

TYPICAL REINFORCEMENT DETAIL OF BEAM

NOTES:
1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.

2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.

3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.

4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500

5. THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED. THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANJABARI, GUWAHATI"

6. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-

a) VERTICAL FACES OF COLUMN, BEAM & WALL	:	24 HOURS
b) SLAB	(i)	SPANNING UPTO 4.5m : 7 DAYS
	(ii)	SPANNING OVER 4.5m : 14 DAYS
c) BEAM	(i)	SPANNING UPTO 6.0m : 14 DAYS
	(ii)	SPANNING OVER 6.0m : 21 DAYS

8. CLEAR COVER TO THE MAIN REINFORCEMENT

a) FOUNDATION	:	60mm
b) COLUMN UPTO PLINTH	:	60mm
c) COLUMN ABOVE PLINTH	:	40mm
d) BEAM	:	25mm
e) WALL	:	30mm
f) SLAB	:	15-20mm

9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.

10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION

11. USE SPACE BAR TO AVOID CONGESTION, WHEREVER NECESSARY.

12. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.

13. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

BEAMS MARKED AS * SHALL BE PLACED AT LANDING LEVEL

RELATED DRAWINGS:

- TCE.10477A-CV-1007-RC-1001
- TCE.10477A-CV-1007-RC-1019
- TCE.10477A-CV-1007-RC-1020
- TCE.10477A-CV-1007-RC-1021
- TCE.10477A-CV-1007-RC-1027
- TCE.10477A-CV-1007-RC-1028

TENDER PURPOSE ONLY

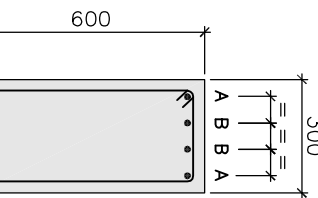
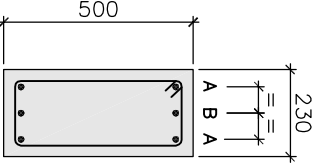
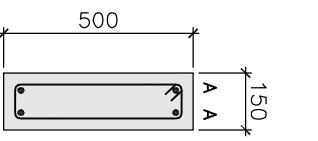
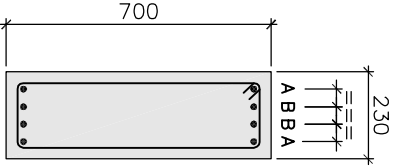
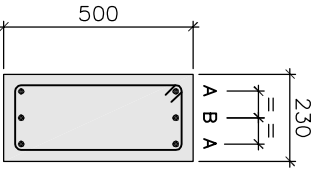
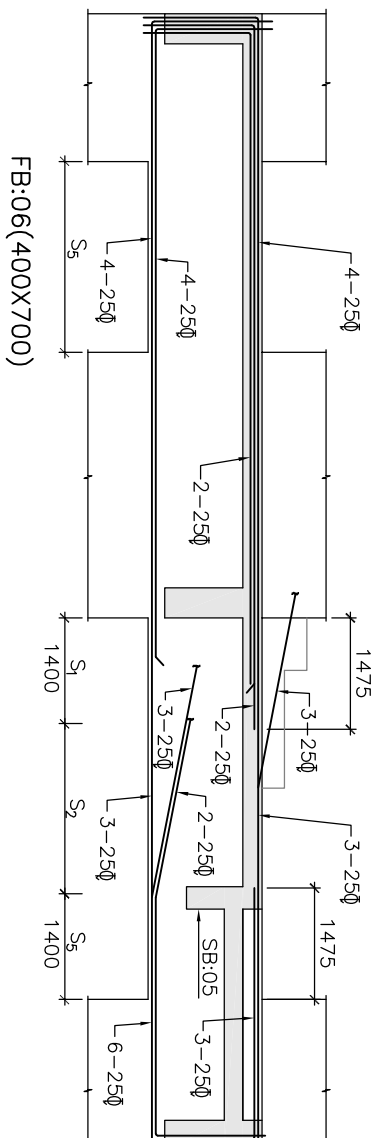
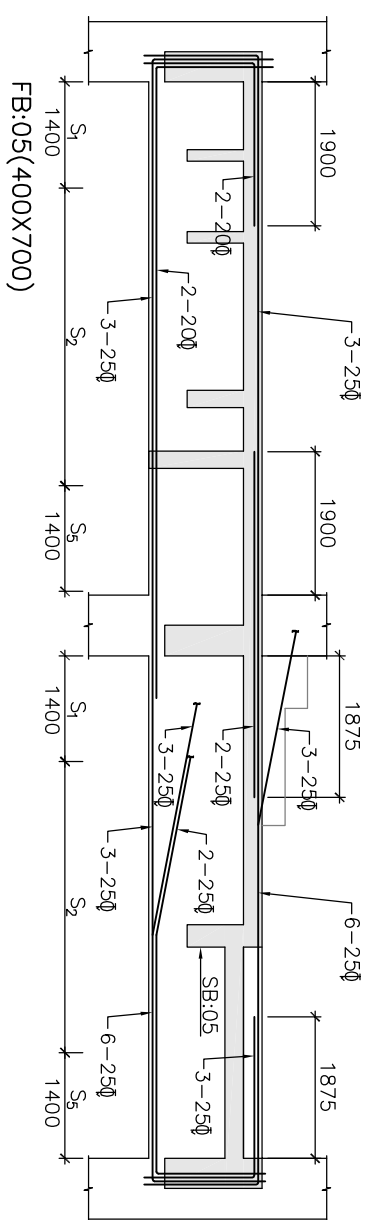
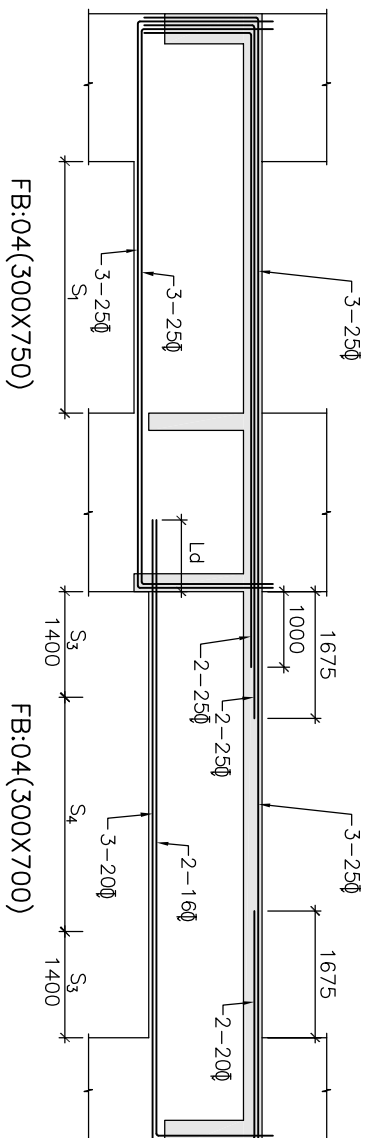
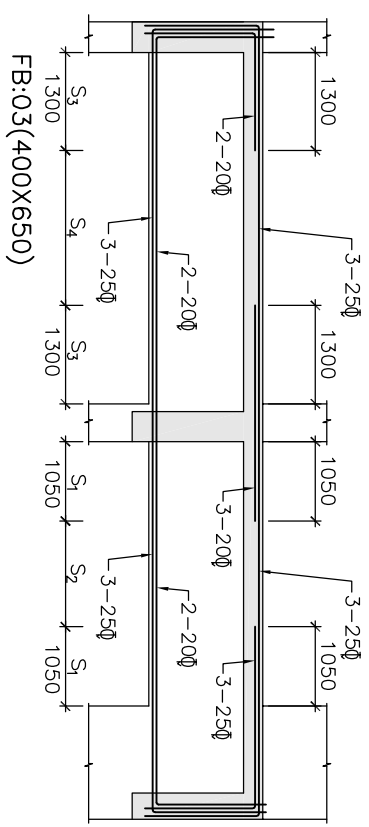
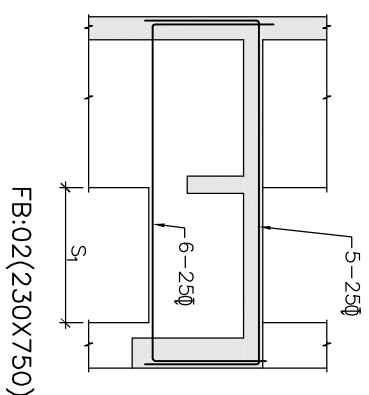
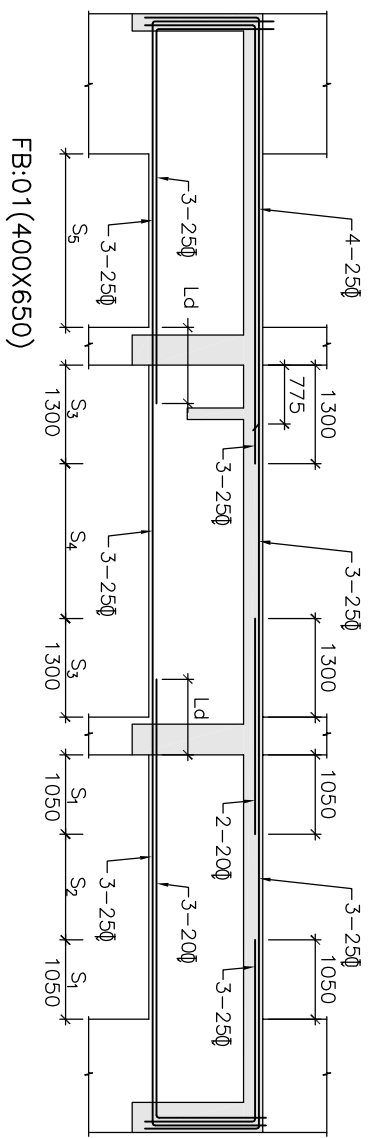
GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

DETAILS OF FOURTH FLOOR BEAM (EL +18550)
BEAM LAYOUT (SHEET 1 / 2)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SIGNL	INITIALS	DATE	17.04.2020
REVISIONS	SIGNL	DATE	
ISSUE	DRN	DSM	CHD
	CV	EL	IC
	ME	PL	HW
	EXT	LS	FE/PM
	CLEARED		APPD
			DATE

SCALE : AS NOTED
DC & DESG : ---
TATA CONSULTING ENGINEERS LIMITED
MUMBAI
ISSUE R0



DETAIL OF SB-01
2L 8@100C/C STP.

DETAIL OF SB-02
2L 8@100C/C STP.

DETAIL OF SB-03
2L 8@125C/C STP.

DETAIL OF SB-04
2L 8@100C/C STP.

DETAIL OF SB-05
2L 8@100C/C STP.

- NOTES:
- ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
 - ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
 - GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
 - GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
 - THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED. THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANJABARI, GUWAHATI"
 - DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-

a) VERTICAL FACES OF COLUMN, BEAM & WALL	: 24 HOURS	
b) SLAB	: 7 DAYS	
c) BEAM	(i) SPANNING UP TO 4.5m	: 14 DAYS
	(ii) SPANNING UP TO 6.0m	: 14 DAYS
	(ii) SPANNING OVER 6.0m	: 21 DAYS
 - CLEAR COVER TO THE MAIN REINFORCEMENT

a) FOUNDATION	: 60mm
b) COLUMN UP TO PLINTH	: 60mm
c) COLUMN ABOVE PLINTH	: 40mm
d) BEAM	: 25mm
e) WALL	: 30mm
f) SLAB	: 15-20mm
 - LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
 - NOT MORE THAN 50% OF THE BARS SHALL BE SPICED AT ONE SECTION
 - USE SPACE BAR TO AVOID CONGESTION, WHEREVER NECESSARY.
 - ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
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 - BEAMS MARKED AS * SHALL BE PLACED AT LANDING LEVEL

RELATED DRAWINGS:

- TCE.10477A-CV-1007-RC-1001
- TCE.10477A-CV-1007-RC-1018
- TCE.10477A-CV-1007-RC-1020
- TCE.10477A-CV-1007-RC-1021
- TCE.10477A-CV-1007-RC-1027
- TCE.10477A-CV-1007-RC-1028

LEGEND:

- S₁=2L 10@100C/C STP.
 S₂=2L 10@150C/C STP.
 S₃=2L 8@100C/C STP.
 S₄=2L 8@150C/C STP.
 S₅=4L 10@100C/C STP.
 S₆=4L 10@150C/C STP.

TENDER PURPOSE ONLY

SIGNL.	INITIALS	REVISIONS	SIGNL.	INITIALS	DATE
					17.04.2020
ISSUE	DRN	DSN	CHD	CV	EL
				IC	WE
				PI	HM
				EXT	LS
				FE	PM
				APPD	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

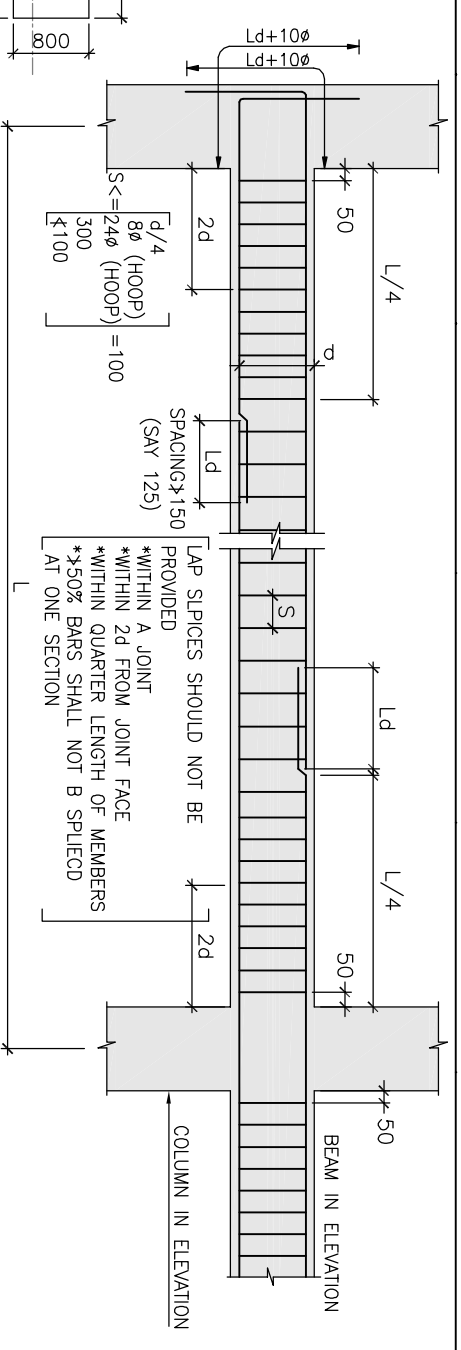
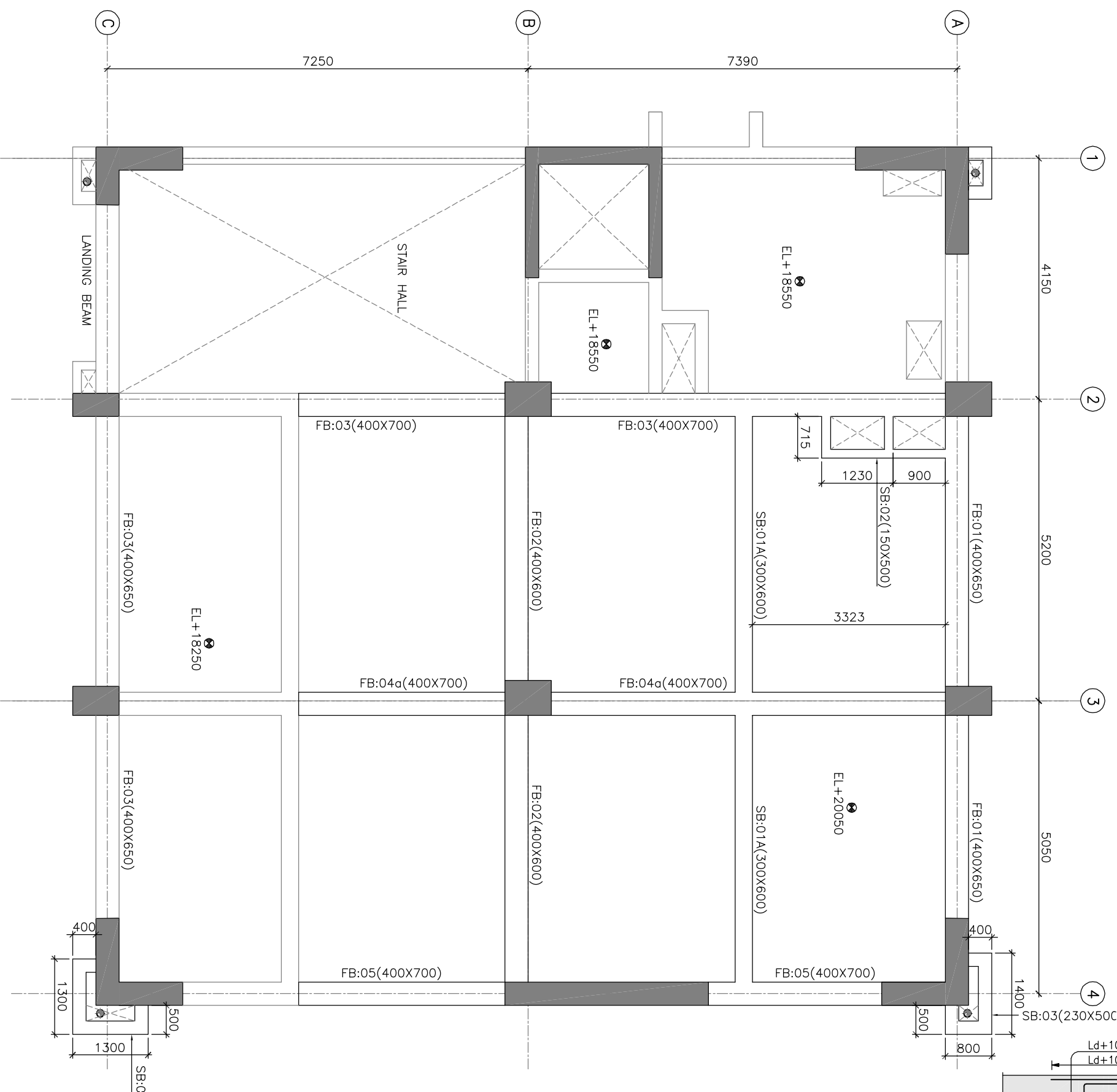
DETAILS OF FOURTH FLOOR BEAM (EL+18550)

L SECTION (SHEET 2 / 2)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : AS NOTED DWG NO. TCE.10477A-CV-1007-RC-1019

DC & DSCR: --- ISSUE RO



**TYPICAL REINFORCEMENT
DETAIL OF BEAM**

- NOTES:
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6. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-
 - a) VERTICAL FACES OF COLUMN, BEAM & WALL : 24 HOURS
 - b) SLAB
 - (i) SPANNING UPTO 4.5m : 7 DAYS
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 - c) BEAM
 - (i) SPANNING UPTO 6.0m : 14 DAYS
 - (ii) SPANNING OVER 6.0m : 21 DAYS

8. CLEAR COVER TO THE MAIN REINFORCEMENT
 - a) FOUNDATION : 60mm
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 - e) WALL : 30mm
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RELATED DRAWINGS:

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3. TCE.10477A-CV-1007-RC-1019
4. TCE.10477A-CV-1007-RC-1021
5. TCE.10477A-CV-1007-RC-1027
6. TCE.10477A-CV-1007-RC-1028

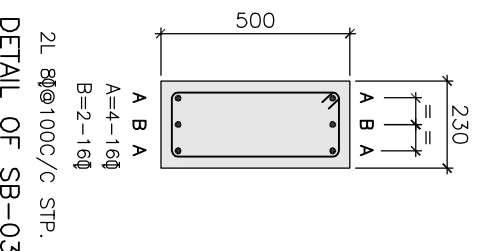
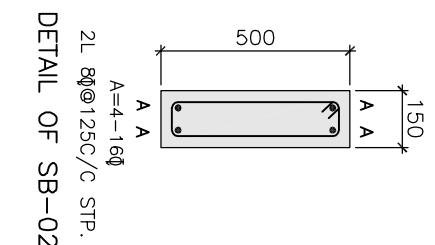
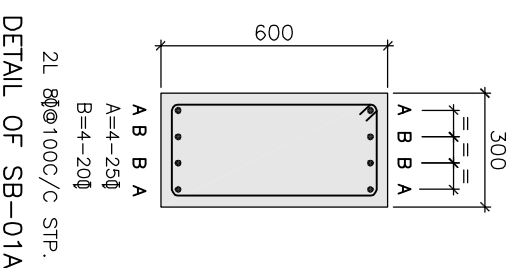
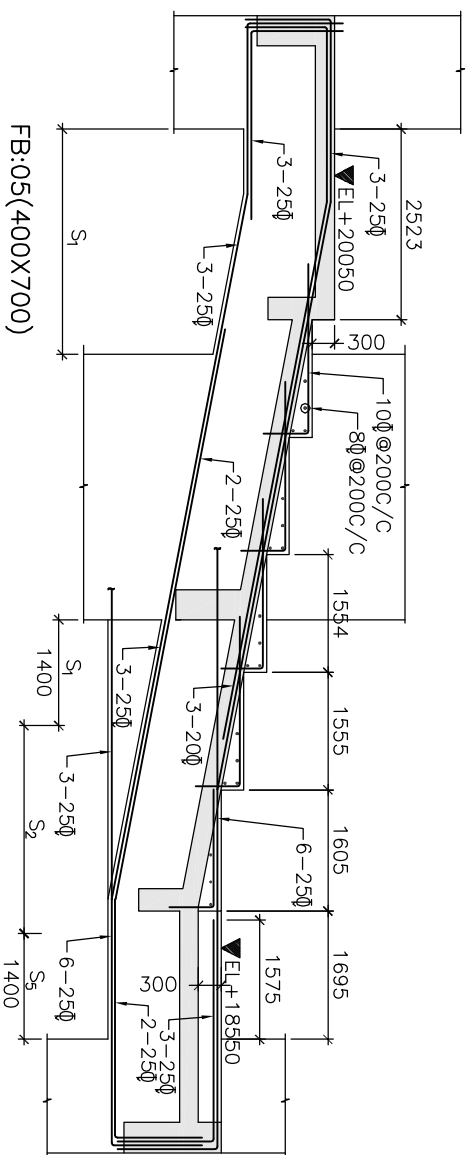
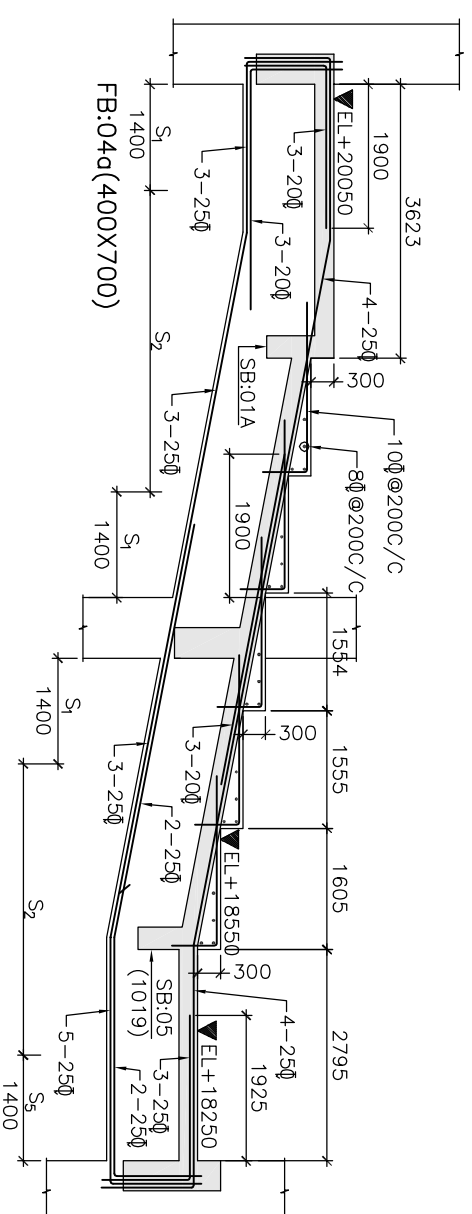
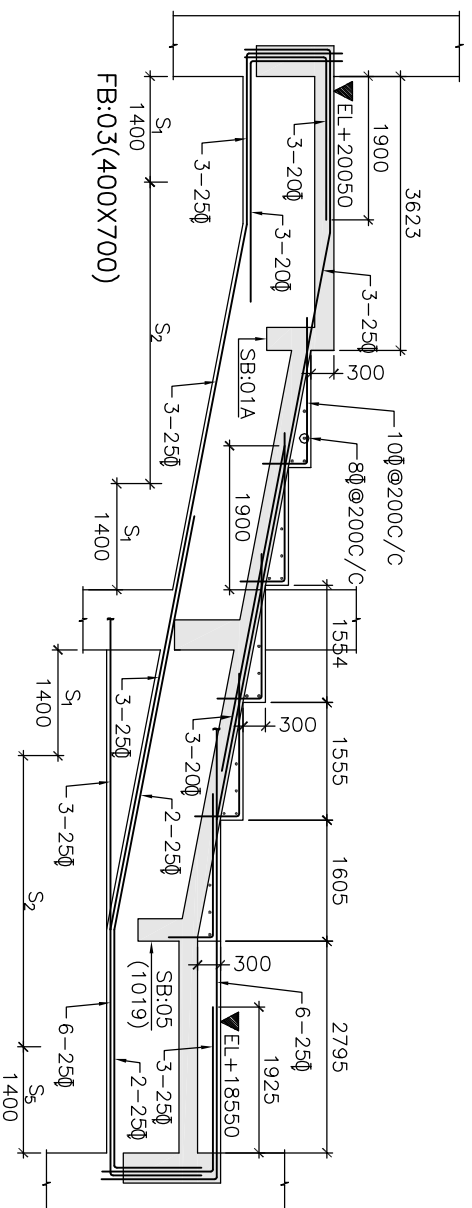
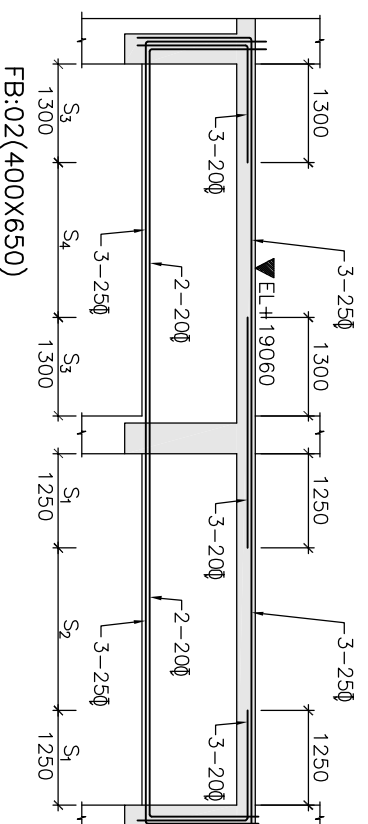
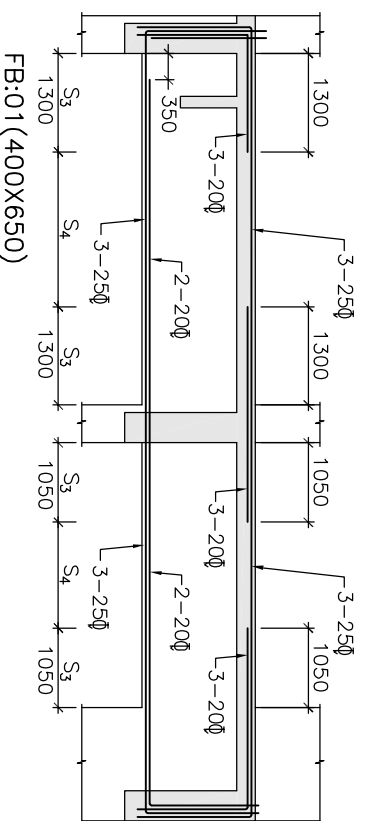
TENDER PURPOSE ONLY

