER DIRECTION EXTRA BAR - SUPPORT
1.	S1–TW	125	Y8 @ 125 C/C	Y8 @ 125 C/C	Y8 @ 250 C/C	Y8 @ 250 C/C
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3.	S3	125	Y8 @ 150 C/C (T&B)	Y8 @ 150 C/C (T&B)	–	–
4.	S4–OW	125	Y8 @ 150 C/C	Y8 @ 175 C/C	Y8 @ 300 C/C	–

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2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,
   - PILE : 75mm
   - PILE CAP : 75mm (BOTTOM)
   - PILE CAP : 50mm (SIDES)
   - COLUMN/WALL : 40mm
   - BEAM : 30mm
   - SLAB : 25mm.
5. HIGH YIELD STRENGTH DEFORMED BARS OF FE 500 D CONFORMING TO IS 1786:2008 SHALL BE USED.
6. "Y" DENOTES FOR HYSD BAR IN mm.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+09 FLOOR ONLY.
8. STRIKING OF FORM WORK SHALL BE IN ACCORDANCE WITH IS456:2000 (R-2021).
9. ANY DISCREPANCY IN DRAWING SHALL BE NOTIFIED TO THE STRUCTURAL CONSULTANT BEFORE START THE WORK.
10. THE BUILDING IS DESIGNED TO CARRY 6.5 kN/ m² INFILL WALL (AAC) ONLY. CONSTRUCTION HAS TO BE DONE WITH AAC BLOCKS ONLY. FOR THICKNESS OF WALL REFER ARCHITECTURAL DRAWING.
11. DO NOT SCALE THIS DRAWING.
12. NO CHANGES SHALL BE MADE WITHOUT THE CONSENT OF STRUCTURAL CONSULTANT.
13. PROVIDE SPACER BAR AT 900mm INTERVALS.
14. COLUMN / WALL VERTICALITY, ORIENTATION, CENTER ALIGNMENT WITH FOUNDATION ARE VERY IMPORTANT FOR STRUCTURAL STABILITY.
15. ONUS AND QUALITY OF CONSTRUCTION LIES WITH CONTRACTOR / CLIENT.
16. STRUCTURAL CONSULTANT IS NOT LIABLE FOR QUALITY OF CONSTRUCTION/PERIODICAL INSPECTION OF EXECUTION, UNLESS ANY SEPARATE COMMERCIAL AGREEMENT & MoU IS EXECUTED.

REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
CHENNAI, TAMILNADU - 600 036.

STRUCTURAL CONSULTANT:

CENTRE FOR URBANIZATION BUILDINGS & ENVIRONMENT
MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWING TITLE:

3rd TO 5th FIFTH FLOOR BEAM, SLAB LAYOUT & DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/05		SHEET NO : 01 OF 01 / REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100 / SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		
PREPARED BY: K.B.M		DRAWN BY: D.K.J
CHECKED BY:		APPROVED BY:

NOTE: ALL DIMENSIONS ARE IN mm



SEVENTH FLOOR BEAM WITH SLAB LAYOUT

SEVENTH FLOOR SLAB SCHEDULE

S.NO	SLAB ID	THICK (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
			SHORTER DIRECTION	LONGER DIRECTION	SHORTER DIRECTION EXTRA BAR - SUPPORT	LONGER DIRECTION EXTRA BAR - SUPPORT
1.	S1–TW	125	Y8 @ 125 C/C	Y8 @ 125 C/C	Y8 @ 250 C/C	Y8 @ 250 C/C
2.	S2	125	Y8 @ 125 C/C (T&B)	Y8 @ 125 C/C (T&B)	–	–
3.	S3	125	Y8 @ 150 C/C (T&B)	Y8 @ 150 C/C (T&B)	–	–
4.	S4–OW	125	Y8 @ 150 C/C	Y8 @ 175 C/C	Y8 @ 300 C/C	–

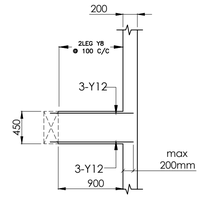
(*)NOTE:
TW - TWO WAY SLAB
OW - ONE WAY SLAB
T&B - TOP & BOTTOM

SEVENTH FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
FB1	200x450	3-Y12 / 2LEG-Y8@150 C/C / 3-Y12	3-Y12 / 2LEG-Y8@100 C/C / 3-Y12
FB2	200x450	5-Y12 / 2LEG-Y8@150 C/C / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 5-Y12
FB3	200x450	2-Y16+ 2-Y12 / 2LEG-Y8@150 C/C / 2-Y12+ 2-Y16	2-Y16+ 2-Y12 / 2LEG-Y8@100 C/C / 2-Y12+ 2-Y16
FB4	200x450	3-Y20 / 2LEG-Y8@150 C/C / 2-Y20+ 2-Y20	3-Y20+ 2-Y20 / 2LEG-Y8@100 C/C / 2-Y20+ 2-Y20
FB5	200x600	5-Y12 / 2LEG-Y8@150 C/C / 2-Y10 / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 2-Y10 / 5-Y12
FB6	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB7	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y16+ 2-Y12	3-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB8	200x600	3-Y20 / 2LEG-Y10@75 C/C / 2-Y10 / 3-Y20	3-Y20+ 2-Y20 / 2LEG-Y10@75 C/C / 2-Y10 / 3-Y20+ 2-Y20

SEVENTH FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
FB1A	200x450	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12
FB2A	200x450	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12
FB4A	200x450	3-Y20 / 2LEG-Y10@100 C/C / 2-Y20+ 2-Y20	3-Y20+ 2-Y20 / 2LEG-Y10@100 C/C / 2-Y20+ 2-Y20
FB6A	200x600	2-Y20 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB9	200x600	REFER L.S BELOW	



L.S OF BEAM - FB9

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

NOTES:

1. ALL DIMENSIONS ARE IN "mm" AND LEVELS ARE IN "m".
2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,
   - PILE : 75mm
   - PILE CAP : 75mm (BOTTOM)
   - PILE CAP : 50mm (SIDES)
   - COLUMN/WALL : 40mm
   - BEAM : 30mm
   - SLAB : 25mm.
5. HIGH YIELD STRENGTH DEFORMED BARS OF FE 500 D CONFORMING TO IS 1786:2008 SHALL BE USED.
6. "Y" DENOTES FOR HYSD BAR IN mm.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+09 FLOOR ONLY.
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11. DO NOT SCALE THIS DRAWING.
12. NO CHANGES SHALL BE MADE WITHOUT THE CONSENT OF STRUCTURAL CONSULTANT.
13. PROVIDE SPACER BAR AT 900mm INTERVALS.
14. COLUMN / WALL VERTICALITY, ORIENTATION, CENTER ALIGNMENT WITH FOUNDATION ARE VERY IMPORTANT FOR STRUCTURAL STABILITY.
15. ONUS AND QUALITY OF CONSTRUCTION LIES WITH CONTRACTOR / CLIENT.
16. STRUCTURAL CONSULTANT IS NOT LIABLE FOR QUALITY OF CONSTRUCTION/PERIODICAL INSPECTION OF EXECUTION, UNLESS ANY SEPARATE COMMERCIAL AGREEMENT & MoU IS EXECUTED.

REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
CHENNAI, TAMILNADU - 600 036.

STRUCTURAL CONSULTANT:

CENTRE FOR URBANIZATION BUILDINGS & ENVIRONMENT
MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWING TITLE:

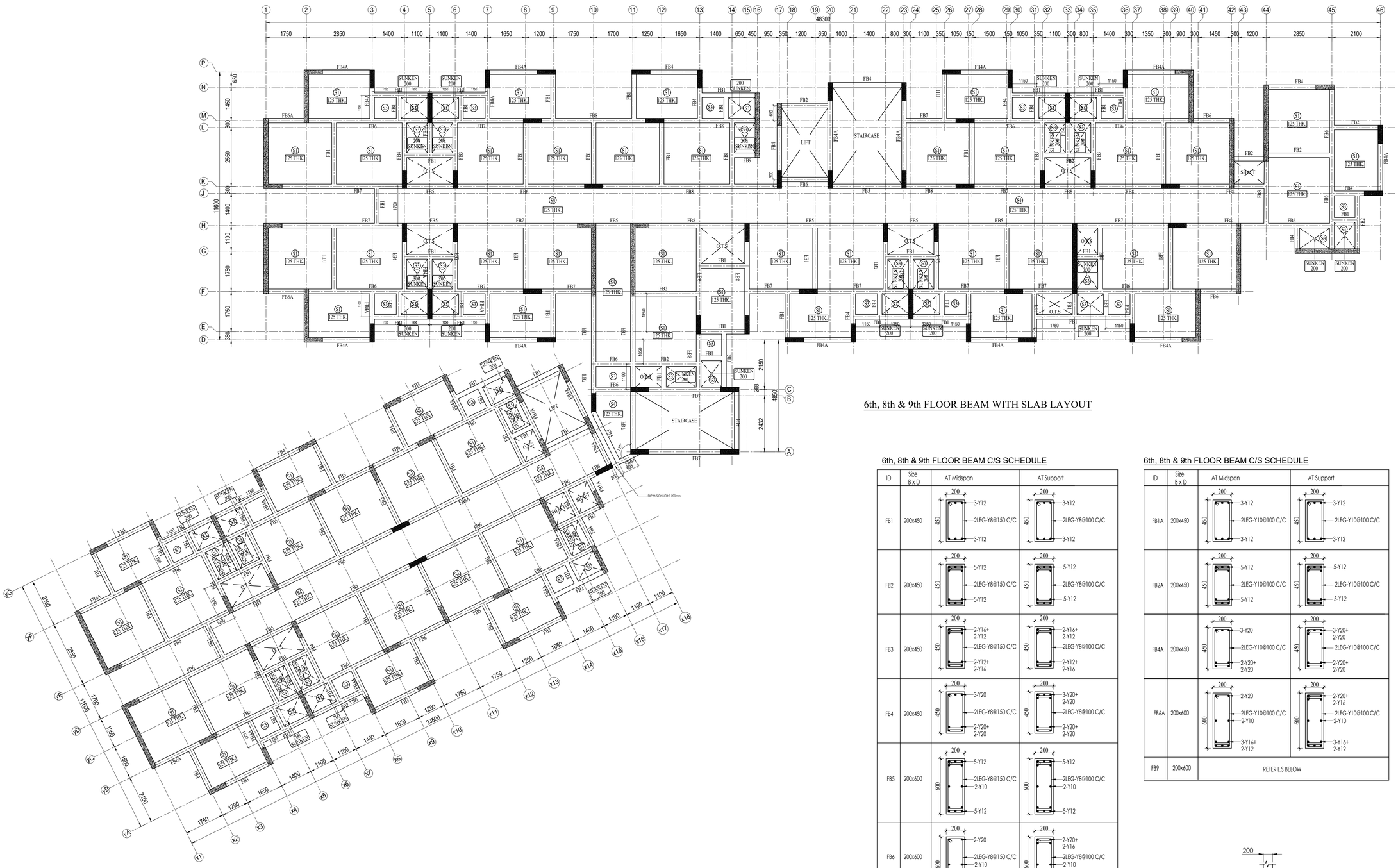
SEVENTH FLOOR BEAM, SLAB LAYOUT & DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/07	SHEET NO : 01 OF 01	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		SHEET SIZE: A1
PREPARED BY: K.B.M	DRAWN BY: D.K.J	
CHECKED BY:	APPROVED BY:	

