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

STABILITY CERTIFICATE

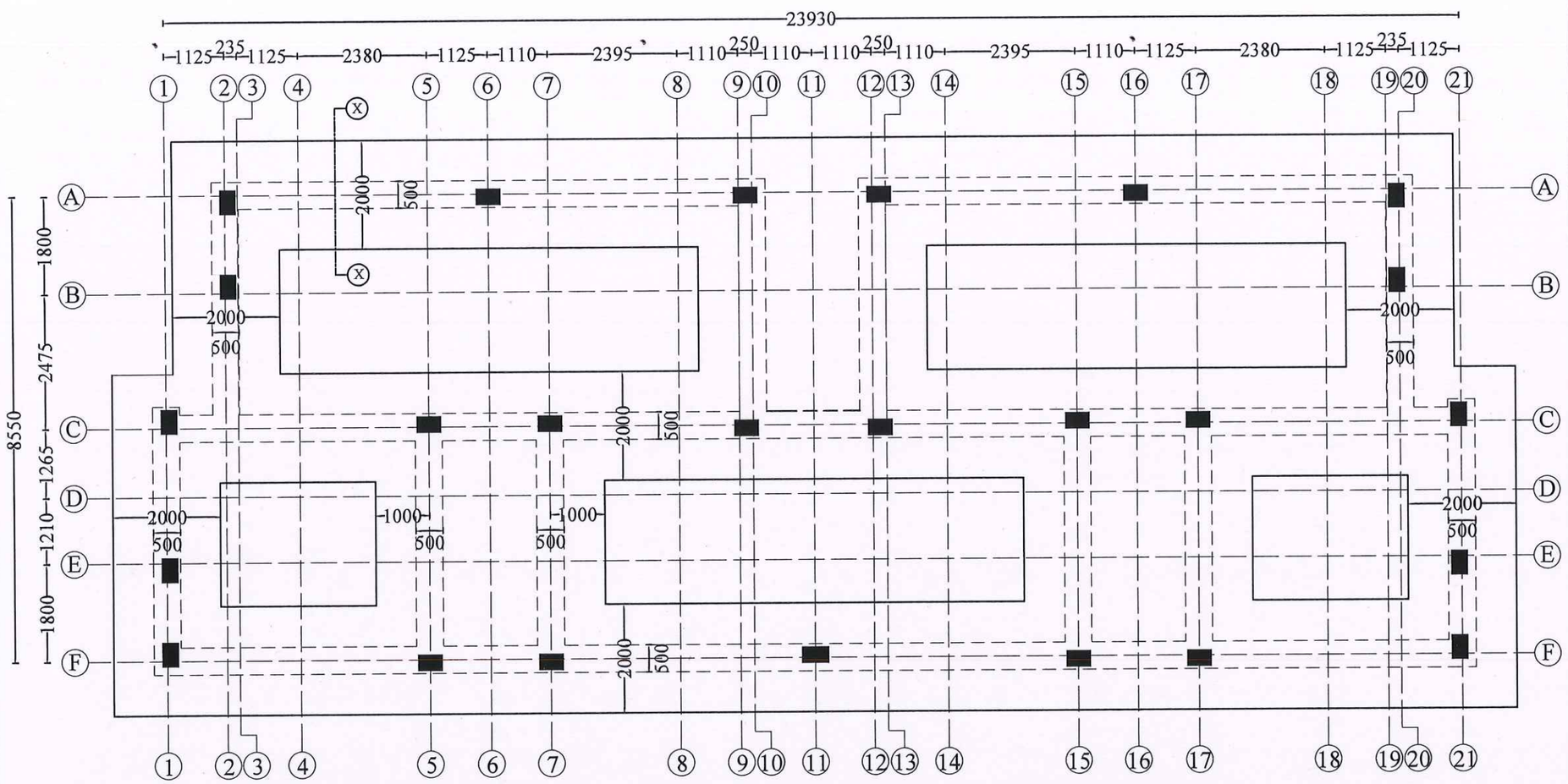
This is to Certify that the Construction of 64 tenements at Powerkuppam scheme in R.S.No 3524 part, 3527/1 and 2part, 3528/1 and 5pt , Block 52 of Tondiarpet Village, Tondiarpet Taluk, Chennai District, Tamil Nadu which is structurally designed for G + 3 Floors assuming the live load of 200 Kg/ Sq.m 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

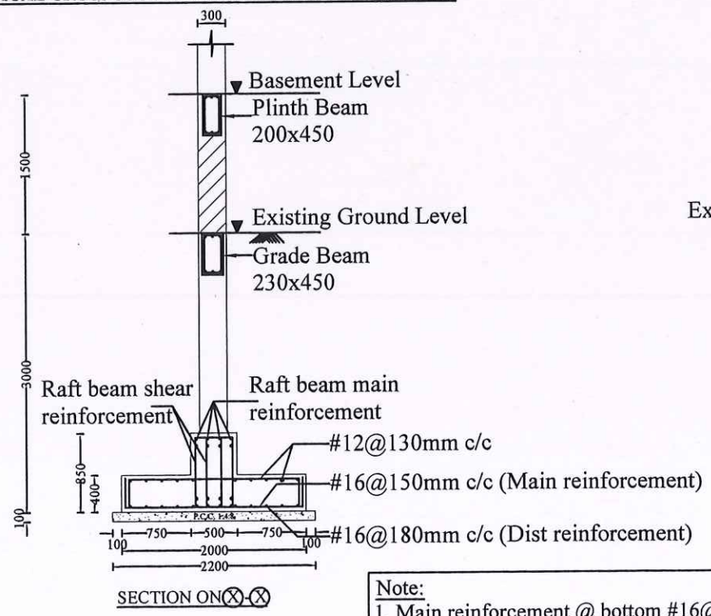
26/9/2024

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.

PLAN AT RAFT FOUNDATION LEVEL

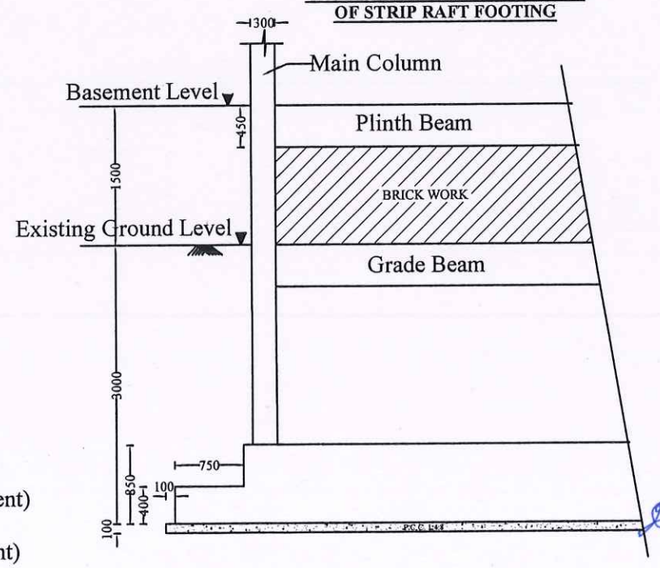


TYPICAL CROSS SECTION OF STRIP RAFT FOUNDATION



SECTION ON Ⓧ-Ⓧ

CROSS SECTIONAL ELEVATION OF STRIP RAFT FOOTING



Note:
1. Main reinforcement @ bottom #16@150mm c/c shall be provided in both directions at the junction of strip raft.
2.For Raft Beam details refer Drawing no.: NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/03

NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
5. The structure is designed for **seismic zone III** as per IS 1893:2016 and detailed as per IS13920:2016.
6. Solid Blocks has been considered for masonry work in sub structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Strip Raft Footing) is **3.0 m** from the existing ground level & bearing capacity at this level is **150 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. Field Engineers should ensure that the soil at the recommended founding depth is in conformity to the soil characteristic detailed in the soil test report. If any variation in soil strata is encountered at the recommended foundation depth, then the same should be informed to the Chief Engineer at once for review.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. The TDS and chemical content of ground water may be checked and ensured that they are not exceeding the permissible limits prior to the use of same for construction activities.
22. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
23. The Recommendations in the soil report done by Prof. V.K. Stalin and Dr. M. Muttharam, Anna University, Report No.: SM&FE 215 &215a/Consultancy/ 2023 Dt.:18.04.2023& 23.07.2024 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
PLAN AT RAFT FOUNDATION LEVEL & TYPICAL CROSS SECTION AND ELEVATION OF STRIP RAFT FOOTINGS

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/01

REVISION NO.:

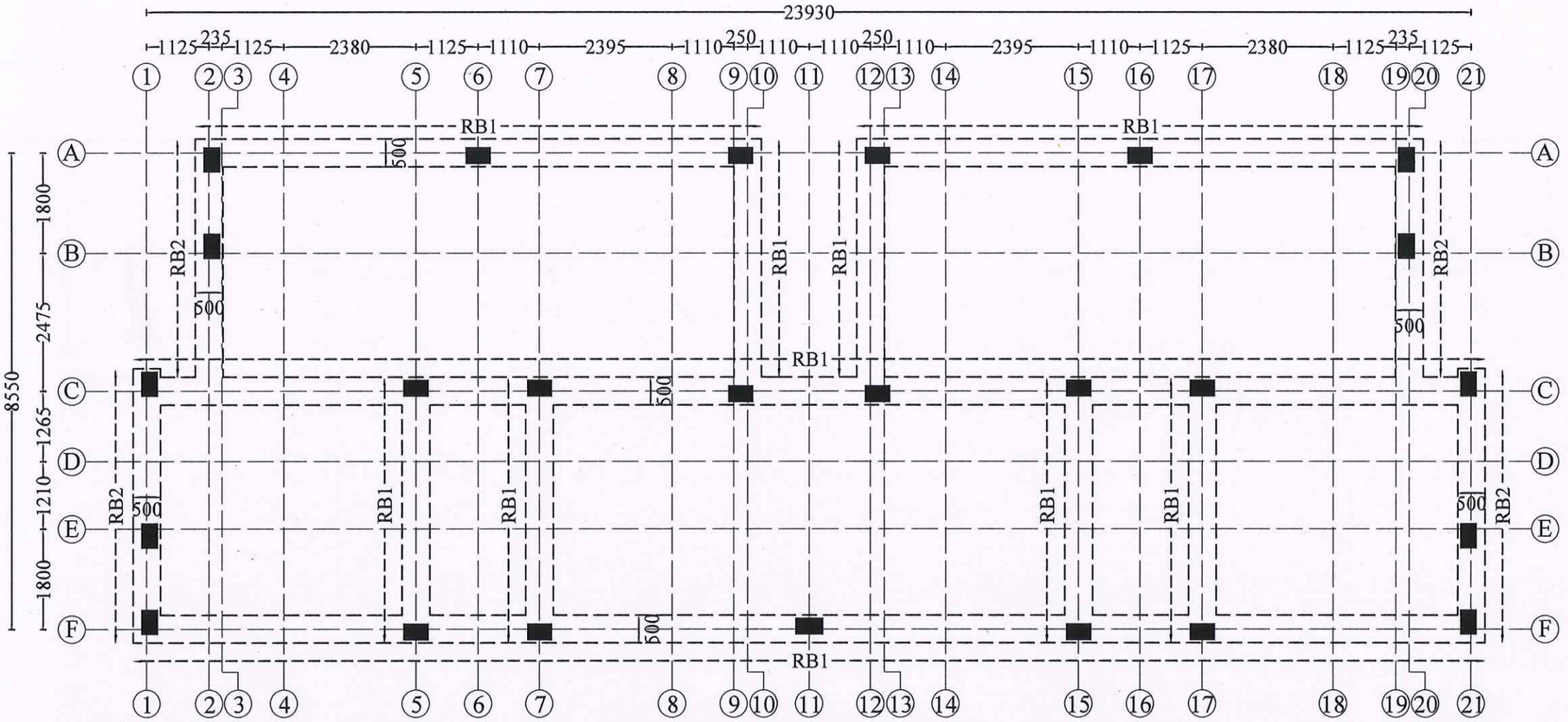
Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