SIGNL	INITIALS	REVISIONS	DATE

ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PI	HW	EXT	LS	PE/PM	APPD	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

DETAILS OF FOURTH FLOOR BEAM (EL+18550/+20050)
BEAM LAYOUT (SHEET 1 / 2)



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 - DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-
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 - SLAB
 - SPANNING UPTO 4.5m : 7 DAYS
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 - BEAM
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 - CLEAR COVER TO THE MAIN REINFORCEMENT
 - FOUNDATION : 60mm
 - COLUMN UPTO PLINTH : 60mm
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- RELATED DRAWINGS:**
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 - TCE.10477A-CV-1007-RC-1020
 - TCE.10477A-CV-1007-RC-1027
 - TCE.10477A-CV-1007-RC-1028
- LEGEND:**
- | | |
|------------------------------------|------------------------------------|
| S ₁ =2L 100@100C/C STP. | S ₂ =2L 100@150C/C STP. |
| S ₃ =2L 80@100C/C STP. | S ₄ =2L 80@150C/C STP. |
| S ₅ =4L 100@100C/C STP. | S ₆ =4L 100@150C/C STP. |
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 - NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
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TENDER PURPOSE ONLY

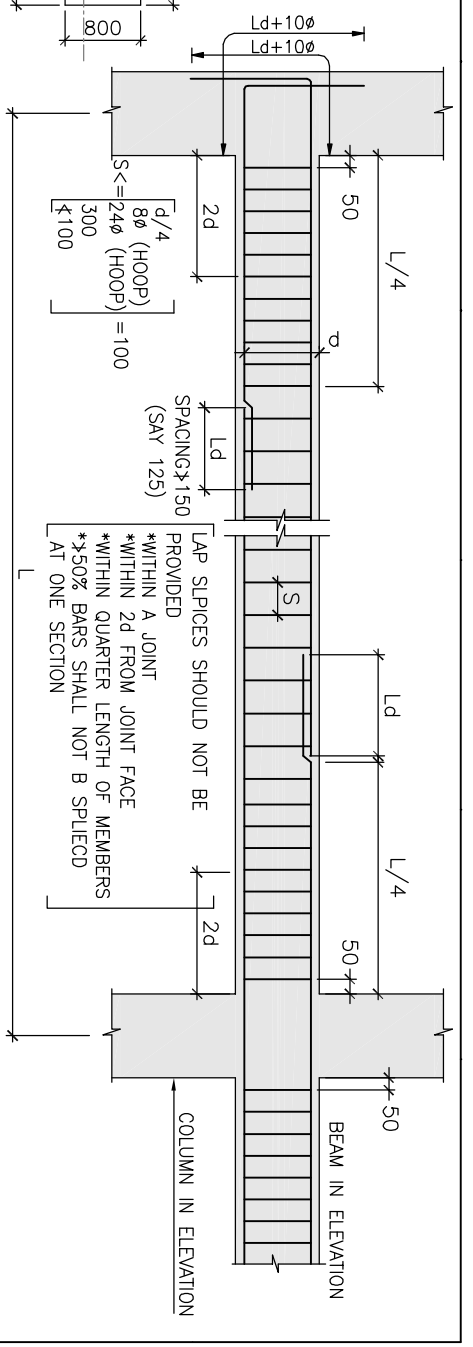
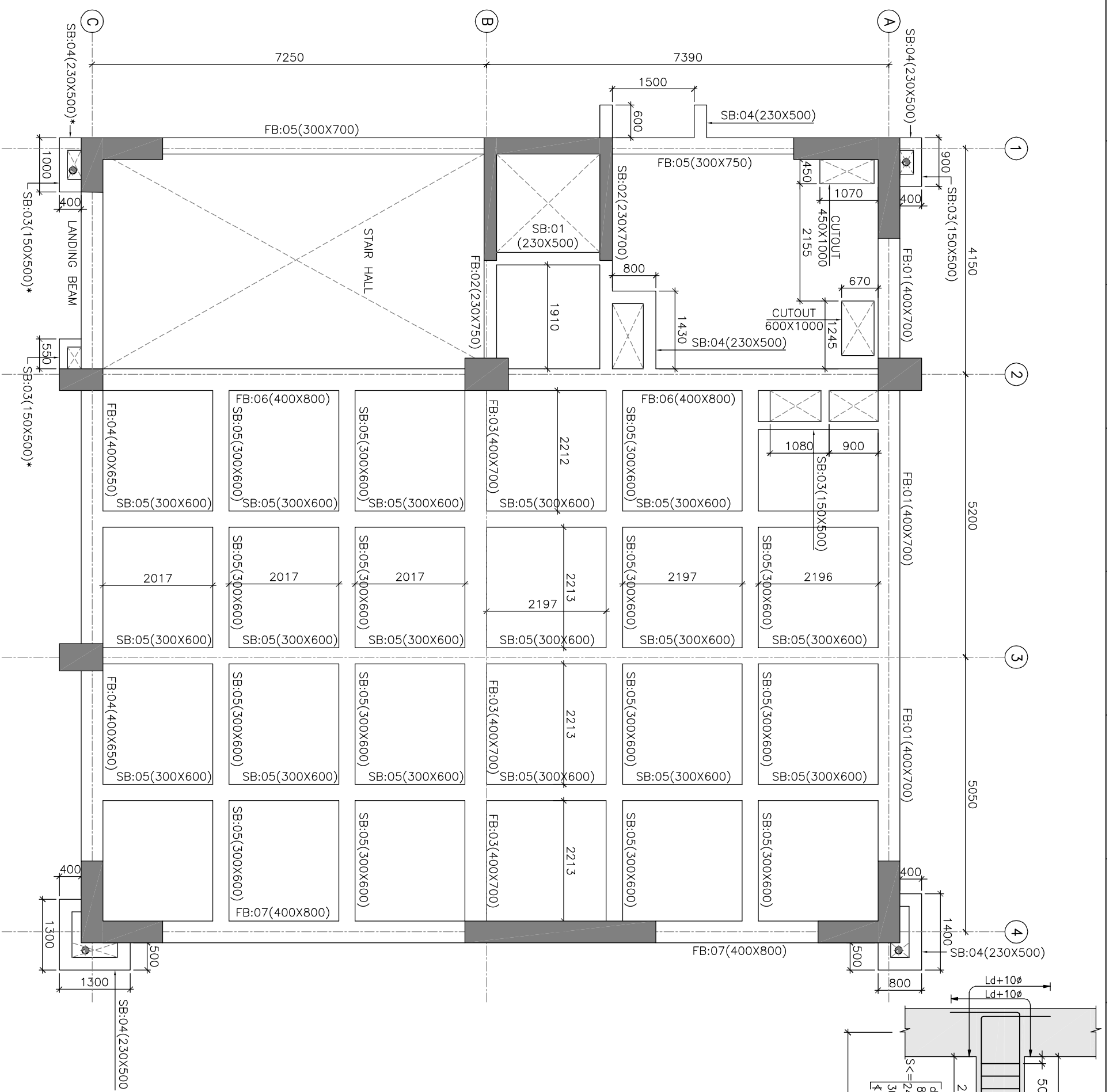
SIGNL	INITIALS	REVISIONS	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

DETAILS OF FOURTH FLOOR BEAM (EL+18550/+20050)
L SECTION (SHEET 2 / 2)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : AS NOTED
DATE : 17.04.2020
ISSUE : R0



**TYPICAL REINFORCEMENT
DETAIL OF BEAM**

NOTES:
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4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500

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6. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-

- | | | |
|--|-------------------------|-----------|
| a) VERTICAL FACES OF COLUMN, BEAM & WALL | : | 24 HOURS |
| b) SLAB | (i) SPANNING UP TO 4.5m | : 7 DAYS |
| | (ii) SPANNING OVER 4.5m | : 14 DAYS |
| c) BEAM | (i) SPANNING UP TO 6.0m | : 14 DAYS |
| | (ii) SPANNING OVER 6.0m | : 21 DAYS |

8. CLEAR COVER TO THE MAIN REINFORCEMENT

- | | | |
|------------------------|---|---------|
| a) FOUNDATION | : | 60mm |
| b) COLUMN UP TO PLINTH | : | 60mm |
| c) COLUMN ABOVE PLINTH | : | 40mm |
| d) BEAM | : | 25mm |
| e) WALL | : | 30mm |
| f) SLAB | : | 15-20mm |

9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.

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BEAMS MARKED AS * SHALL BE PLACED AT LANDING LEVEL

RELATED DRAWINGS:

- TCE:10477A-CV-1007-RC-1001
- TCE:10477A-CV-1007-RC-1023
- TCE:10477A-CV-1007-RC-1029

TENDER PURPOSE ONLY

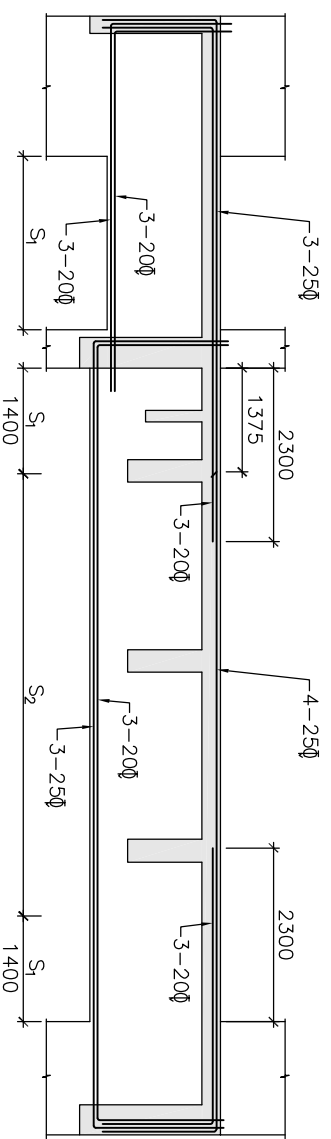
SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	DATE
					17.04.2020

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

DETAILS OF ROOF BEAM
BEAM LAYOUT (SHEET 1 / 2)

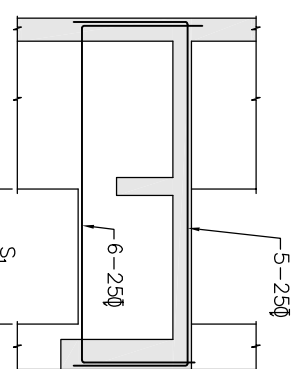
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : AS NOTED
DC & DSC : ---
PWP No: TCE:10477A-CV-1007-RC-1022
ISSUE NO: R0

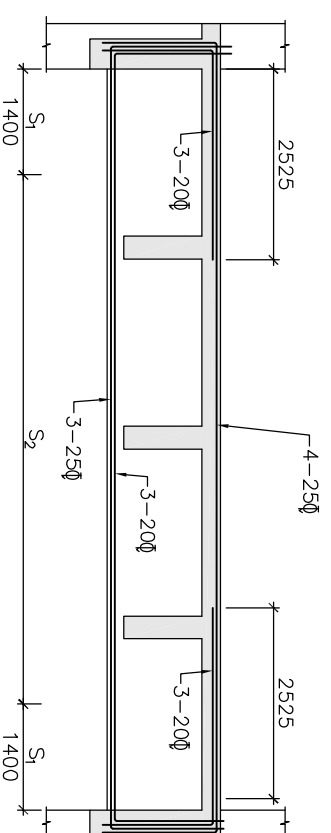


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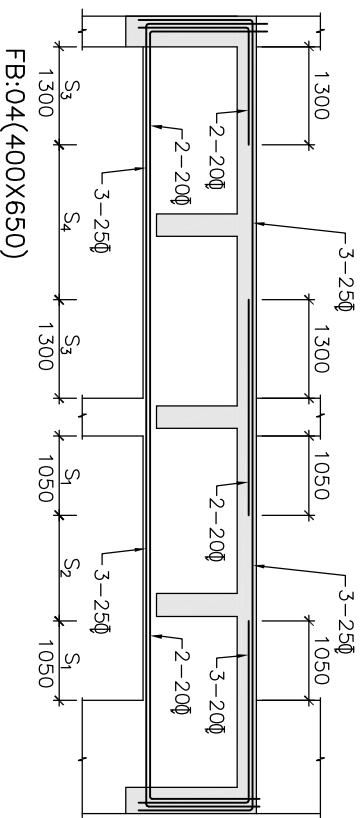
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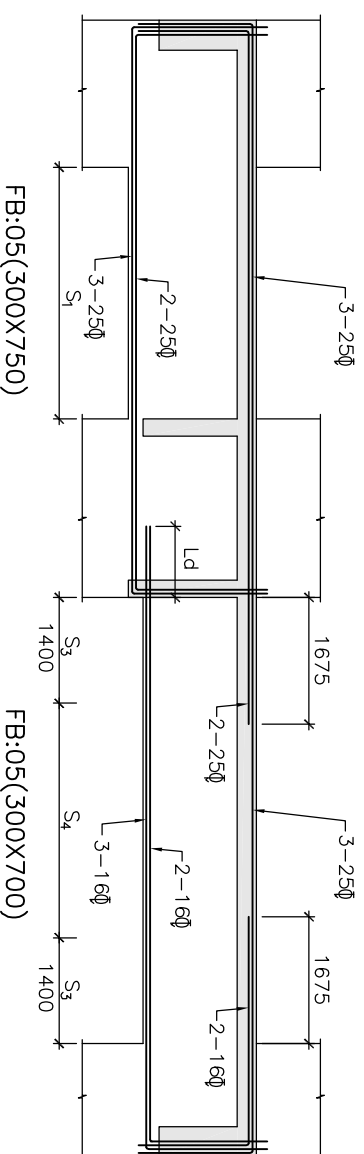
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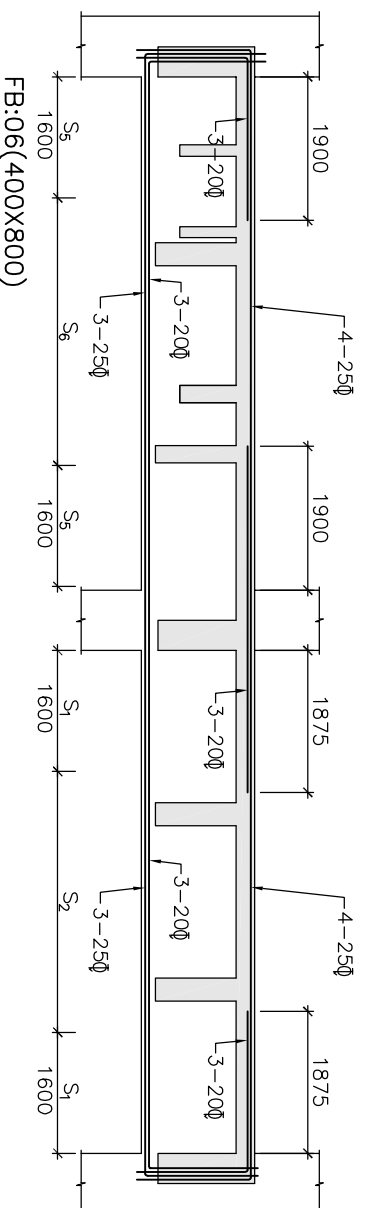


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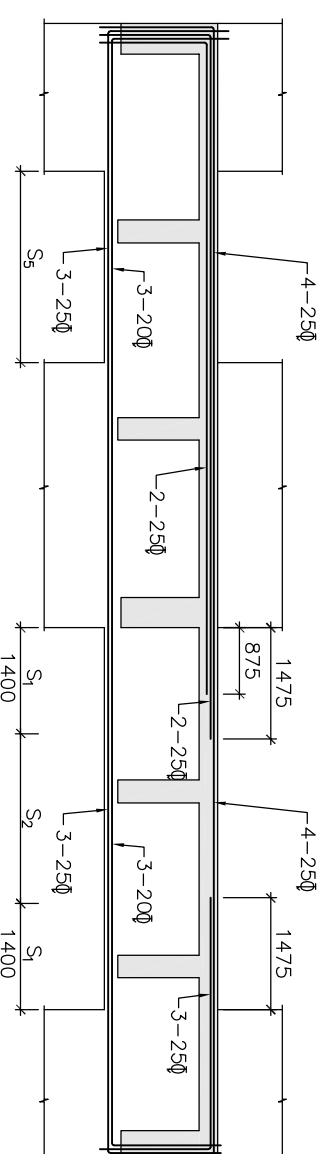


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FB:06(400X800)



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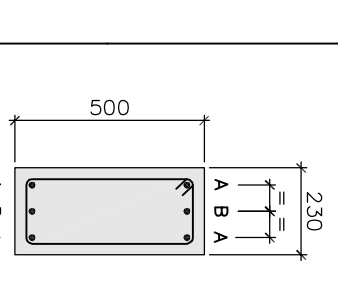
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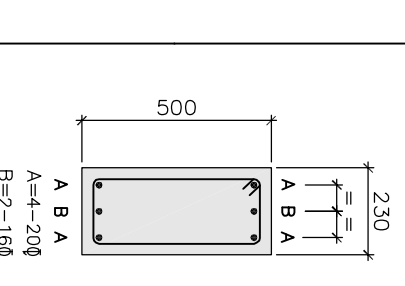
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c) BEAM	(i) SPANNING UP TO 6.0m	: 14 DAYS
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7. CLEAR COVER TO THE MAIN REINFORCEMENT

d) FOUNDATION	:	60mm
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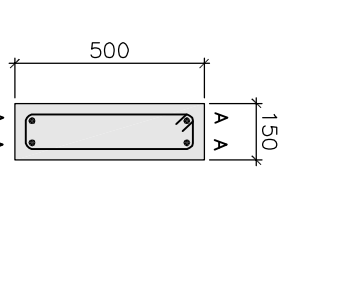
TENDER PURPOSE ONLY



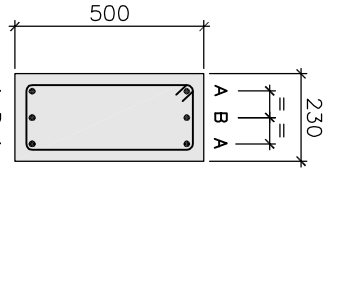
2L 8φ@1000/C STP.
DETAIL OF SB-01



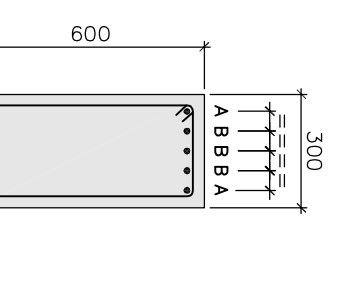
2L 8φ@1000/C STP.
DETAIL OF SB-02



2L 8φ@1250/C STP.
DETAIL OF SB-03

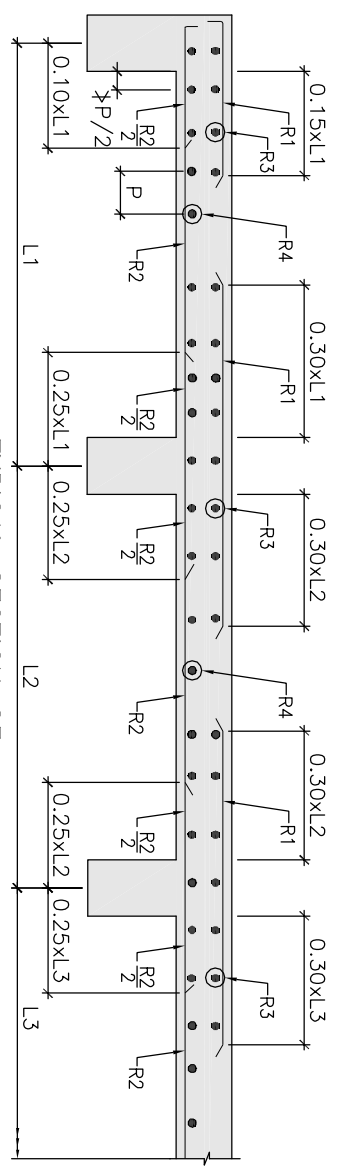
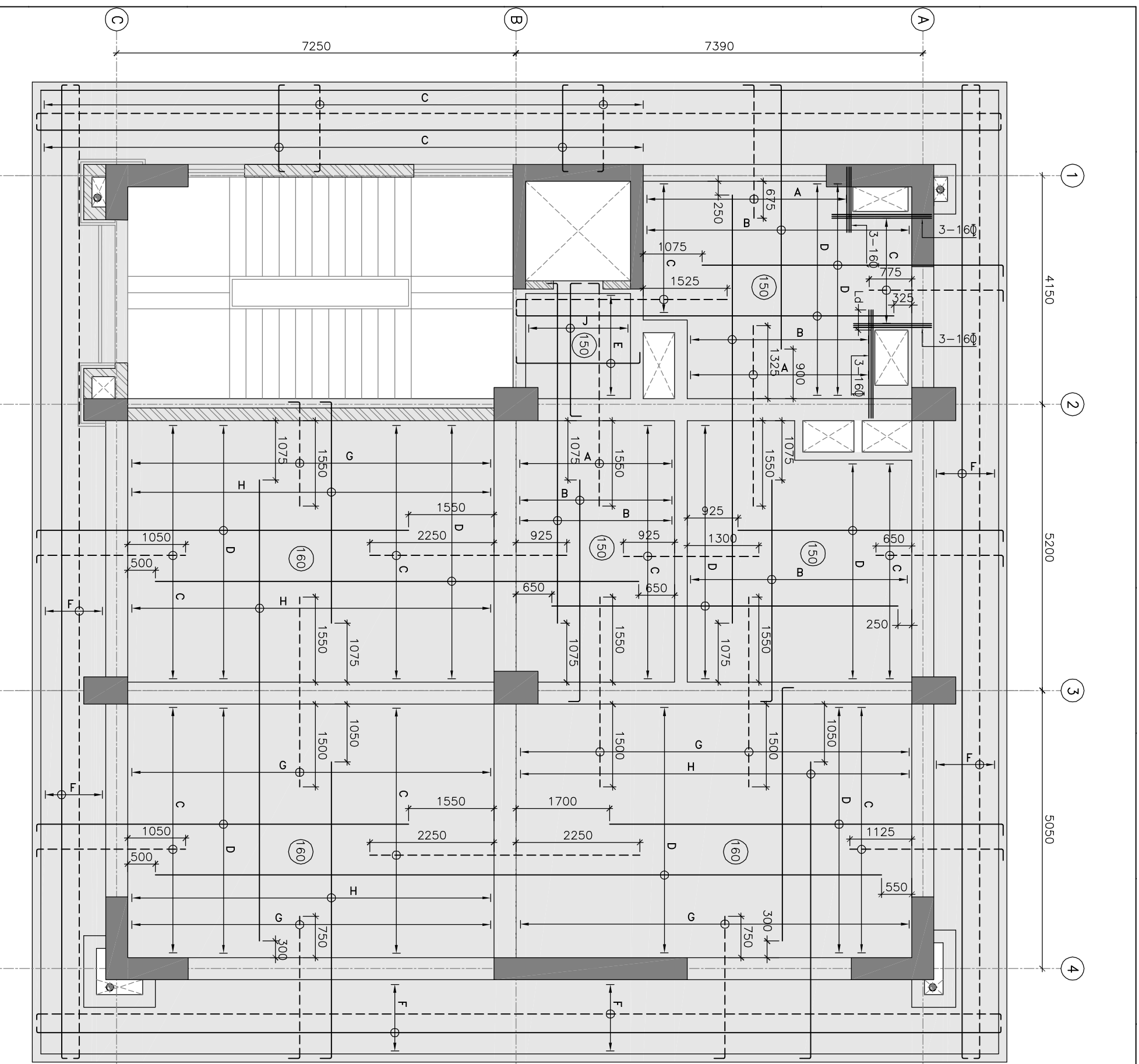


2L 8φ@1000/C STP.
DETAIL OF SB-04



2L 8φ@1000/C STP.
DETAIL OF SB-05

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.									
SMART CITY MISSION GUWAHATI									
DETAILS OF ROOF BEAM					L SECTION (SHEET 2 / 2)				
TATA CONSULTING ENGINEERS LIMITED									
MUMBAI									
SCALE	: AS NOTED	DATE	: 17.04.2020	ISSUE	NO	NO	NO	NO	NO
DC & DESG	: ---	DATE	: ---	ISSUE	NO	NO	NO	NO	NO



TYPICAL SECTION OF SLAB REINFORCEMENT

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.