NOTE: ALL DIMENSIONS ARE IN mm

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION



6th, 8th & 9th FLOOR BEAM WITH SLAB LAYOUT

NOTES:

1. ALL DIMENSIONS ARE IN "mm" AND LEVELS ARE IN "m".
2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,
   - PILE : 75mm
   - PILE CAP : 75mm (BOTTOM)
   - PILE CAP : 50mm (SIDES)
   - COLUMN/WALL : 40mm
   - BEAM : 30mm
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6th, 8th & 9th FLOOR SLAB SCHEDULE

S.NO	SLAB ID	THICK (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
			SHORTER DIRECTION	LONGER DIRECTION	SHORTER DIRECTION EXTRA BAR - SUPPORT	LONGER DIRECTION EXTRA BAR - SUPPORT
1.	S1–TW	125	Y8 @ 125 C/C	Y8 @ 125 C/C	Y8 @ 250 C/C	Y8 @ 250 C/C
2.	S2	125	Y8 @ 125 C/C (T&B)	Y8 @ 125 C/C (T&B)	–	–
3.	S3	125	Y8 @ 150 C/C (T&B)	Y8 @ 150 C/C (T&B)	–	–
4.	S4–OW	125	Y8 @ 150 C/C	Y8 @ 175 C/C	Y8 @ 300 C/C	–

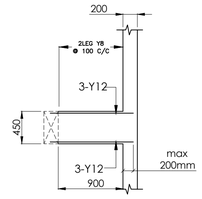
(*)NOTE:
TW - TWO WAY SLAB
OW - ONE WAY SLAB
T&B - TOP & BOTTOM

6th, 8th & 9th FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
FB1	200x450	3-Y12 / 2LEG-Y8@150 C/C / 3-Y12	3-Y12 / 2LEG-Y8@100 C/C / 3-Y12
FB2	200x450	5-Y12 / 2LEG-Y8@150 C/C / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 5-Y12
FB3	200x450	2-Y16+ 2-Y12 / 2LEG-Y8@150 C/C / 2-Y12+ 2-Y16	2-Y16+ 2-Y12 / 2LEG-Y8@100 C/C / 2-Y12+ 2-Y16
FB4	200x450	3-Y20 / 2LEG-Y8@150 C/C / 2-Y20+ 2-Y20	3-Y20+ 2-Y20 / 2LEG-Y8@100 C/C / 2-Y20+ 2-Y20
FB5	200x600	5-Y12 / 2LEG-Y8@150 C/C / 2-Y10 / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 2-Y10 / 5-Y12
FB6	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB7	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y16+ 2-Y12	3-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB8	200x600	3-Y20 / 2LEG-Y10@75 C/C / 2-Y10 / 3-Y20	3-Y20+ 2-Y20 / 2LEG-Y10@75 C/C / 2-Y10 / 3-Y20+ 2-Y20

6th, 8th & 9th FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
FB1A	200x450	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12
FB2A	200x450	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12
FB4A	200x450	3-Y20 / 2LEG-Y10@100 C/C / 2-Y20+ 2-Y20	3-Y20+ 2-Y20 / 2LEG-Y10@100 C/C / 2-Y20+ 2-Y20
FB6A	200x600	2-Y20 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
FB9	200x600	REFER L.S BELOW	



L.S OF BEAM - FB9

REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
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PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
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STRUCTURAL CONSULTANT:

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MODULE NO. 6C, PHASE II BUILDING,
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PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

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THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWING TITLE:

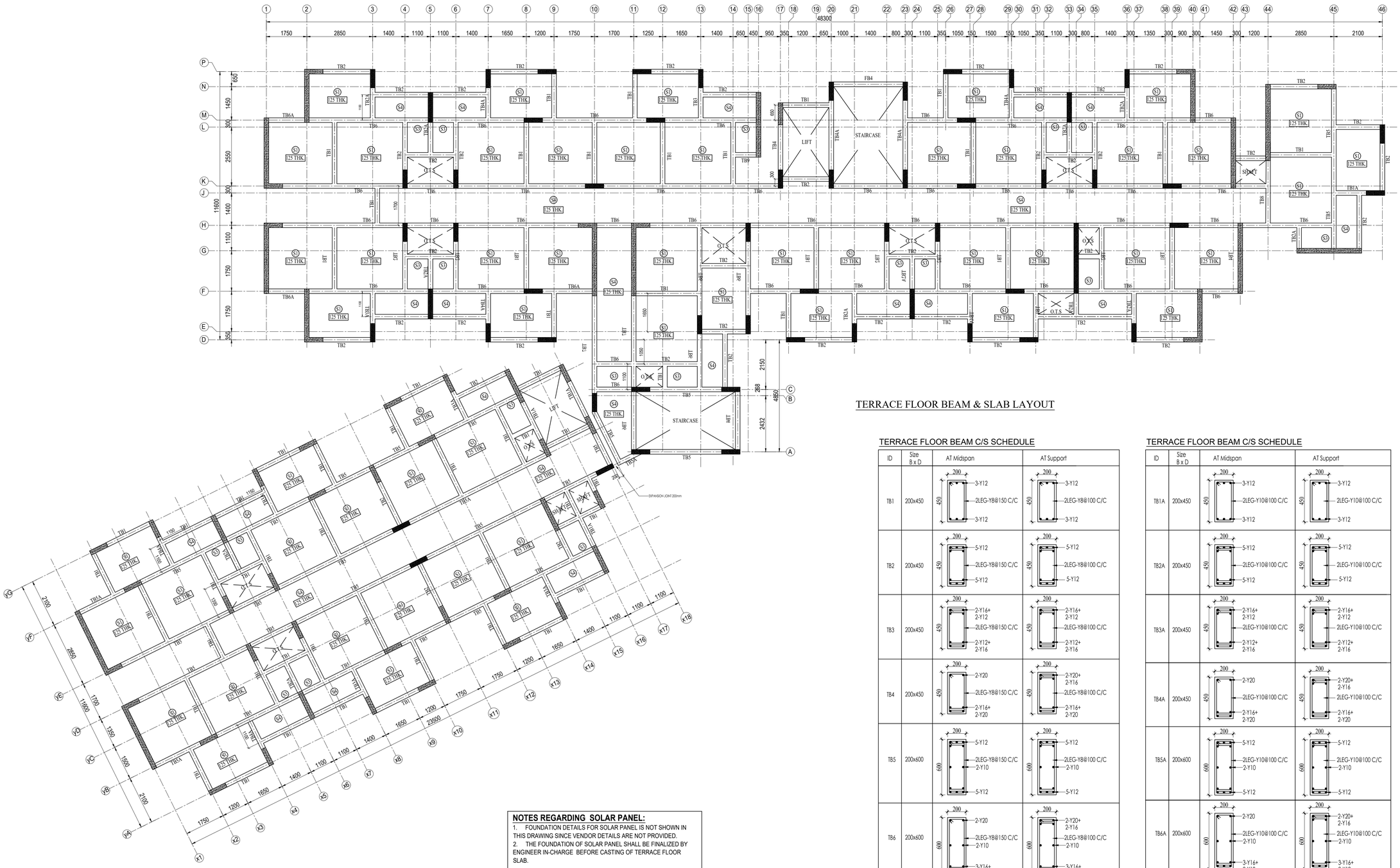
6th, 8th & 9th FLOOR BEAM, SLAB LAYOUT & DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/06	SHEET NO : 01 OF 01	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		SHEET SIZE: A1
PREPARED BY: K.B.M	DRAWN BY: D.K.J	
CHECKED BY:	APPROVED BY:	