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EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005
22/10/24

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

RAFT BEAM LAYOUT



Note:
1. For Raft Beam details refer Drawing no.: NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/03

NOTE :

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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
RAFT BEAM LAYOUT.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/02

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

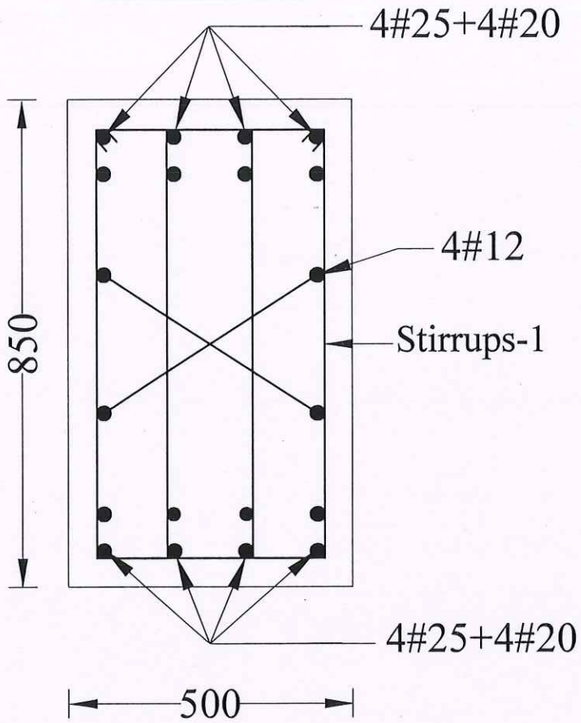
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22/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

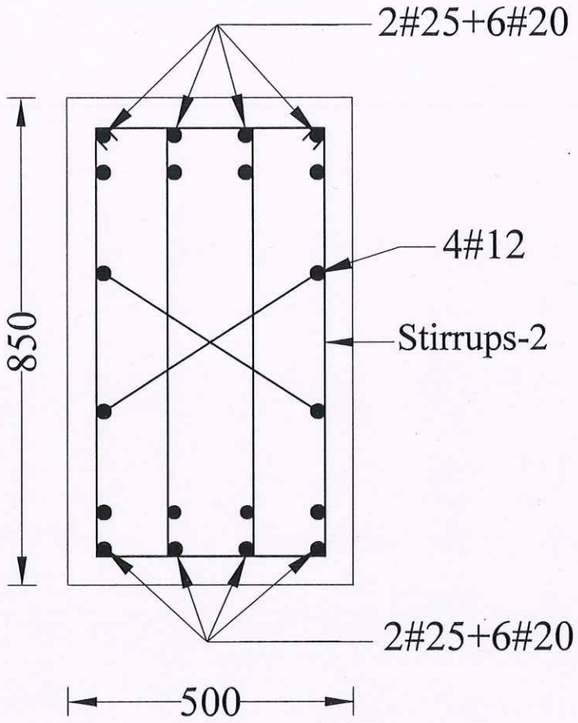
22/10/24

RAFT BEAM DETAILS

RB1
(500x850)



RB2
(500x850)



NOTE :

1. Stirrups-1 - 4L#10mm Stirrups @ 100mm c/c for 1700 mm length on all side near beam column junction and the rest at #10@125mm c/c.
2. Stirrups-2 - 4L#10mm Stirrups @ 150mm c/c throughout the length.

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5, KAMARAJAR SALAI, CHENNAI-600 005.
22/10/24

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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
RAFT BEAM DETAILS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/03

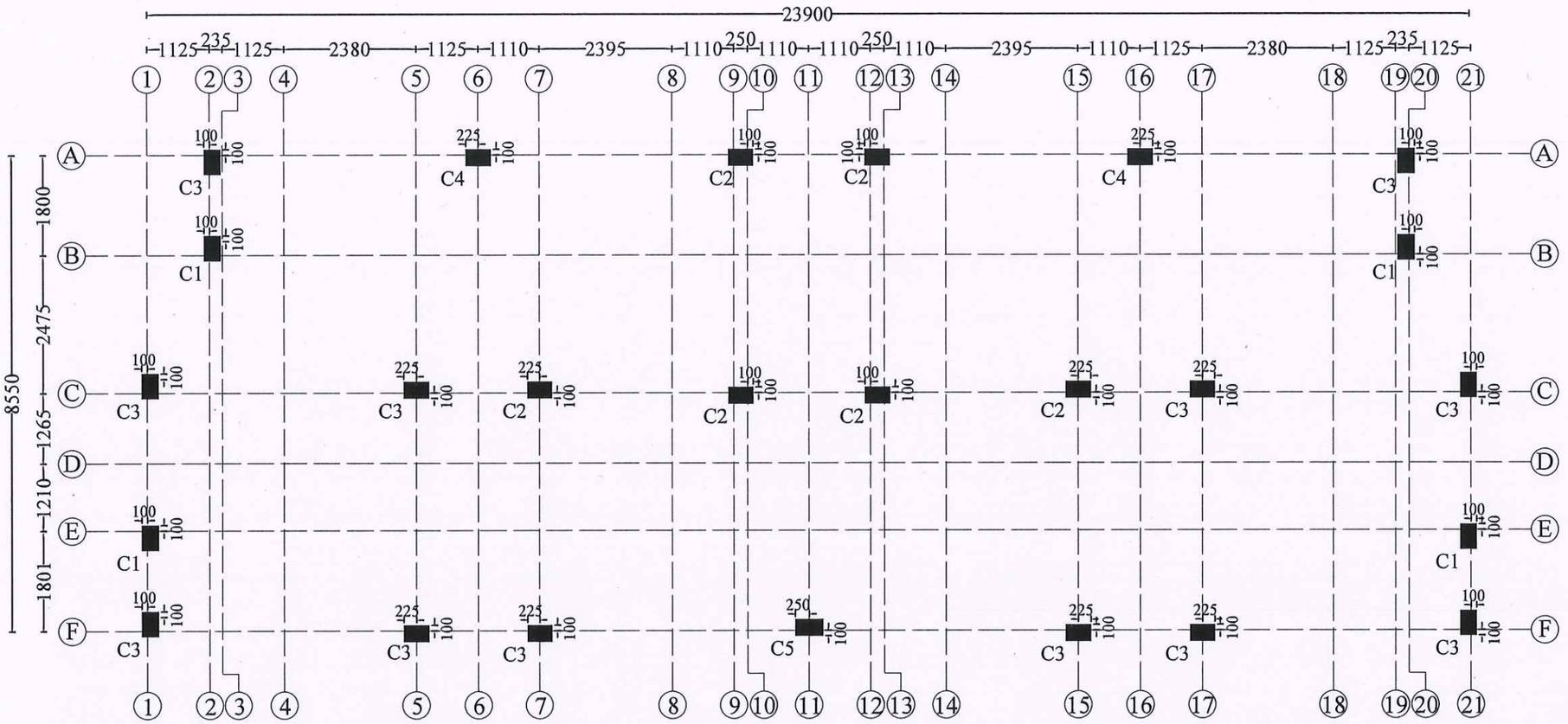
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

COLUMN LAYOUT



NOTE :

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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
COLUMN LAYOUT.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/04

REVISION NO.:

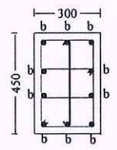
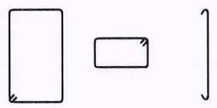
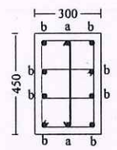
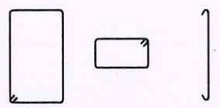
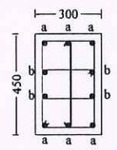
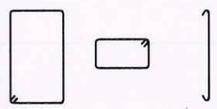
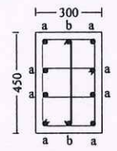
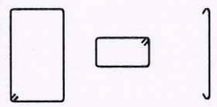
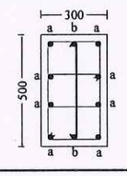
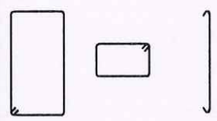
Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

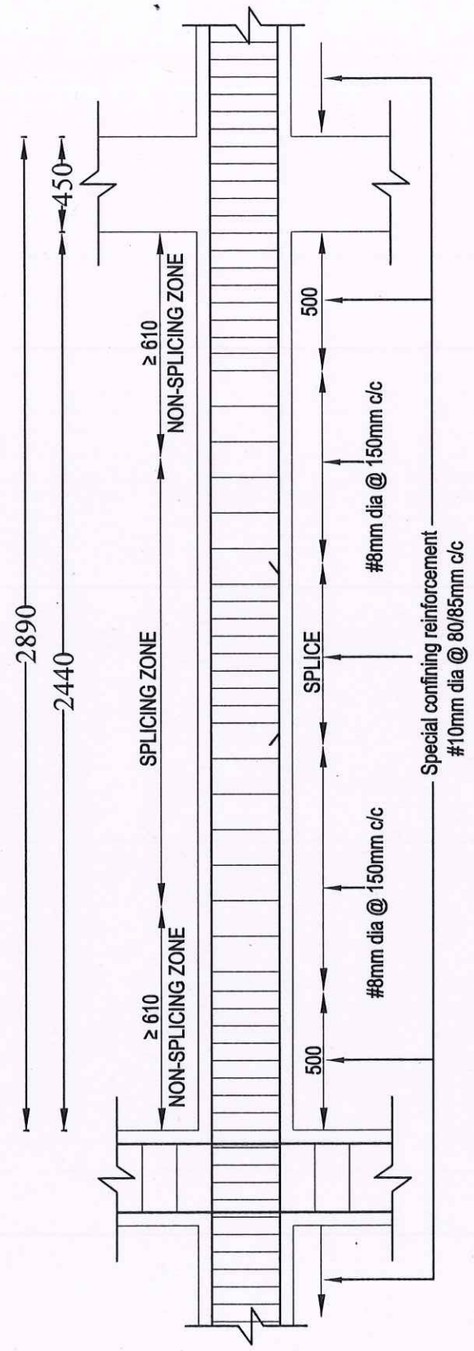
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TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

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22/10/2024
EXECUTIVE ENGINEER CA(C)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.
22/10/24

SCHEDULE OF COLUMNS

Sl.No.	Column Marking	No of Columns	Size	Column Verticals	Lateral Ties	Cross Section	Ties Profile
1.	C1	04	300 x 450	# 16 - 10 Nos.	1) Upto Plinth beam: #10 @ 85 mm c/c 2) Above Plinth beam: #10 @ 85 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 175mm c/c		
2.	C2	06	300 x 450	# 20 - 2 Nos + # 16 - 8 Nos.	1) Upto Plinth beam: #10 @ 85 mm c/c 2) Above Plinth beam: #10 @ 85 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 175mm c/c		
3.	C3	12	300 x 450	# 20 - 6 Nos + # 16 - 4 Nos.	1) Upto Plinth beam: #10 @ 85 mm c/c 2) Above Plinth beam: #10 @ 85 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 175mm c/c		
4.	C4	02	300 x 450	# 20 - 8 Nos + # 16 - 2 Nos.	1) Upto Plinth beam: #10 @ 85 mm c/c 2) Above Plinth beam: #10 @ 85 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 175mm c/c		
5.	C5	01	300 x 500	# 20 - 8 Nos + # 16 - 2 Nos.	1) Upto Plinth beam: #10 @ 80 mm c/c 2) Above Plinth beam: #10 @ 80 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 175mm c/c		

Notes: In Cross Section a - # 20 mm b - # 16 mm



TYPICAL COLUMN SPLICING AND CONFINING REINFORCEMENT DETAILS

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22/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
#5, KAMARAJAR SALAI, CHENNAI-600 005.
22/10/24