LEGEND:

- A=10Ø@125C/C
- B=10Ø@250C/C
- C=10Ø@150C/C
- D=10Ø@300C/C
- E=8Ø@300C/C
- F=8Ø@150C/C
- G=10Ø@100C/C
- H=10Ø@200C/C
- J=8Ø@250C/C

--- TOP REINFORCEMENT
 - - - - - BOTTOM REINFORCEMENT

IMPORTANT NOTES:

1. SLAB REINFORCEMENT, WHEREVER NOT SHOWN SHALL BE OF 8Ø@150C/C
2. ALL DISTRIBUTION REINFORCEMENT SHALL BE OF 8Ø@150C/C WHEREVER REQUIRED (NOT SHOWN IN THE PLAN)
3. LD = DEVELOPMENT LENGTH = 50Ø
4. ALL SLAB THICKNESS SHALL BE OF 150mm U.N.O.
5. CLEAR COVER TO THE MAIN REINFORCEMENT
 - a) FOUNDATION : 60mm
 - b) COLUMN UP TO PLINTH : 60mm
 - c) COLUMN ABOVE PLINTH : 40mm
 - d) BEAM : 25mm
 - e) WALL : 30mm
 - f) SLAB : 15-20mm
6. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-
 - a) VERTICAL FACES OF COLUMN, BEAM & WALL : 24 HOURS
 - b) SLAB
 - (i) SPANNING UP TO 4.5m : 7 DAYS
 - (ii) SPANNING OVER 4.5m : 14 DAYS
 - (i) SPANNING UP TO 6.0m : 14 DAYS
 - (ii) SPANNING OVER 6.0m : 21 DAYS

RELATED DRAWINGS:

1. TCE.10477A-CV-1007-RC-1001
2. TCE.10477A-CV-1007-RC-1012

9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
11. USE SPACE BAR TO AVOID CONGESTION, WHEREVER NECESSARY.
12. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
13. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

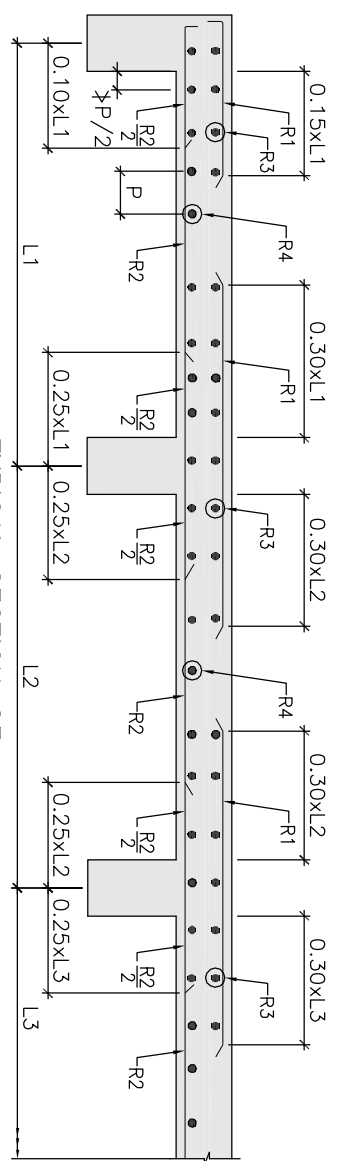
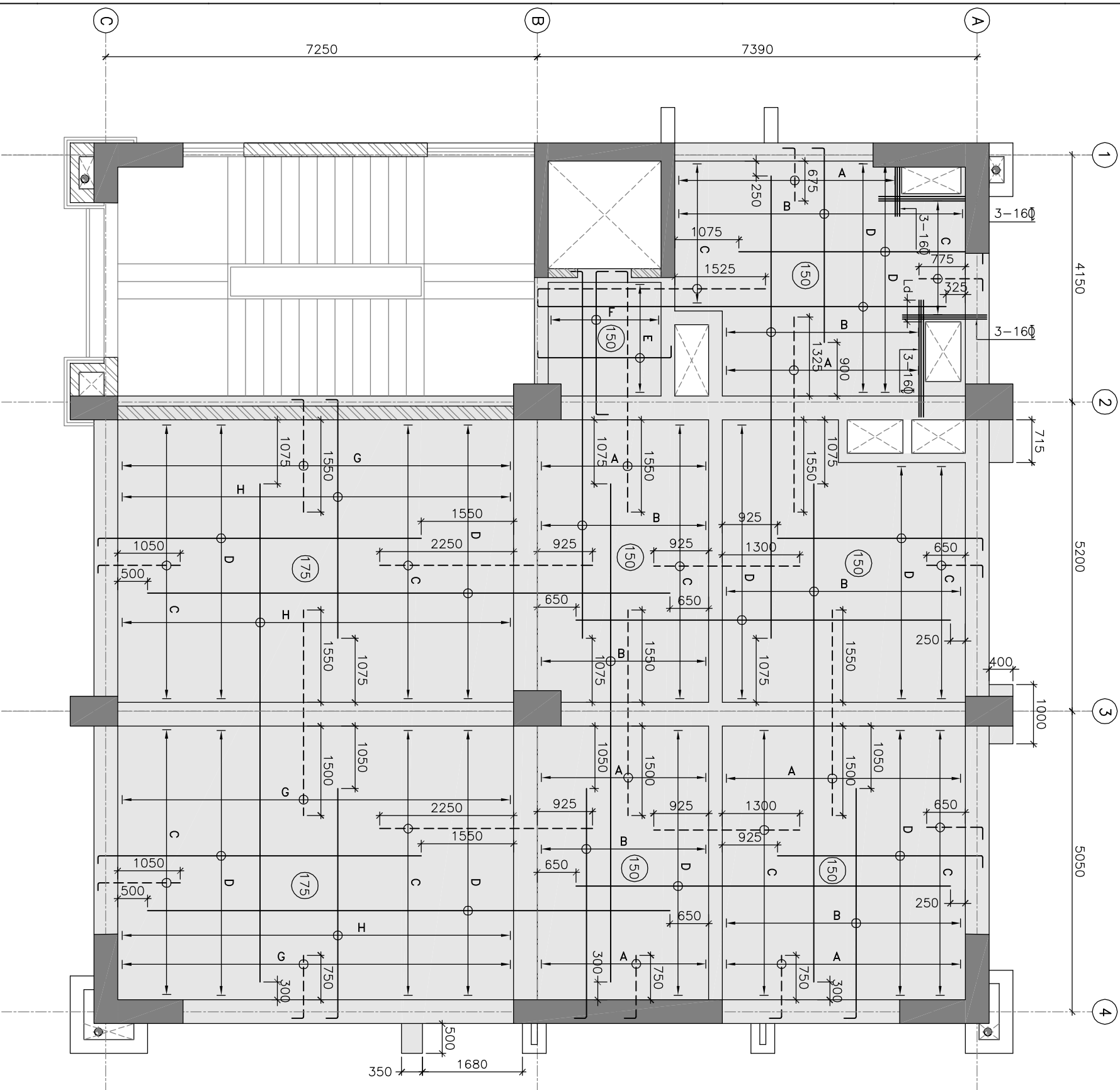
TENDER PURPOSE ONLY

SIGNL	INITIALS	REVISIONS	SIGNL	INITIALS	DATE

ISSUE	DRN	DSN	CHD	CV	EL	IC	WE	PI	HM	EXT	LS	PE/PM	APPD	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
 SMART CITY MISSION GUWAHATI

DETAILS OF FIRST FLOOR SLAB



TYPICAL SECTION OF SLAB REINFORCEMENT

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.

- LEGEND:**
- A=10@125C/C
 - B=10@250C/C
 - C=10@150C/C
 - D=10@300C/C
 - E=8@300C/C
 - F=8@250C/C
 - G=12@100C/C
 - H=12@200C/C

- LEGEND:**
- TOP REINFORCEMENT
 - BOTTOM REINFORCEMENT

IMPORTANT NOTES:

1. SLAB REINFORCEMENT, WHEREVER NOT SHOWN SHALL BE OF 8@150C/C
2. ALL DISTRIBUTION REINFORCEMENT SHALL BE OF 8@50C/C WHEREVER REQUIRED (NOT SHOWN IN THE PLAN)
3. Ld = DEVELOPMENT LENGTH = 50φ
4. ALL SLAB THICKNESS SHALL BE OF 150mm U.N.O.

RELATED DRAWINGS:

1. TCE:10477A-CV-1007-RC-1001
2. TCE:10477A-CV-1007-RC-1014

6. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-

- | | | |
|--|------|-------------------------------|
| a) VERTICAL FACES OF COLUMN, BEAM & WALL | : | 24 HOURS |
| b) SLAB | (i) | SPANNING UP TO 4.5m : 7 DAYS |
| | (ii) | SPANNING OVER 4.5m : 14 DAYS |
| c) BEAM | (i) | SPANNING UP TO 6.0m : 14 DAYS |
| | (ii) | SPANNING OVER 6.0m : 21 DAYS |

8. CLEAR COVER TO THE MAIN REINFORCEMENT

- | | | |
|------------------------|---|---------|
| a) FOUNDATION | : | 60mm |
| b) COLUMN UP TO PLINTH | : | 60mm |
| c) COLUMN ABOVE PLINTH | : | 40mm |
| d) BEAM | : | 25mm |
| e) WALL | : | 30mm |
| f) SLAB | : | 15-20mm |

9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.

10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
11. USE SPACE BAR TO AVOID CONGESTION, WHEREVER NECESSARY.

12. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.

13. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

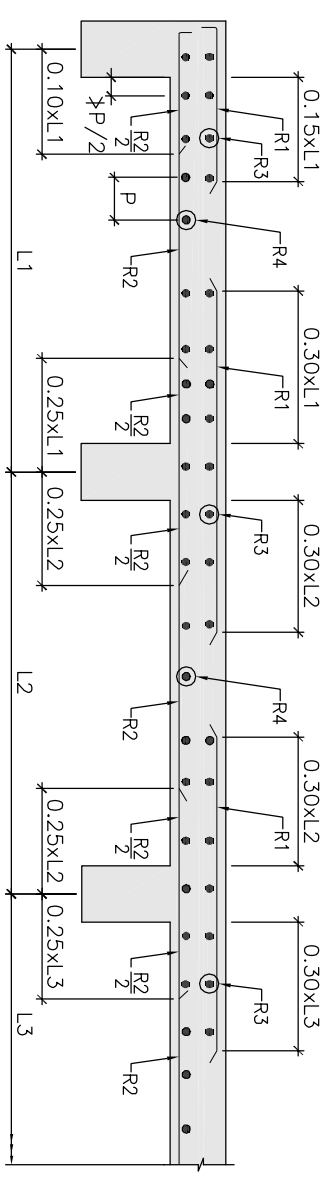
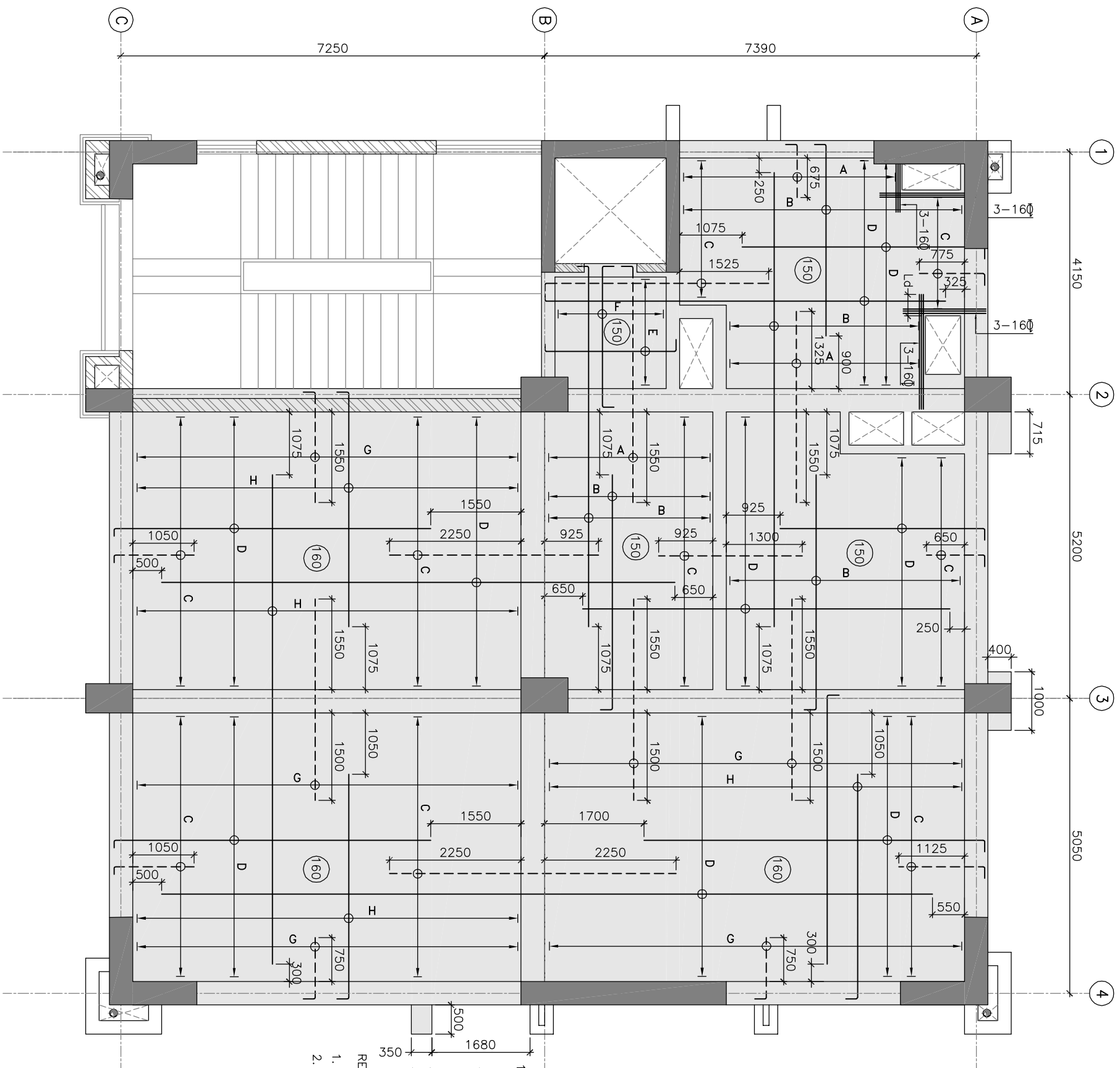
TENDER PURPOSE ONLY

SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	DATE
					17.04.2020

ISSUE	DRN	DSN	CHD	CV	EL	IC	WE	PI	HW	EXT	LS	PE/PM	APPD	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD,
SMART CITY MISSION GUWAHATI

DETAILS OF SECOND FLOOR SLAB



TYPICAL SECTION OF SLAB REINFORCEMENT

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.

LEGEND:

- A=10Ø@125C/C
- B=10Ø@250C/C
- C=10Ø@150C/C
- D=10Ø@300C/C
- E=8Ø@300C/C
- F=8Ø@250C/C
- G=12Ø@100C/C
- H=12Ø@200C/C

- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

IMPORTANT NOTES:

1. SLAB REINFORCEMENT, WHEREVER NOT SHOWN SHALL BE OF 8Ø@50C/C
2. ALL DISTRIBUTION REINFORCEMENT SHALL BE OF 8Ø@50C/C WHEREVER REQUIRED (NOT SHOWN IN THE PLAN)
3. Ld = DEVELOPMENT LENGTH = 50Ø U.N.O.
4. ALL SLAB THICKNESS SHALL BE OF 150mm

RELATED DRAWINGS:

1. TCE.10477A-CV-1007-RC-1001
2. TCE.10477A-CV-1007-RC-1016

DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-

- a) VERTICAL FACES OF COLUMN, BEAM & WALL : 24 HOURS
- b) SLAB : (i) SPANNING UP TO 4.5m : 7 DAYS
(ii) SPANNING OVER 4.5m : 14 DAYS
- c) BEAM : (i) SPANNING UP TO 6.0m : 14 DAYS
(ii) SPANNING OVER 6.0m : 21 DAYS

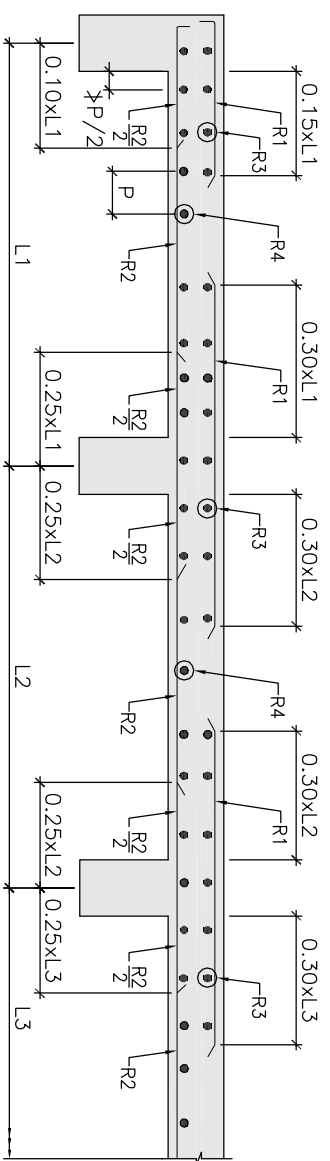
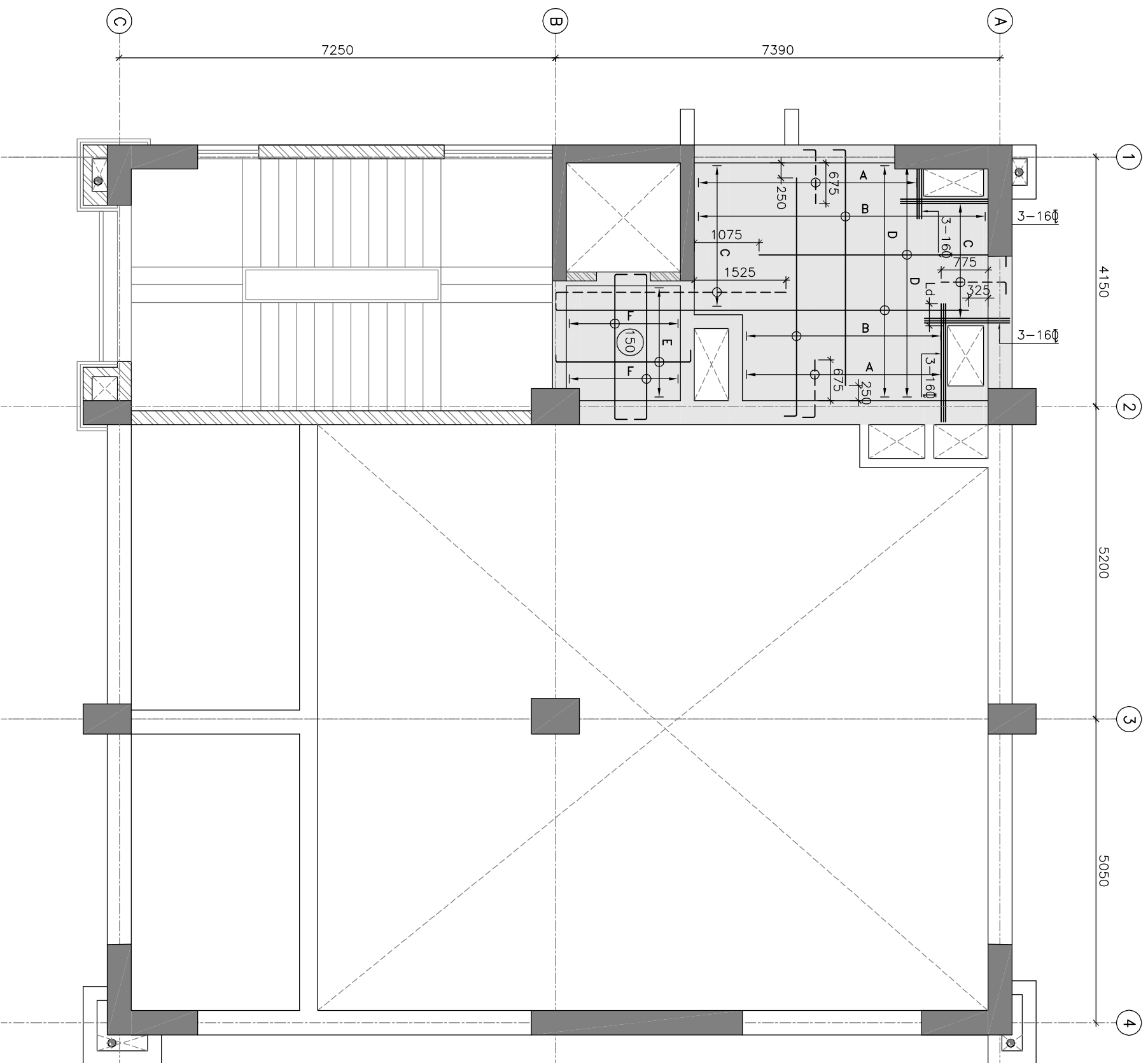
8. CLEAR COVER TO THE MAIN REINFORCEMENT
 - a) FOUNDATION : 60mm
 - b) COLUMN UP TO PLINTH : 60mm
 - c) COLUMN ABOVE PLINTH : 40mm
 - d) BEAM : 25mm
 - e) WALL : 30mm
 - f) SLAB : 15-20mm
9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
11. USE SPACE BAR TO AVOID CONGESTION, WHEREVER NECESSARY.
12. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
13. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

TENDER PURPOSE ONLY

SIGN.	INITIALS	REVISIONS	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

DETAILS OF THIRD FLOOR SLAB



TYPICAL SECTION OF SLAB REINFORCEMENT

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500

5. THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED. THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANJABARI, GUWAHATI"

6. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-

- | | | |
|--|------|-------------------------------|
| a) VERTICAL FACES OF COLUMN, BEAM & WALL | : | 24 HOURS |
| b) SLAB | (i) | SPANNING UP TO 4.5m : 7 DAYS |
| | (ii) | SPANNING OVER 4.5m : 14 DAYS |
| c) BEAM | (i) | SPANNING UP TO 6.0m : 14 DAYS |
| | (ii) | SPANNING OVER 6.0m : 21 DAYS |

8. CLEAR COVER TO THE MAIN REINFORCEMENT

- | | | |
|------------------------|---|---------|
| a) FOUNDATION | : | 60mm |
| b) COLUMN UP TO PLINTH | : | 60mm |
| c) COLUMN ABOVE PLINTH | : | 40mm |
| d) BEAM | : | 25mm |
| e) WALL | : | 30mm |
| f) SLAB | : | 15-20mm |

9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.

10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION

11. USE SPACE BAR TO AVOID CONGESTION, WHEREVER NECESSARY.

12. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.

13. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

TENDER PURPOSE ONLY

- IMPOTANT NOTES:**
1. SLAB REINFORCEMENT, WHEREVER NOT SHOWN SHALL BE OF $8\phi @ 150C/C$
 2. ALL DISTRIBUTION REINFORCEMENT SHALL BE OF $8\phi @ 150C/C$ WHEREVER REQUIRED (NOT SHOWN IN THE PLAN)
 3. L_d = DEVELOPMENT LENGTH = 50ϕ
 4. ALL SLAB THICKNESS SHALL BE OF 150mm U.N.O.

