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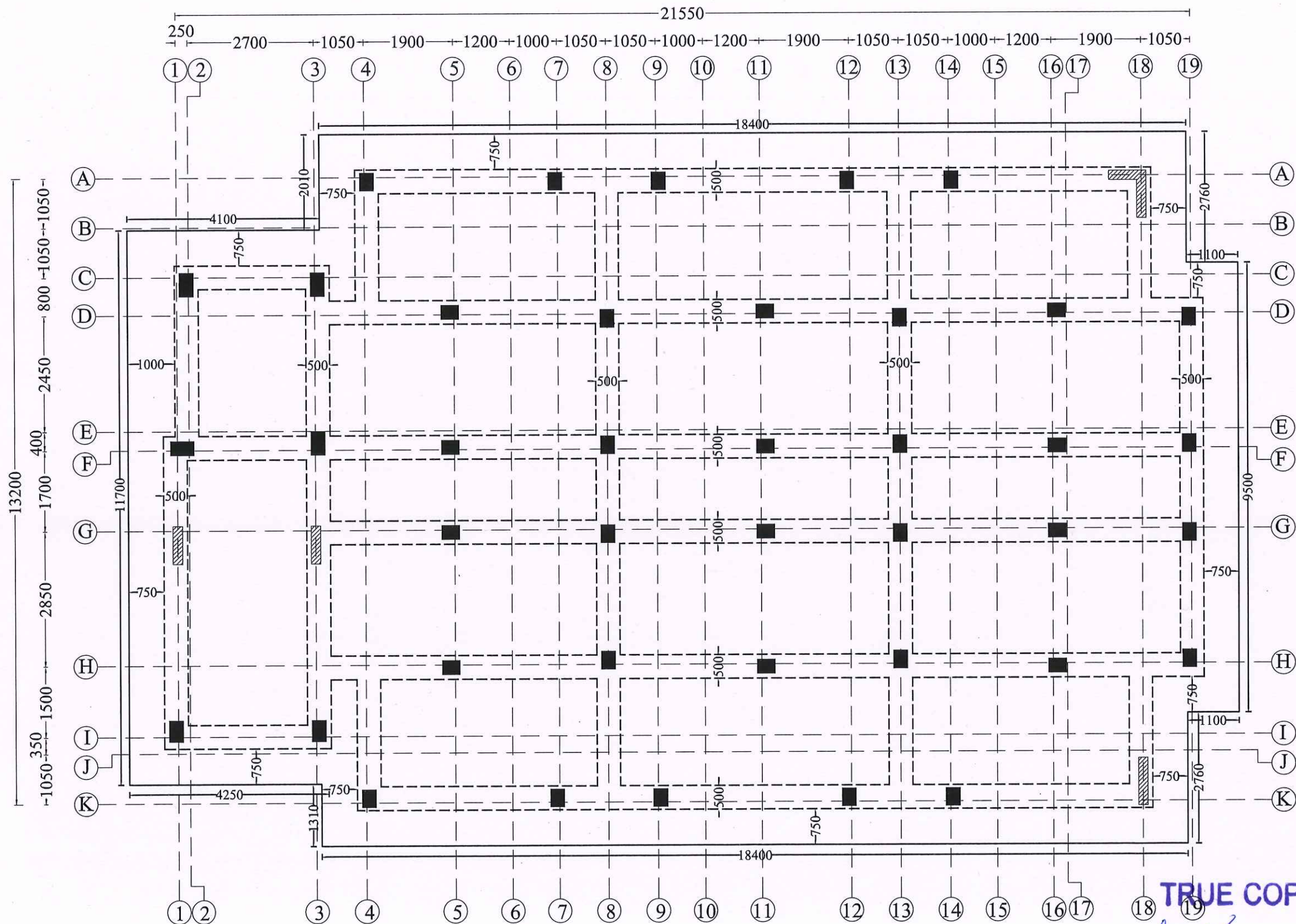
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PLAN AT RAFT FOUNDATION LEVEL



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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 :