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9. The depth of foundation(Strip Raft Footing) is **3.0 m** from the existing ground level & bearing capacity at this level is **150 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. Field Engineers should ensure that the soil at the recommended founding depth is in conformity to the soil characteristic detailed in the soil test report. If any variation in soil strata is encountered at the recommended foundation depth, then the same should be informed to the Chief Engineer at once for review.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. The TDS and chemical content of ground water may be checked and ensured that they are not exceeding the permissible limits prior to the use of same for construction activities.
22. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
23. The Recommendations in the soil report done by Prof. V.K. Stalin and Dr. M. Muttharam, Anna University, Report No.: SM&FE 215 &215a/Consultancy/ 2023 Dt.:18.04.2023& 23.07.2024 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
SCHEDULE OF COLUMNS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/05

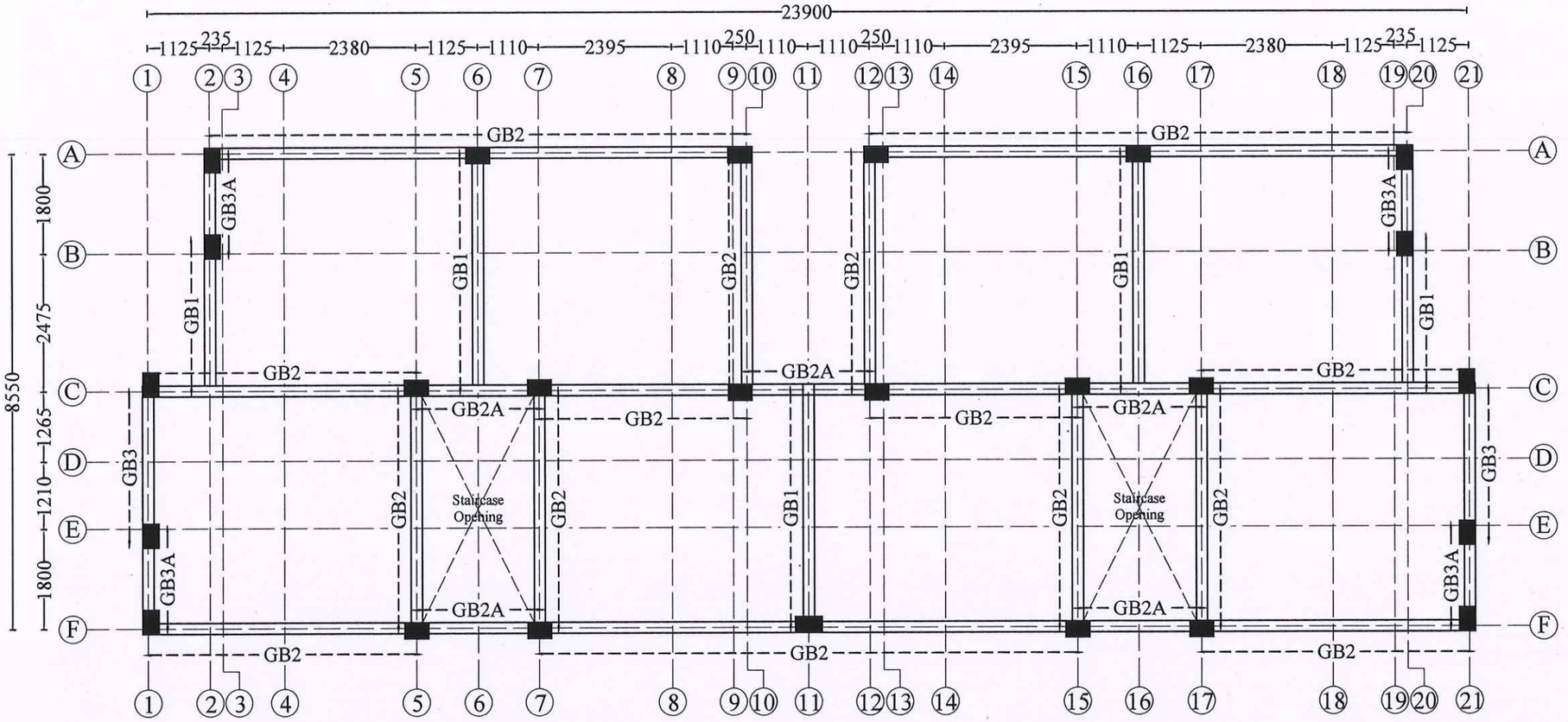
REVISION NO.:

Assistant Engineer	Asst. Exe. Engineer
Executive Engineer	SE - North II

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

GRADE BEAM LAYOUT



NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
5. The structure is designed for **seismic zone III** as per IS 1893:2016 and detailed as per IS13920:2016.
6. Solid Blocks has been considered for masonry work in sub structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for (G+3) floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Strip Raft Footing) is **3.0 m** from the existing ground level & bearing capacity at this level is **150 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
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    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50 Ø.
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22/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.
22/10/24

STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
GRADE BEAM LAYOUT.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/06

REVISION NO.:

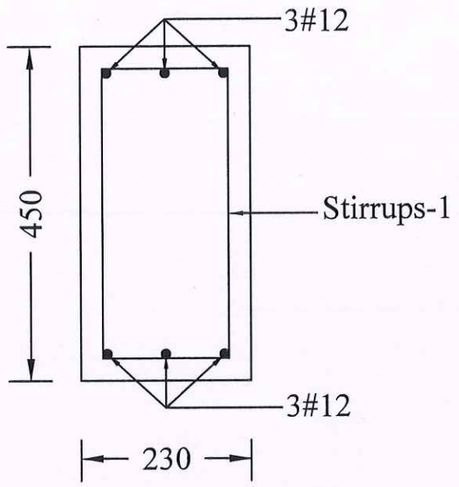
Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

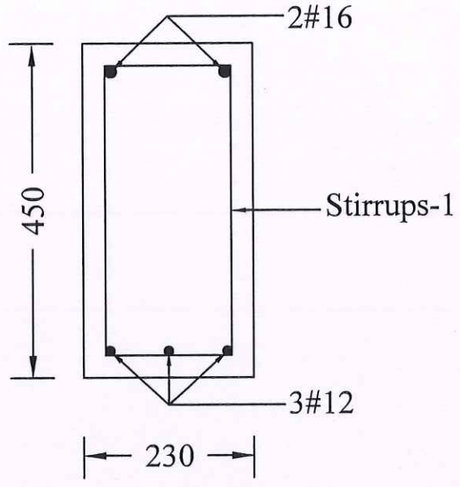
STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

GRADE BEAM DETAILS

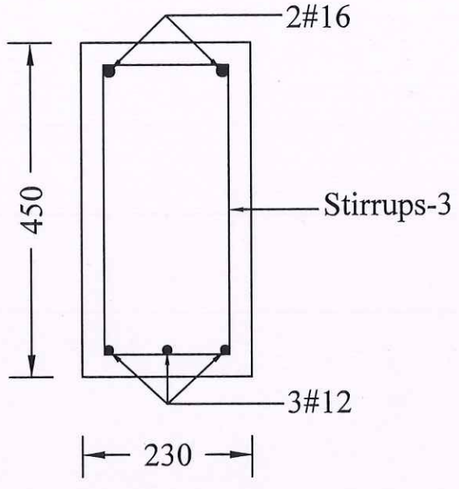
GB1 (230x450)



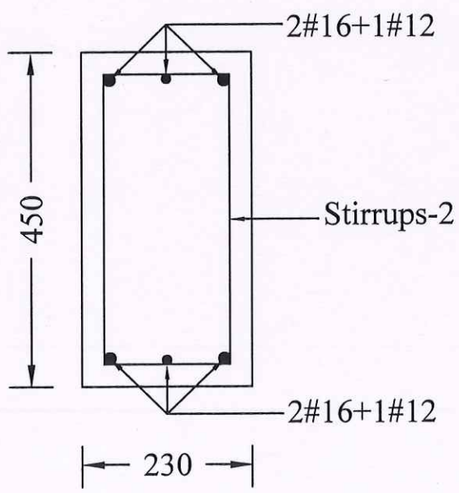
GB2 (230x450)



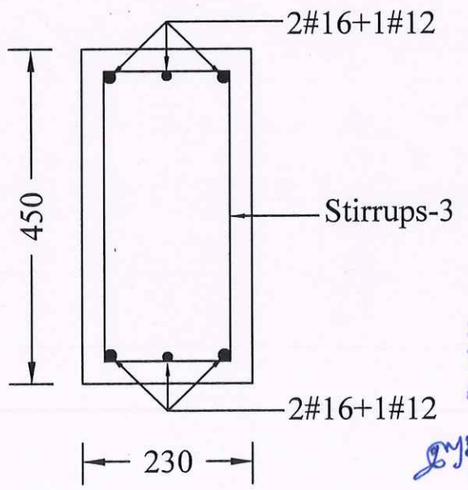
GB2A (230x450)



GB3 (230x450)



GB3A (230x450)



NOTE :

1) Stirrups-1 - 2L#8mm Stirrups @ 75mm c/c for 900 mm length on all side near beam column junction and the rest at 180mm c/c.
2) Stirrups-2 - 2L#8mm Stirrups @ 75mm c/c for 900 mm length on all side near beam column junction and the rest at 125mm c/c.
3) Stirrups-3 - 2L#8mm Stirrups @ 75mm c/c throughout the length.

NOTE :

1. All the dimensions are in mm unless noted otherwise.
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3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
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5. The structure is designed for **seismic zone III** as per IS 1893:2016 and detailed as per IS13920:2016.
6. Solid Blocks has been considered for masonry work in sub structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Strip Raft Footing) is **3.0 m** from the existing ground level & bearing capacity at this level is **150 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
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    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
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22/10/2024

EXECUTIVE ENGINEER (A/S)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

22/10/24

STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
GRADE BEAM DETAILS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/07

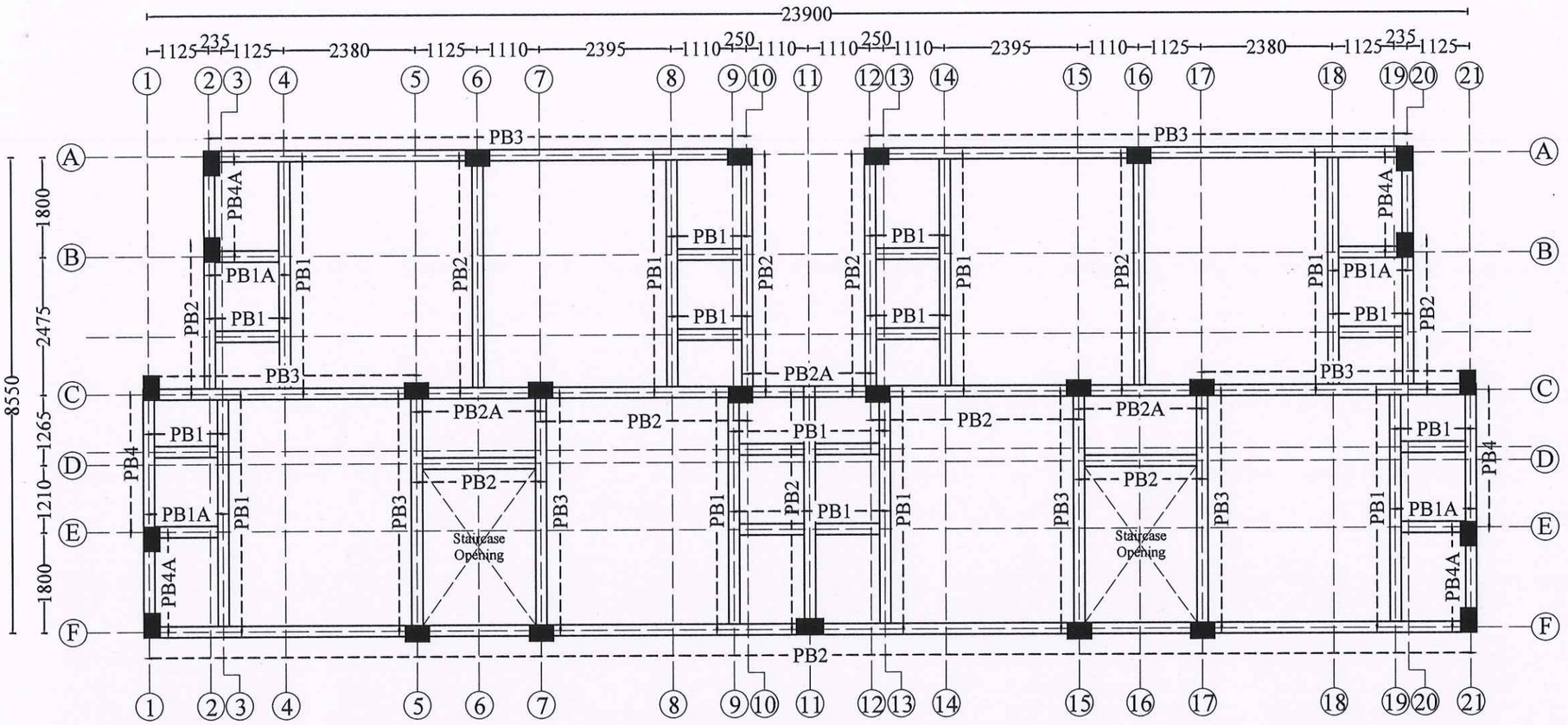
REVISION NO.:

Assistant Engineer	Asst. Exe. Engineer
Executive Engineer	SE - North II

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

PLINTH BEAM LAYOUT



NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
5. The structure is designed for **seismic zone III** as per IS 1893:2016 and detailed as per IS13920:2016.
6. Solid Blocks has been considered for masonry work in sub structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Strip Raft Footing) is **3.0 m** from the existing ground level & bearing capacity at this level is **150 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
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    - (d) Slab - 25 mm
    - (e) Water Tank platform slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
PLINTH BEAM LAYOUT.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/08

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

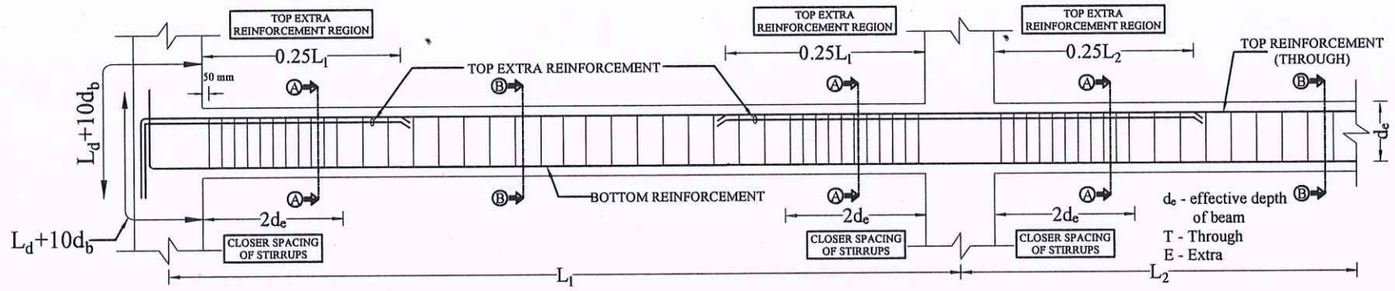
STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

TRUE COPY

22/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

22/10/24

TYPICAL CURTAILMENT & STIRRUPS DETAILS



PLINTH BEAM DETAILS

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	PB1 200 x 380	2#12(T)+1#12(E) 380 2L-#8@75mm c/c for 700mm length from column face 3#12 200	2#12(T) 380 2L-#8@180 mm c/c rest 3#12 200
2.	PB1A 200 x 380	2#12(T)+1#12(E) 380 2L-#8@75mm c/c 3#12 200	2#12(T) 380 2L-#8@75 mm c/c 3#12 200
3.	PB2 200 x 450	2#16(T) 450 2L-#8@95mm c/c for 900mm length from column face 3#12 200	2#16(T) 450 2L-#8@150mm c/c rest 3#12 200
4.	PB2A 200 x 450	2#16(T) 450 2L-#8@95mm c/c 3#12 200	2#16(T) 450 2L-#8@95mm c/c 3#12 200

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
5.	PB3 200 x 450	2#16(T)+1#12(E) 450 2L-#8@75mm c/c for 900mm length from column face 3#12 200	2#16(T) 450 2L-#8@180mm c/c rest 3#12 200
6.	PB4 200 x 450	2#16(T)+1#12(E) 450 2L-#8@75mm c/c for 900mm length from column face 2#16+1#12 200	2#16(T) 450 2L-#8@125mm c/c 2#16+1#12 200
7.	PB4A 200 x 450	2#16(T)+1#12(E) 450 2L-#8@75mm c/c 2#16+1#12 200	2#16(T) 450 2L-#8@75mm c/c 2#16+1#12 200

TRUE COPY

22/10/2024

EXECUTIVE ENGINEER (A/c)

STRUCTURAL AND QUALITY CONTROL CELL

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD

5, KAMARAJAR SALAI, CHENNAI-600 005.

22/10/24

NOTE :

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2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
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7. Structure is designed for (G+3) floors only.
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10. Analysis of the structure done with **ETABS.**
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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
PLINTH BEAM DETAILS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/09

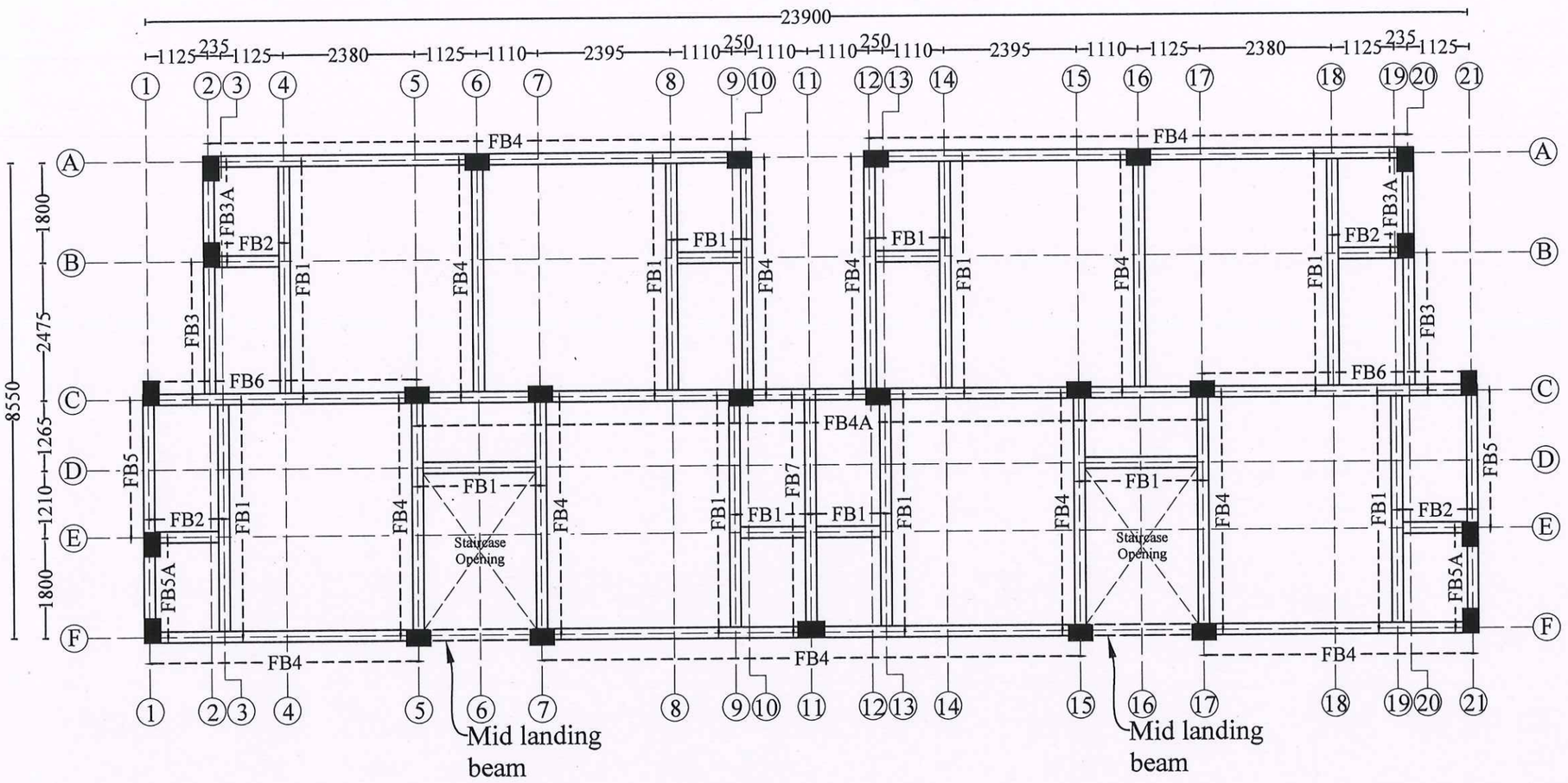
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

GROUND & FIRST FLOOR BEAM LAYOUT



NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
GROUND & FIRST FLOOR BEAM LAYOUT.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/10

REVISION NO.:

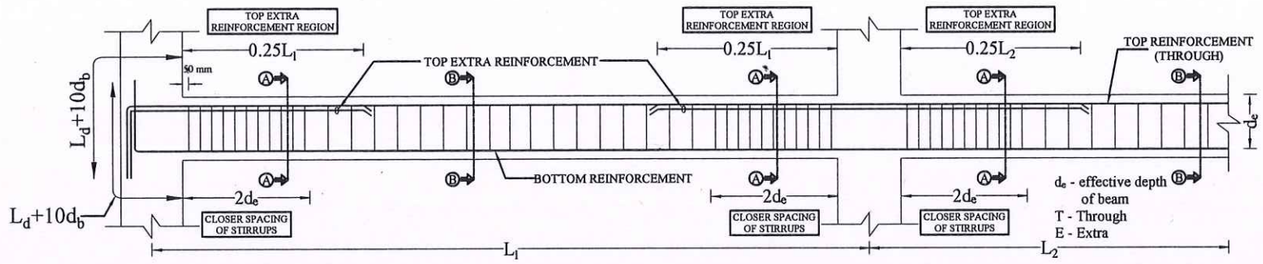
Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

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22/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.
22/10/24

TYPICAL CURTAILMENT & STIRRUPS DETAILS



GROUND & FIRST FLOOR BEAM DETAILS

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	FB1 200 x 450	2#12(T)+1#12(E) 2L-#8@75mm c/c for 900mm length from column face 3#12	2#12(T) 2L-#8@75mm c/c rest 3#12
2.	FB2 200 x 450	2#16(T)+2#12(E) 2L-#8@75mm c/c 3#12	2#16(T) 2L-#8@75mm c/c 3#12
3.	FB3 200 x 450	2#16(T)+1#12(E) 2L-#8@75mm c/c for 900mm length from column face 2#16+1#12	2#16(T) 2L-#8@150mm c/c rest 2#16+1#12
4.	FB3A 200 x 450	2#16(T)+1#12(E) 2L-#8@75mm c/c 2#16+1#12	2#16(T) 2L-#8@75mm c/c 2#16+1#12
5.	FB4 200 x 450	2#16(T)+1#16(E) 2L-#8@70mm c/c for 900mm length from column face 2#16	2#16(T) 2L-#8@125mm c/c rest 2#16
6.	FB4A 200 x 450	2#16(T)+1#16(E) 2L-#8@95mm c/c 2#16	2#16(T) 2L-#8@95mm c/c 2#16
7.	FB5 200 x 450	2#16(T)+1#16(E) 2L-#8@75mm c/c for 900mm length from column face 2#16+1#12	2#16(T) 2L-#8@100mm c/c rest 2#16+1#12
8.	FB5A 200 x 450	2#16(T)+1#16(E) 2L-#8@75mm c/c 2#16+1#12	2#16(T) 2L-#8@75mm c/c 2#16+1#12
9.	FB6 200 x 450	2#16(T)+3#12(E) 2L-#8@75mm c/c for 900mm length from column face 2#16+1#12	2#16(T) 2L-#8@125mm c/c rest 2#16+1#12
10.	FB7 200 x 450	2#16(T)+1#16(E) 2L-#8@75mm c/c for 900mm length from column face 2#16	2#16(T) 2L-#8@125mm c/c rest 2#16

NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
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6. Solid Blocks has been considered for masonry work in sub structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Strip Raft Footing) is **3.0 m** from the existing ground level & bearing capacity at this level is **150 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
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19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
GROUND & FIRST FLOOR BEAM DETAILS

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/11

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

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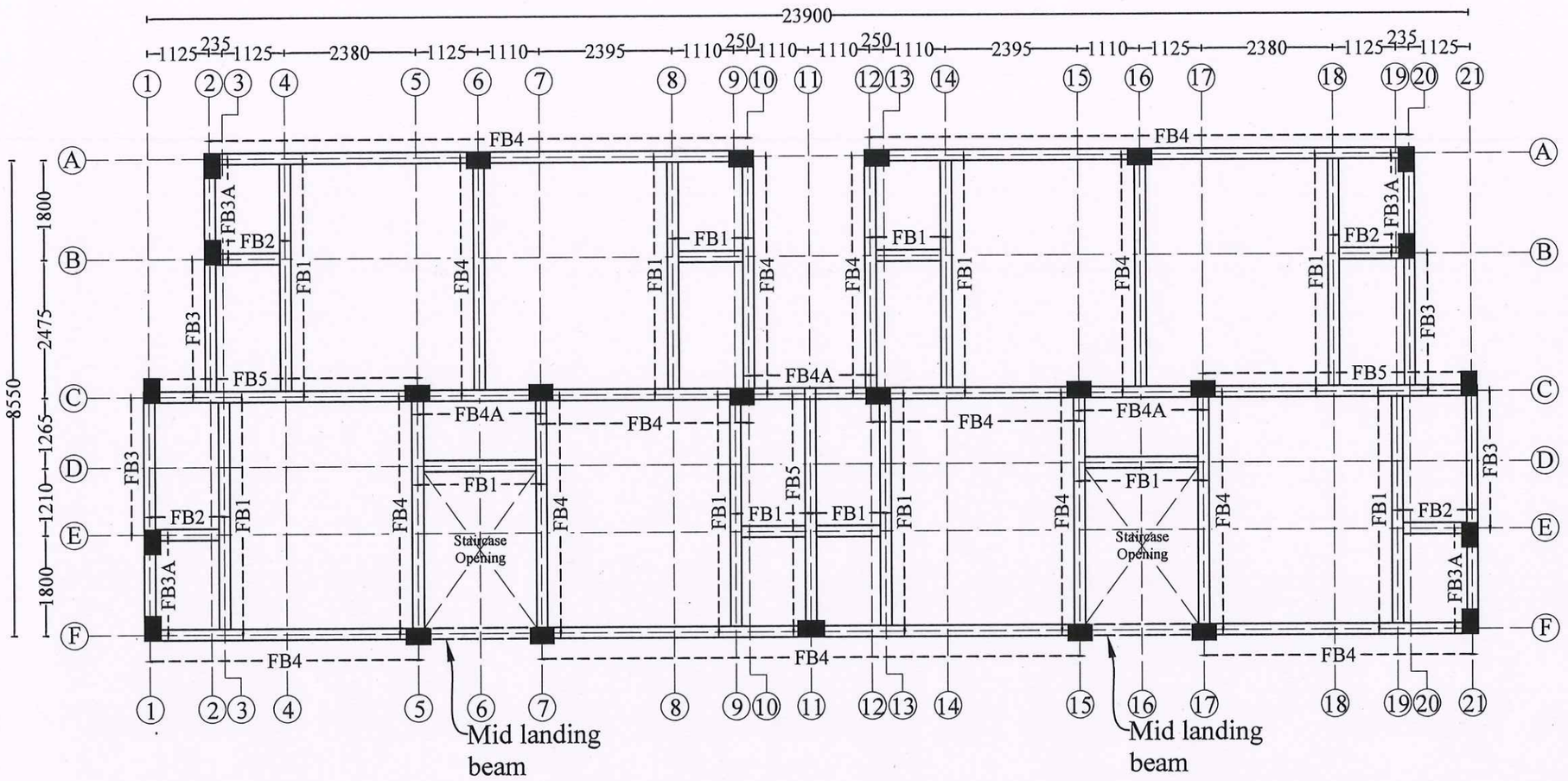
22/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

22/10/24

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

SECOND FLOOR BEAM LAYOUT



NOTE :

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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
SECOND FLOOR BEAM LAYOUT .

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/12

REVISION NO.:

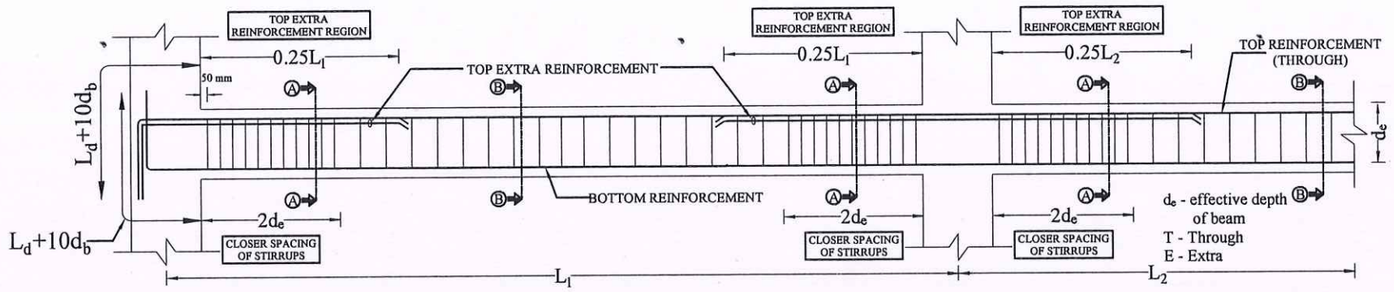
Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

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22/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.
22/10/24

TYPICAL CURTAILMENT & STIRRUPS DETAILS



SECOND FLOOR BEAM DETAILS

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	FB1 200 x 450	2#12(T)+1#12(E) 450 2L-#8@75mm c/c for 900mm length from column face 3#12 200	2#12(T) 450 2L-#8@180mm c/c rest 3#12 200
2.	FB2 200 x 450	2#16(T)+1#16(E) 450 2L-#8@70mm c/c 3#12 200	2#16(T) 450 2L-#8@70mm c/c 3#12 200
3.	FB3 200 x 450	2#16(T) 450 2L-#8@75mm c/c for 900mm length from column face 3#12 200	2#16(T) 450 2L-#8@150mm c/c rest 3#12 200
4.	FB3A 200 x 450	2#16(T) 450 2L-#8@75mm c/c 3#12 200	2#16(T) 450 2L-#8@75mm c/c 3#12 200
5.	FB4 200 x 450	2#16(T)+1#12(E) 450 2L-#8@75mm c/c for 900mm length from column face 2#16 200	2#16(T) 450 2L-#8@125mm c/c rest 2#16 200
6.	FB4A 200 x 450	2#16(T)+1#12(E) 450 2L-#8@75mm c/c 2#16 200	2#16(T) 450 2L-#8@75mm c/c 2#16 200
7.	FB5 200 x 450	2#16(T)+3#12(E) 450 2L-#8@75mm c/c for 900mm length from column face 2#16+1#12 200	2#16(T) 450 2L-#8@125mm c/c rest 2#16+1#12 200

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22/10/2024

EXECUTIVE ENGINEER (A/c)

STRUCTURAL AND QUALITY CONTROL CELL

TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD

5, KAMARAJAR SALAI, CHENNAI-600 005.

22/10/24

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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
SECOND FLOOR BEAM DETAILS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/13

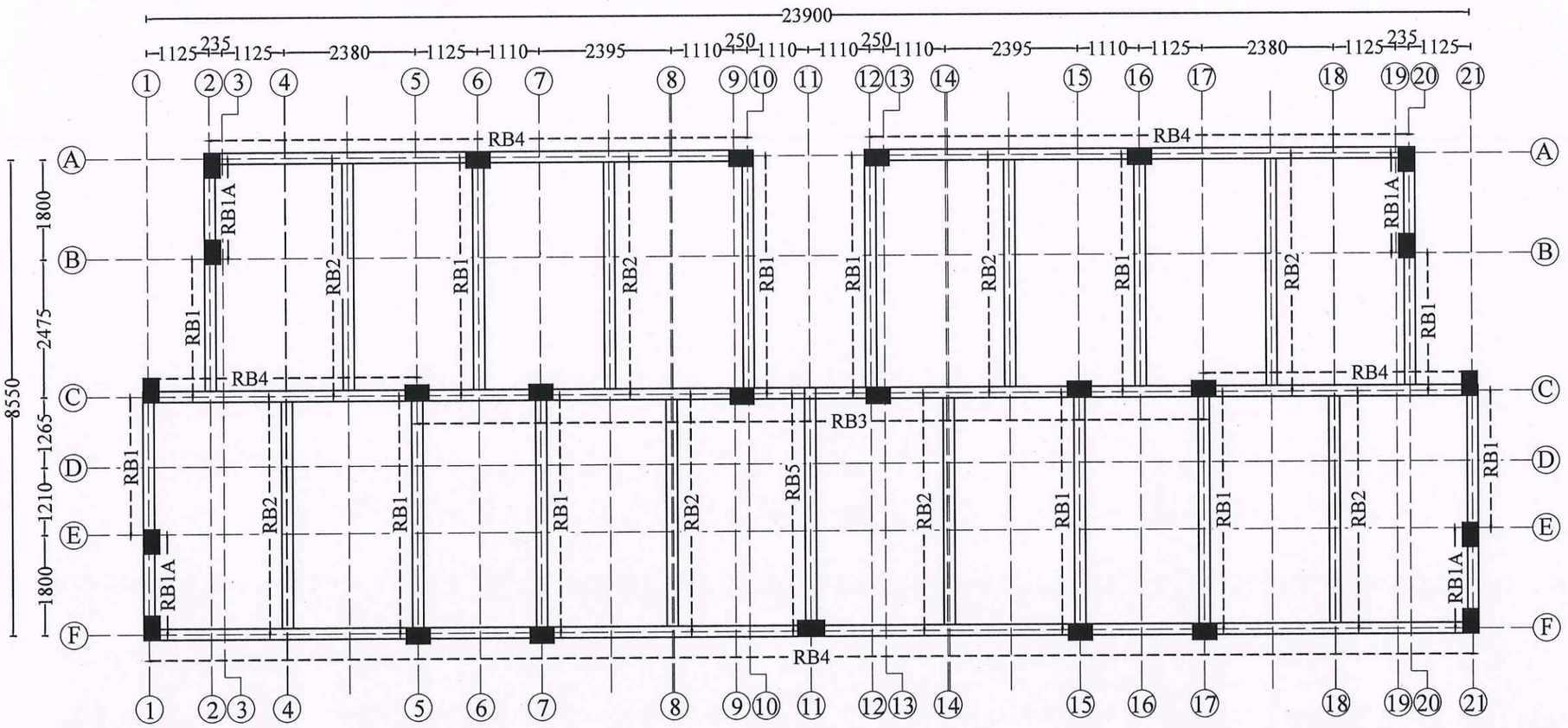
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

TERRACE FLOOR BEAM LAYOUT



NOTE :

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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
TERRACE FLOOR BEAM LAYOUT.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/14