RELATED DRAWINGS:

1. TCE.10477A-CV-1007-RC-1001
2. TCE.10477A-CV-1007-RC-1018
3. TCE.10477A-CV-1007-RC-1020
4. TCE.10477A-CV-1007-RC-1028

SRNL	INITIALS	REVISIONS	DATE

ISSUE	DRN	DSN	CHD	CV	EL	IC	WE	PI	HM	EXT	LS	PE/PM	APPD	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

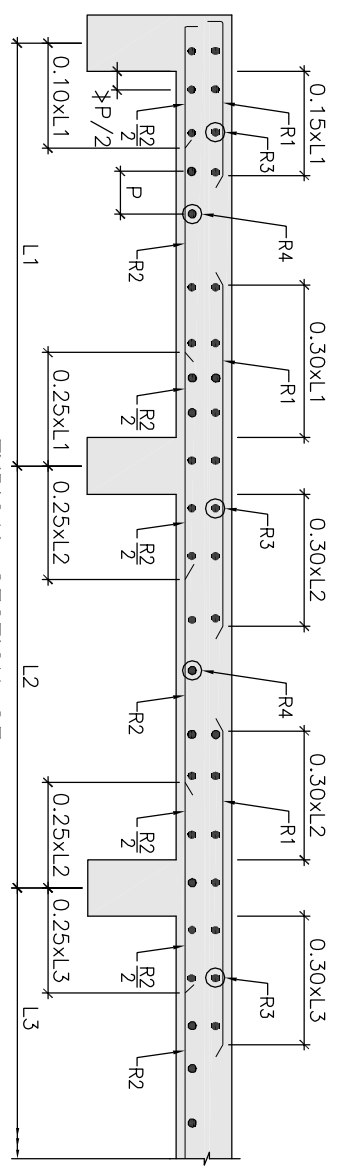
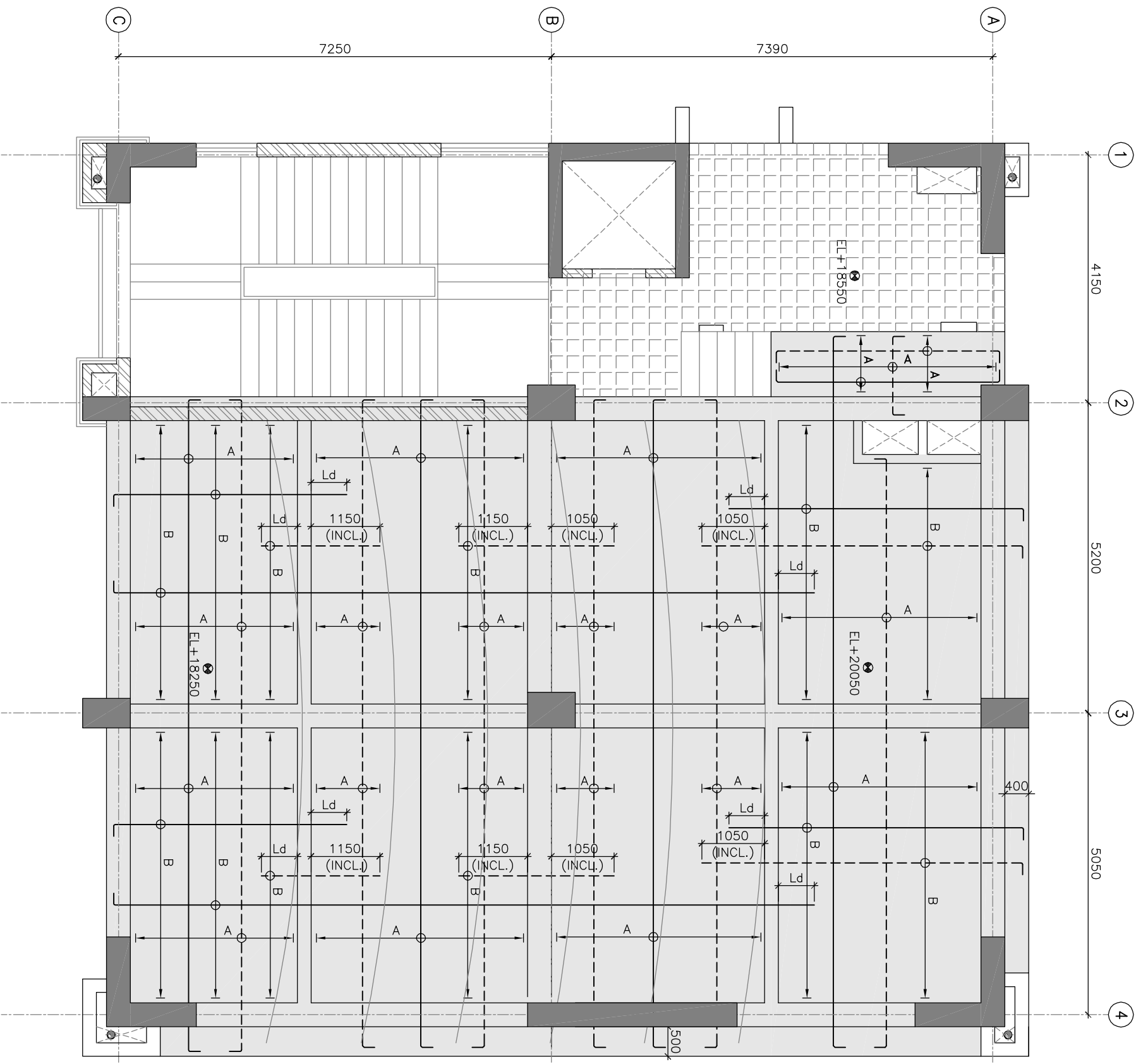
DETAILS OF FOURTH FLOOR SLAB (EL=18550)

TATA CONSULTING ENGINEERS LIMITED

MUMBAI

SCALE : AS NOTED DWG NO: TCE.10477A-CV-1007-RC-1027

DC & DSFC : --- ISSUE R0



TYPICAL SECTION OF SLAB REINFORCEMENT

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.

3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
5. THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED, THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANJABARI, GUWAHATI"

LEGEND:
A=10φ@150C/C
B=12φ@100C/C

--- TOP REINFORCEMENT
— BOTTOM REINFORCEMENT

IMPORTANT NOTES:

1. SLAB REINFORCEMENT, WHEREVER NOT SHOWN SHALL BE OF 8φ@150C/C
2. ALL DISTRIBUTION REINFORCEMENT SHALL BE OF 8φ@150C/C WHEREVER REQUIRED (NOT SHOWN IN THE PLAN)
3. Ld = DEVELOPMENT LENGTH = 50φ
4. ALL SLAB THICKNESS SHALL BE OF 150mm U.N.O.

RELATED DRAWINGS:

1. TCE.10477A-CV-1007-RC-1001
2. TCE.10477A-CV-1007-RC-1018
3. TCE.10477A-CV-1007-RC-1020
4. TCE.10477A-CV-1007-RC-1027

6. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-

a) VERTICAL FACES OF COLUMN, BEAM & WALL	: 24 HOURS
b) SLAB (i) SPANNING UP TO 4.5m	: 7 DAYS
(ii) SPANNING OVER 4.5m	: 14 DAYS
c) BEAM (i) SPANNING UP TO 6.0m	: 14 DAYS
(ii) SPANNING OVER 6.0m	: 21 DAYS

8. CLEAR COVER TO THE MAIN REINFORCEMENT
 - a) FOUNDATION : 60mm
 - b) COLUMN UP TO PLINTH : 60mm
 - c) COLUMN ABOVE PLINTH : 40mm
 - d) BEAM : 25mm
 - e) WALL : 30mm
 - f) SLAB : 15-20mm
9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION.
11. USE SPACE BAR TO AVOID CONGESTION, WHEREVER NECESSARY.
12. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
13. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

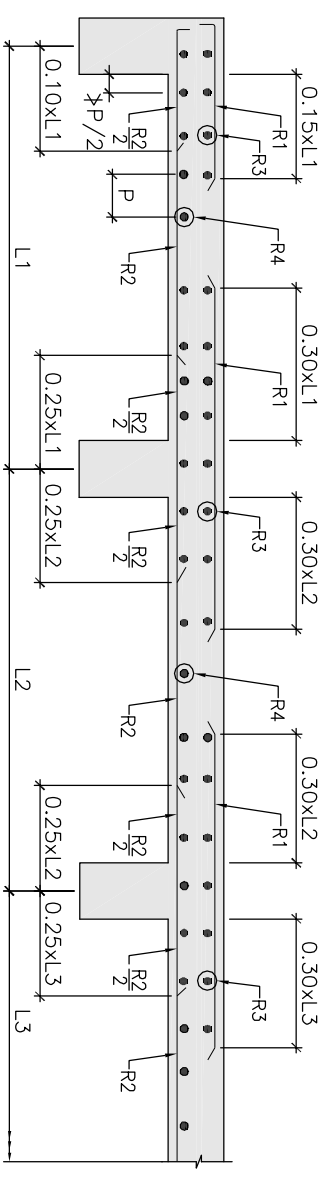
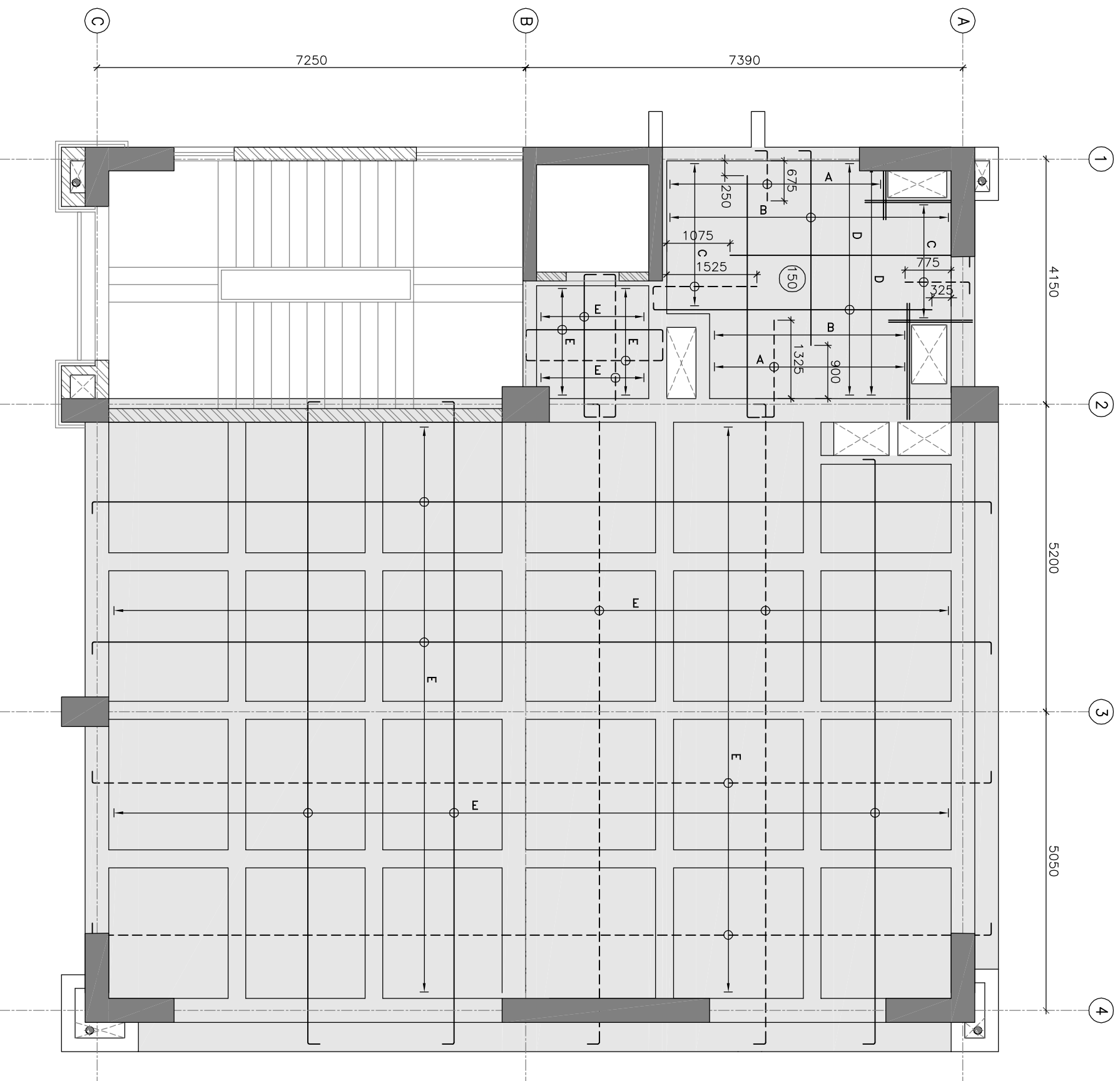
TENDER PURPOSE ONLY

SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	DATE

ISSUE	DRN	DSN	CHD	CV	EL	IC	WE	PI	HW	EXT	LS	PE/PM	APPD	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD,
SMART CITY MISSION GUWAHATI

DETAILS OF FOURTH FLOOR SLAB (EL+18550/+20050)



TYPICAL SECTION OF SLAB REINFORCEMENT

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.

3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
5. THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED, THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANJABARI, GUWAHATI"

LEGEND:

- A=10Ø@125C/C
- B=10Ø@250C/C
- C=10Ø@150C/C
- D=10Ø@300C/C
- E=8Ø@150C/C

----- TOP REINFORCEMENT
 _____ BOTTOM REINFORCEMENT

IMPORTANT NOTES:

1. SLAB REINFORCEMENT, WHEREVER NOT SHOWN SHALL BE OF 8Ø@150C/C
2. ALL DISTRIBUTION REINFORCEMENT SHALL BE OF 8Ø@150C/C WHEREVER REQUIRED (NOT SHOWN IN THE PLAN)
3. Ld = DEVELOPMENT LENGTH = 50Ø
4. ALL SLAB THICKNESS SHALL BE OF 125mm U.N.O.

RELATED DRAWINGS:

1. TCE.10477A-CV-1007-RC-1001
2. TCE.10477A-CV-1007-RC-1022

6. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-
 - a) VERTICAL FACES OF COLUMN, BEAM & WALL : 24 HOURS
 - b) SLAB
 - (i) SPANNING UP TO 4.5m : 7 DAYS
 - (ii) SPANNING OVER 4.5m : 14 DAYS
 - c) BEAM
 - (i) SPANNING UP TO 6.0m : 14 DAYS
 - (ii) SPANNING OVER 6.0m : 21 DAYS

8. CLEAR COVER TO THE MAIN REINFORCEMENT
 - a) FOUNDATION : 60mm
 - b) COLUMN UP TO PLINTH : 60mm
 - c) COLUMN ABOVE PLINTH : 40mm
 - d) BEAM : 25mm
 - e) WALL : 30mm
 - f) SLAB : 15-20mm
9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
11. USE SPACE BAR TO AVOID CONGESTION, WHEREVER NECESSARY.
12. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
13. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

TENDER PURPOSE ONLY

SIGNL	INITIALS	REVISIONS	SIGNAL	INITIALS	DATE
					17.04.2020

ISSUE	DRN	DSN	CHD	CV	EL	IC	PE	HWD	EXT	LS	PE/PM	APPD	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

DETAILS OF ROOF SLAB

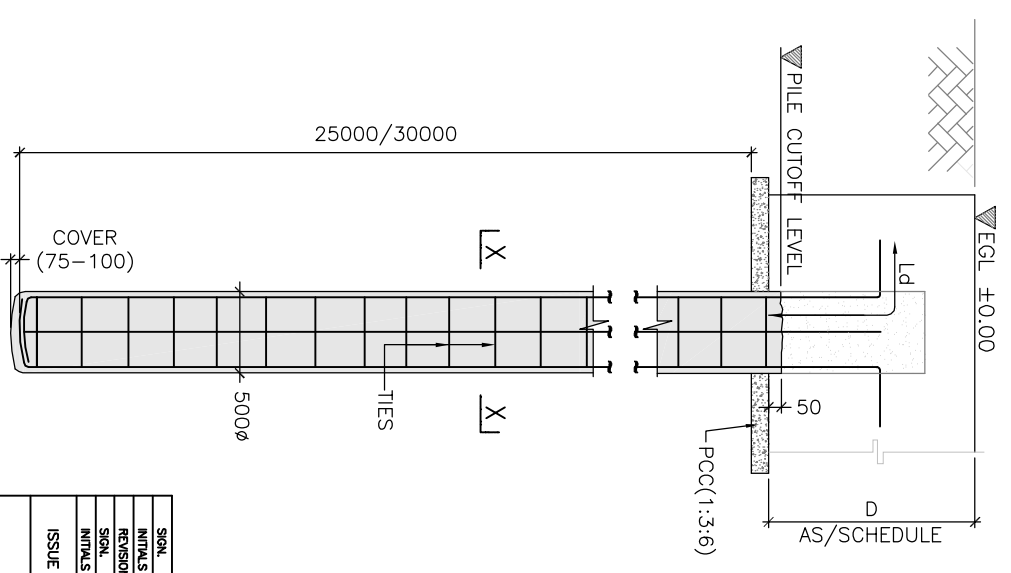
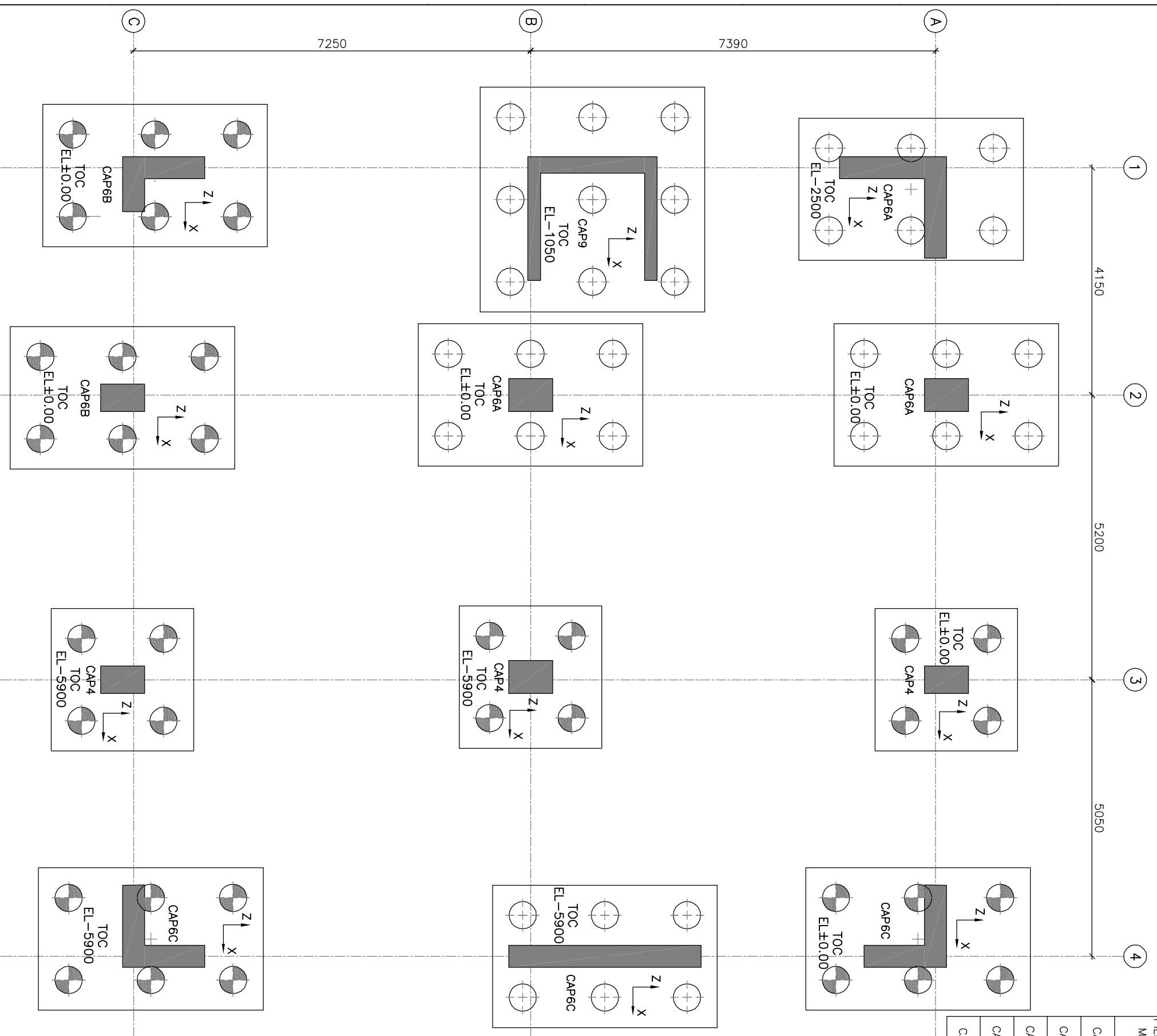
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : AS NOTED DWG NO: TCE.10477A-CV-1007-RC-1029 ISSUE RO

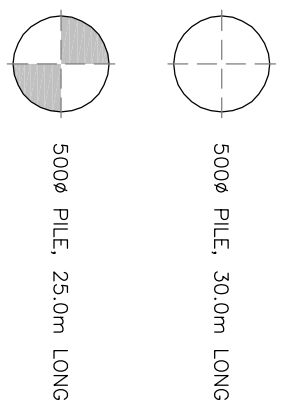
DC & DSC: ---

PILE CAP SCHEDULE		REINFORCEMENT		REMARKS
PILE CAP MARK	SIZE OF CAP L (mm) B (mm) D (mm)	ALONG Z		
		(B1)	(B2)	
CAP4	2600 2600 1100	1 - LAYER 25Ø@175C/C	2L 16Ø@150C/C	1 - LAYER 25Ø@175C/C 2L 16Ø@150C/C 12Ø@150C/C FACE BAR
CAP6A	2600 4100 1300	2 - LAYER 25Ø@200C/C	4L 16Ø@150C/C	2 - LAYER 25Ø@200C/C 4L 16Ø@200C/C 12Ø@150C/C FACE BAR
CAP6B	2600 4100 1300	1 - LAYER 25Ø@140C/C	4L 16Ø@200C/C	1 - LAYER 25Ø@140C/C 2L 16Ø@200C/C 12Ø@150C/C FACE BAR
CAP6C	2600 4100 1300	2 - LAYER 25Ø@200C/C	4L 16Ø@200C/C	1 - LAYER 25Ø@150C/C 2L 16Ø@150C/C 12Ø@150C/C FACE BAR
CAP9	4100 4100 1300	1 - LAYER 25Ø@150C/C	6L 16Ø@200C/C	2 - LAYER 25Ø@150C/C 6L 16Ø@150C/C 12Ø@150C/C FACE BAR

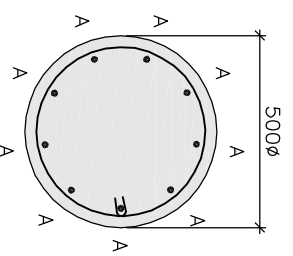
PILE SCHEDULE		PARTICULARS		DESCRIPTION
LEVEL	TOP OF PILE CAP	PILE SIZE	LENGTH OF PILE	CAST INSITU RCC PILE
		500Ø	25.0m / 30.0m	
			GRADE OF CONCRETE	M35
			LONGITUDINAL BAR	A=9-16Ø
			TIES	Ø@150C/C



LEGEND:



SECTION X-X



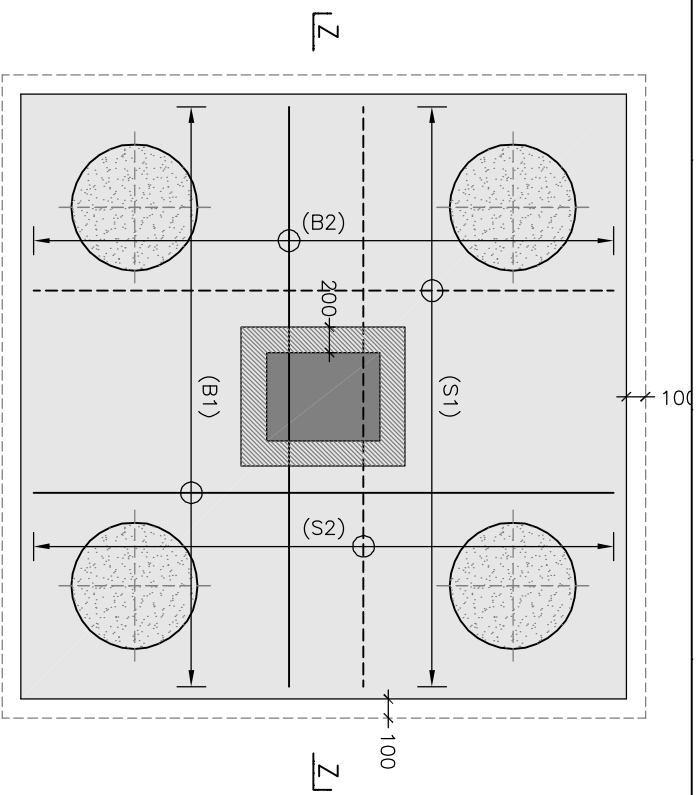
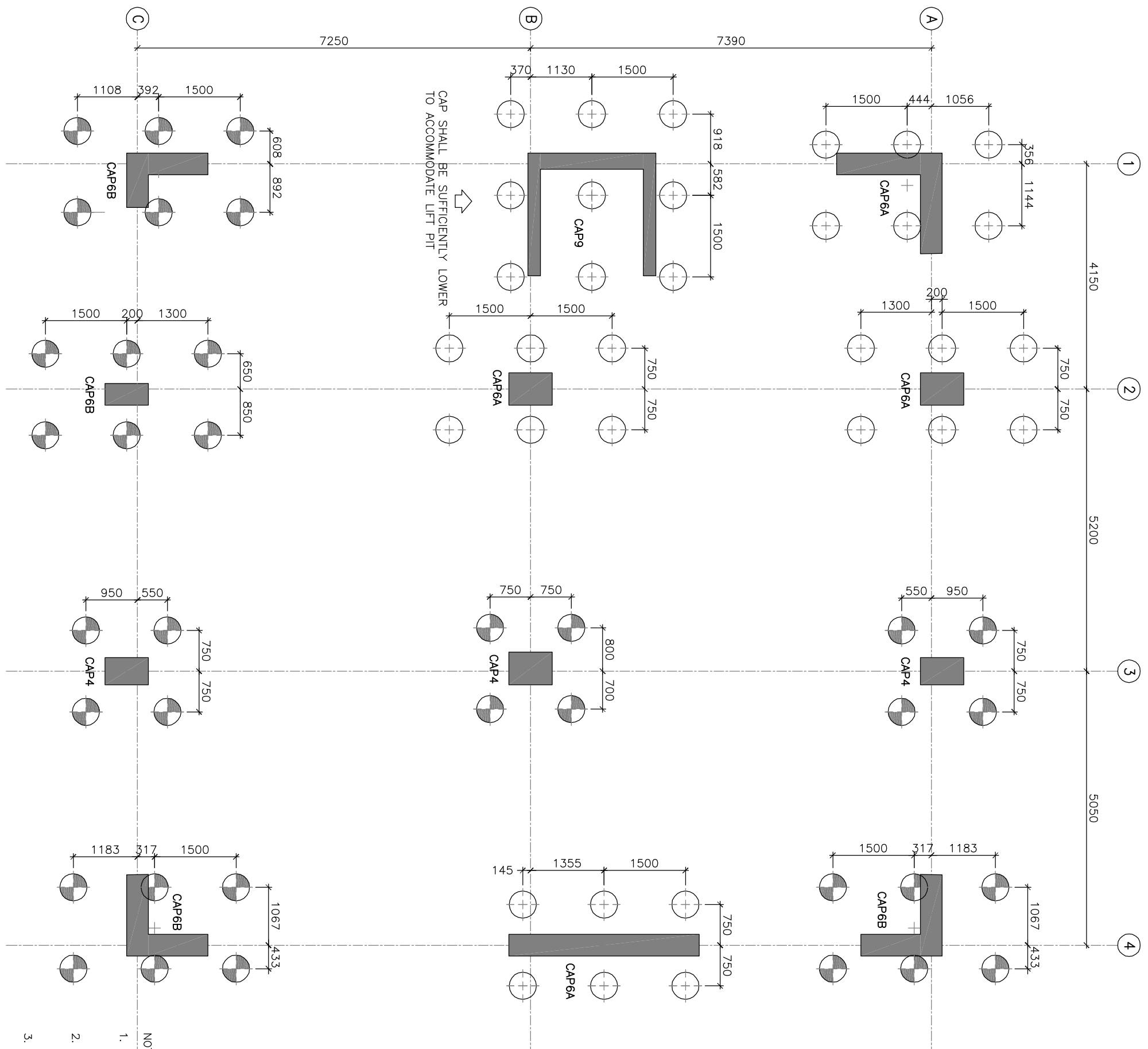
TOC STANDS FOR "TOP OF CAP" AND EL ARE IN mm U.N.O.