- All the dimensions are in mm unless noted otherwise.
- All structural drawings shall be read in conjunction with the relevant Architectural drawings.
- All the RCC works shall be as per design mix of M30 grade, conforming to IS: 456 - 2000.
- All the reinforcement shall be of Fe500D grade conforming to IS 1786 - 2008 unless noted otherwise.
- The structure is designed for seismic zone III as per IS 1893:2016 and detailed as per IS13920:2016.
- AAC Bricks of density 650 Kg/m³ has been considered for masonry work in sub structure, super structure and Fly ash Bricks has been considered for masonry work in Lift.
- Structure is designed for (PS+5) floors only.
- Design of the structure carried out with Limit State Method.
- Raft foundation at a depth of 2.0 m from the existing ground level & Safe bearing capacity at this level is 125 kN/sq.m. as recommended in Soil Report.
- Analysis of the structure done with ETABS.
- Clear cover for reinforcement are as follows:
 - Foundation - 50 mm
 - Column - 40 mm
 - Floor and roof beam - 30 mm
 - Slab - 25 mm
 - Water Tank Walls & Slab - 30 mm
- Design mix report should be got approved by the Anna University/IIT Madras/PWD.
- All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
- Cut lintels to be provided in all floors.
- Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
- Anchorage of column bars into the footings shall not be less than 50 Ø.
- 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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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 32 NOS OF (PS+5) FLOORS
TENEMENTS AT PERIYAPALAYATHAMMAN KOIL
SCHEME IN GREATER CHENNAI CORPORATION UNDER
VERTICAL-III (AHP/PMAY/HFA).

TITLE:
PLAN AT RAFT FOUNDATION LEVEL.

TYPE DESIGN NO.: 39/2022 TYPE A

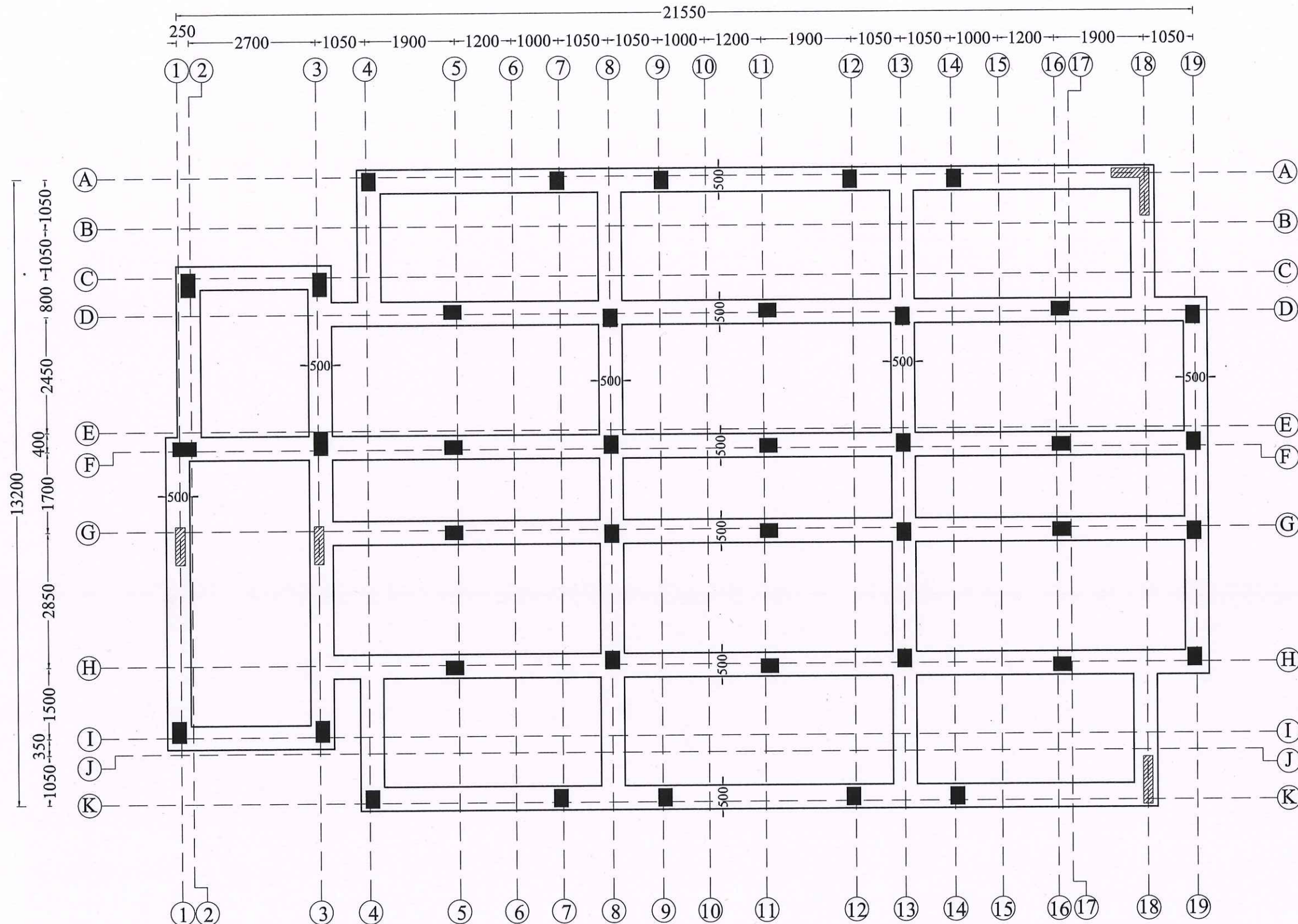
DWG.NO.: TNUHDB/PERIYAPALAYATHAMMAN/01.