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

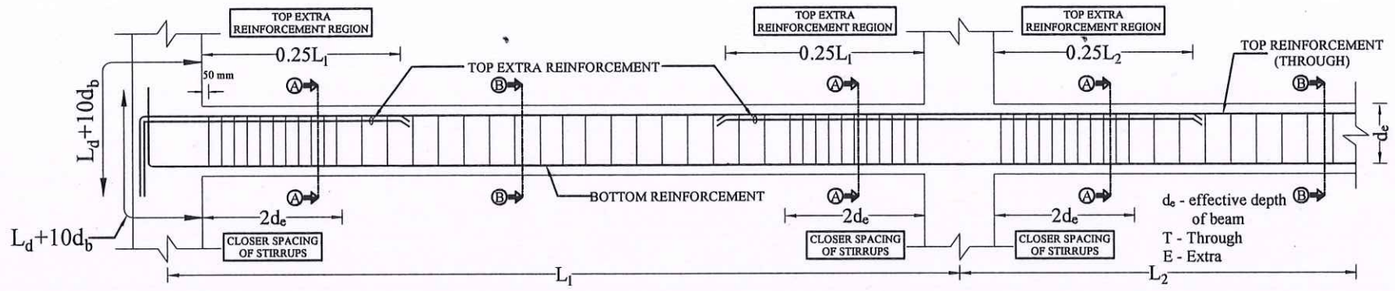
STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

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22/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

22/10/24

TYPICAL CURTAILMENT & STIRRUPS DETAILS



TERRACE FLOOR BEAM DETAILS

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
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2.	RB1A 200 x 450	2#16(T) 450 2L-#8@75mm c/c 3#12 200	2#16(T) 450 2L-#8@75mm c/c 3#12 200
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4.	RB3 200 x 450	2#16(T)+1#12(E) 450 2L-#8@75mm c/c for 900mm length from column face 3#12 200	2#16(T) 450 2L-#8@125mm c/c rest 3#12 200

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
5.	RB4 200 x 450	2#16(T)+2#12(E) 450 2L-#8@75mm c/c for 900mm length from column face 2#16+1#12 200	2#16(T) 450 2L-#8@125mm c/c rest 2#16+1#12 200
6.	RB5 200 x 450	2#16(T)+1#12(E) 450 2L-#8@75mm c/c for 900mm length from column face 2#16+1#12 200	2#16(T) 450 2L-#8@180mm c/c rest 2#16+1#12 200

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22/10/2024

EXECUTIVE ENGINEER (A/c)
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22/10/24

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STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
TERRACE FLOOR BEAM DETAILS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/15

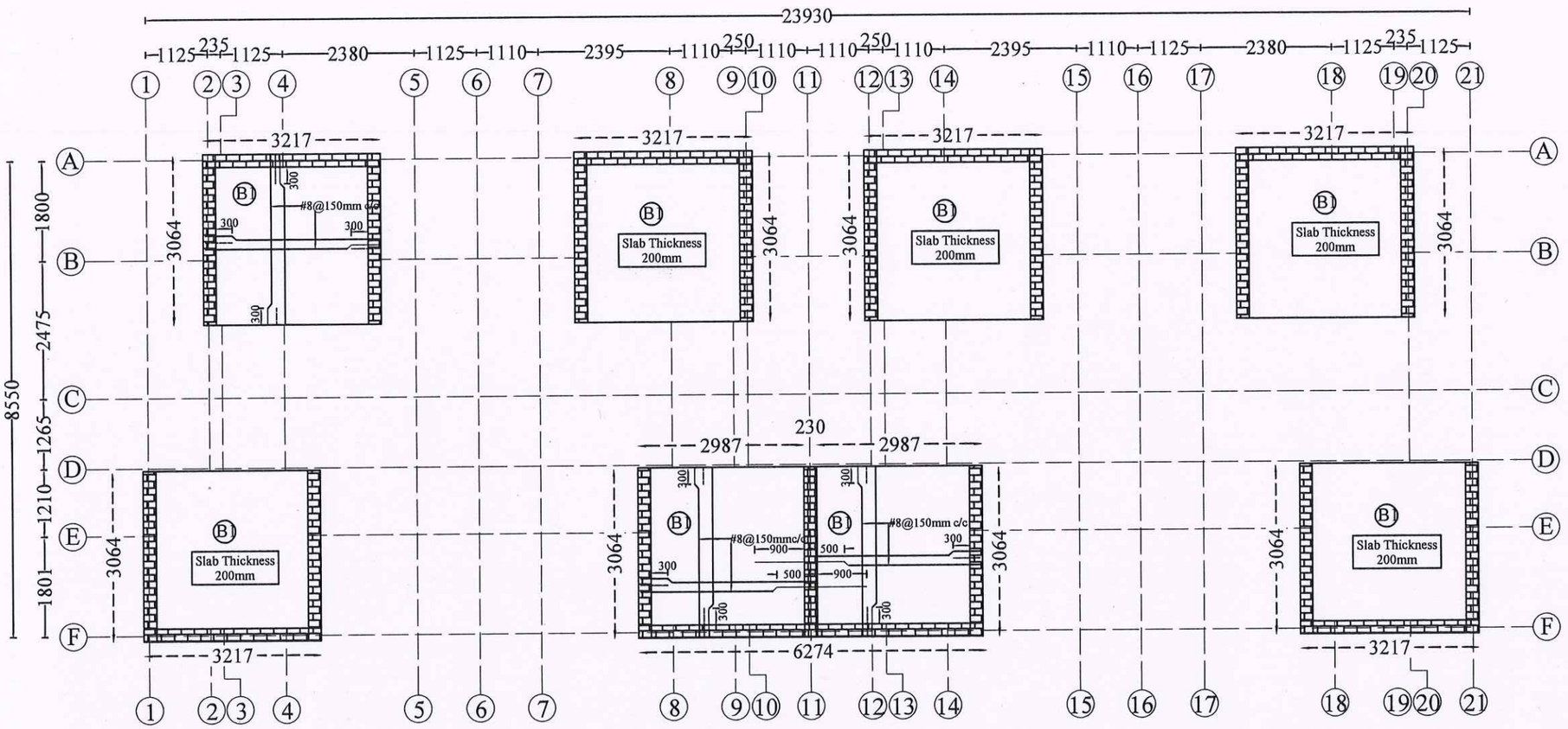
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

LOCATION OF WATER TANK PLATFORM SLAB & SLAB DETAILS



- 230mm Fly Ash Brick work

NOTE:
1. Water Tank Base Slab can be rested in Brick Work

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5. The structure is designed for **seismic zone III** as per IS 1893:2016 and detailed as per IS13920:2016.
6. Solid Blocks has been considered for masonry work in sub structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Strip Raft Footing) is **3.0 m** from the existing ground level & bearing capacity at this level is **150 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. Field Engineers should ensure that the soil at the recommended founding depth is in conformity to the soil characteristic detailed in the soil test report. If any variation in soil strata is encountered at the recommended foundation depth, then the same should be informed to the Chief Engineer at once for review.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. The TDS and chemical content of ground water may be checked and ensured that they are not exceeding the permissible limits prior to the use of same for construction activities.
22. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
23. The Recommendations in the soil report done by Prof. V.K. Stalin and Dr. M. Muttharam, Anna University, Report No.: SM&FE 215 &215a/Consultancy/ 2023 Dt.:18.04.2023& 23.07.2024 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
LOCATION OF WATER TANK PLATFORM SLAB & SLAB DETAILS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/16

REVISION NO.:

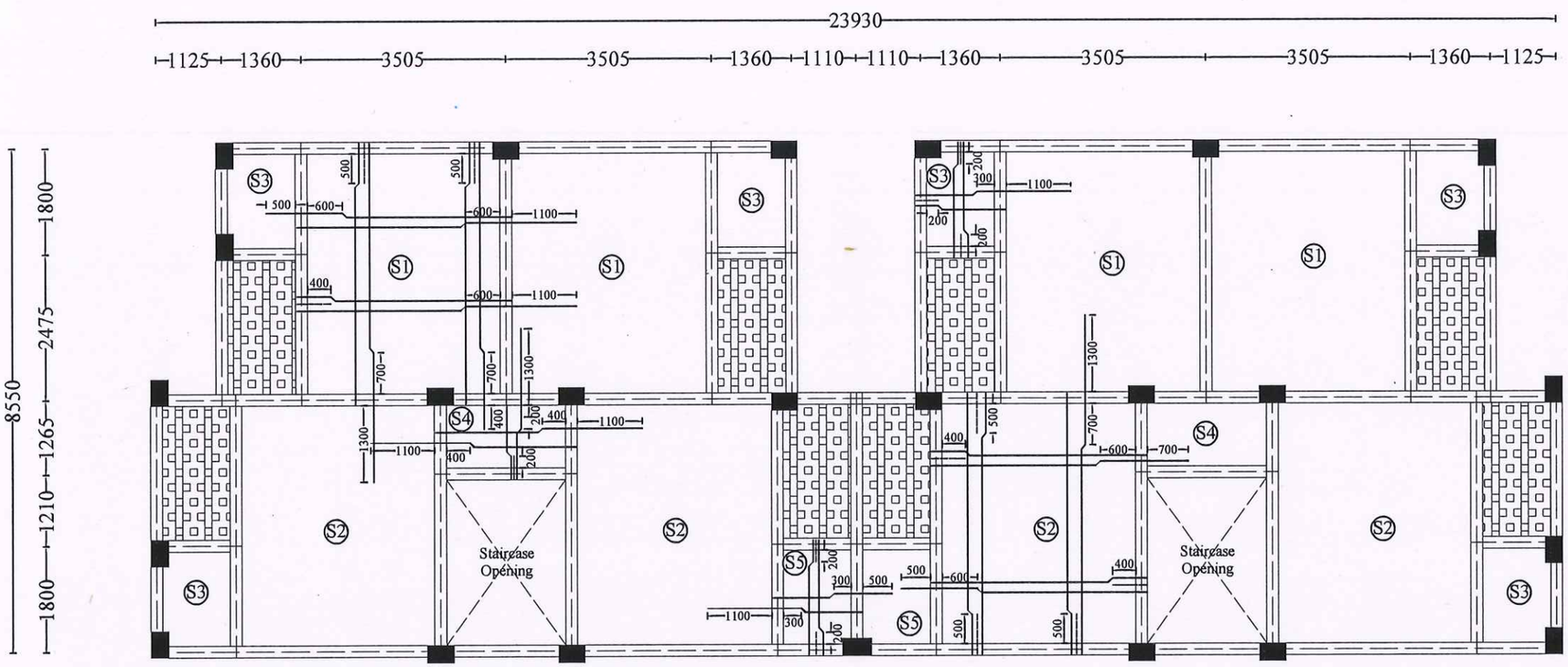
Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

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EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.
22/10/24

TYPICAL FLOOR SLAB DETAILS



SLAB SUNKEN BY 325mm

Note:
1. SLAB 125mm THICK
2. ALL SLAB REINFORCEMENT ARE #8@150mm c/c
3. For sunken slab details refer drawing **TNUHDB/POWER KUPPAM**/BLOCK6&11/GEN/02

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5, KAMARAJAR SALAI, CHENNAI-600 005.
22/10/24

NOTE:

1. All the Dimensions are in mm.
2. M30 Concrete and Fe500D grade steel shall be adopted.
3. Slab Thickness is 125mm.
4. Clear cover to slab is 25mm.
5. Crank point distances are as shown.
6. "-------" denotes extra rods to be provided at top

STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
TYPICAL FLOOR SLAB DETAILS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/17