TENDER PURPOSE ONLY

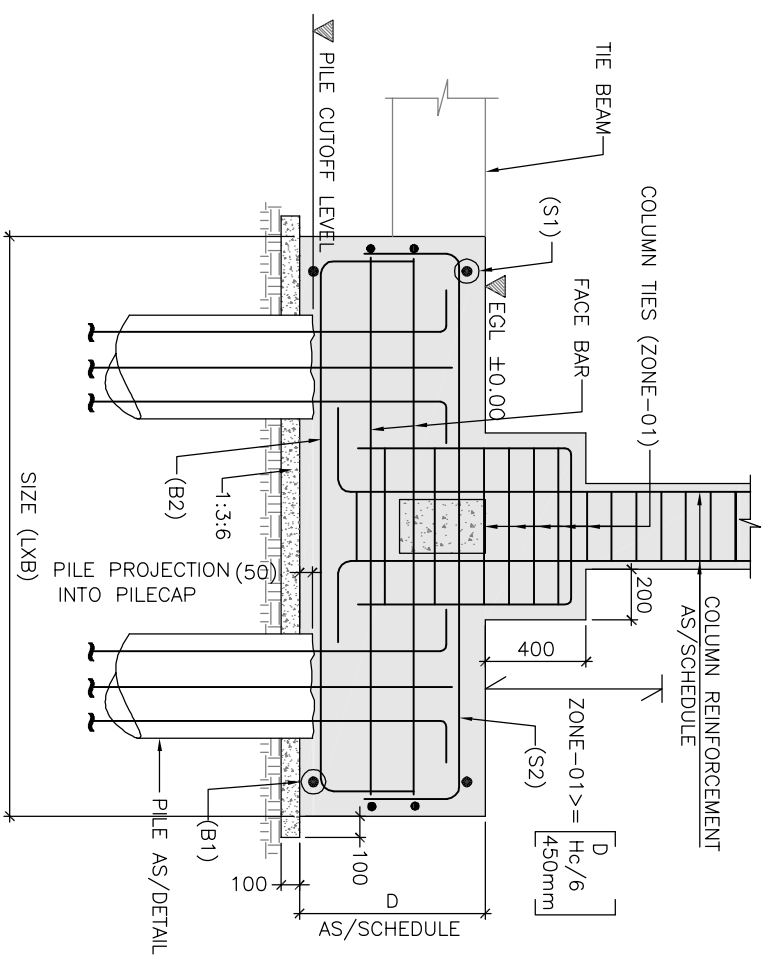
GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.																		
SMART CITY MISSION GUWAHATI																		
SIGN	INITIALS	REVISIONS	INITIALS	DRN	DSN	CHD	CV	EL	IC	ME	PL	HM	EXT	LS	FE	PM	APPD	DATE
																		09.05.2020

DETAILS OF PILE AND PILE CAP (SHEET 1 / 2)

- RELATED DRAWINGS:
- TCE.10477A-CV-1007-RC-1001
 - TCE.10477A-CV-1007-RC-1031
 - TCE.10477A-CV-1007-RC-1010



TYPICAL DETAIL OF PILE CAP - PLAN



SECTION Z-Z

RELATED DRAWINGS:

1. TCE.10477A-CV-1007-RC-1001
2. TCE.10477A-CV-1007-RC-1030
3. TCE.10477A-CV-1007-RC-1010

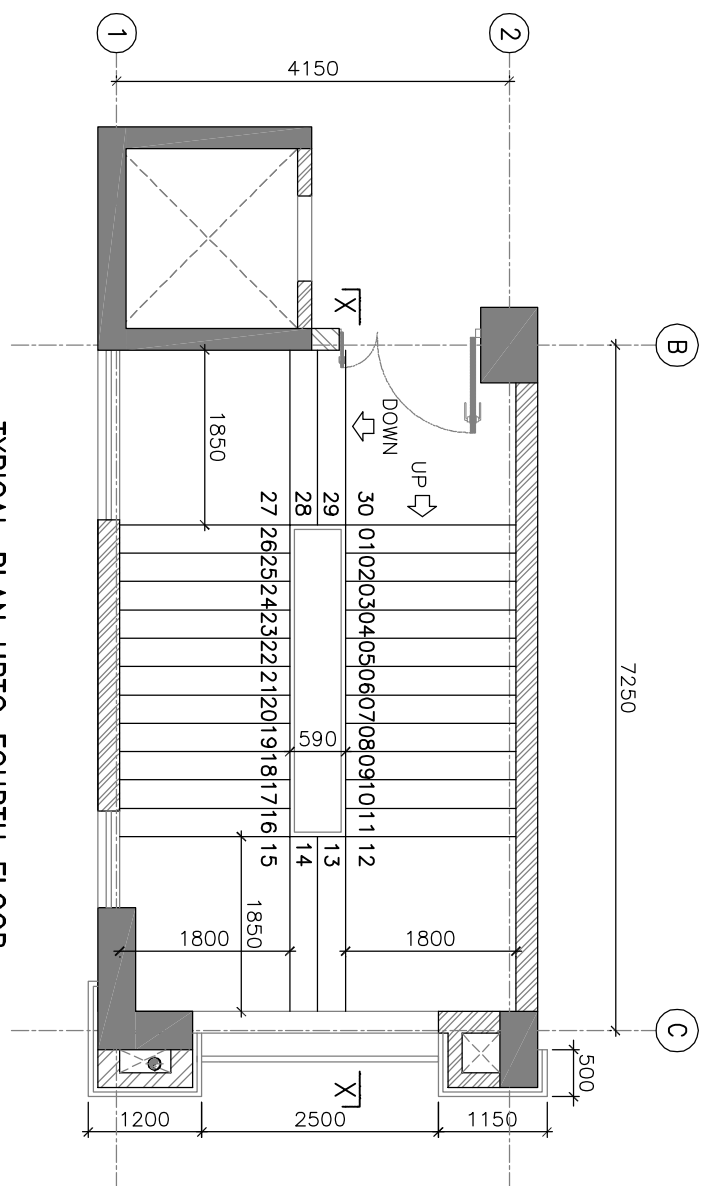
NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
3. GRADE OF CONCRETE OF PILE SHALL BE OF M35 AND CONCRETE OTHER THAN PILE SHALL BE OF M25
4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500

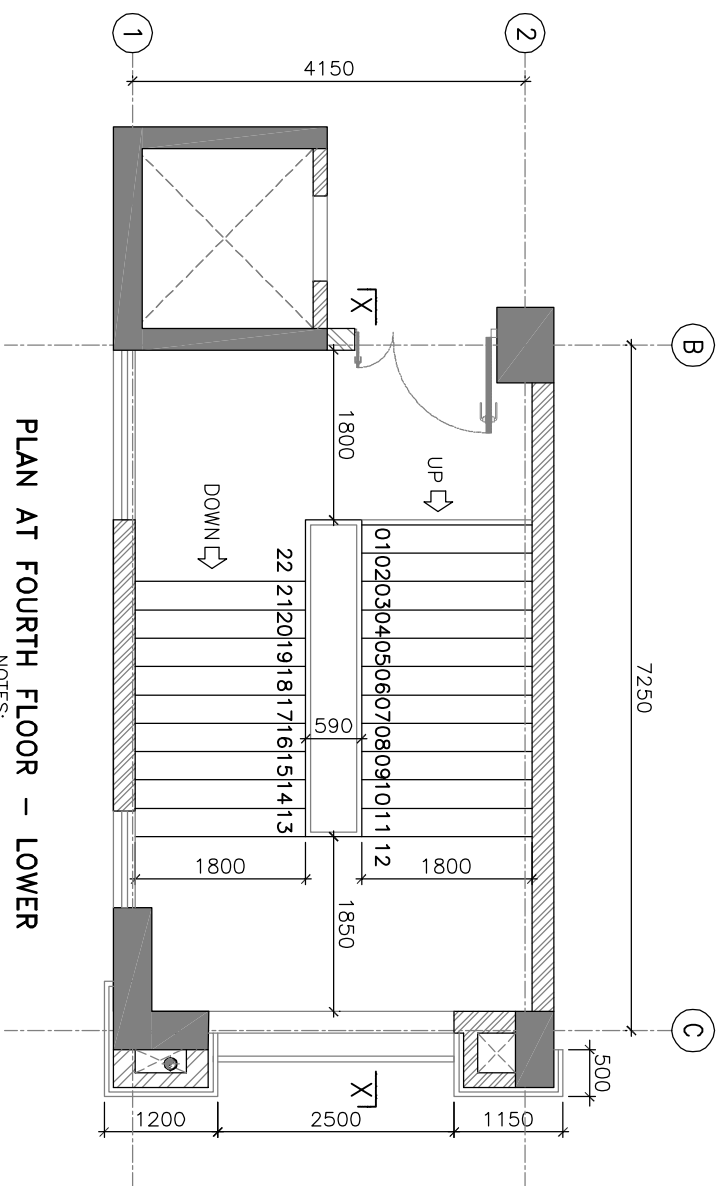
TENDER PURPOSE ONLY

SIGNL		REVISIONS		GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.	
NO.	DATE	BY	CHKD	DATE	DESCRIPTION
1	19.04.2020	IC	PE/PM		
2		IC	PE/PM		
3		IC	PE/PM		
4		IC	PE/PM		
5		IC	PE/PM		
6		IC	PE/PM		
7		IC	PE/PM		
8		IC	PE/PM		
9		IC	PE/PM		
10		IC	PE/PM		

DETAILS OF PILE & PILE CAP (SHEET 2 / 2)



TYPICAL PLAN UPTO FOURTH FLOOR



PLAN AT FOURTH FLOOR - LOWER

- RELATED DRAWINGS:
- TCE.10477A-CV-1007-RC-1001
 - TCE.10477A-CV-1007-RC-1024
 - TCE.10477A-CV-1007-RC-1025
 - TCE.10477A-CV-1007-RC-1026
 - TCE.10477A-CV-1007-RC-1027
 - TCE.10477A-CV-1007-RC-1028
 - TCE.10477A-CV-1007-RC-1029

1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.

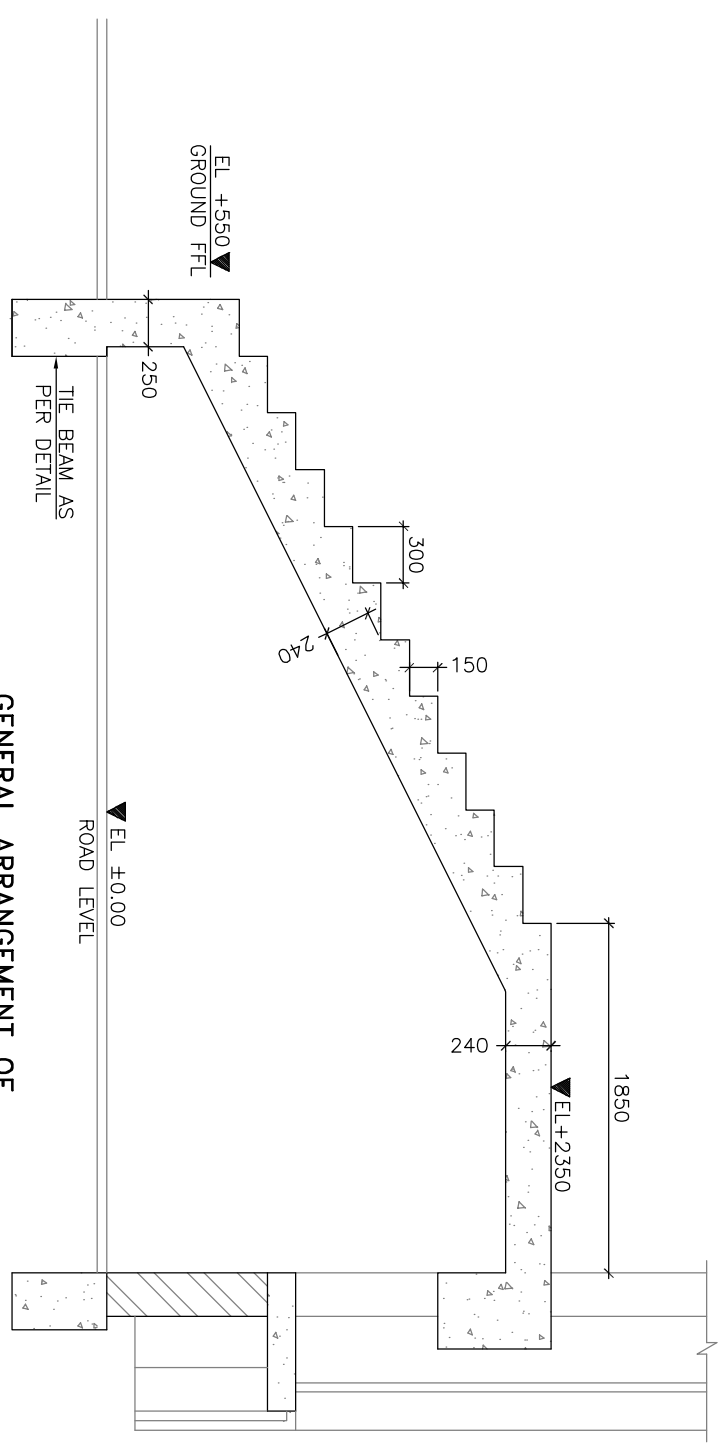
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.

3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.

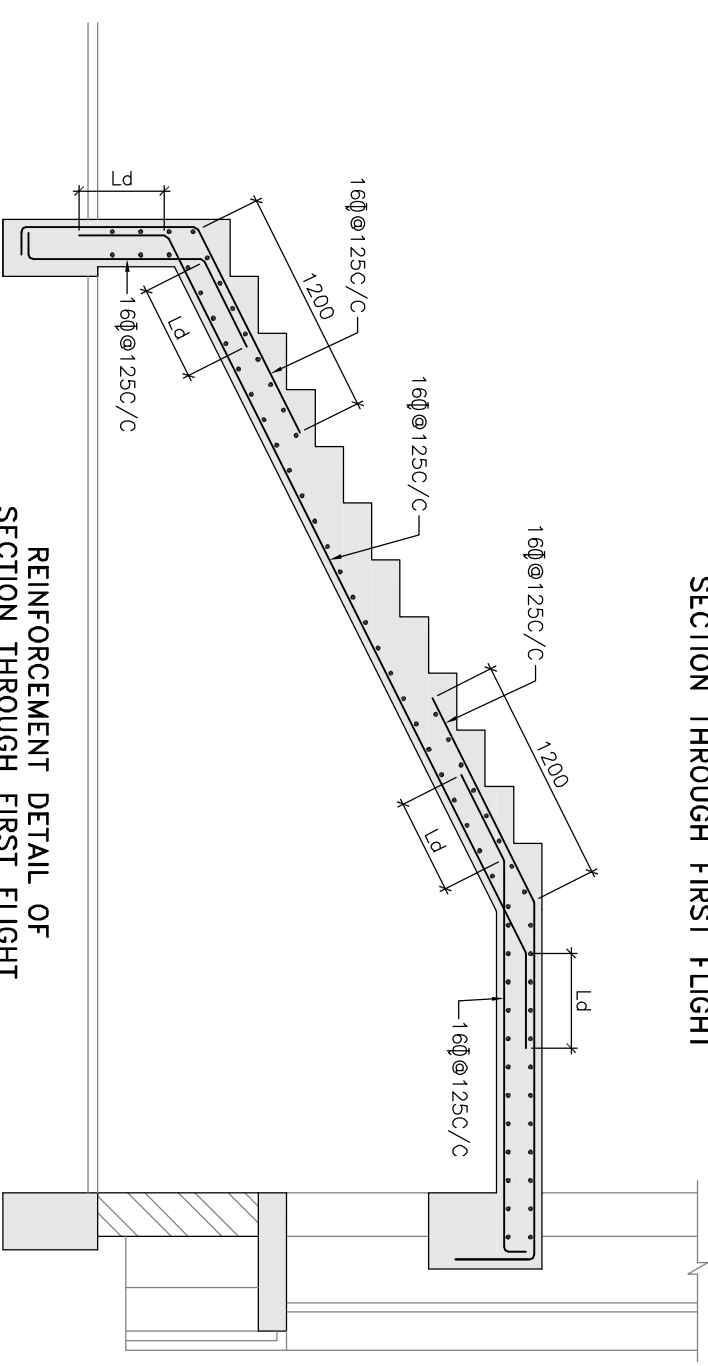
4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500

5. PERIODIC QUALITY CONTROL TESTS MAY BE UNDERTAKEN BY THE CONTRACTOR AND RESULTS OF THE SAME SHALL BE MADE AVAILABLE AS AND WHEN REQUIRED. THE QUALITY OF THE CONSTRUCTION SHALL BE ENSURED BY THE CONTRACTOR AND THEY ARE ALSO RESPONSIBLE TO CARRY OUT THE CONSTRUCTION AS PER LATEST CONSTRUCTION DRAWINGS ISSUED BY THE CONSULTANT TIME TO TIME.

6. THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED. THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANJABARI, GUWAHATI"



GENERAL ARRANGEMENT OF SECTION THROUGH FIRST FLIGHT



REINFORCEMENT DETAIL OF SECTION THROUGH FIRST FLIGHT

ALL DISTRIBUTION REINFORCEMENT SHALL BE OF 8φ@50C/C U.N.O.

TENDER PURPOSE ONLY

7. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-
- | | |
|---|-----------------------------------|
| a) VERTICAL FACES OF COLUMN, BEAM & WALL | : 24 HOURS |
| b) SLAB | (i) SPANNING UPTO 4.5m : 7 DAYS |
| | (ii) SPANNING OVER 4.5m : 14 DAYS |
| c) BEAM | (i) SPANNING UPTO 6.0m : 14 DAYS |
| | (ii) SPANNING OVER 6.0m : 21 DAYS |
| 8. CLEAR COVER TO THE MAIN REINFORCEMENT | |
| a) FOUNDATION | : 60mm |
| b) COLUMN UPTO PLINTH | : 60mm |
| c) COLUMN ABOVE PLINTH | : 40mm |
| d) BEAM | : 25mm |
| e) WALL | : 30mm |
| f) SLAB | : 15-20mm |
| 9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA. | |
| 10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION | |
| 11. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT. | |
| 12. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS. | |

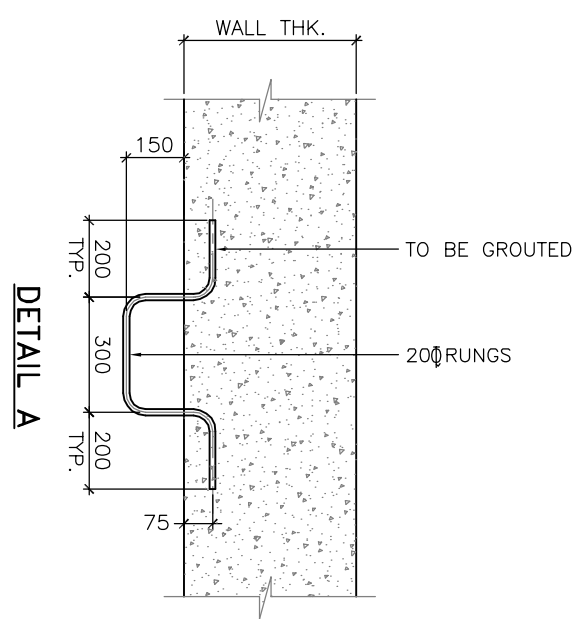
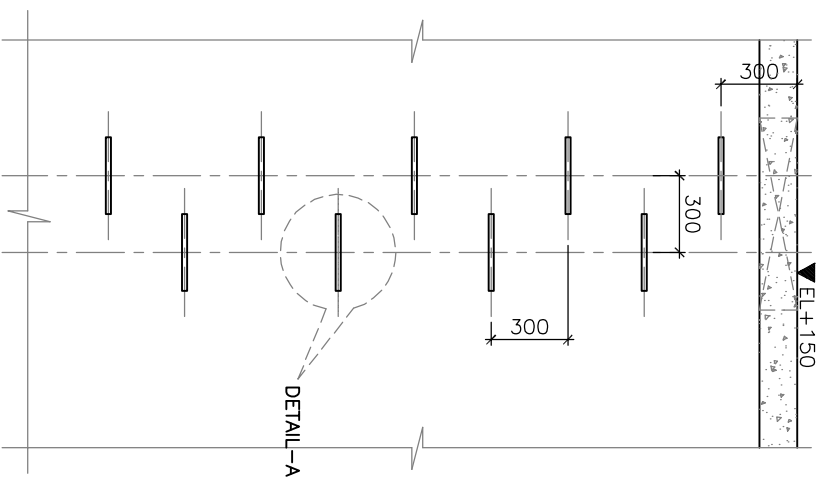
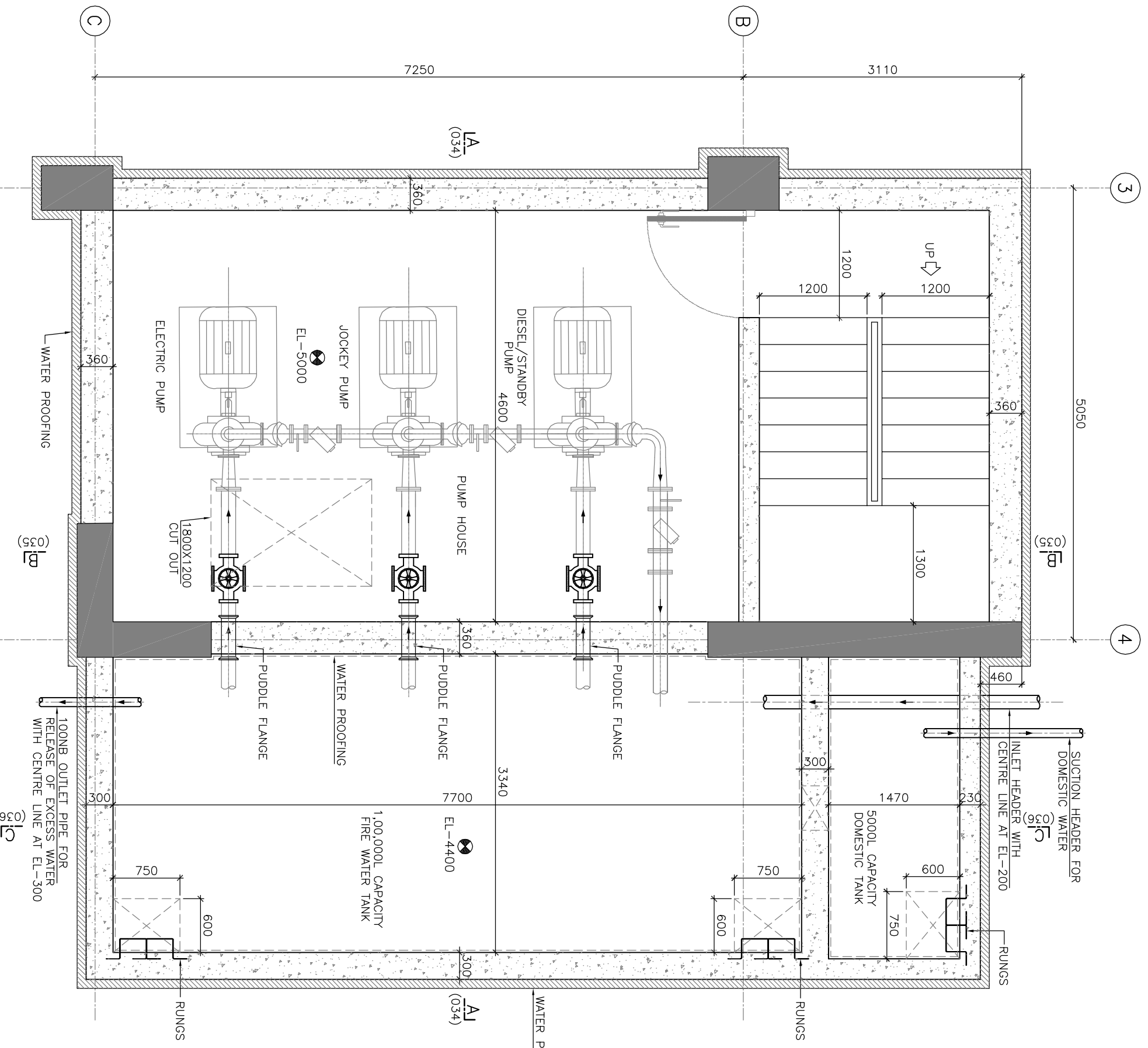
NO.	REVISIONS	DATE