REVISION NO.:

Assistant Engineer	Asst. Exe. Engineer
Executive Engineer	sd.xxx 30.01.2024 SE - PMU
sd.xxxxx SE - North I	sd.xxx 24.02.2024 Chief Engineer - North

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

RAFT BEAM LAYOUT



TRUE COPY

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

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VERTICAL-III (AHP/PMAY/HFA).

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RAFT BEAM LAYOUT.

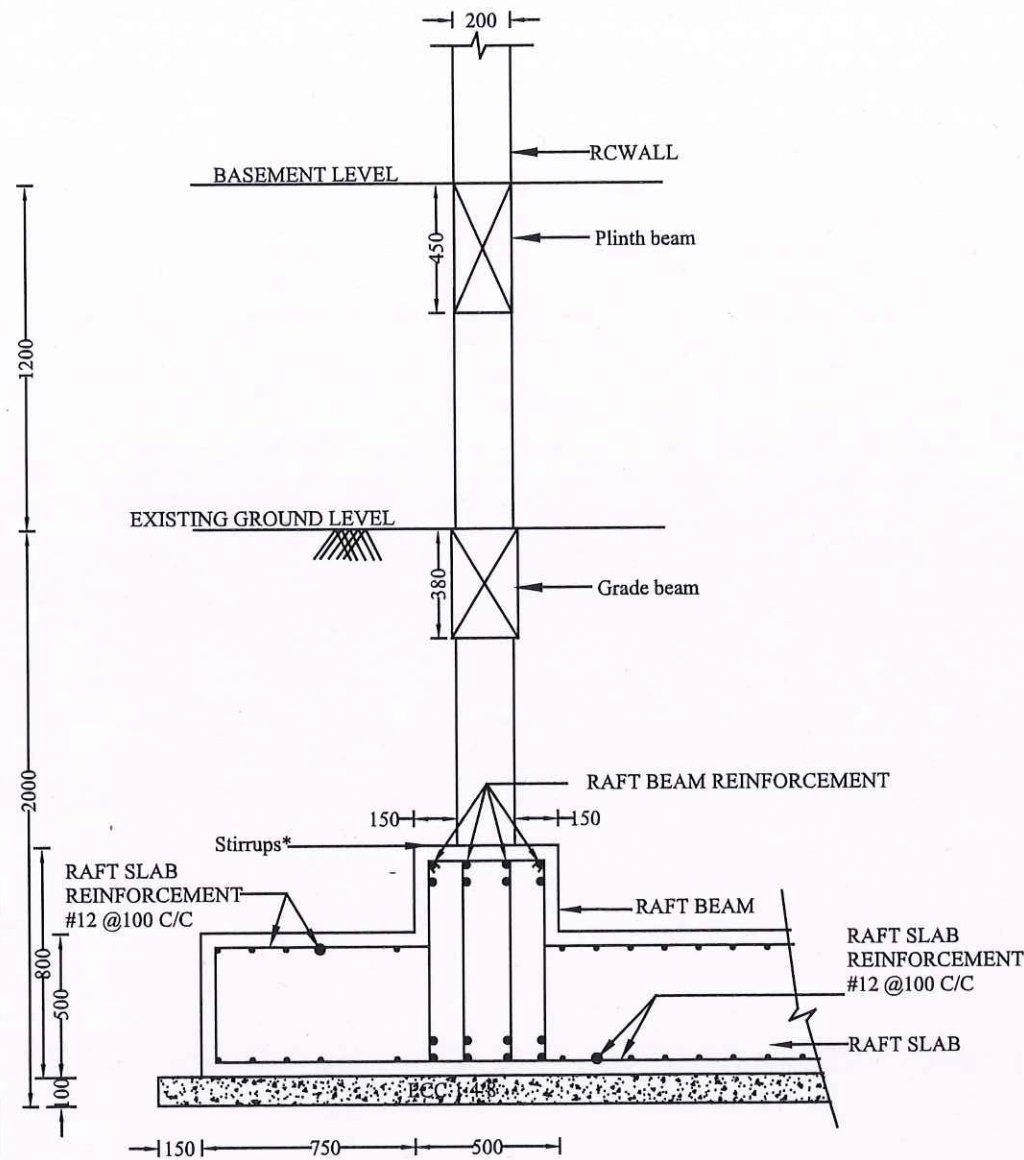
TYPE DESIGN NO.: 39/2022 TYPE A

DWG.NO.: TNUHDB/PERIYAPALAYATHAMMAN/02.

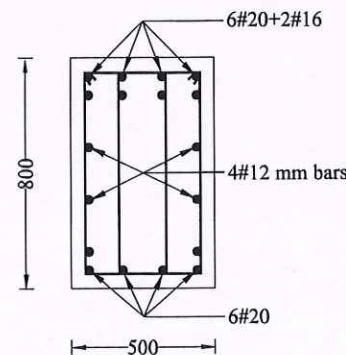
REVISION NO.:

Assistant Engineer	Asst. Exe. Engineer
Executive Engineer	sd.xxx 30.01.2024 SE - PMU
sd.xxxxx SE - North I	sd.xxx 24.02.2024 Chief Engineer - North
STRUCTURAL & QUALITY CONTROL CELL TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD NO.5, KAMARAJAR SALAI CHENNAI - 600 005.	

TYPICAL CROSS SECTION OF RAFT BEAM WITH SLAB DETAILS.