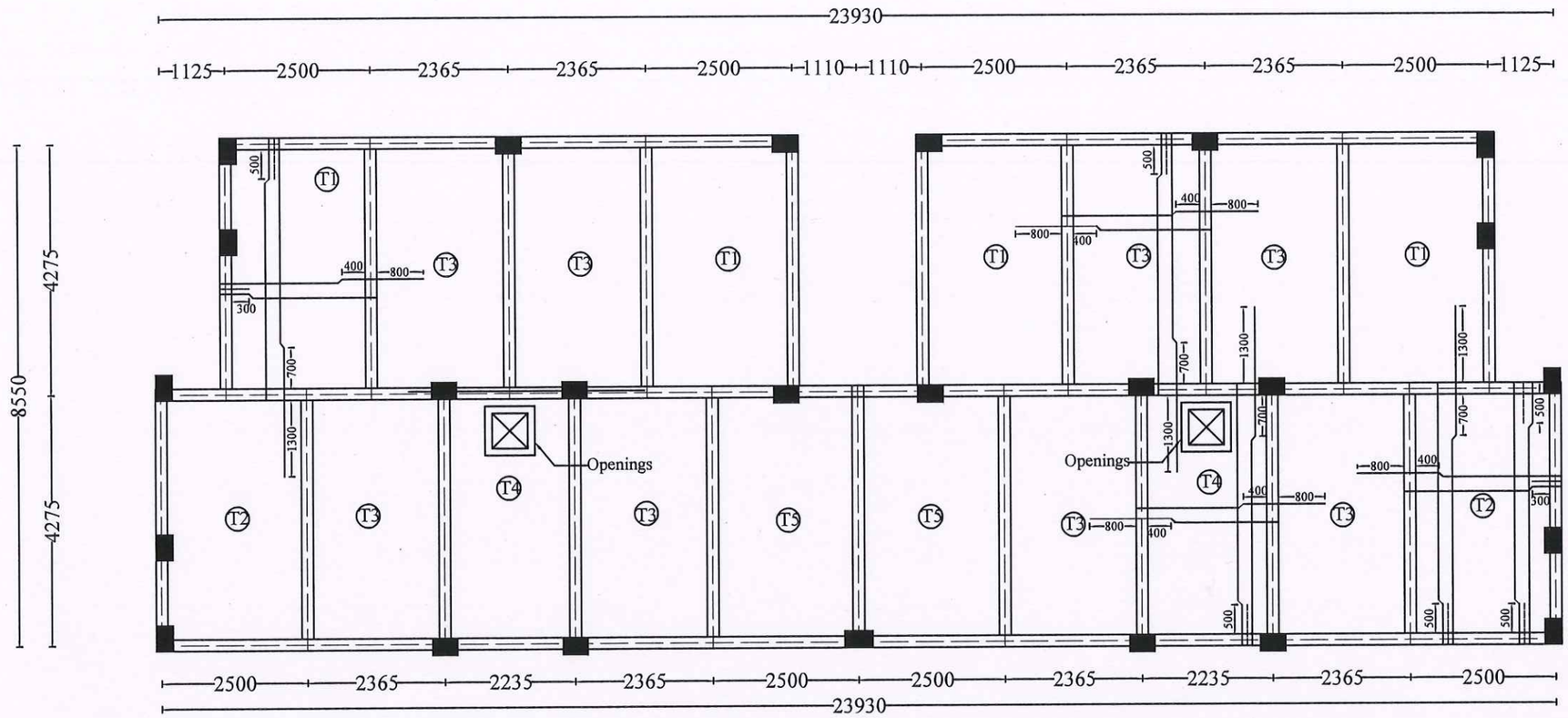
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

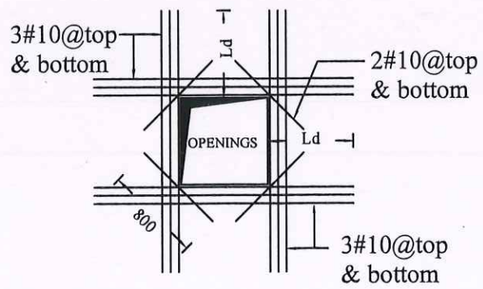
sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

TERRACE FLOOR SLAB DETAILS



Note:
1.SLAB 125mm THICK
2.ALL SLAB REINFORCEMENT ARE #8@150mm c/c



DETAILS OF OPENINGS

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STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.
22/10/24

NOTE:

1. All the Dimensions are in mm.
2. M30 Concrete and Fe500D grade steel shall be adopted.
3. Slab Thickness is 125mm.
4. Clear cover to slab is 25mm.
5. Crank point distances are as shown.
6. "-------" denotes extra rods to be provided at top

STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
TERRACE FLOOR SLAB DETAILS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/18

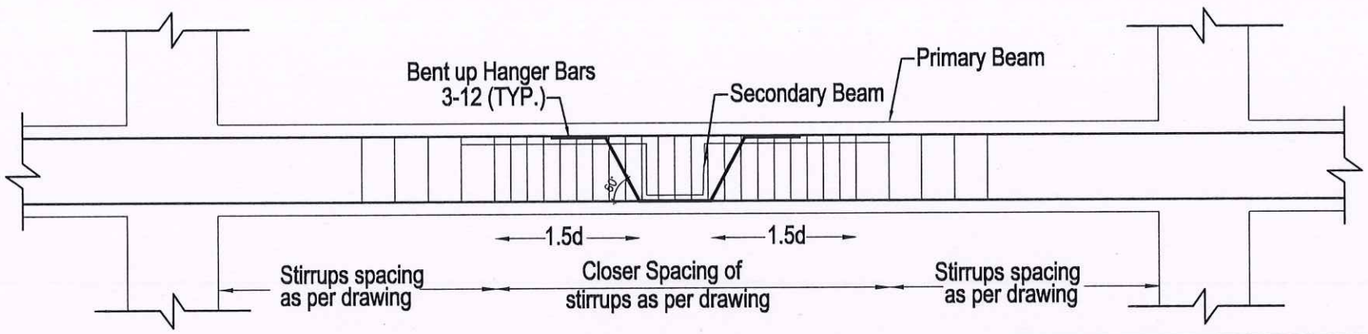
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

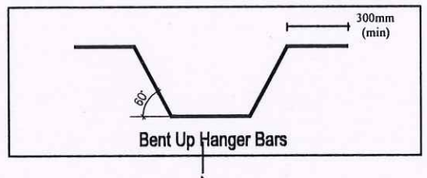
sd.xxxx 19.10.2024
Chief Engineer - I

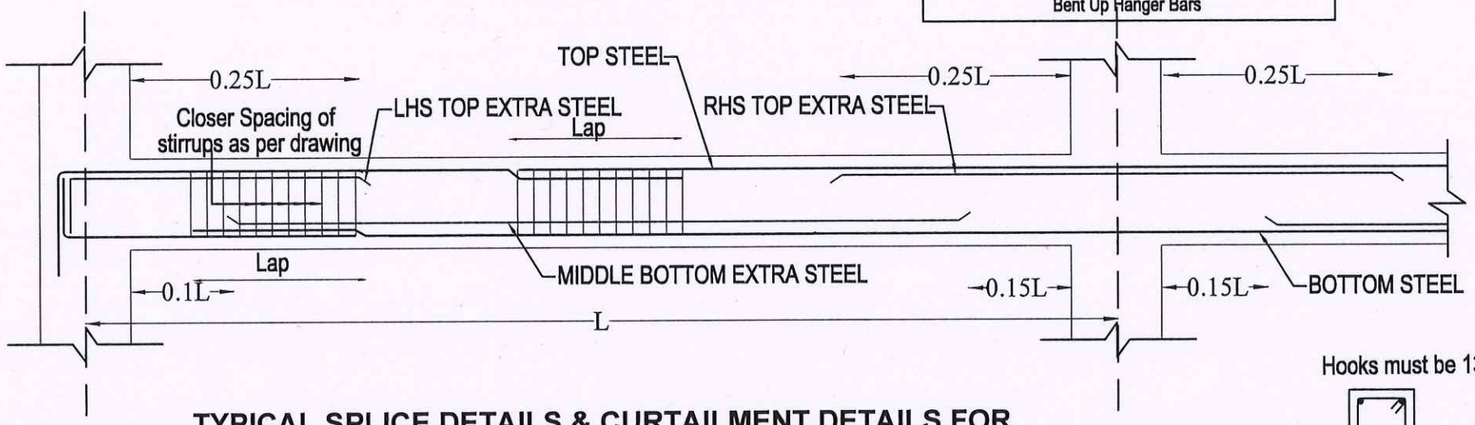
STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

TYPICAL DETAILS FOR ALL THE FLOOR BEAMS

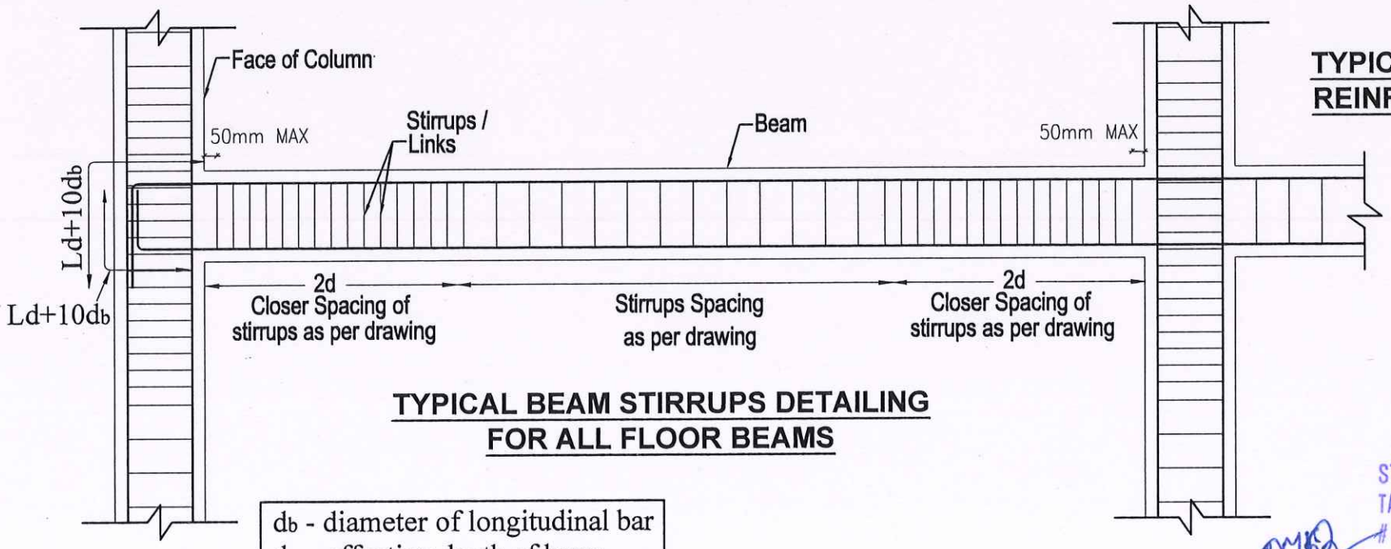


TYPICAL BENT UP HANGER BAR DETAILS AT MAIN AND SECONDARY BEAM JUNCTIONS



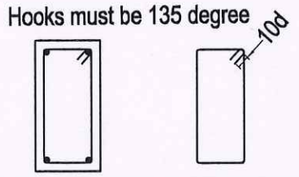


TYPICAL SPLICE DETAILS & CURTAILMENT DETAILS FOR ALL FLOOR BEAMS



TYPICAL BEAM STIRRUPS DETAILING FOR ALL FLOOR BEAMS

d_b - diameter of longitudinal bar
d - effective depth of beam



TYPICAL DETAILS OF TRANSVERSE REINFORCEMENT HOOKS IN BEAM.

Grade of Concrete	Development length of bars in Tension		Development length of bars in Compression	
	Grade of Steel		Grade of Steel	
	Fe 500	Fe 550	Fe 500	Fe 550
M20	57Ø	63Ø	46Ø	50Ø
M25	49Ø	54Ø	39Ø	43Ø
M30	46Ø	50Ø	37Ø	40Ø
M35	40Ø	44Ø	32Ø	36Ø
≥M40	36Ø	40Ø	29Ø	32Ø
Ø - Diameter of bar.				