DRN	DSN	CHD	CV	EL	IC	ME	PI	HM	EXT	LS	FE/PM	APPD	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

DETAILS OF STAIR CASE

PLAN AT EL-5000



TYPICAL DETAIL OF RUNGS

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
5. PERIODIC QUALITY CONTROL TESTS MAY BE UNDERTAKEN BY THE CONTRACTOR AND RESULTS OF THE SAME SHALL BE MADE AVAILABLE AS AND WHEN REQUIRED. THE QUALITY OF THE CONSTRUCTION SHALL BE ENSURED BY THE CONTRACTOR AND THEY ARE ALSO RESPONSIBLE TO CARRY OUT THE CONSTRUCTION AS PER LATEST CONSTRUCTION DRAWINGS ISSUED BY THE CONSULTANT TIME TO TIME.
6. THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED. THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANJABARI, GUWAHATI"

TENDER PURPOSE ONLY

RELATED DRAWINGS:

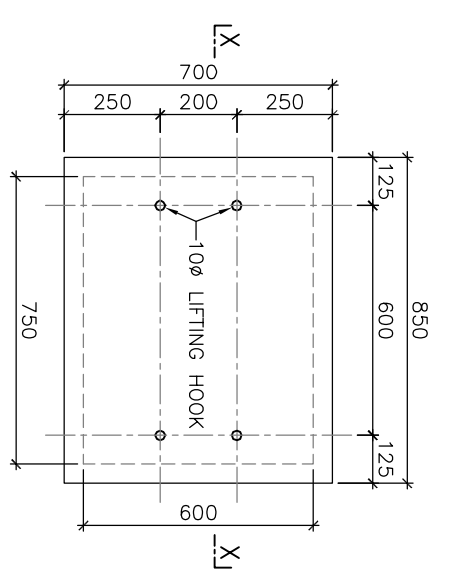
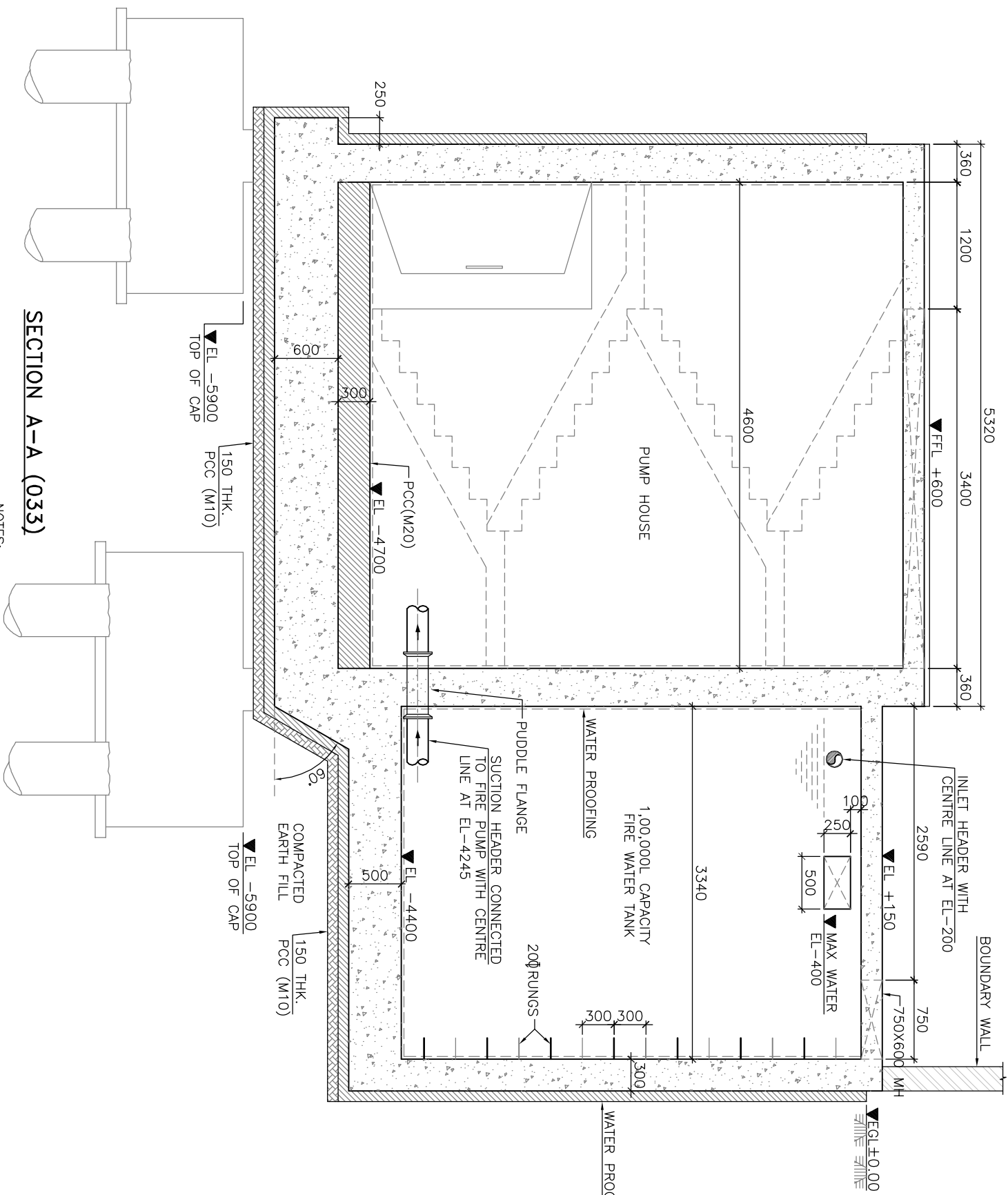
1. TCE.10477A-CV-1007-RC-1001
2. TCE.10477A-CV-1007-RC-1010
3. TCE.10477A-CV-1007-RC-1030
4. TCE.10477A-CV-1007-RC-1031
5. TCE.10477A-CV-1007-RC-1034
6. TCE.10477A-CV-1007-RC-1035
7. TCE.10477A-CV-1007-RC-1036

SNO	INITIALS	REVISIONS	DATE

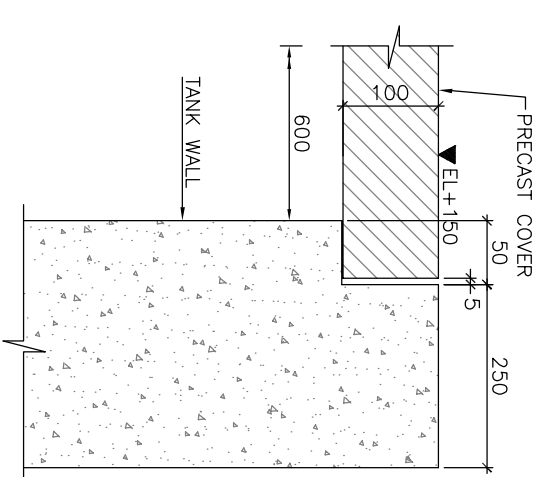
DRN	DSN	CHD	CV	EL	IC	ME	PL	MD	EXT	LS	FE/PM	APPD	DATE

DETAILS OF 1,55,000 LIT. CAPACITY UG WATER TANK
GENERAL ARRANGEMENT (SHEET 1 / 4)

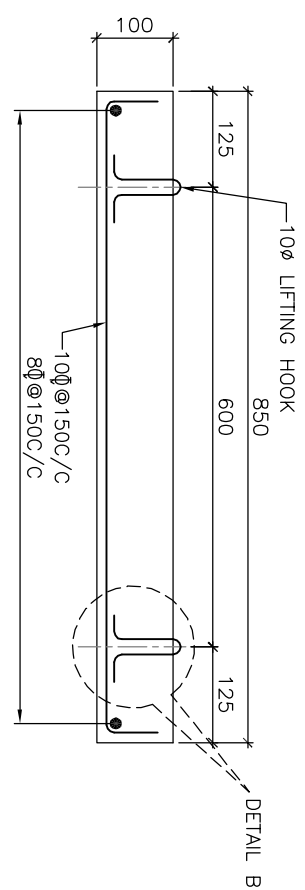
TATA CONSULTING ENGINEERS LIMITED
MUMBAI



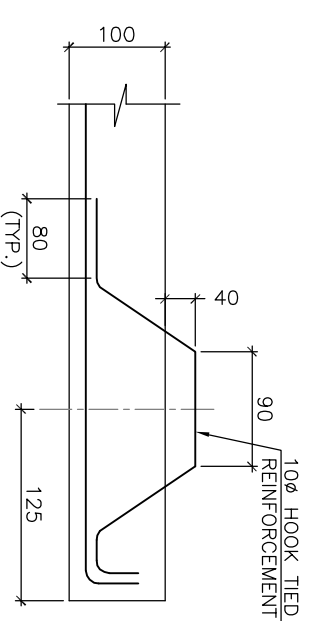
DETAILS OF PRECAST CUTOUT COVER - PLAN



TYPICAL EDGE DETAIL



SECTION X-X



DETAIL B

SECTION A-A (033)

NOTES:

- ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
- ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
- GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
- GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
- PERIODIC QUALITY CONTROL TESTS MAY BE UNDERTAKEN BY THE CONTRACTOR AND RESULTS OF THE SAME SHALL BE MADE AVAILABLE AS AND WHEN REQUIRED. THE QUALITY OF THE CONSTRUCTION SHALL BE ENSURED BY THE CONTRACTOR AND THEY ARE ALSO RESPONSIBLE TO CARRY OUT THE CONSTRUCTION AS PER LATEST CONSTRUCTION DRAWINGS ISSUED BY THE CONSULTANT TIME TO TIME.
- DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-

a) VERTICAL FACES OF COLUMN, BEAM & WALL	:	24 HOURS
b) SLAB	:	7 DAYS
	(ii)	SPANNING OVER 4.5m
	:	14 DAYS
c) BEAM	:	14 DAYS
	(ii)	SPANNING OVER 6.0m
	:	21 DAYS
- CLEAR COVER TO THE MAIN REINFORCEMENT

a) FOUNDATION	:	60mm
b) COLUMN UPTO PLINTH	:	60mm
c) COLUMN ABOVE PLINTH	:	40mm
d) BEAM	:	25mm
e) WALL	:	30mm
f) SLAB	:	15-20mm
- LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
- NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
- ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

TENDER PURPOSE ONLY

RELATED DRAWINGS:

- TCE.10477A-CV-1007-RC-1001
- TCE.10477A-CV-1007-RC-1010
- TCE.10477A-CV-1007-RC-1030
- TCE.10477A-CV-1007-RC-1031
- TCE.10477A-CV-1007-RC-1033
- TCE.10477A-CV-1007-RC-1035
- TCE.10477A-CV-1007-RC-1036

SRNO	INITIALS	REVISIONS	DATE

SRNO	INITIALS	DATE

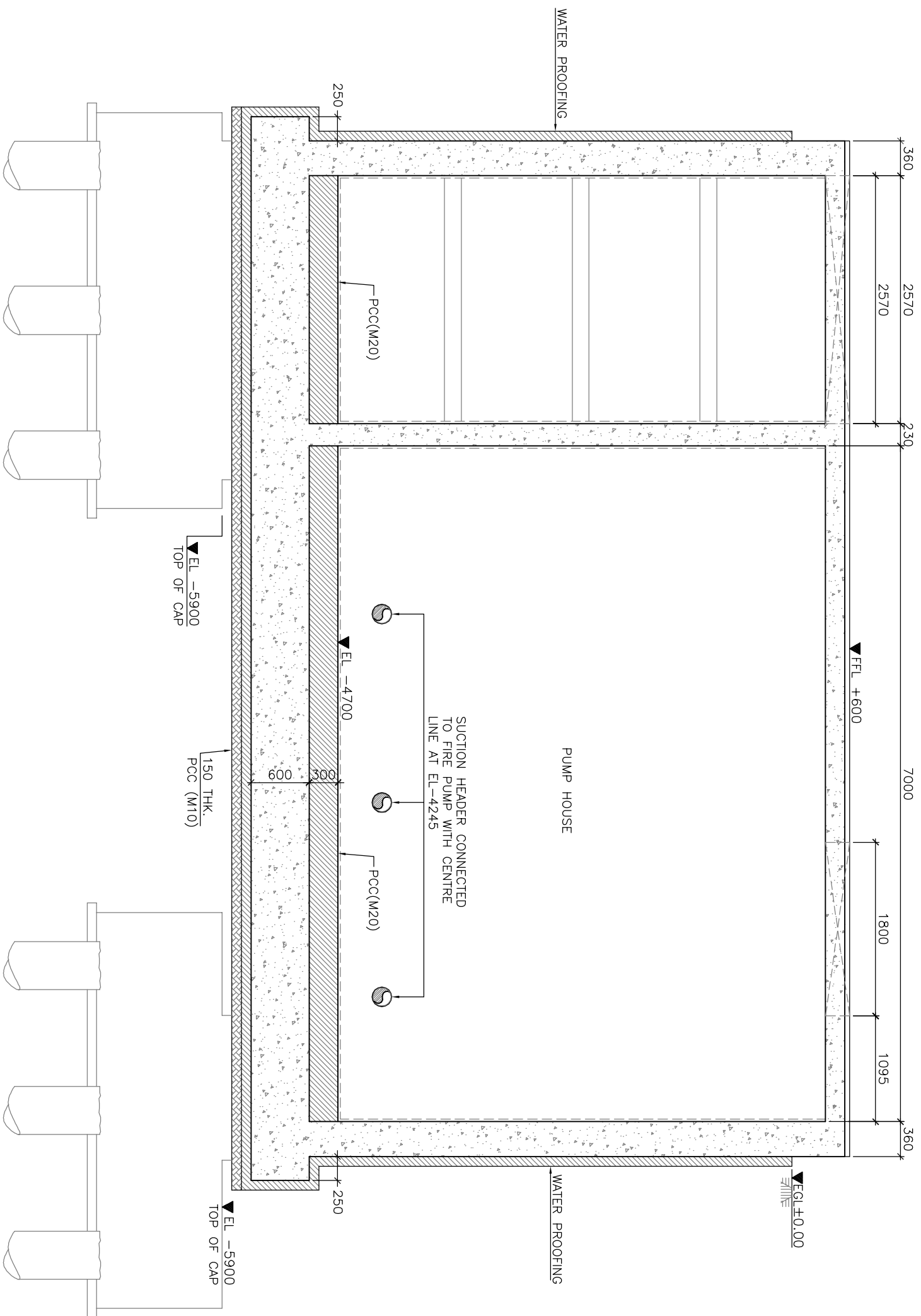
DETAILS OF 1,55,000 LIT. CAPACITY UG WATER TANK
GENERAL ARRANGEMENT (SHEET 2 / 4)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

SCALE : AS NOTED
DATE : 05.05.2020
ISSUE : RO

- RELATED DRAWINGS:
- TCE.10477A-CV-1007-RC-1001
 - TCE.10477A-CV-1007-RC-1010
 - TCE.10477A-CV-1007-RC-1030
 - TCE.10477A-CV-1007-RC-1031
 - TCE.10477A-CV-1007-RC-1033
 - TCE.10477A-CV-1007-RC-1034
 - TCE.10477A-CV-1007-RC-1036
- NOTES:
- ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
 - ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
 - GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
 - GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
 - PERIODIC QUALITY CONTROL TESTS MAY BE UNDERTAKEN BY THE CONTRACTOR AND RESULTS OF THE SAME SHALL BE MADE AVAILABLE AS AND WHEN REQUIRED. THE QUALITY OF THE CONSTRUCTION SHALL BE ENSURED BY THE CONTRACTOR AND THEY ARE ALSO RESPONSIBLE TO CARRY OUT THE CONSTRUCTION AS PER LATEST CONSTRUCTION DRAWINGS ISSUED BY THE CONSULTANT TIME TO TIME.
 - THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED. THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANJABARI, GUWAHATI"
 - DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-
 - VERTICAL FACES OF COLUMN, BEAM & WALL : 24 HOURS
 - SLAB
 - SPANNING UP TO 4.5m : 7 DAYS
 - SPANNING OVER 4.5m : 14 DAYS
 - BEAM
 - SPANNING UP TO 6.0m : 14 DAYS
 - SPANNING OVER 6.0m : 21 DAYS
 - CLEAR COVER TO THE MAIN REINFORCEMENT
 - FOUNDATION : 60mm
 - COLUMN UP TO PLINTH : 60mm
 - COLUMN ABOVE PLINTH : 40mm
 - BEAM : 25mm
 - WALL : 30mm
 - SLAB : 15-20mm
 - LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
 - NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
 - ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.



SECTION B-B (033)

TENDER PURPOSE ONLY

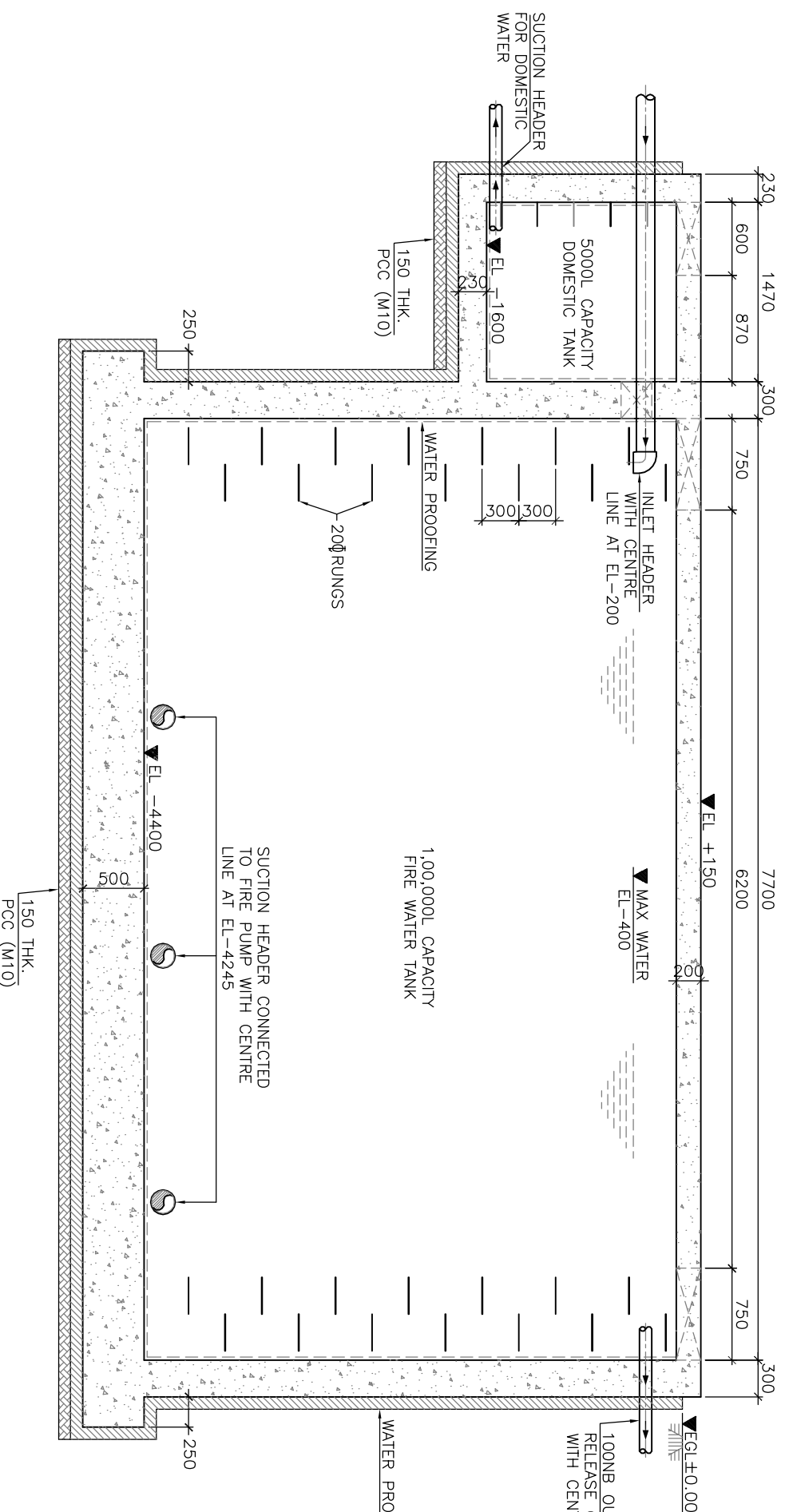
SRN	INITIALS	REVISIONS	SRN	INITIALS	DATE
					05.05.2020
ISSUE	DRN	DSN	CHD	CV	EL
				IC	ME
				PL	HM
				EXT	LS
				FE	PM
				APPD	
				DATE	

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD,
SMART CITY MISSION GUWAHATI

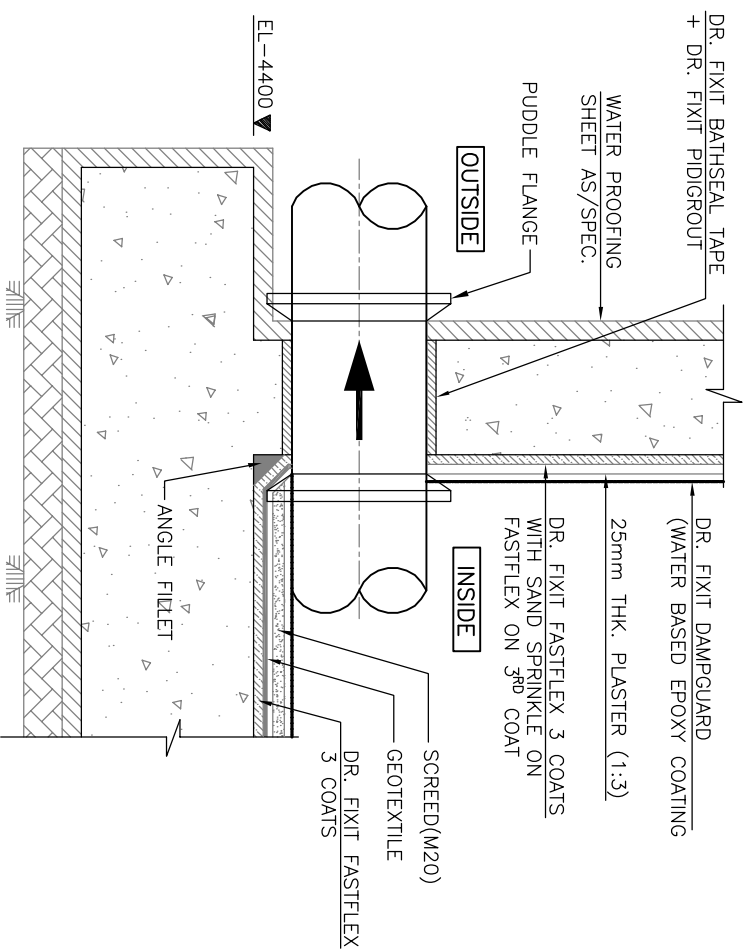
DETAILS OF 1,55,000 LIT. CAPACITY UG WATER TANK
GENERAL ARRANGEMENT (SHEET 3 / 4)

TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE : AS NOTED DWG NO. TCE.10477A-CV-1007-RC-1035 ISSUE RO
DC & DRG :-



SECTION C-C (033)



TYPICAL DETAIL OF INTERNAL WATER PROOFING

- RELATED DRAWINGS:
1. TCE.10477A-CV-1007-RC-1001
 2. TCE.10477A-CV-1007-RC-1010
 3. TCE.10477A-CV-1007-RC-1030
 4. TCE.10477A-CV-1007-RC-1031
 5. TCE.10477A-CV-1007-RC-1033
 6. TCE.10477A-CV-1007-RC-1034
 7. TCE.10477A-CV-1007-RC-1035

- NOTES:
1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
 2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
 3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
 4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
 5. PERIODIC QUALITY CONTROL TESTS MAY BE UNDERTAKEN BY THE CONTRACTOR AND RESULTS OF THE SAME SHALL BE MADE AVAILABLE AS AND WHEN REQUIRED. THE QUALITY OF THE CONSTRUCTION SHALL BE ENSURED BY THE CONTRACTOR AND THEY ARE ALSO RESPONSIBLE TO CARRY OUT THE CONSTRUCTION AS PER LATEST CONSTRUCTION DRAWINGS ISSUED BY THE CONSULTANT TIME TO TIME.
 6. THESE DRAWINGS ARE THE PROPERTY OF M/S TATA CONSULTING ENGINEERS LIMITED. THOSE SHALL NOT BE COPIED, TRANSFERRED, MODIFIED OR USED FOR ANY PURPOSE OTHER THAN FOR THE PLANNING AND CONSTRUCTION OF "INTEGRATED COMMAND CONTROL CENTRE PROJECT AT PANABARI, GUWAHATI"
 7. DE-SHUTTERING PERIOD SHALL NOT BE LESS THAN SPECIFIED BELOW:-

a) VERTICAL FACES OF COLUMN, BEAM & WALL	: 24 HOURS
b) SLAB (i) SPANNING UP TO 4.5m	: 7 DAYS
(ii) SPANNING OVER 4.5m	: 14 DAYS
c) BEAM (i) SPANNING UP TO 6.0m	: 14 DAYS
(ii) SPANNING OVER 6.0m	: 21 DAYS
 8. CLEAR COVER TO THE MAIN REINFORCEMENT

a) FOUNDATION	: 60mm
b) COLUMN UP TO PLINTH	: 60mm
c) COLUMN ABOVE PLINTH	: 40mm
d) BEAM	: 25mm
e) WALL	: 30mm
f) SLAB	: 15-20mm
 9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
 10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
 11. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
 12. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
 13. THE WATER PROOFING MATERIAL INSIDE THE TANK SHALL BE OF DR. FIXIT OR ITS EQUIVALENT, AS APPROVED BY THE ENGINEER-IN-CHARGE