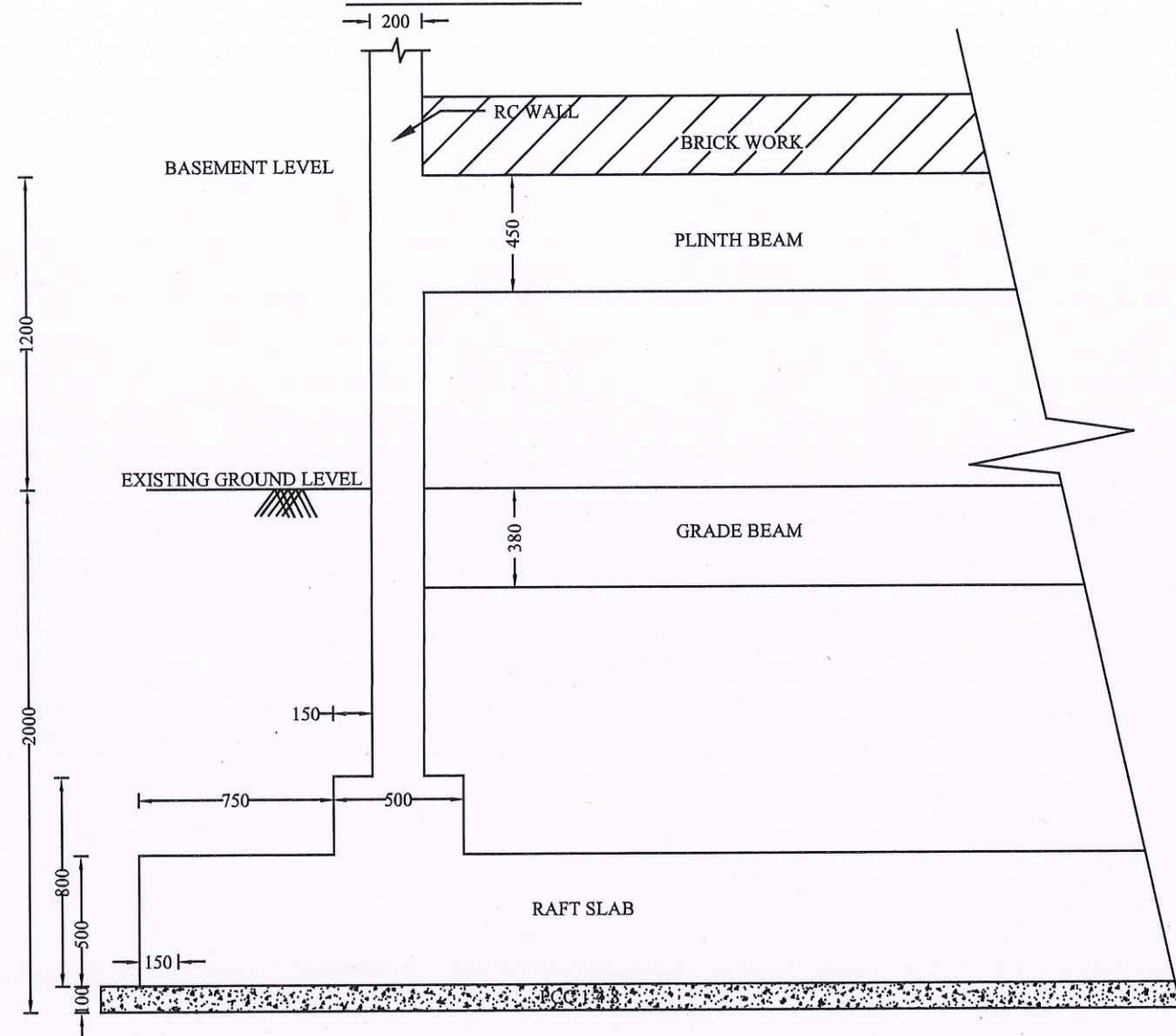


RAFT BEAM DETAILS



NOTE:
* 4 Legged # 8 mm stirrups at 100 mm c/c for 1.5 metre length on all sides near beam-column junctions and the rest at 150mm c/c.

TYPICAL CROSS SECTIONAL ELEVATION OF RAFT BEAM WITH SLAB DETAILS.



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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 32 NOS OF (PS+5) FLOORS TENEMENTS AT PERIYAPALAYATHAMMAN KOIL SCHEME IN GREATER CHENNAI CORPORATION UNDER VERTICAL-III (AHP/PMAY/HFA).