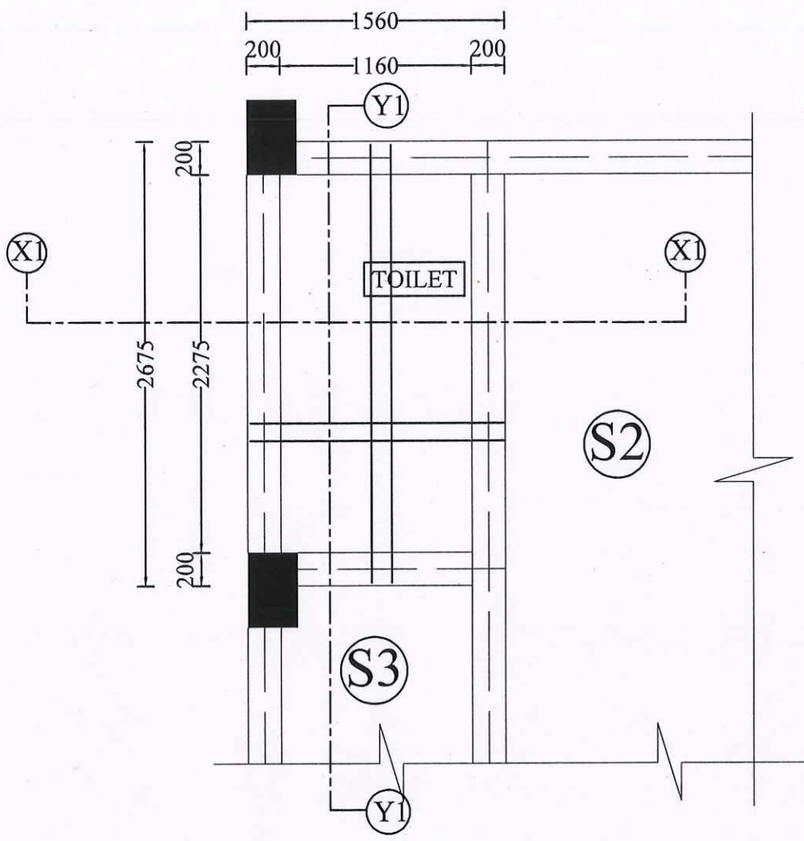
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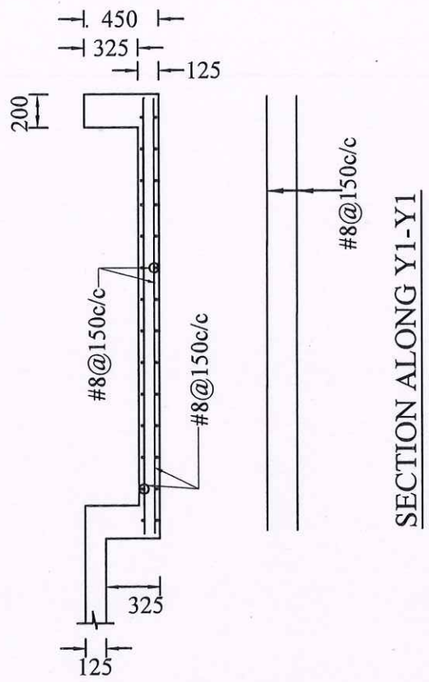
22/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

22/10/24

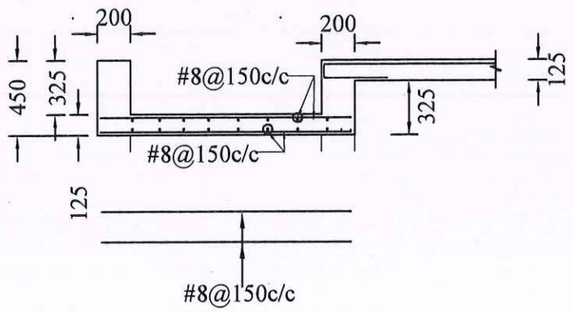
STRUCTURAL DETAILS	
PROJECT: RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.	
TITLE: TYPICAL DETAILS FOR ALL THE FLOOR BEAMS	
TYPE DESIGN NO.: 01/1982 [TYPE - D]	
DWG.NO.: TNUHDB /POWER KUPPAM/BLOCK6&11/ GEN/01.	
REVISION NO.:	
Assistant Engineer	Asst. Exe. Engineer
Executive Engineer	SE - North II
sd.xxxx 19.10.2024 Chief Engineer -I	
STRUCTURAL & QUALITY CONTROL CELL TAMIL NADU URBAN HABIAT DEVELOPMENT BOARD NO.5, KAMARAJAR SALAI CHENNAI - 600 005.	

TYPICAL SUNKEN SLAB DETAILS





SECTION ALONG Y1-Y1



SECTION ALONG X1-X1

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STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

22/10/24

NOTE:

1. All the Dimensions are in mm.
2. M30 Concrete and Fe500D grade steel shall be adopted.
3. Slab Thickness is 125mm.
4. Clear cover to slab is 25mm.
5. Crank point distances are as shown.
6. "-------" denotes extra rods to be provided at top.
7. Bars in Shorter direction shall be placed below Bars placed in the Longer direction.

STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
TYPICAL SUNKEN SLAB DETAILS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/GEN/02

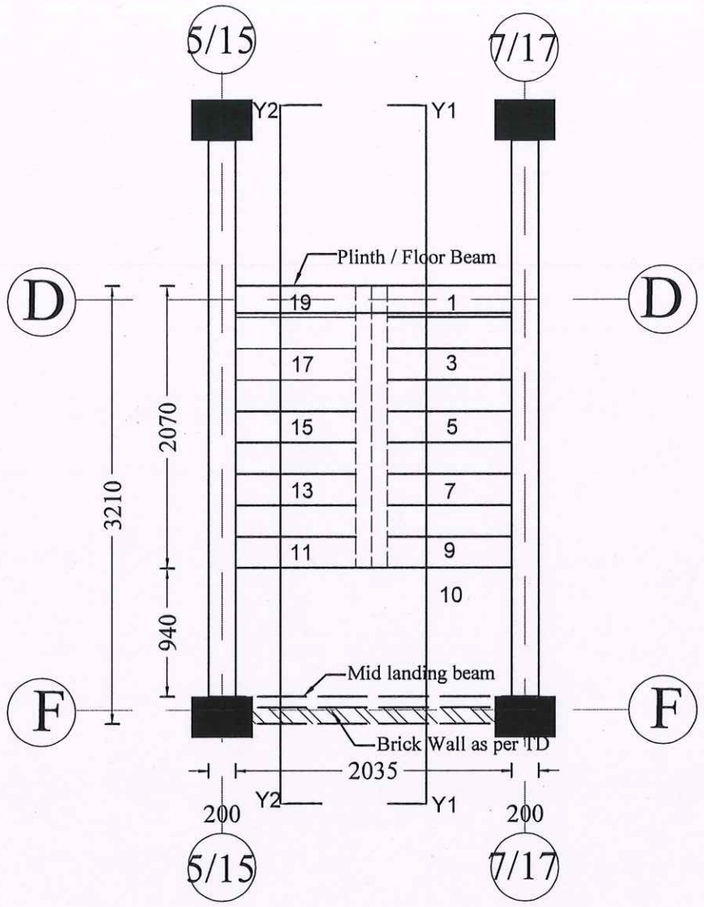
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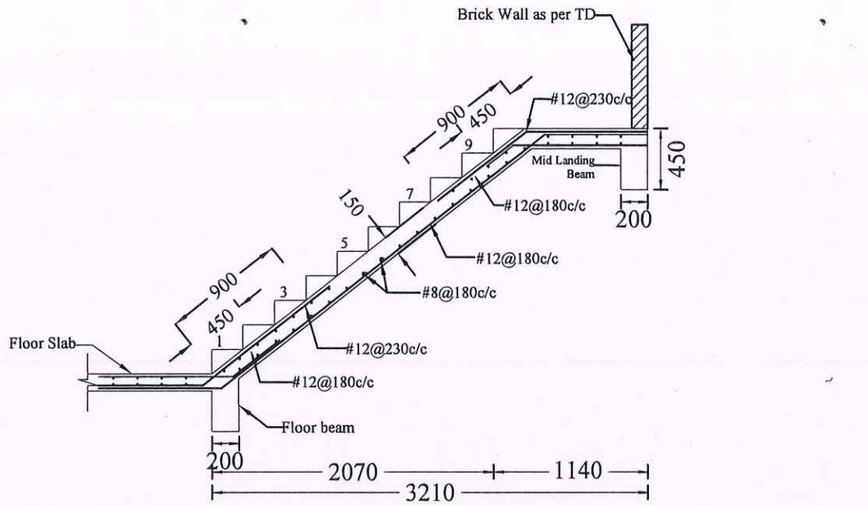
Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

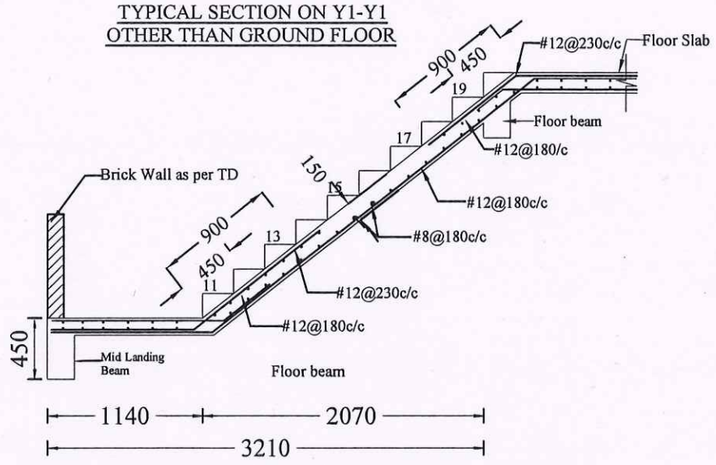
STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

TYPICAL STAIRCASE DETAILS

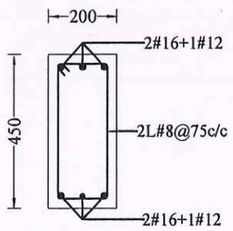




TYPICAL SECTION ON Y1-Y1
OTHER THAN GROUND FLOOR

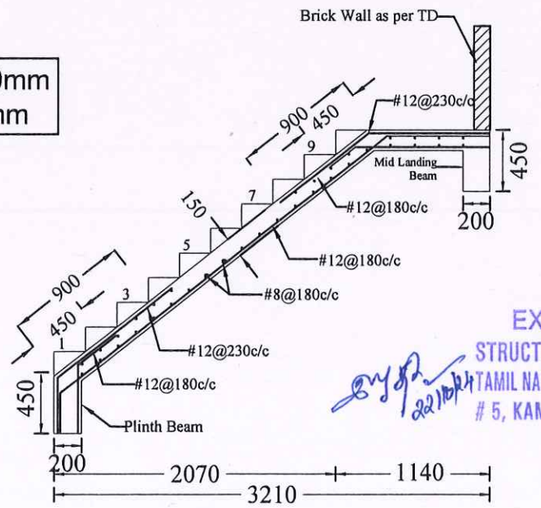


TYPICAL SECTION ON Y2-Y2



C/S OF MID
LANDING BEAM

TREAD=230mm
RISE=145mm



TYPICAL SECTION ON Y1-Y1
GROUND FLOOR ONLY

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EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

NOTE:

1. All the Dimensions are in mm.
2. M30 Concrete and Fe500D grade steel shall be adopted.
3. Waist slab thickness 150mm
4. Clear cover to waist slab is 25mm.

STRUCTURAL DETAILS

PROJECT:
RECONSTRUCTION OF 64 (G+3) TENEMENTS AT POWER KUPPAM IN TONDIARPET VILLAGE GREATER CHENNAI CORPORATION.

TITLE:
TYPICAL STAIRCASE DETAILS.

TYPE DESIGN NO.: 01/1982 [TYPE - D]

DWG.NO.: TNUHDB/**POWER KUPPAM**/BLOCK6&11/GEN/03

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - North II**

sd.xxxx 19.10.2024
Chief Engineer - I

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
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Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

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

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