NOTE: ALL DIMENSIONS ARE IN mm

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION



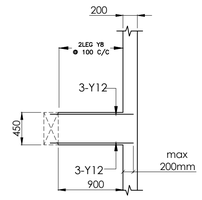
TERRACE FLOOR BEAM & SLAB LAYOUT

TERRACE FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
TB1	200x450	3-Y12 / 2LEG-Y8@150 C/C / 3-Y12	3-Y12 / 2LEG-Y8@100 C/C / 3-Y12
TB2	200x450	5-Y12 / 2LEG-Y8@150 C/C / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 5-Y12
TB3	200x450	2-Y16+ 2-Y12 / 2LEG-Y8@150 C/C / 2-Y12+ 2-Y16	2-Y16+ 2-Y12 / 2LEG-Y8@100 C/C / 2-Y12+ 2-Y16
TB4	200x450	2-Y20 / 2LEG-Y8@150 C/C / 2-Y16+ 2-Y20	2-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y16+ 2-Y20
TB5	200x600	5-Y12 / 2LEG-Y8@150 C/C / 2-Y10 / 5-Y12	5-Y12 / 2LEG-Y8@100 C/C / 2-Y10 / 5-Y12
TB6	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
TB7	200x600	2-Y20 / 2LEG-Y8@150 C/C / 2-Y10 / 3-Y16+ 2-Y12	3-Y20+ 2-Y16 / 2LEG-Y8@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
TB8	200x600	3-Y20+ 2-Y20 / 2LEG-Y10@75 C/C / 2-Y10 / 3-Y20+ 2-Y20	3-Y20+ 2-Y20 / 2LEG-Y10@75 C/C / 2-Y10 / 3-Y20+ 2-Y20

TERRACE FLOOR BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
TB1A	200x450	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12	3-Y12 / 2LEG-Y10@100 C/C / 3-Y12
TB2A	200x450	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12	5-Y12 / 2LEG-Y10@100 C/C / 5-Y12
TB3A	200x450	2-Y16+ 2-Y12 / 2LEG-Y10@100 C/C / 2-Y12+ 2-Y16	2-Y16+ 2-Y12 / 2LEG-Y10@100 C/C / 2-Y12+ 2-Y16
TB4A	200x450	2-Y20 / 2LEG-Y10@100 C/C / 2-Y16+ 2-Y20	2-Y20+ 2-Y16 / 2LEG-Y10@100 C/C / 2-Y16+ 2-Y20
TB5A	200x600	5-Y12 / 2LEG-Y10@100 C/C / 2-Y10 / 5-Y12	5-Y12 / 2LEG-Y10@100 C/C / 2-Y10 / 5-Y12
TB6A	200x600	2-Y20 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12	2-Y20+ 2-Y16 / 2LEG-Y10@100 C/C / 2-Y10 / 3-Y16+ 2-Y12
TB9	200x600	REFER L.S BELOW	



L.S OF BEAM - TB9

TERRACE FLOOR SLAB SCHEDULE

S.NO	SLAB ID	THICK (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
			SHORTER DIRECTION	LONGER DIRECTION	SHORTER DIRECTION EXTRA BAR - SUPPORT	LONGER DIRECTION EXTRA BAR - SUPPORT
1.	S1–TW	125	Y8 @ 125 C/C	Y8 @ 125 C/C	Y8 @ 250 C/C	Y8 @ 250 C/C
2.	S3–TW	125	Y8 @ 150 C/C	Y8 @ 150 C/C	Y8 @ 300 C/C	Y8 @ 300 C/C
3.	S4–OW	125	Y8 @ 150 C/C	Y8 @ 175 C/C	Y8 @ 300 C/C	–

(*)NOTE:
TW - TWO WAY SLAB
OW - ONE WAY SLAB
T&B - TOP & BOTTOM

NOTES REGARDING SOLAR PANEL:
1. FOUNDATION DETAILS FOR SOLAR PANEL IS NOT SHOWN IN THIS DRAWING SINCE VENDOR DETAILS ARE NOT PROVIDED.
2. THE FOUNDATION OF SOLAR PANEL SHALL BE FINALIZED BY ENGINEER IN-CHARGE BEFORE CASTING OF TERRACE FLOOR SLAB.

NOTES:

1. ALL DIMENSIONS ARE IN "mm" AND LEVELS ARE IN "m".
2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,
   PILE : 75mm
   PILE CAP : 75mm (BOTTOM)
   PILE CAP : 50mm (SIDES)
   COLUMN/WALL : 40mm
   BEAM : 30mm
   SLAB : 25mm.
5. HIGH YIELD STRENGTH DEFORMED BARS OF FE 500 D CONFORMING TO IS 1786:2008 SHALL BE USED.
6. "Y" DENOTES FOR HYSD BAR IN mm.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+09 FLOOR ONLY.
8. STRIKING OF FORM WORK SHALL BE IN ACCORDANCE WITH IS456:2000 (R-2021).
9. ANY DISCREPANCY IN DRAWING SHALL BE NOTIFIED TO THE STRUCTURAL CONSULTANT BEFORE START THE WORK.
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11. DO NOT SCALE THIS DRAWING.
12. NO CHANGES SHALL BE MADE WITHOUT THE CONSENT OF STRUCTURAL CONSULTANT.
13. PROVIDE SPACER BAR AT 900mm INTERVALS.
14. COLUMN / WALL VERTICALITY, ORIENTATION, CENTER ALIGNMENT WITH FOUNDATION ARE VERY IMPORTANT FOR STRUCTURAL STABILITY.
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REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
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R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
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STRUCTURAL CONSULTANT:

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MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

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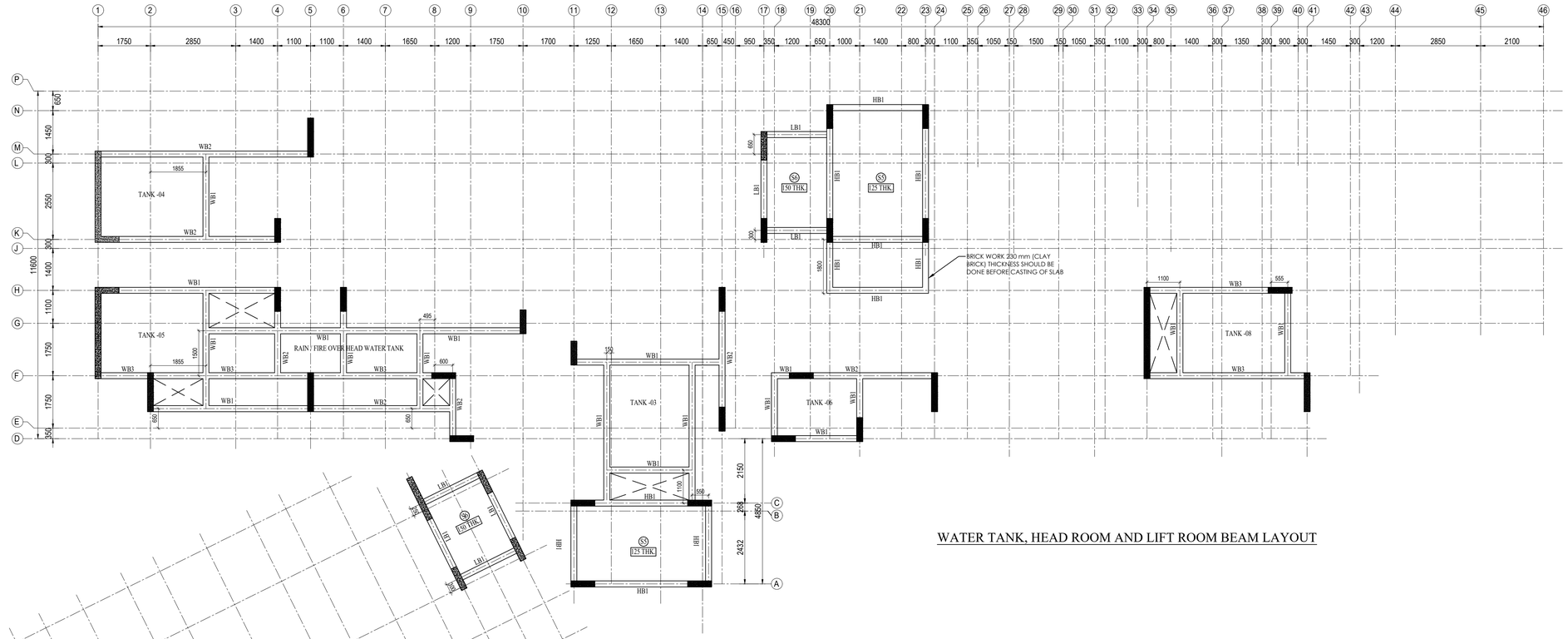
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DRAWING TITLE:

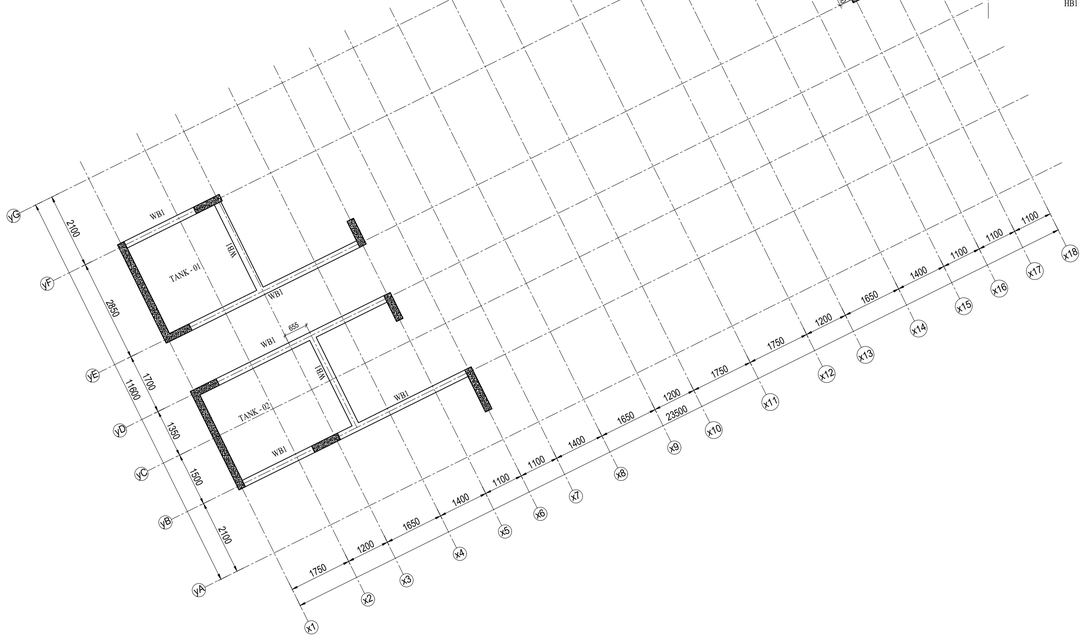
TERRACE FLOOR BEAM, SLAB LAYOUT & DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/08		SHEET NO : 01 OF 01 / REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100 / SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		
PREPARED BY: K.B.M		DRAWN BY: D.K.J
CHECKED BY:		APPROVED BY:

NOTE: ALL DIMENSIONS ARE IN mm



WATER TANK, HEAD ROOM AND LIFT ROOM BEAM LAYOUT



WATER TANK BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
WB1	200x450	3-Y12 / 2LEG-Y8@150 C/C / 3-Y12	3-Y12 / 2LEG-Y8@100 C/C / 3-Y12
WB2	200x450	4-Y16 / 2LEG-Y10@100 C/C / 4-Y16	4-Y16 / 2LEG-Y10@100 C/C / 4-Y16
WB3	200x600	5-Y16 / 2LEG-Y10@100 C/C / 2-Y10 / 5-Y16	5-Y16 / 2LEG-Y10@100 C/C / 2-Y10 / 5-Y16

LIFT ROOM BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
LB1	200x450	3-Y12 / 2LEG-Y8@150 C/C / 3-Y12	3-Y12 / 2LEG-Y8@100 C/C / 3-Y12

HEAD ROOM BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
HB1	200x450	4-Y12 / 2LEG-Y8@150 C/C / 4-Y12	4-Y12 / 2LEG-Y8@100 C/C / 4-Y12

RAIN / FIRE OHT TANK COVER SLAB BEAM C/S SCHEDULE

ID	Size B x D	AT Midspan	AT Support
B2	230x450	3-Y12 / 2LEG-Y8@125 C/C / 3-Y12	3-Y12 / 2LEG-Y8@125 C/C / 3-Y12

STAIRCASE HEAD ROOM & LIFT ROOM FLOOR SLAB SCHEDULE

S.NO	SLAB ID	THICK (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
			SHORTER DIRECTION	LONGER DIRECTION	SHORTER DIRECTION EXTRA BAR - SUPPORT	LONGER DIRECTION EXTRA BAR - SUPPORT
1.	S5–TW	125	Y8 @ 100 C/C	Y8 @ 125 C/C	Y8 @ 200 C/C	Y8 @ 250 C/C
2.	S6–T&B	150	Y8 @ 125 C/C	Y8 @ 150 C/C	DOUBLE MAT	DOUBLE MAT

(*)NOTE:
TW - TWO WAY
OW - ONE WAY
T&B - TOP & BOTTOM

*** For Water Tank details Refer DRAWING NO: TNUHDB/CH/RT/10/01/10; Sheet No: 02/02.**

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

N

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PRINCIPAL DEVELOPER:

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CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

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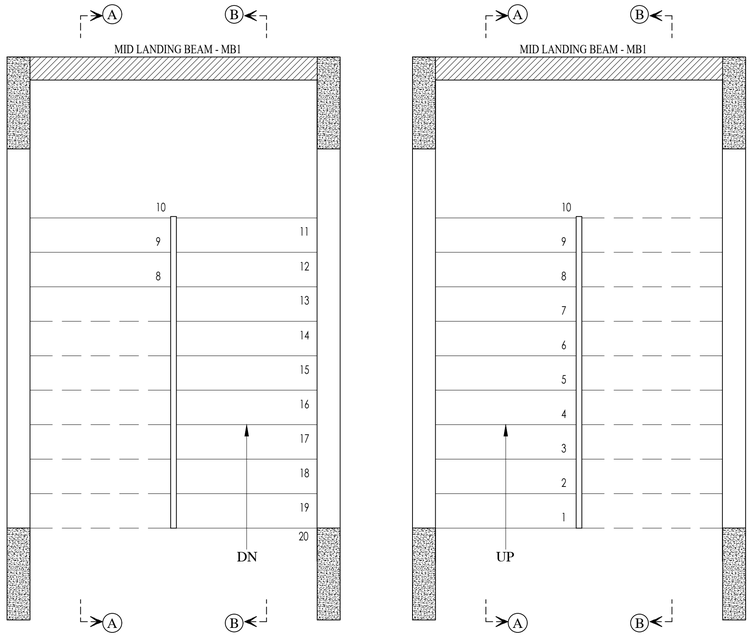
PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:
THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWING TITLE:
WATER TANK , HEAD ROOM AND LIFT ROOM BEAM LAYOUT

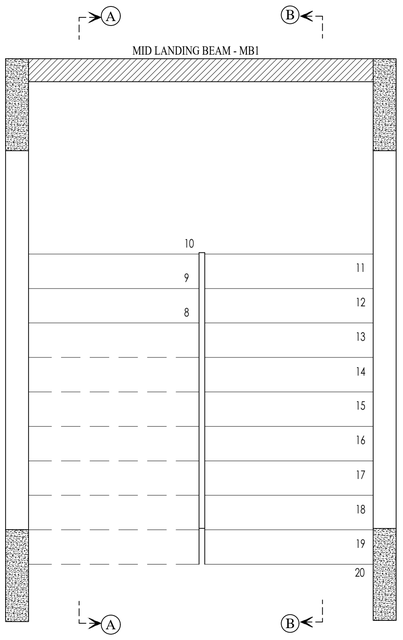
DRAWING NO : TNUHDB/CH/RT/10/01/09	SHEET NO : 01 OF 01	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		SHEET SIZE: A1
PREPARED BY: K.B.M	DRAWN BY: D.K.J	
CHECKED BY:	APPROVED BY:	

NOTE: ALL DIMENSIONS ARE IN mm

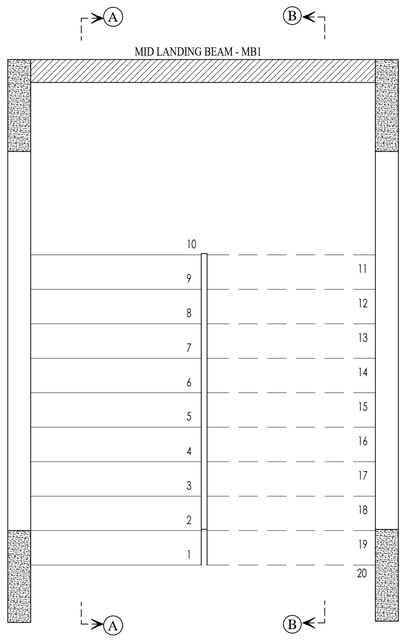


STAIRCASE +1425 mm TO +2950mm LVL

STAIRCASE +0mm TO +1425mm LVL

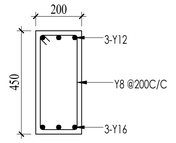
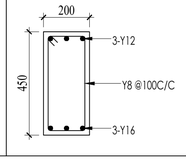