TITLE:
TYPICAL CROSS SECTION & CROSS SECTIONAL ELEVATION OF RAFT BEAM WITH SLAB DETAILS.

TYPE DESIGN NO.: 39/2022 TYPE A

DWG.NO.: TNUHDB/PERIYAPALAYATHAMMAN/03.

REVISION NO.:

Assistant Engineer	Asst. Exe. Engineer
Executive Engineer	sd.xxx 30.01.2024 SE - PMU
sd.xxxxx SE - North I	sd.xxx 24.02.2024 Chief Engineer - North

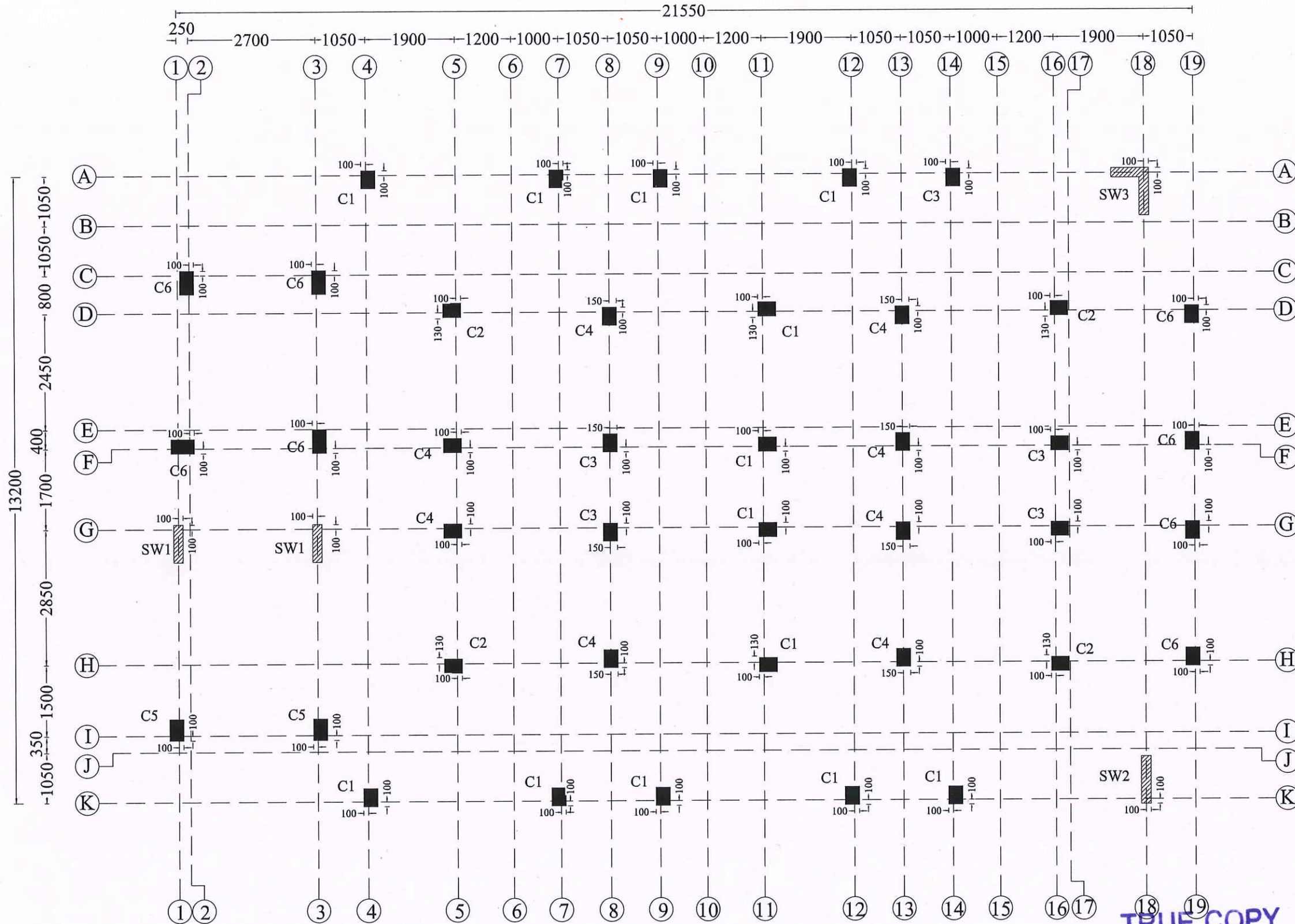
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NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