TENDER PURPOSE ONLY

SIGN & REVISIONS		DATE	
NO.	REVISIONS	DATE	
1		05.05.2020	

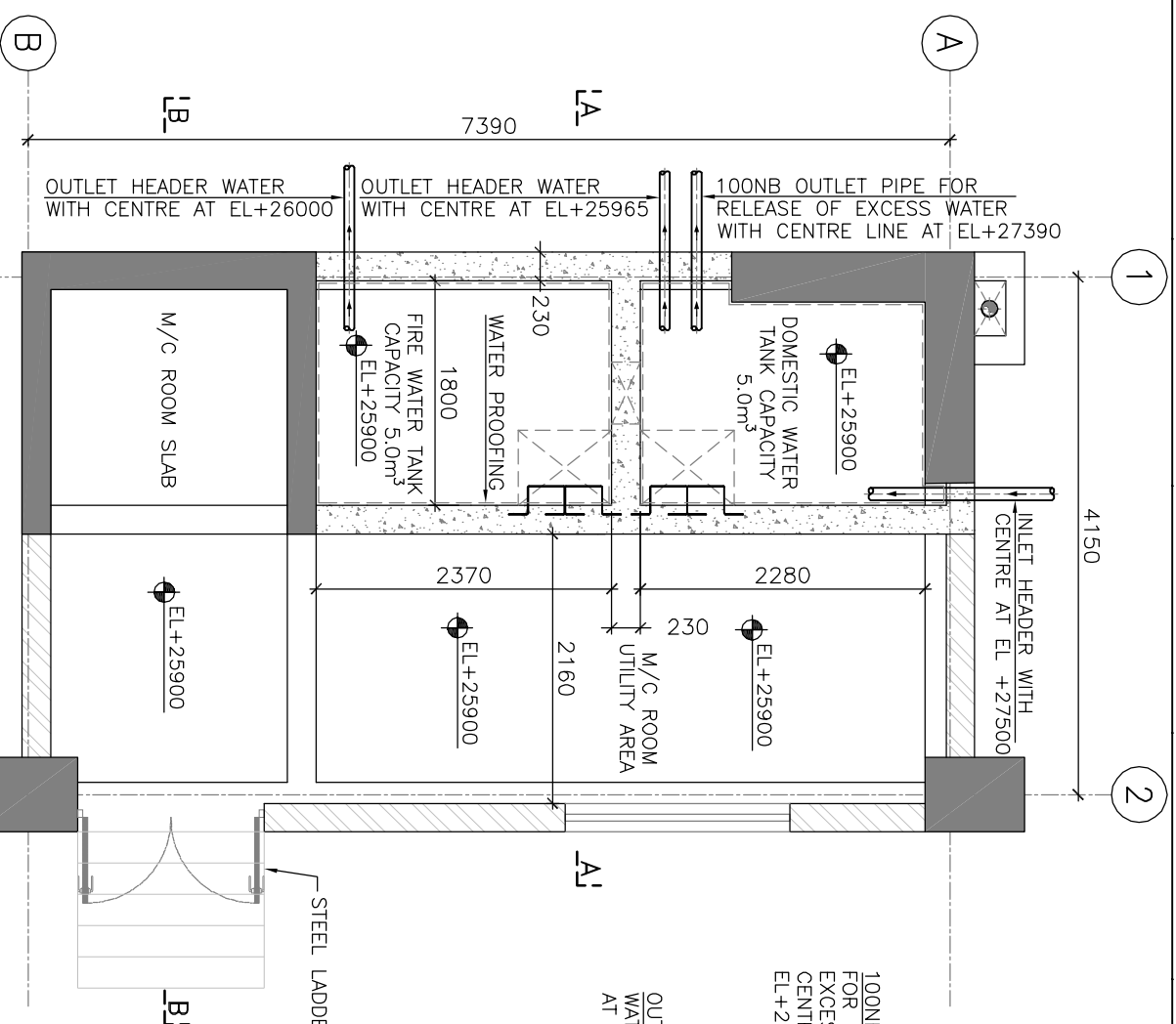
GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD,
SMART CITY MISSION GUWAHATI
MUMBAI

DETAILS OF 1,55,000 LIT. CAPACITY UG WATER TANK
GENERAL ARRANGEMENT (SHEET 4 / 4)

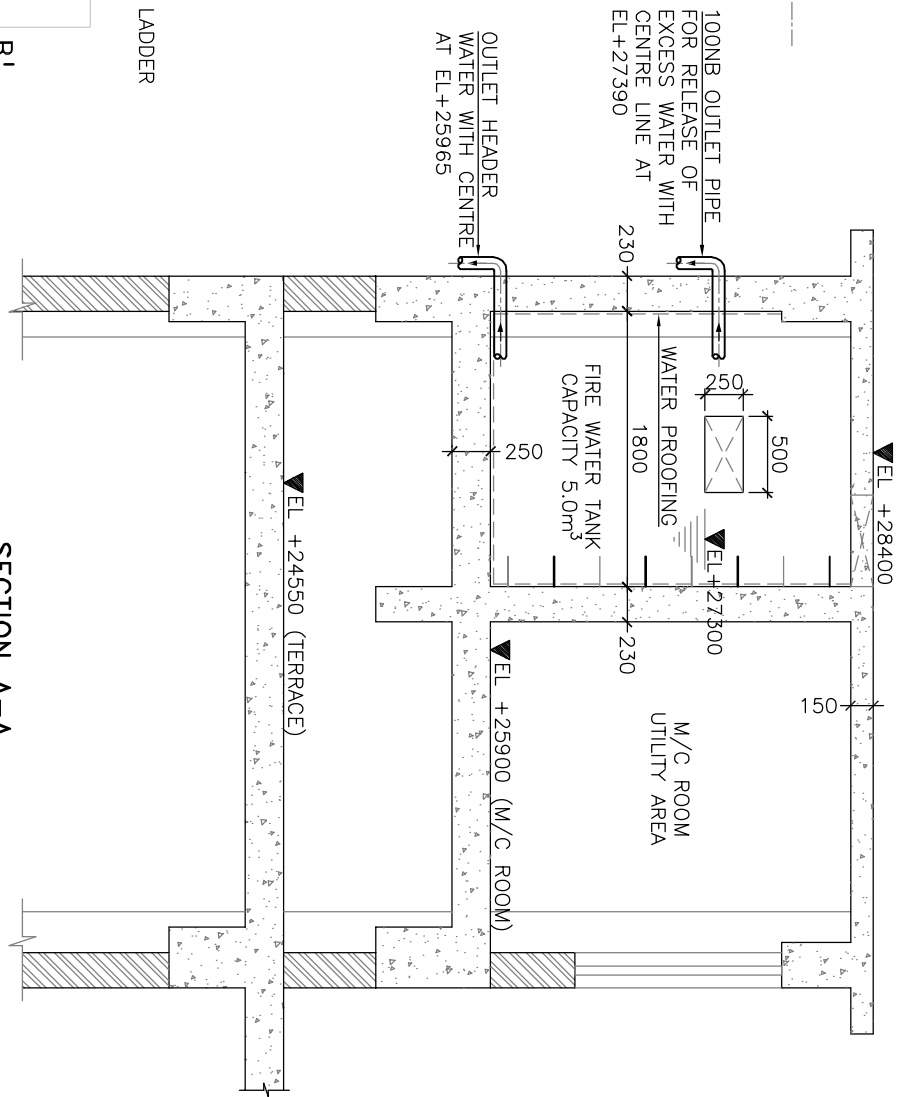
TATA CONSULTING ENGINEERS LIMITED
MUMBAI



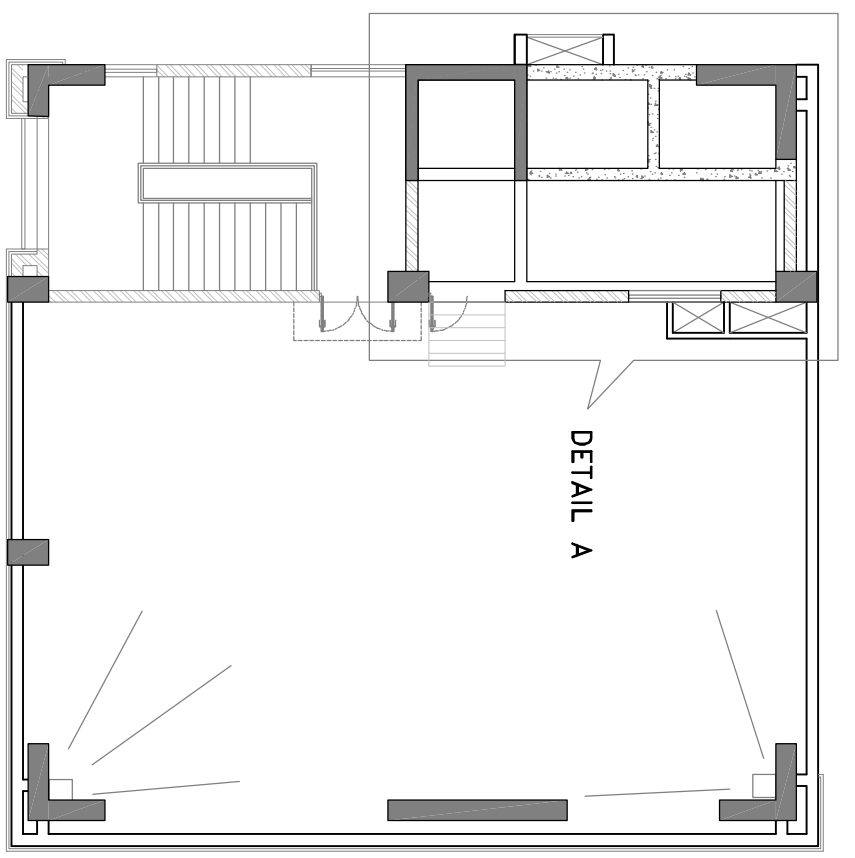
SCALE : AS NOTED DWG NO: TCE.10477A-CV-1007-RC-1036 ISSUE RO
DC & DISC:---



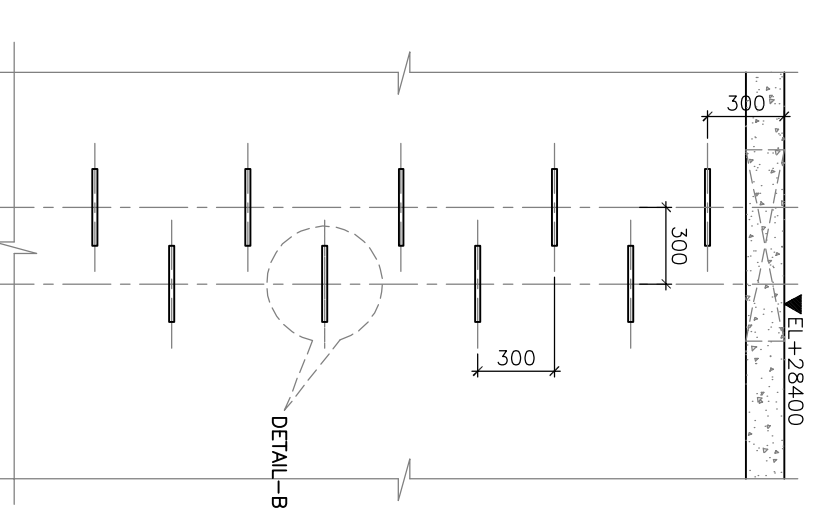
DETAIL A – PLAN
AT M/C ROOM SLAB LEVEL



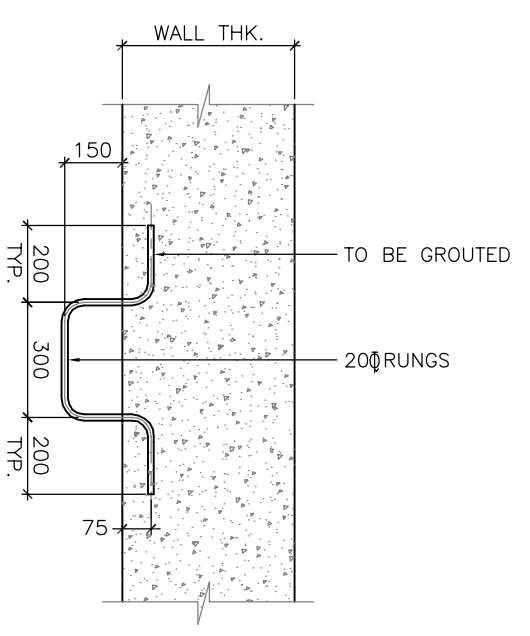
SECTION A-A



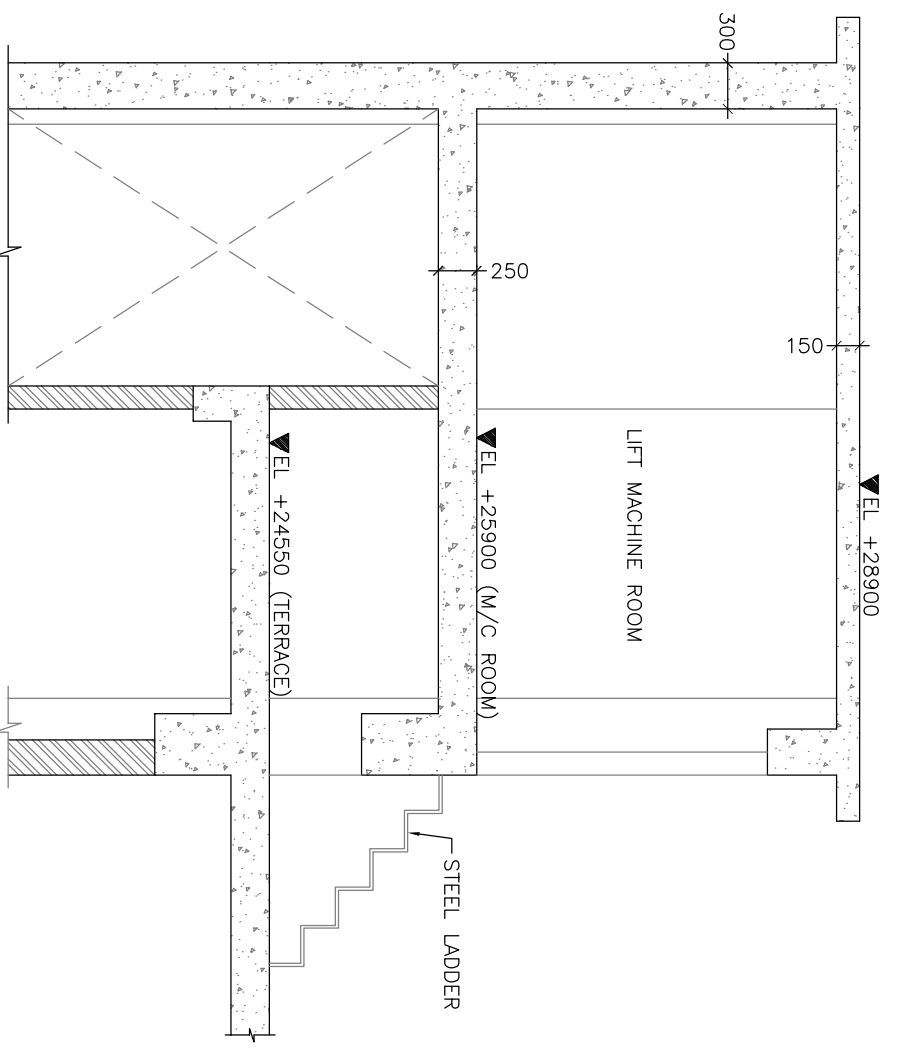
KEY PLAN



DETAIL B



DETAIL B



SECTION B-B

- RELATED DRAWINGS:**
- TCE.10477A-CV-1007-RC-1001
 - TCE.10477A-CV-1007-RC-1022
 - TCE.10477A-CV-1007-RC-1029

- NOTES:**
- ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
 - ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
 - GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
 - GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500

TENDER PURPOSE ONLY

SRNO.	INITIALS	REVISIONS	DATE

ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PL	HM	EXT	LS	FE/PM	APPD	DATE

GUWAHATI SMART CITY DEVELOPMENT AGENCY LTD.
SMART CITY MISSION GUWAHATI

DETAILS OF 10000 L CAPACITY OVERHEAD WATER TANK
GENERAL ARRANGMENT

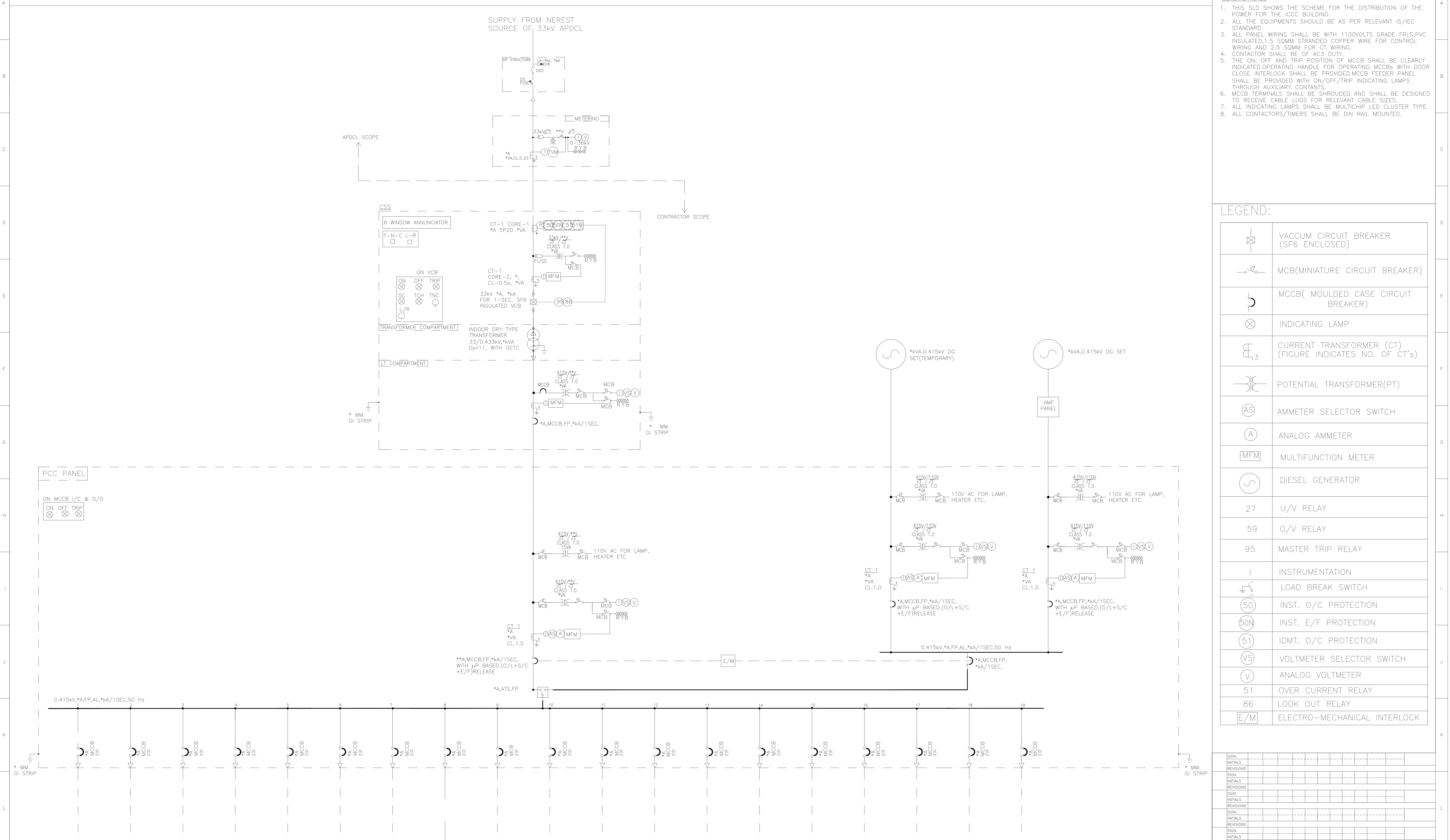
TATA CONSULTING ENGINEERS LIMITED
MUMBAI

SCALE: N.T.S.
DATE: TCE.10477A-CV-1007-RC-1037

ISSUE: RO

ELECTRICAL DRAWINGS

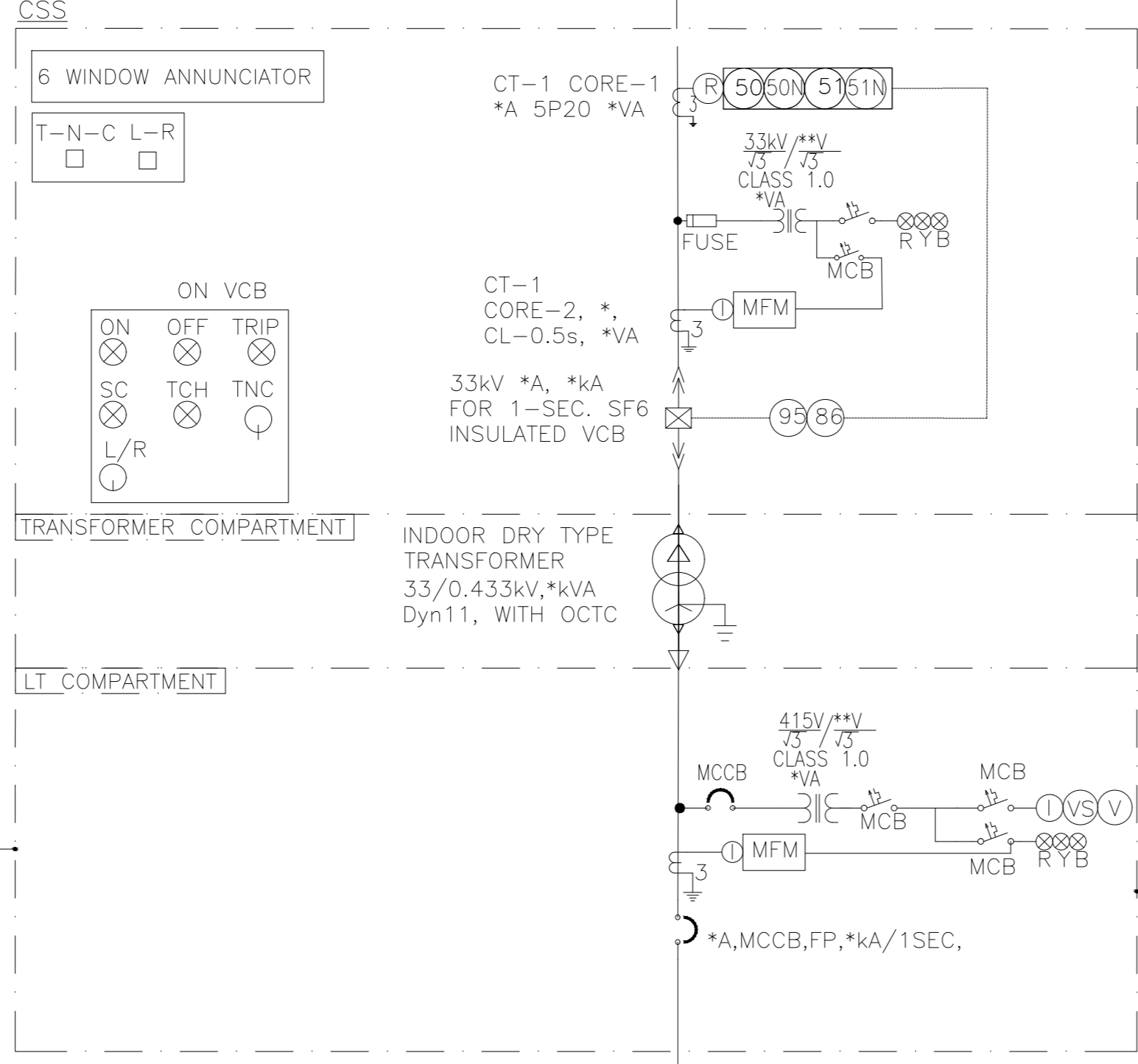
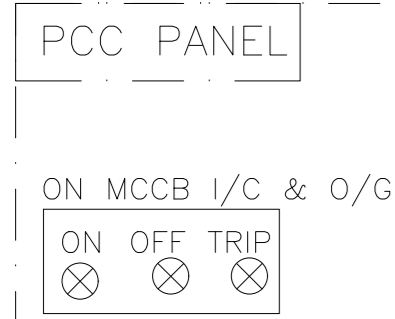
SUPPLY FROM NEREST SOURCE OF 33kV APDCL



- GENERAL NOTES**
- THIS SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER FOR THE ICCB BUILDING.
 - ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT IS/IEC STANDARD
 - ALL PANEL WIRING SHALL BE WITH 1100VOLTS GRADE FRLS,PVC INSULATED,1.5 SQMM STRANDED COPPER WIRE FOR CONTROL WIRING AND 2.5 SQMM FOR CT WIRING.
 - CONTACTOR SHALL BE OF AC3 DUTY.
 - THE ON, OFF AND TRIP POSITION OF MCCB SHALL BE CLEARLY INDICATED,OPERATING HANDLE FOR OPERATING MCCBs WITH DOOR CLOSE INTERLOCK SHALL BE PROVIDED.MCCB FEEDER PANEL SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
 - MCCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.
 - ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
 - ALL CONTACTORS/TIMERS SHALL BE DIN RAIL MOUNTED.