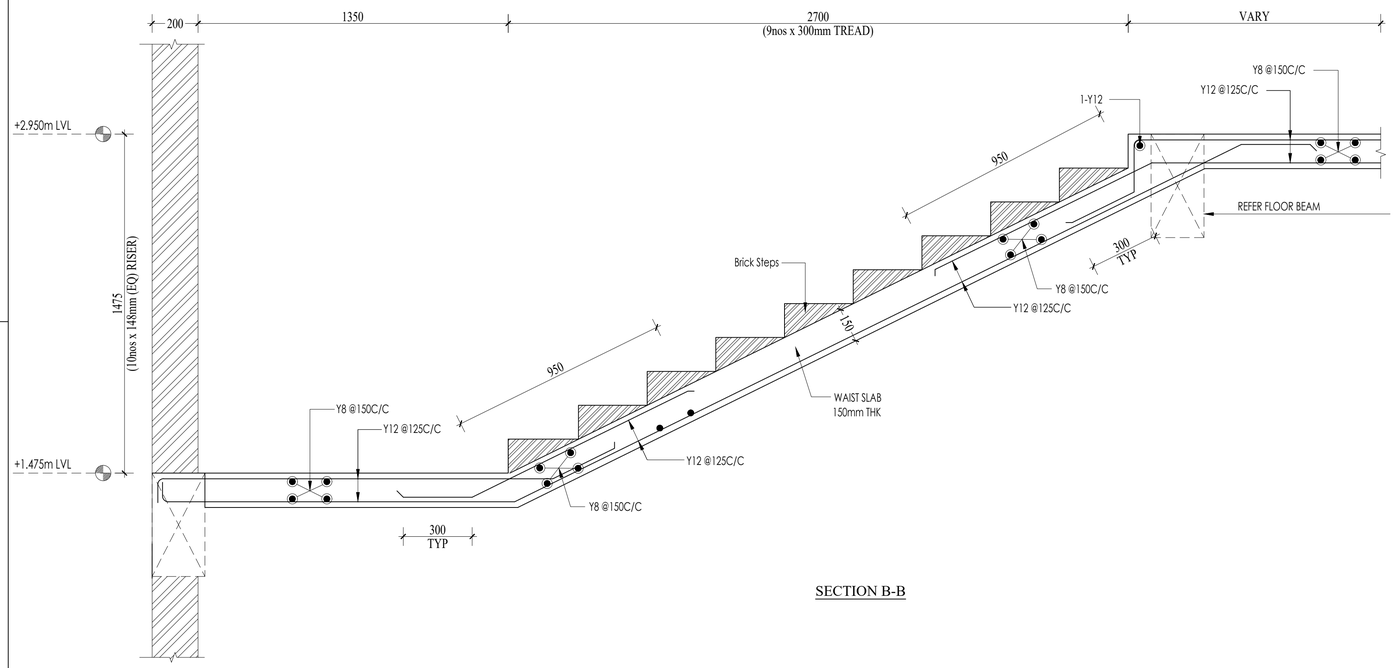
FIRE STAIRCASE +1425 mm TO +2950mm LVL



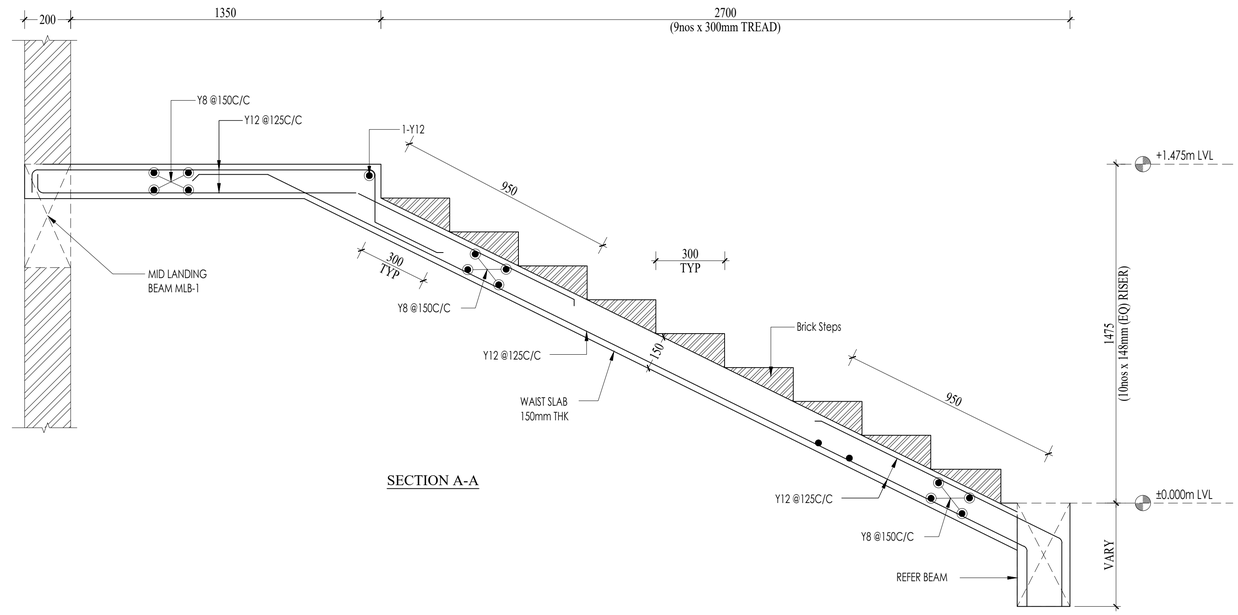
FIRE STAIRCASE +0mm TO +1425mm LVL

MID LANDING C/S SCHEDULE

Type	Size B x D	AT Midspan	AT Support
MB1	200x450		



SECTION B-B



SECTION A-A

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

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PRINCIPAL DEVELOPER:

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CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

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PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

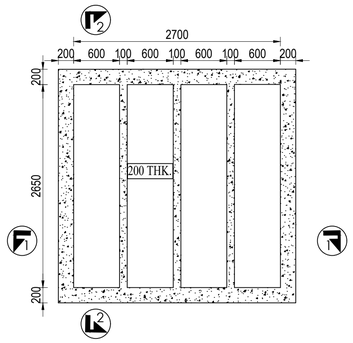
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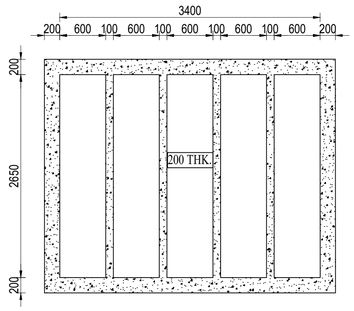
STAIRCASE LAYOUT & DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/10	SHEET NO : 01 OF 02	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100
ISSUED FOR: ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		SHEET SIZE: A1
PREPARED BY: K.B.M	DRAWN BY: D.K.J	
CHECKED BY:	APPROVED BY:	

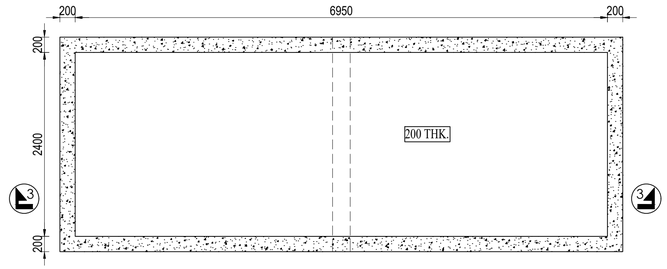
NOTE: ALL DIMENSIONS ARE IN mm



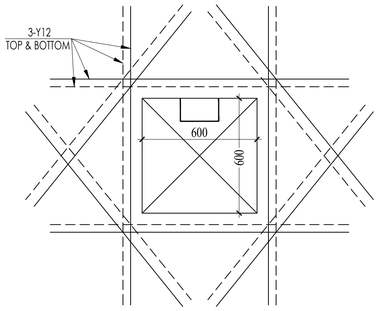
WATER TANK - 01 LAYOUT



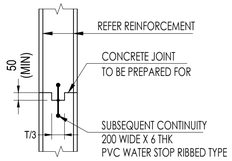
WATER TANK - 02, 03, 04, 05, 08 LAYOUT



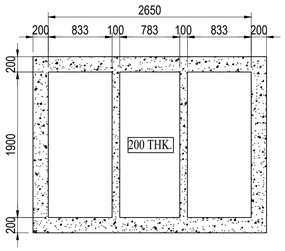
FIRE / RAIN OVER HEAD WATER TANK - 07 LAYOUT



TYPICAL DETAIL OF MANHOLE

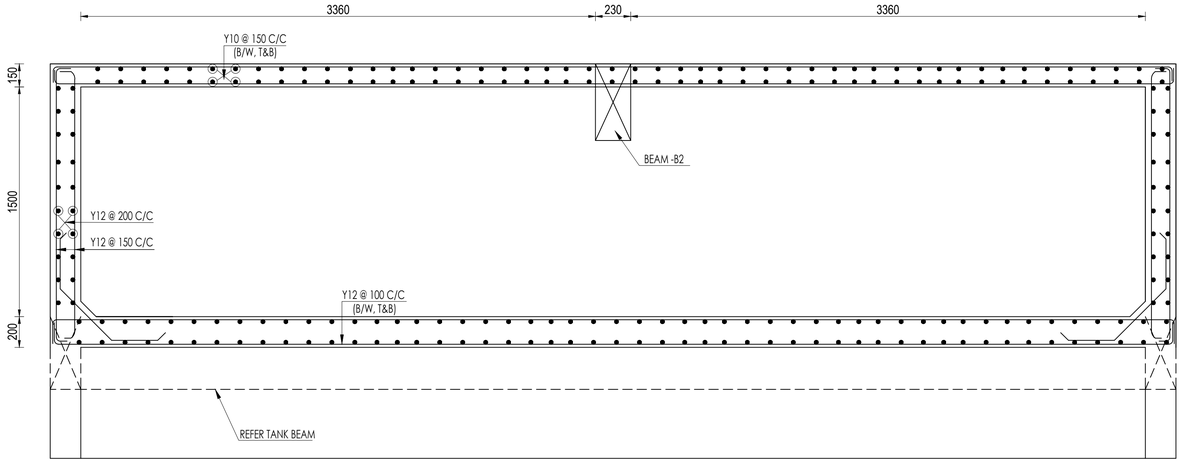


TYPICAL DETAIL OF
WATER STOPPER

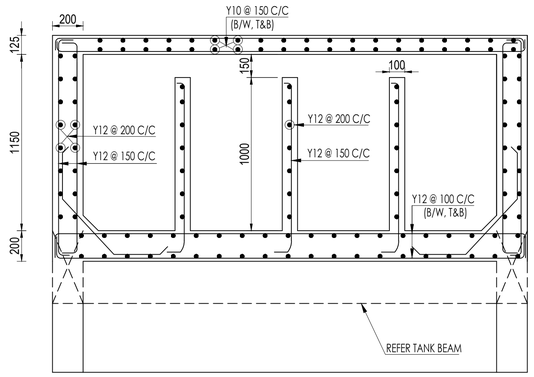


WATER TANK - 06 LAYOUT

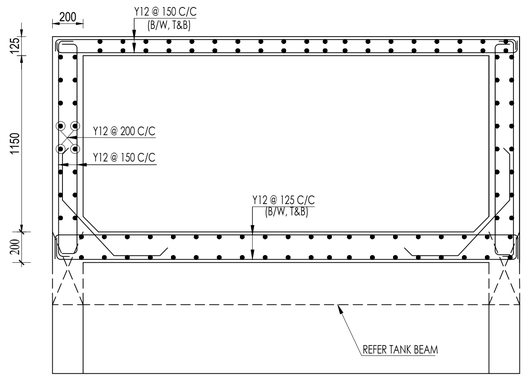
NOTE :
FOR WATER TANK (02 TO 06 & 08)
SECTION & REINFORCEMENT DETAILS
REFER SECTION 1 -1 & 2 - 2



SECTION 3-3



SECTION 1-1



SECTION 2-2

TYPICAL WALL SECTION DETAILS

*** For Rain /Fire OHT cover slab beam (B2) details Refer DRAWING NO: TNUHDB/CH/RT/10/01/09; Sheet No: 01/01.**

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
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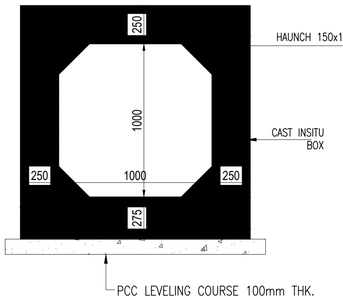
THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWING TITLE:

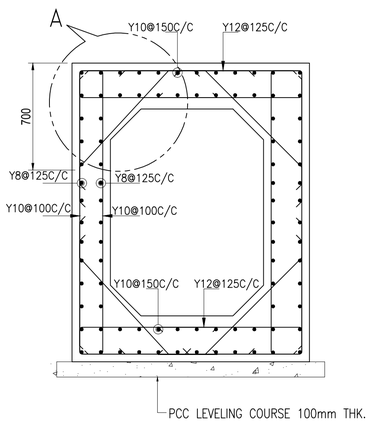
WATER TANK LAYOUT & DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/10	SHEET NO : 02 OF 02	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100	SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		
PREPARED BY: K.B.M	DRAWN BY: D.K.J	
CHECKED BY:	APPROVED BY:	

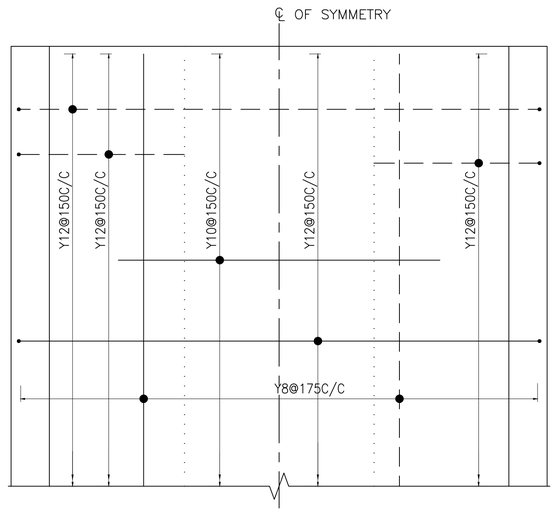
NOTE: ALL DIMENSIONS ARE IN mm



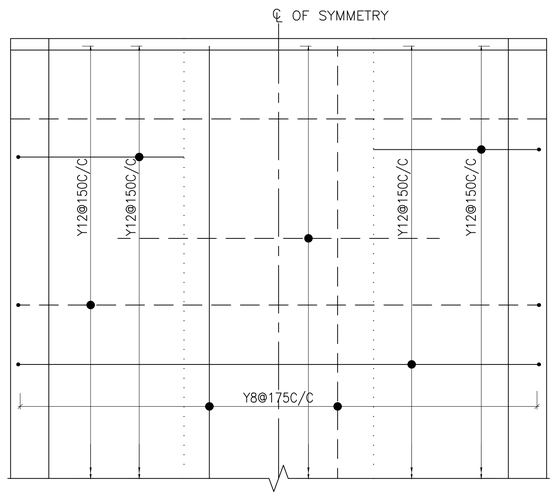
NUMERATION DETAILS OF BOX
(SCALE 1:50)



NUMERATION DETAILS OF BOX (SCALE 1:50)



BOTTOM SLAB REINFORCEMENT PLAN
(HAUNCH LINES NOT SHOWN IN PLAN)
(SCALE 1:50)



TOP SLAB REINFORCEMENT PLAN
(BAR MARK 3 & HAUNCH LINES NOT SHOWN IN PLAN)
(SCALE 1:50)

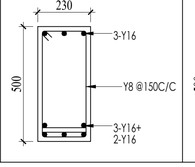
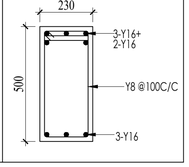
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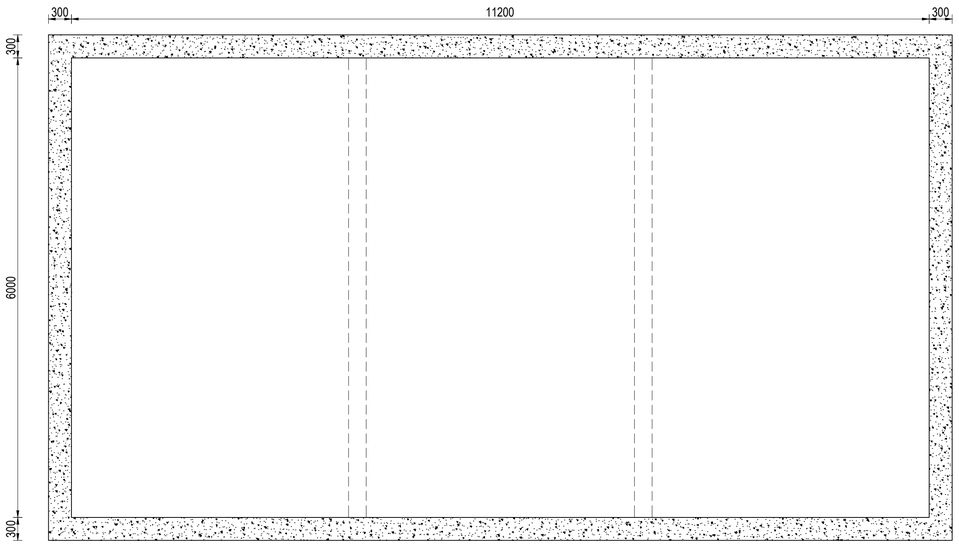
1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
2. GRADE OF CONCRETE:
   i) RCC CULVERT STRUCTURE : M25
   ii) PCC LEVELING COURSE : M15
3. ALL REINFORCEMENT BARS SHALL BE HYSD BARS (GRADE DESIGNATION Fe500D) CONFIRMING TO IS:1786.
4. CLEAR COVER FOR WALL OUTER AND BOTTOM OF BOTTOM SLAB SHALL BE 75mm AND FOR ALL OTHER FACES IT SHALL BE 40mm.
5. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY LOCATION.
6. THE LAP LENGTH SHALL BE (40xDIA OF BARxK) WHERE,
   K = 1.00 WHERE < 25% BARS ARE LAPPED BAR RELATIVE TO TOTAL CROSS SECTIONAL AREA.
   K = 1.15 WHERE < 33% BARS ARE LAPPED BAR RELATIVE TO TOTAL CROSS SECTIONAL AREA.
   K = 1.4 WHERE < 50% BARS ARE LAPPED BAR RELATIVE TO TOTAL CROSS SECTIONAL AREA.
7. ALL LAPS SHALL BE SUITABLY STAGGERED
8. DEVELOPMENT LENGTH SHALL BE 40 TIMES DIAMETER OF BAR.

LEGEND:

TOP REINFORCEMENT
BOTTOM REINFORCEMENT

UG TANK COVER SLAB BEAM C/S SCHEDULE

Type	Size B x D	AT Midspan	AT Support
B1	230 x 500		



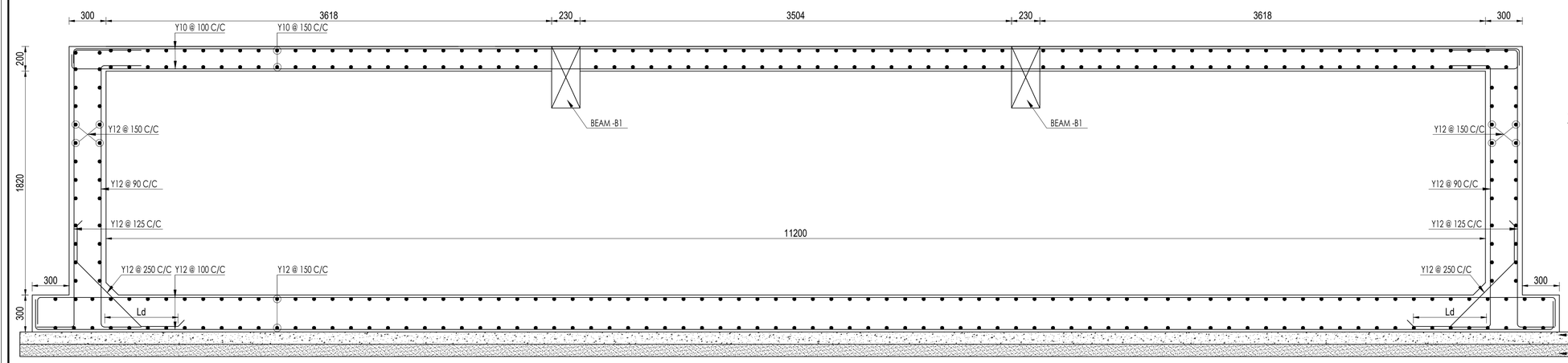
PLAN VIEW OF UG TANK

GENERAL NOTES FOR UNDER GROUND TANK:

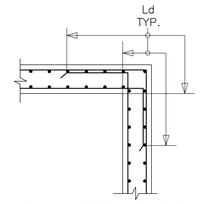
1. ALL DIMENSIONS PROVIDED ARE IN MILLIMETER (mm) UNLESS OTHER WISE SPECIFIED.
2. DIMENSIONS SHALL NOT BE MEASURED FROM THE DRAWINGS, & ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ANY DISCREPANCIES IN THE DRAWING ARE TO BE BROUGHT TO THE NOTICE OF CONSULTANT IMMEDIATELY.
4. CONCRETE: M30 GRADE WITH SULPHATE RESISTANT CEMENT AS PER IS 3370 SHALL BE USED.
5. CONCRETE MINIMUM CEMENT CONTENT SHALL NOT BE LESS THAN 350 Kg/CUM FOR M-30 CONCRETE.
6. STEEL : FE 500D GRADE WITH ANTI CORROSIVE COATING SHALL BE USED
7. 'Y'- HIGH YIELD STRENGTH DEFORMED BARS Fe 500D CONFIRMING IS 1786-2008 TO BE USED.
8. ADMIXTURES CAN BE ADDED WITH THE PERMISSION OF CLIENT.
9. CLEAR COVER TO THE REINFORCEMENT ARE AS FOLLOWS
   RCC WALL -50mm; BOTTOM SLAB-75mm; & COVER SLAB -30mm.
10. ALL CONSTRUCTION JOINTS SHALL BE WITH 150 WIDE PVC WATER BARS AS PER IS 3370.
11. EQUIVALENT AREA OF REINFORCEMENT CAN BE ADOPTED IF A MENTIONED DIAMETER RODS ARE NOT AVAILABLE.
12. NOT MORE THAN 1/3 OF THE REINFORCEMENT SHALL BE LAPPED AT ANY SECTION.
13. FOR PUDDLE PIPES REFER SEPARATE DRAWING.
14. ON STRUCTURAL COMPLETION, THE STRUCTURE TO BE TESTED FOR WATER TIGHTNESS AS PER IS 3370, BEFORE TAKING UP THE FINISHING WORKS. CARE SHALL BE TAKEN TO ENSURE ALL CONSTRUCTION JOINTS ARE EXECUTED PROPERLY AS PER THE STANDARD ENGINEERING PRACTICE.
15. SBC AT FOUNDATION LEVEL OF TANK (EL - 2.60 M) SHALL BE MINIMUM 10 T/m².
16. THE FOUNDATION SBC SHALL BE CONFIRMED WITH SPT TEST BEFORE LAYING CONCRETE.
17. FIELD ENGINEERS SHOULD ENSURE THAT THAT THE SOIL AT RECOMMEND FOUNDING DEPTH IS CONFORMITY TO THE SOIL CHARACTERISTIC DETAILED IN THE SOIL TEST REPORT. IF ANY VARIATION IN SOIL STRATA IS ENCOUNTERED AT RECOMMENDED FOUNDATION DEPTH, THEN THE SAME SHOULD BE INFORMED TO THE CHIEF BEGINNER AT ONCE REVIEW.

FINISHING NOTES:

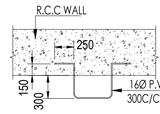
1. INSIDE PLASTERING SHALL BE 12mm THICK IN CM 1:3 USING SULPHATE RESISTANT CEMENT.
2. OUTER SURFACE OF TANK SHALL BE OF NEAT FORM FINISH.
3. ALL INSIDE WATER CONTACT SURFACE OF TANK INCLUDING FREE BOARD SHALL BE FINISHED WITH COAL TAR EPOXY PAINTING.
4. ALL EXPOSED OUTER SURFACES SHALL BE FINISHED WITH 2 COATS OF CEMENT PAINT OVER A COAT OF PRIMER.



TYPICAL WALL SECTION DETAILS FOR UG TANK



TYP. WALL CORNER (HORIZONTAL) REINFORCEMENT SETAIL AT MAIN WALL 'L' JUNCTION



PVC RUNGS DETAIL

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS
(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

N

NOTES:

1. ALL DIMENSIONS ARE IN "mm" AND LEVELS ARE IN "m".
2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,

PILE	:	75mm
PILE CAP	:	75mm (BOTTOM)
PILE CAP	:	50mm (SIDES)
COLUMN/WALL	:	40mm
BEAM	:	30mm
SLAB	:	25mm.

5. HIGH YIELD STRENGTH DEFORMED BARS OF FE 500 D CONFORMING TO IS 1786:2008 SHALL BE USED.
6. "Y" DENOTES FOR HYSD BAR IN mm.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+09 FLOOR ONLY.
8. STRIKING OF FORM WORK SHALL BE IN ACCORDANCE WITH IS456:2000 (R-2021).
9. ANY DISCREPANCY IN DRAWING SHALL BE NOTIFIED TO THE STRUCTURAL CONSULTANT BEFORE START THE WORK.
10. THE BUILDING IS DESIGNED TO CARRY 6.5 kN/ m² INFILL WALL (AAC) ONLY. CONSTRUCTION HAS TO BE DONE WITH AAC BLOCKS ONLY. FOR THICKNESS OF WALL REFER ARCHITECTURAL DRAWING.
11. DO NOT SCALE THIS DRAWING.
12. NO CHANGES SHALL BE MADE WITHOUT THE CONSENT OF STRUCTURAL CONSULTANT.
13. PROVIDE SPACER BAR AT 900mm INTERVALS.
14. COLUMN / WALL VERTICALITY, ORIENTATION, CENTER ALIGNMENT WITH FOUNDATION ARE VERY IMPORTANT FOR STRUCTURAL STABILITY.
15. ONUS AND QUALITY OF CONSTRUCTION LIES WITH CONTRACTOR / CLIENT.
16. STRUCTURAL CONSULTANT IS NOT LIABLE FOR QUALITY OF CONSTRUCTION/PERIODICAL INSPECTION OF EXECUTION, UNLESS ANY SEPARATE COMMERCIAL AGREEMENT & MoU IS EXECUTED.

REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
CHENNAI, TAMILNADU - 600 036.

STRUCTURAL CONSULTANT:

CENTRE FOR URBANIZATION BUILDINGS & ENVIRONMENT
MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

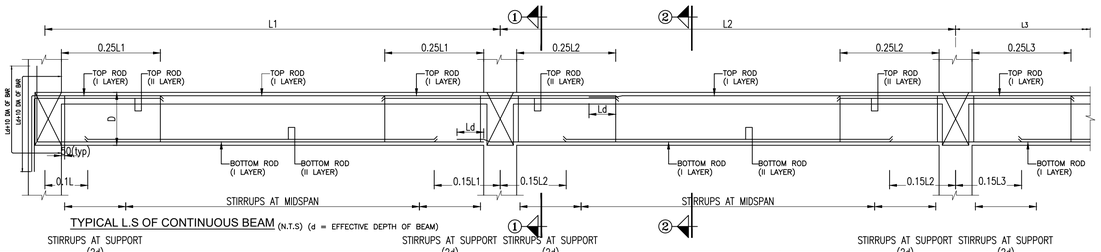
THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

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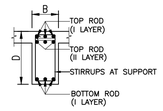
CULVERT & UG TANK DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/11		SHEET NO : 01 OF 01	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100	SHEET SIZE: A1
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION			
PREPARED BY: K.B.M		DRAWN BY: D.K.J	
CHECKED BY:		APPROVED BY:	

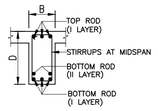
NOTE: ALL DIMENSIONS ARE IN mm



TYPICAL L.S OF CONTINUOUS BEAM (N.T.S) (d = EFFECTIVE DEPTH OF BEAM)



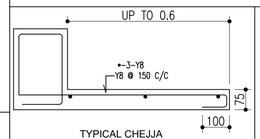
SECTION 1-1 (N.T.S)



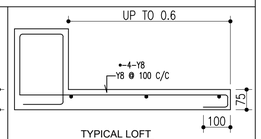
SECTION 2-2 (N.T.S)

SCHEDULE OF LINTELS FOR 200mm THK WALL
(FOR NON LOAD BEARING WALL)

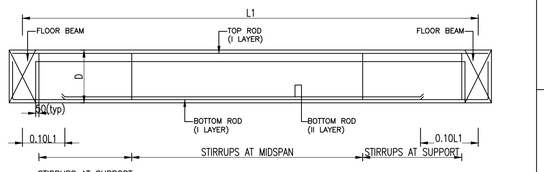
SL.NO	SPAN(m)	SIZE	REINFORCEMENT		STIRRUPS	REMARKS
		BXD	BOTTOM	TOP		
1	UP TO 0.9	200x150	2–Y10	2–Y8	Y8@100 C/C	
2	0.9 TO 1.5	200x200	2–Y12	2–Y10	Y8@100 C/C	
3	1.5 TO 2.1	200x200	2–Y16	2–Y10	Y8@125 C/C	



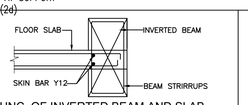
TYPICAL CHEJJA REINFORCEMENT DETAILS (N.T.S)



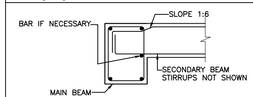
TYPICAL LOFT REINFORCEMENT DETAILS (N.T.S)



TYPICAL L.S OF SIMPLY SUPPORTED BEAM (N.T.S)



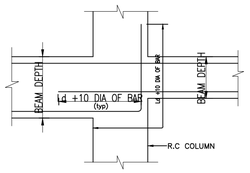
JUNC. OF INVERTED BEAM AND SLAB (N.T.S)



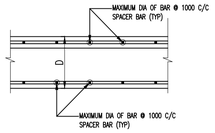
JUNC. OF MAIN AND SEC .BEAM UNEQUAL DEPTH (N.T.S)



TYPICAL DETAIL OF SKIN BAR



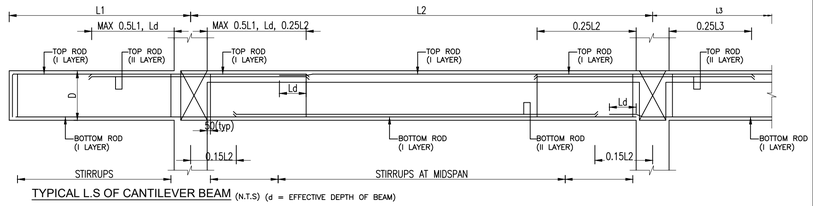
JUNC. OF COLUMN AND BEAM OF DIFFERENT DEPTH (N.T.S)



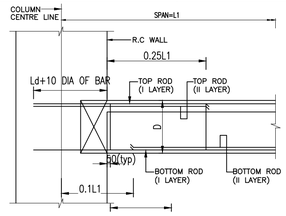
TYPICAL SPACER BAR DETAIL (N.T.S)

SCHEDULE OF LINTELS FOR 100mm THK WALL
(FOR NON LOAD BEARING WALL)