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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.

sd.xxx
27/02/24

COLUMN & SHEAR WALL LAYOUT



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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 32 NOS OF (PS+5) FLOORS
TENEMENTS AT PERIYAPALAYATHAMMAN KOIL
SCHEME IN GREATER CHENNAI CORPORATION UNDER
VERTICAL-III (AHP/PMAY/HFA).

TITLE:
COLUMN & SHEAR WALL LAYOUT.

TYPE DESIGN NO.: 39/2022 TYPE A

DWG.NO.: TNUHDB/PERIYAPALAYATHAMMAN/04.

REVISION NO.:

Assistant Engineer	Asst. Exc. Engineer
Executive Engineer	sd.xxx 30.01.2024 SE - PMU
sd.xxxxx SE - North I	sd.xxx 24.02.2024 Chief Engineer - North

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

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STRUCTURAL AND QUALITY CONTROL CELL
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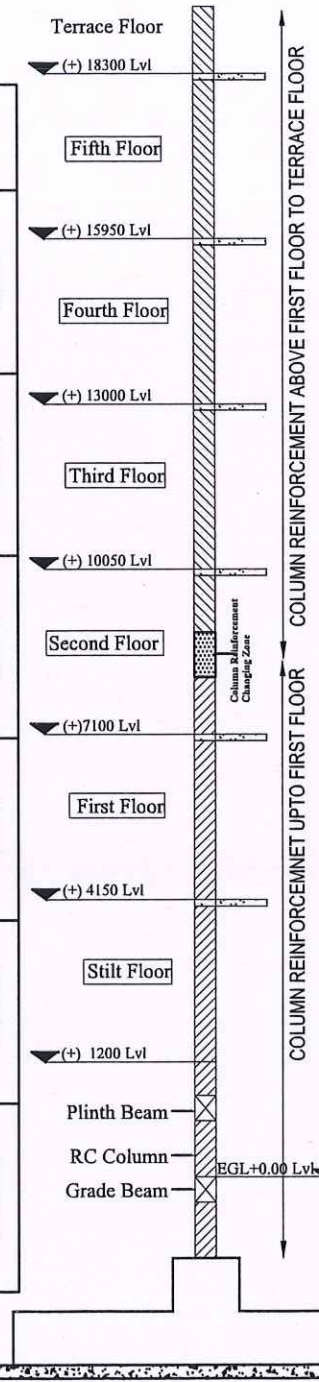
5, KAMARAJAR SALAI, CHENNAI-600 005.