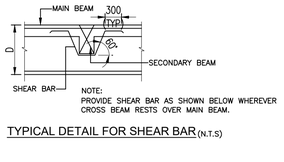
SL.NO	SPAN(m)	SIZE	REINFORCEMENT		STIRRUPS	REMARKS
		BXD	BOTTOM	TOP		
1	UP TO 0.9	100x150	2–Y10	2–Y8	Y8@100 C/C	
2	0.9 TO 1.5	100x150	2–Y12	2–Y10	Y8@100 C/C	



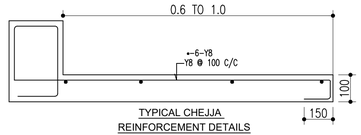
TYPICAL L.S OF CANTILEVER BEAM (N.T.S) (d = EFFECTIVE DEPTH OF BEAM)



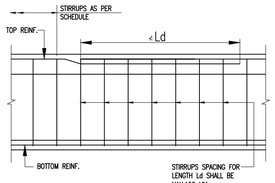
TYPICAL DETAIL OF BEAM WITH R.C WALL (N.T.S) (d = EFFECTIVE DEPTH OF BEAM)



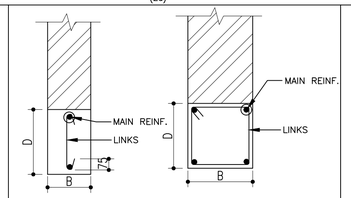
TYPICAL DETAIL FOR SHEAR BAR (N.T.S)



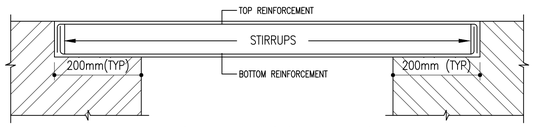
TYPICAL CHEJJA REINFORCEMENT DETAILS (N.T.S)



LAP SPLICE IN BEAM

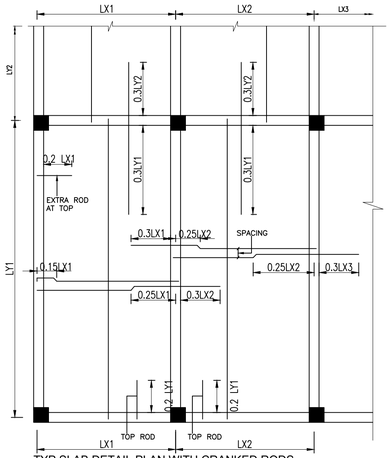


TYP LINTEL DETAILS (N.T.S)

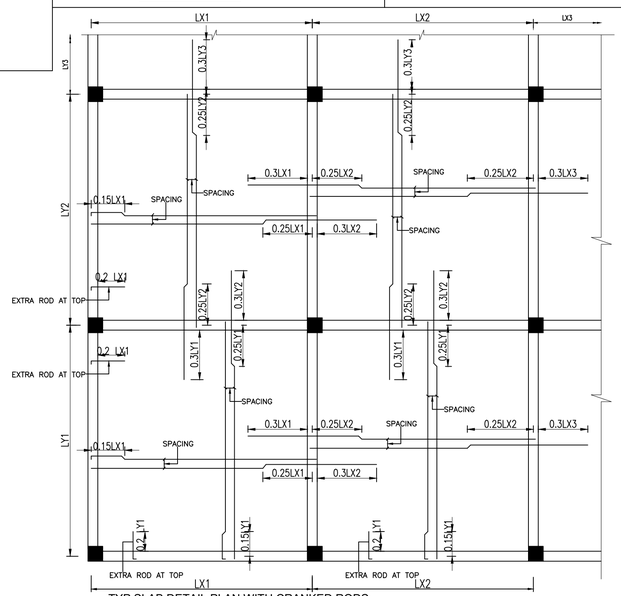


TYPICAL LINTEL REINFORCEMENT DETAILS (N.T.S)

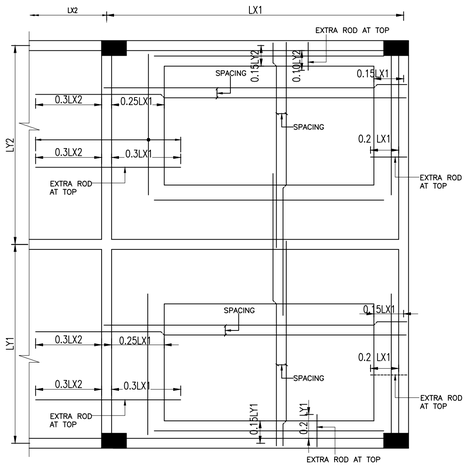
NOTES:
QUALITY OF AAC MASONRY WALL SHALL BE SUCH A WAY THAT, THE WALL DOES NOT CRACK WITH 200mm BEARING, OTHERWISE 375mm BEARING SHALL BE PROVIDED.



TYP SLAB DETAIL PLAN WITH CRANKED RODS (ONE WAY SLAB) (N.T.S)



TYP SLAB DETAIL PLAN WITH CRANKED RODS (TWO WAY SLAB) (TYPE-1) (N.T.S)



TYPICAL EXTRA BAR DETAILS FOR SLABS (N.T.S)

NOTES:

1. ALL DIMENSIONS ARE IN "mm" AND LEVELS ARE IN "m".
2. THE GRADE OF CONCRETE SHALL BE M 30 CONFORMING TO IS 456: 2000 (R-2021) & IS 10262: 2009 . UNLESS OTHERWISE SPECIFIED.
3. LAP LENGTH FOR COLUMN 40Ø, OTHERS 50 Ø.
4. CLEAR COVER TO THE REINFORCEMENT FOR,
   PILE : 75mm
   PILE CAP : 75mm (BOTTOM)
   PILE CAP : 50mm (SIDES)
   COLUMN/WALL : 40mm
   BEAM : 30mm
   SLAB : 25mm.
5. HIGH YIELD STRENGTH DEFORMED BARS OF FE 500 D CONFORMING TO IS 1786:2008 SHALL BE USED.
6. "Y" DENOTES FOR HYSD BAR IN mm.
7. THIS BUILDING HAS BEEN DESIGNED FOR S+09 FLOOR ONLY.
8. STRIKING OF FORM WORK SHALL BE IN ACCORDANCE WITH IS456:2000 (R-2021).
9. ANY DISCREPANCY IN DRAWING SHALL BE NOTIFIED TO THE STRUCTURAL CONSULTANT BEFORE START THE WORK.
10. THE BUILDING IS DESIGNED TO CARRY 6.5 kN/ m² INFILL WALL (AAC) ONLY. CONSTRUCTION HAS TO BE DONE WITH AAC BLOCKS ONLY. FOR THICKNESS OF WALL REFER ARCHITECTURAL DRAWING.
11. DO NOT SCALE THIS DRAWING.
12. NO CHANGES SHALL BE MADE WITHOUT THE CONSENT OF STRUCTURAL CONSULTANT.
13. PROVIDE SPACER BAR AT 900mm INTERVALS.
14. COLUMN / WALL VERTICALITY, ORIENTATION, CENTER ALIGNMENT WITH FOUNDATION ARE VERY IMPORTANT FOR STRUCTURAL STABILITY.
15. ONUS AND QUALITY OF CONSTRUCTION LIES WITH CONTRACTOR / CLIENT.
16. STRUCTURAL CONSULTANT IS NOT LIABLE FOR QUALITY OF CONSTRUCTION/PERIODICAL INSPECTION OF EXECUTION, UNLESS ANY SEPARATE COMMERCIAL AGREEMENT & MoU IS EXECUTED.

RECONSTRUCTION OF S + 09 FLOORS, TOTAL NO OF TENEMENTS - 162 NOS

(01 UNIT AS REFUGEE AREA)

ISSUED FOR CONSTRUCTION

REV. NO	DATE	DESCRIPTION
R5	05.07.2023	ISSUED FOR CONSTRUCTION
R4	30.06.2023	REVISED AS PER IITM COMMENTS
R3	14.05.2023	REVISED AS PER IITM COMMENTS
R2	20.03.2022	REVISED AS PER NEW FLOOR PLAN
R1	15.12.2022	REVISED AS PER NEW FLOOR PLAN
R0	11.11.2022	GENERALLY REVISED

PRINCIPAL DEVELOPER:

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHEPAUK,
CHENNAI - 600 005

PROOF CHECKING CONSULTANT:

INDIAN INSTITUTE OF TECHNOLOGY MADRAS,
CHENNAI, TAMILNADU - 600 036.

STRUCTURAL CONSULTANT:

CENTRE FOR URBANIZATION BUILDINGS & ENVIRONMENT
MODULE NO. 6C, PHASE II BUILDING,
IITM RESEARCH PARK, THARAMANI, CHENNAI- 600113.

PROJECT CODE: CUBE/B&C/2021-22/034/TNUHDB_RAJ

PROJECT:

THE PROPOSED RECONSTRUCTION OF 01 BLOCK - STILT FLOOR + 09 FLOORS WITH 162 RESIDENTIAL DWELLING UNITS (01 UNIT AS REFUGEE AREA) AT RAJA THOTTAM COMPRISED IN T.S.NO.1 & 3, PERAVALLUR VILLAGE, PERAMBUR TALUK WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWING TITLE:

GENERAL DETAILS

DRAWING NO : TNUHDB/CH/RT/10/01/0A	SHEET NO : 01 OF 01	REV NO : R5
BLOCK NO : 01	DATE OF ISSUE: 05.07.2023	SCALE : 1 : 100
ISSUED FOR ☐SCHEME ☐TENDER ☐INFORMATION ☐APPROVAL ☑CONSTRUCTION		SHEET SIZE: A1
PREPARED BY: K.B.M	DRAWN BY: D.K.J	
CHECKED BY:	APPROVED BY:	

NOTE: ALL DIMENSIONS ARE IN mm



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Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

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Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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