SCHEDULE OF COLUMNS

Sl.No	Column Marking	No of Columns	Size	Upto First Floor Column Reinforcement Details			Above First Floor Column Reinforcement Details			Ties Profile
				Column Verticals	Lateral Ties	Cross Section	Column Verticals	Lateral Ties	Cross Section	
1.	C1	13	300 x 380	# 16 - 6 Nos + # 12 - 2 Nos.	1) Upto Plinth Beam: #10 @ 70 mm c/c 2) Plinth Beam to First floor slab: #10 @ 70 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		# 16 - 6 Nos + # 12 - 2 Nos.	Above First floor slab: #10 @ 70 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		
2.	C2	04	300 x 380	# 16 - 8 Nos.	1) Upto Plinth Beam: #10 @ 70 mm c/c 2) Plinth Beam to First floor slab: #10 @ 70 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		# 16 - 6 Nos + # 12 - 2 Nos.	Above First floor slab: #10 @ 70 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		
3.	C3	05	300 x 380	# 20 - 2 Nos + # 16 - 6 Nos.	1) Upto Plinth Beam: #10 @ 80 mm c/c 2) Plinth Beam to First floor slab: #10 @ 80 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		# 16 - 8 Nos.	Above First floor slab: #10 @ 80 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		
4.	C4	08	300 x 380	# 20 - 4 Nos + # 16 - 4 Nos.	1) Upto Plinth Beam: #10 @ 80 mm c/c 2) Plinth Beam to First floor slab: #10 @ 80 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		# 20 - 2 Nos + # 16 - 6 Nos.	Above First floor slab: #10 @ 80 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		
5.	C5	02	300 x 450	# 16 - 10 Nos.	1) Upto Plinth Beam: #10 @ 70 mm c/c 2) Plinth Beam to First floor slab: #10 @ 70 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		# 16 - 6 Nos + # 12 - 4 Nos.	Above First floor slab: #10 @ 70 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		
3.	C6	08	300 x 500	# 16 - 8 Nos + # 12 - 2 Nos.	1) Upto Plinth Beam: #10 @ 70 mm c/c 2) Plinth Beam to First floor slab: #10 @ 70 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		# 16 - 8 Nos + # 12 - 2 Nos.	Above First floor slab: #10 @ 70 mm c/c for 500 mm at top and bottom near beam - column junction & lapping zone and the rest #8 @ 150mm c/c		

Notes: In Cross Section a - # 20 mm b - # 16 mm c - # 12 mm

TYPICAL COLUMN SPLICING AND CONFINING REINFORCEMENT DETAILS



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TITLE:
SCHEDULE OF COLUMNS.

TYPE DESIGN NO.: 39/2022 TYPE A

DWG.NO.: TNUHDB/PERIYAPALAYATHAMMAN/05.

REVISION NO.:

Assistant Engineer

Asst. Exe. Engineer

Executive Engineer

sd.xxx 30.01.2024
SE - PMU

sd.xxxxx
SE - North I

sd.xxx 24.02.2024
Chief Engineer - North

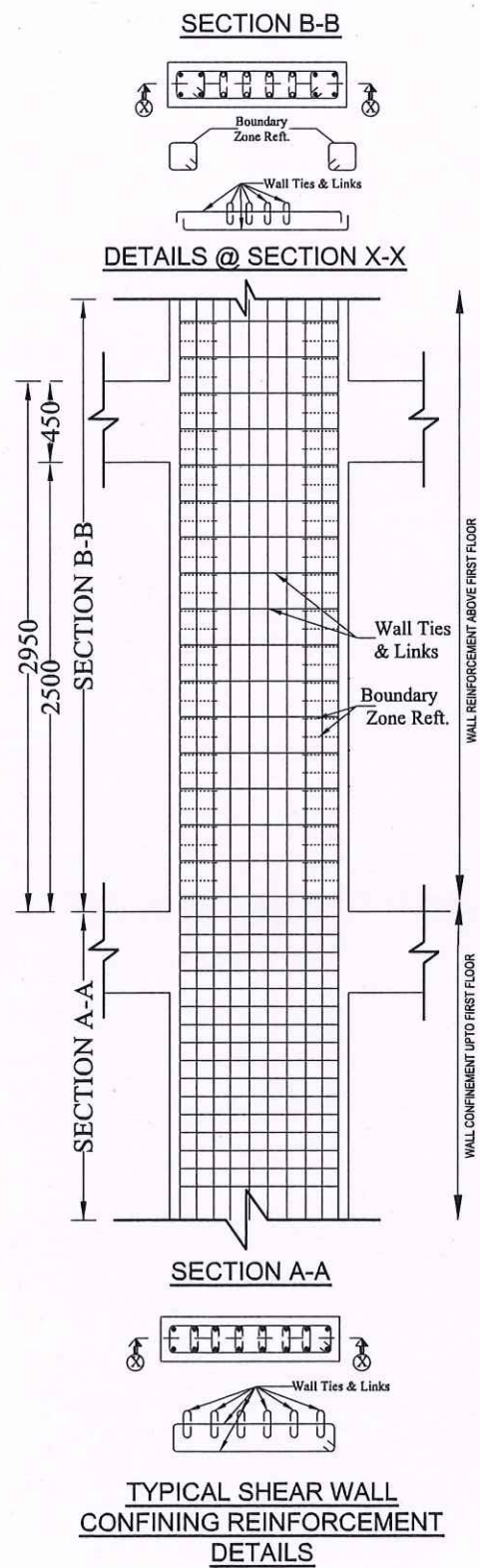


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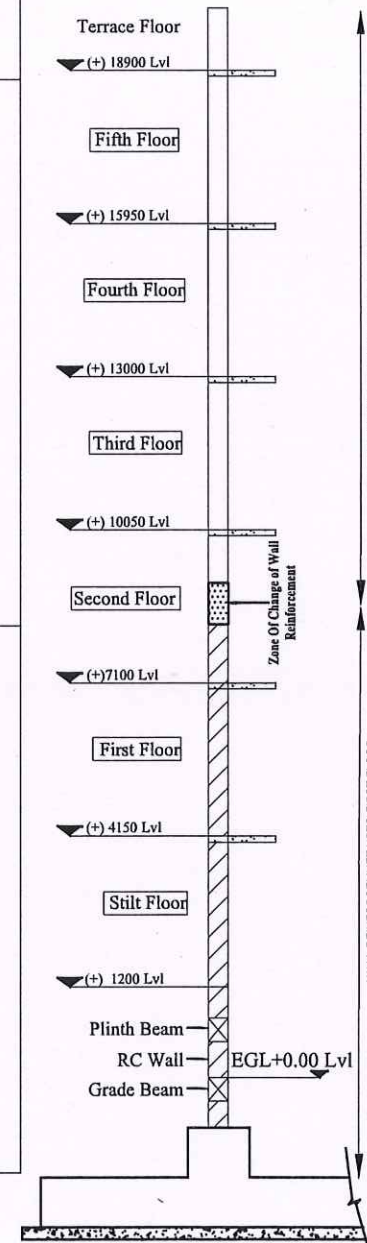
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sd.xxx
27/02/24



SHEAR WALL REINFORCEMENT DETAILS

Location	SW1 (2 Nos)	SW2 (1 No)	SW3 (1 Nos)
Above first floor level	• - 12mm (16 Nos) 8@65 c/c 8@150 c/c	• - 12mm (08 Nos) ○ - 10mm (12 Nos) 8@60 c/c 8@150 c/c	• - 16mm (04 Nos) ○ - 12mm (32 Nos) 8@65 c/c 8@150 c/c 8@65 c/c
Upto first floor level	• - 20mm (08 Nos) ○ - 16mm (08 Nos) 10@95 c/c	• - 12mm (20 Nos) 10@70 c/c	• - 20mm (36 Nos) 10@95 c/c



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[Signature]
29/12/2024
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CONSTRUCTION OF 32 NOS OF (PS+5) FLOORS
TENEMENTS AT PERIYAPALAYATHAMMAN KOIL
SCHEME IN GREATER CHENNAI CORPORATION UNDER
VERTICAL-III (AHP/PMAY/HFA).

TITLE:
SHEAR WALL REINFORCEMENT DETAILS.

TYPE DESIGN NO.: 39/2022 TYPE A

DWG.NO.: TNUHDB/PERIYAPALAYATHAMMAN/06.

REVISION NO.:

Assistant Engineer	Asst. Exe. Engineer
Executive Engineer	sd.xxx 30.01.2024 SE - PMU
sd.xxxx SE - North I	sd.xxx 24.02.2024 Chief Engineer - North

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



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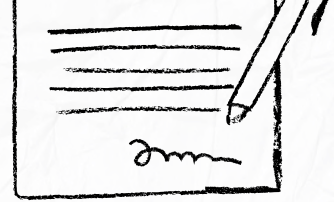
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