LEGEND:

	VACUUM CIRCUIT BREAKER (SF6 ENCLOSED)
	MCB(MINIATURE CIRCUIT BREAKER)
	MCCB(MOULDED CASE CIRCUIT BREAKER)
	INDICATING LAMP
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)
	POTENTIAL TRANSFORMER(P.T)
	AMMETER SELECTOR SWITCH
	ANALOG AMMETER
	MULTIFUNCTION METER
	DIESEL GENERATOR
27	U/V RELAY
59	O/V RELAY
95	MASTER TRIP RELAY
I	INSTRUMENTATION
	LOAD BREAK SWITCH
(50)	INST. O/C PROTECTION
(50N)	INST. E/F PROTECTION
(51)	IDMT. O/C PROTECTION
(VS)	VOLTMETER SELECTOR SWITCH
(V)	ANALOG VOLTMETER
51	OVER CURRENT RELAY
86	LOOK OUT RELAY
(E/M)	ELECTRO-MECHANICAL INTERLOCK



LOAD DESCRIPTION	SERVER UPS	W/S UPS	MLDB	MPDB	EMERGENCY LDB	SERVER UPS	W/S UPS	MLDB	MPDB	FIRE INHIBITANT	WATER PUMP PANEL	LIFT PANEL	EV CHARGER	SPARE	SPARE	SPARE	APFC PANEL	HVAC/OB	HVAC/OB	
	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP	MCCB FP

DO NOT SCALE

GUWAHATI SMART CITY LIMITED

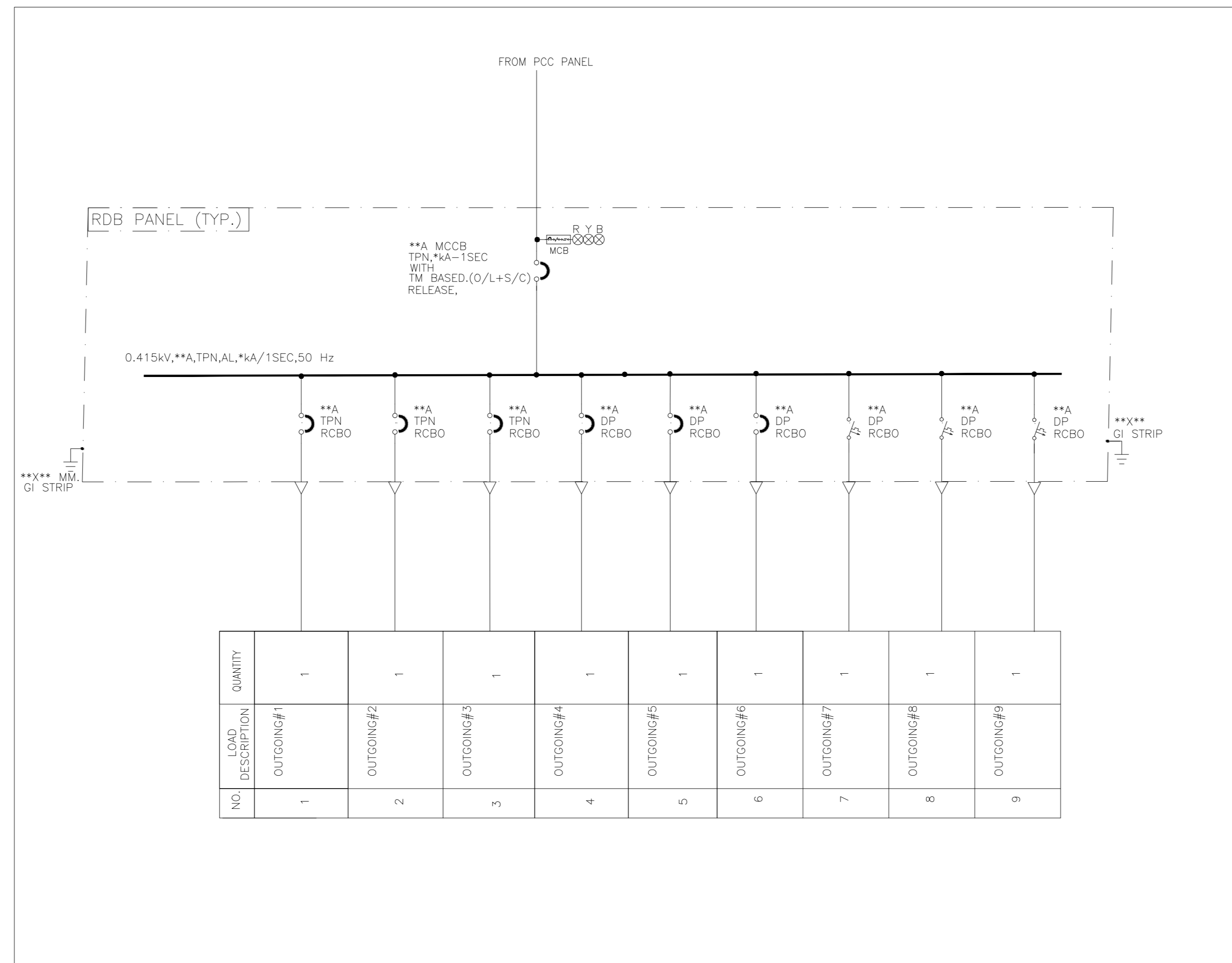
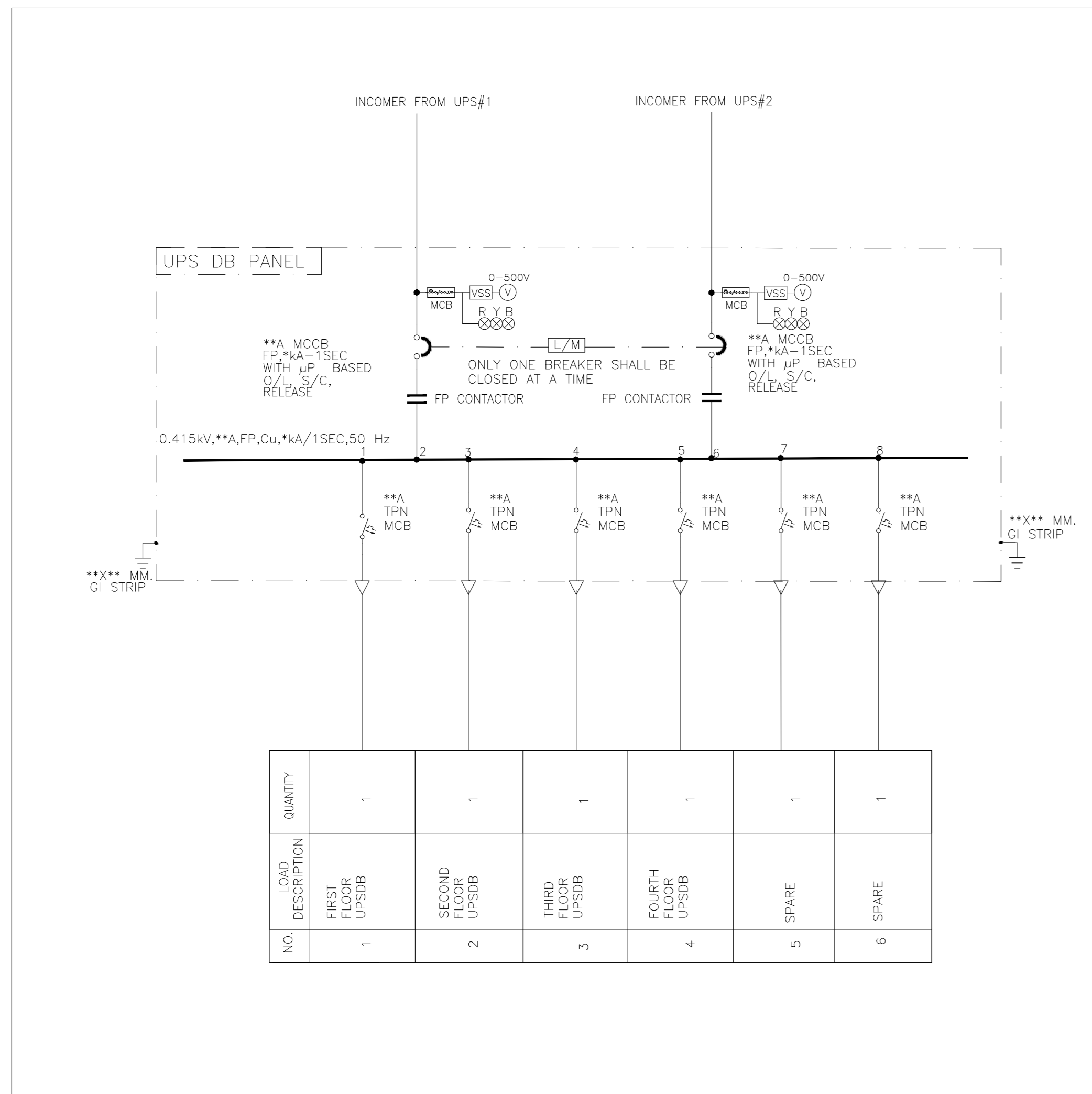
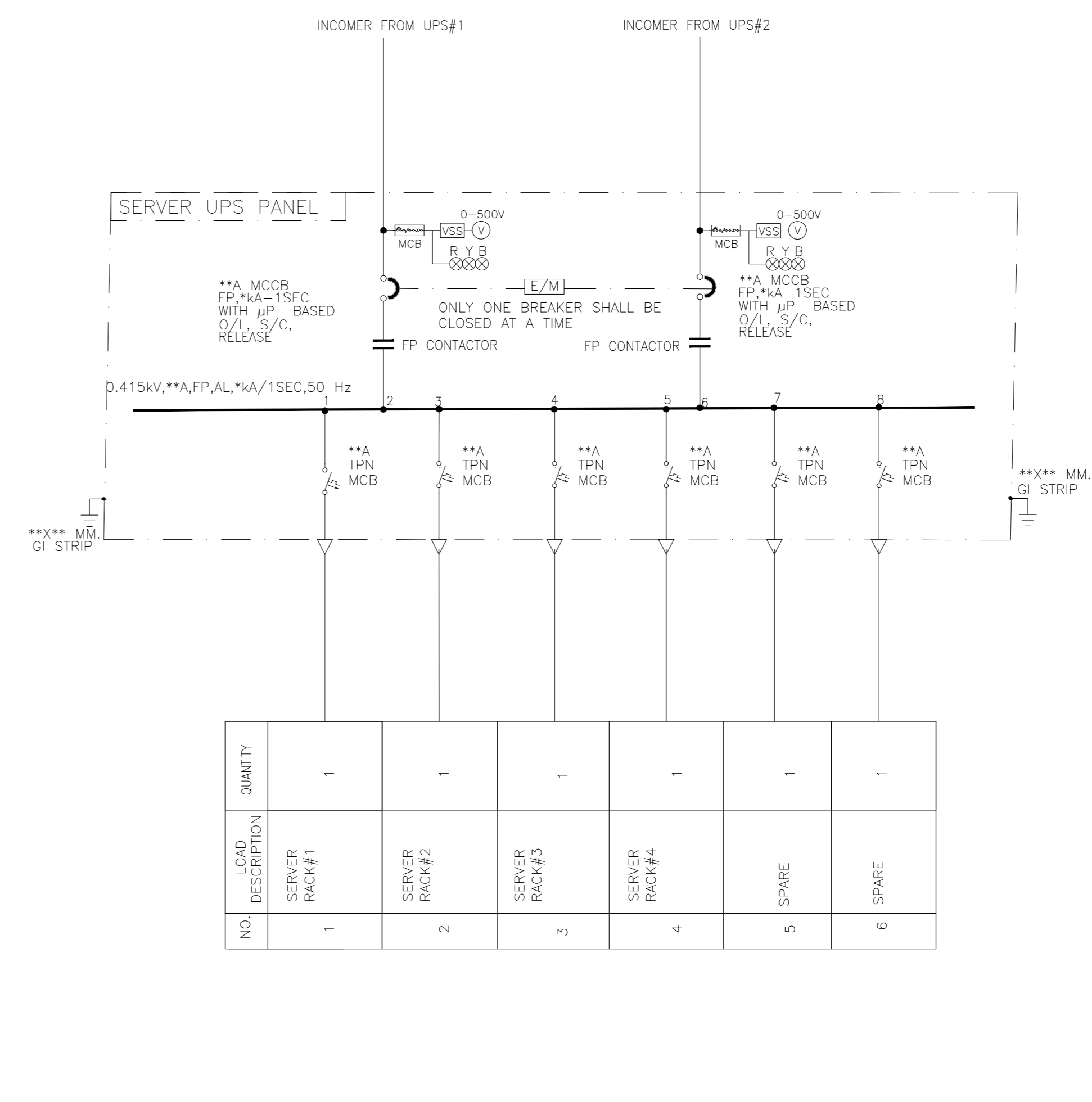
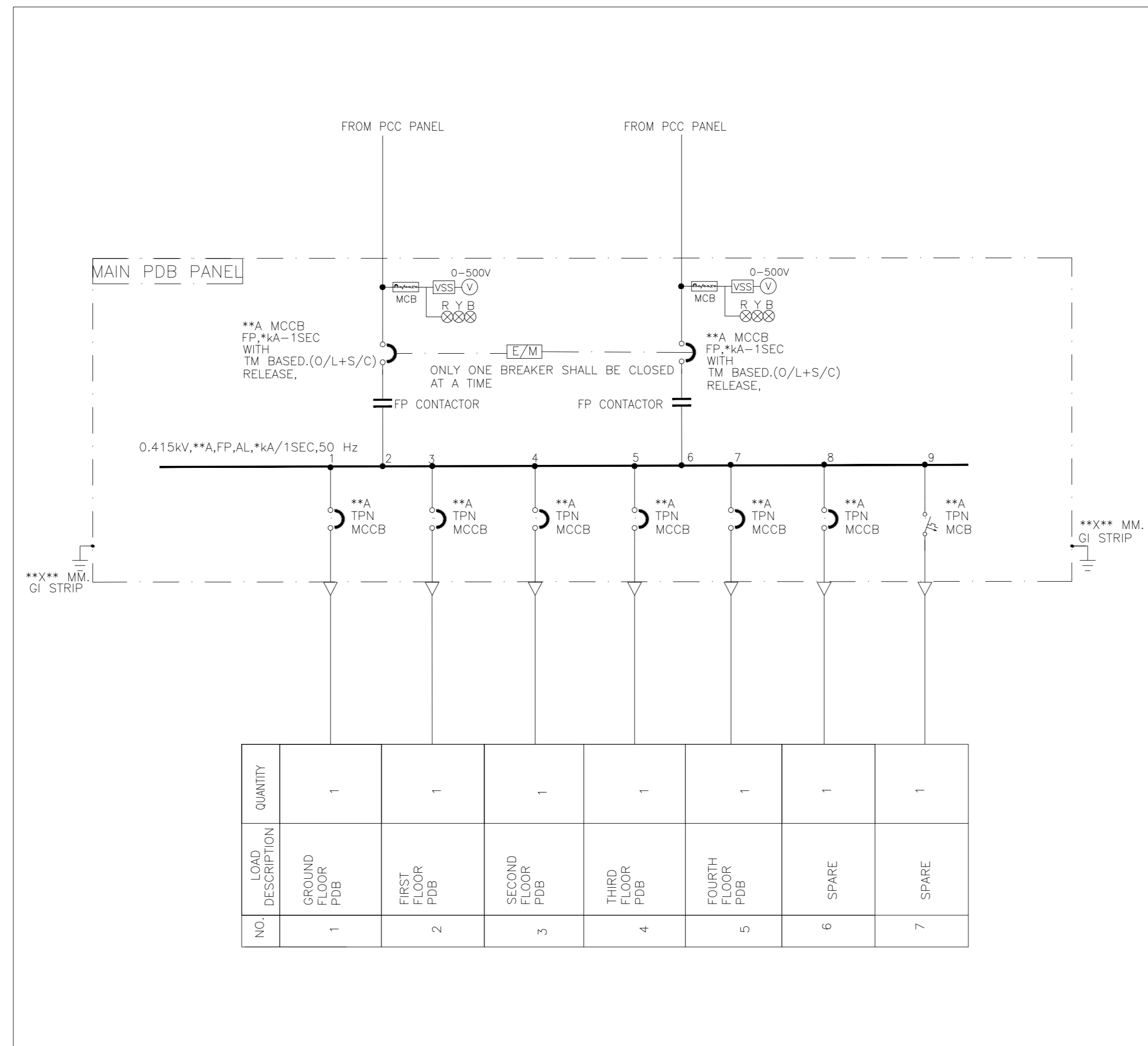
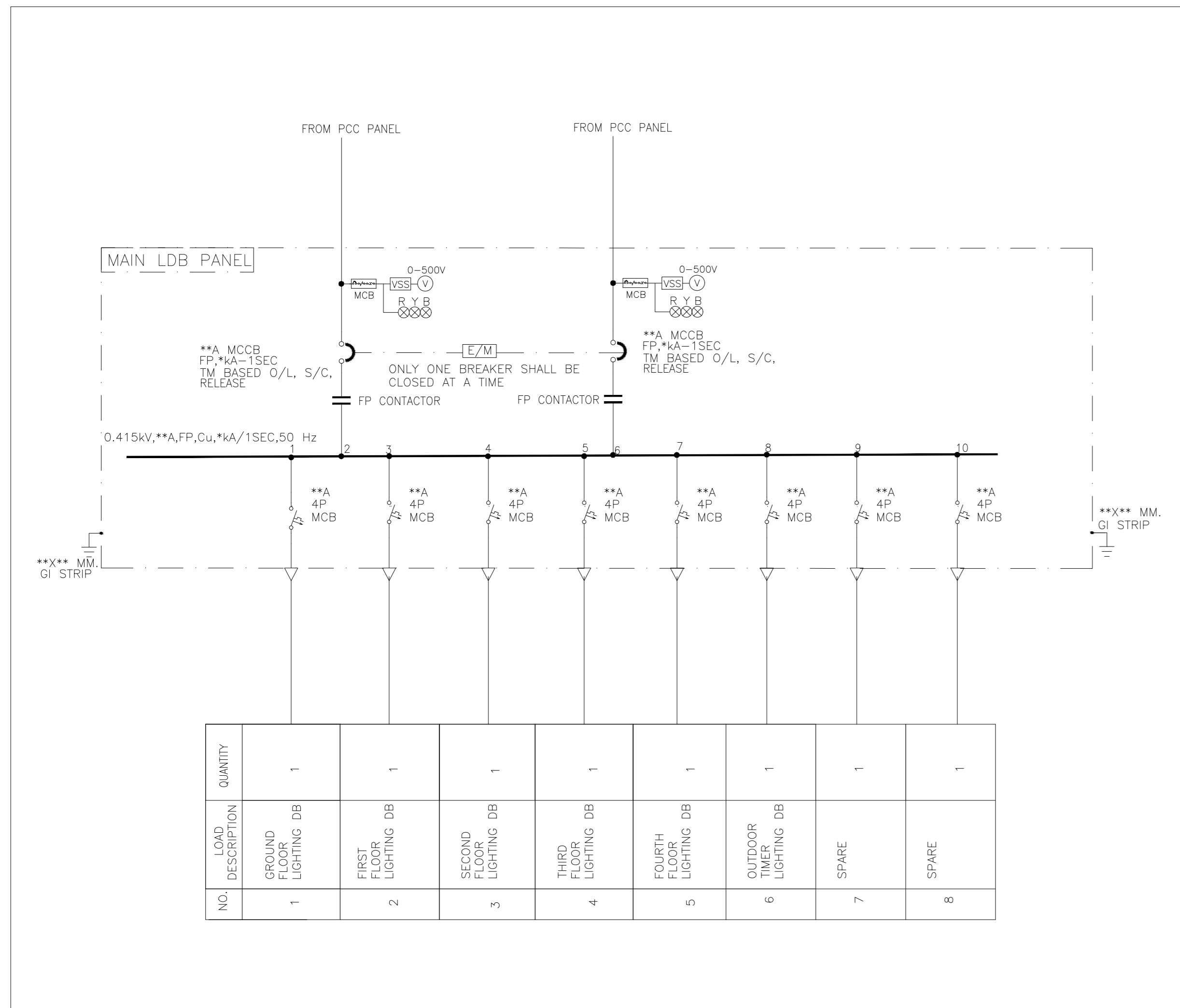
SINGLE LINE DIAGRAM FOR ICCB BUILDING (SHEET 1 OF 3)

TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:500
 DC & DISC: DC-KOL

FILE NAME : 10477A-EL-40002-REV-P0

ISSUE : 20-03-2020
 ISSUE : 16-03-2020



GENERAL NOTES

- THIS SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER FOR THE ICCB BUILDING.
- ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT IS/IEC STANDARD.
- ALL PANEL WIRING SHALL BE WITH 1100VOLTS GRADE FRLS,PVC INSULATED,1.5 SQMM STRANDED COPPER WIRE FOR CONTROL WIRING AND 2.5 SQMM FOR CT WIRING.
- CONTACTOR SHALL BE OF AC3 DUTY. THE ON, OFF AND TRIP POSITION OF MCCB SHALL BE CLEARLY INDICATED.OPERATING HANDLE FOR OPERATING MCCBs WITH DOOR CLOSE INTERLOCK SHALL BE PROVIDED.MCCB FEEDER PANEL SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
- MCCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.
- ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
- ALL CONTACTORS/TIMERS SHALL BE DIN RAIL MOUNTED.

LEGEND:

	VACCUUM CIRCUIT BREAKER (SF6 ENCLOSED)
	MCB(MINIATURE CIRCUIT BREAKER)
	MCCB(MOULDED CASE CIRCUIT BREAKER)
	INDICATING LAMP
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)
	POTENTIAL TRANSFORMER(PT)
	AMMETER SELECTOR SWITCH
	ANALOG AMMETER
	MULTIFUNCTION METER
	DIESEL GENERATOR
27	U/V RELAY
59	O/V RELAY
95	MASTER TRIP RELAY
I	INSTRUMENTATION
	LOAD BREAK SWITCH
	INST. O/C PROTECTION
	INST. E/F PROTECTION
	IDMT. O/C PROTECTION
	VOLTMETER SELECTOR SWITCH
	ANALOG VOLTMETER
51	OVER CURRENT RELAY
86	LOOK OUT RELAY
	ELECTRO-MECHANICAL INTERLOCK

NO.	INITIALS	REVISIONS
1		
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DO NOT SCALE

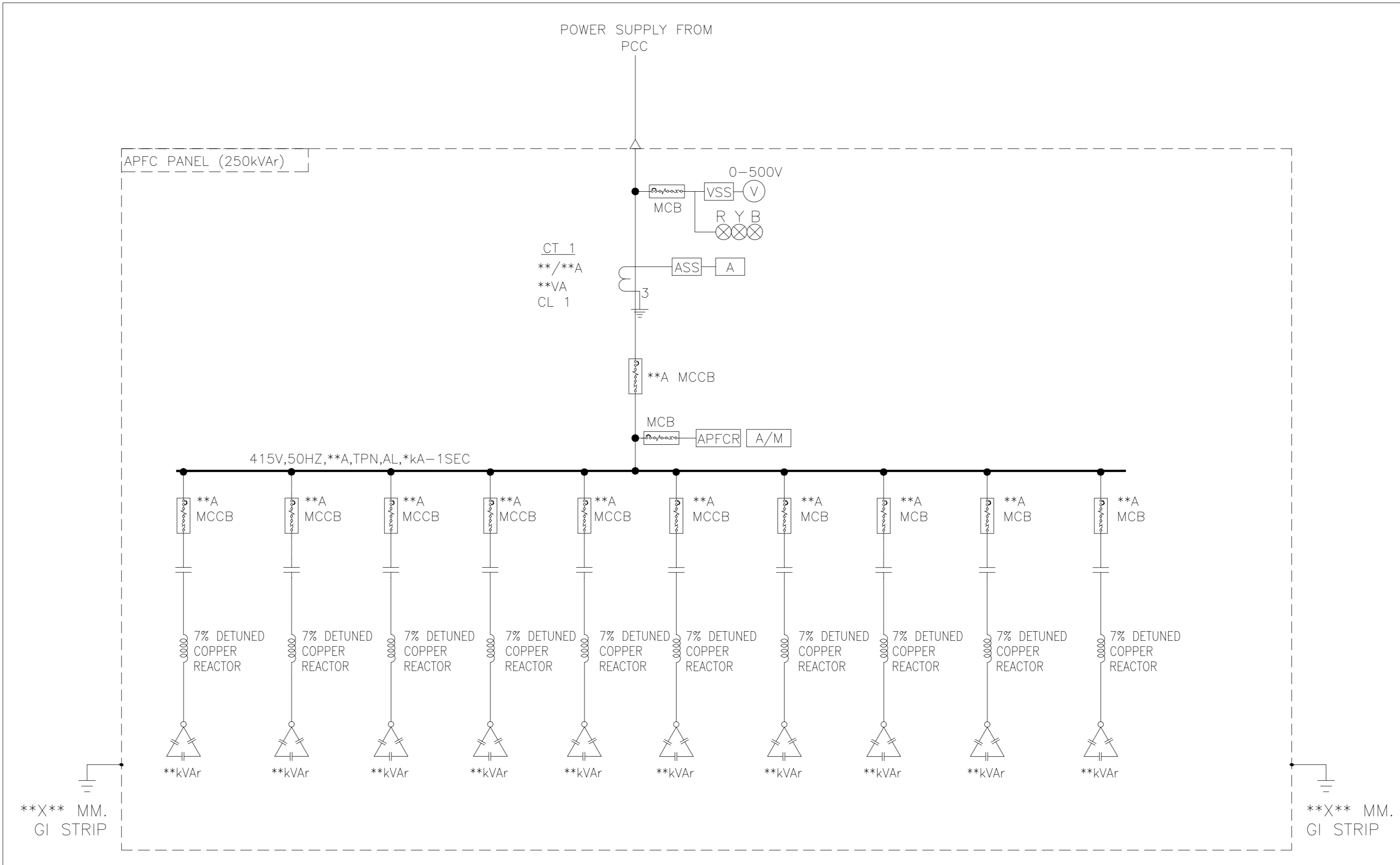
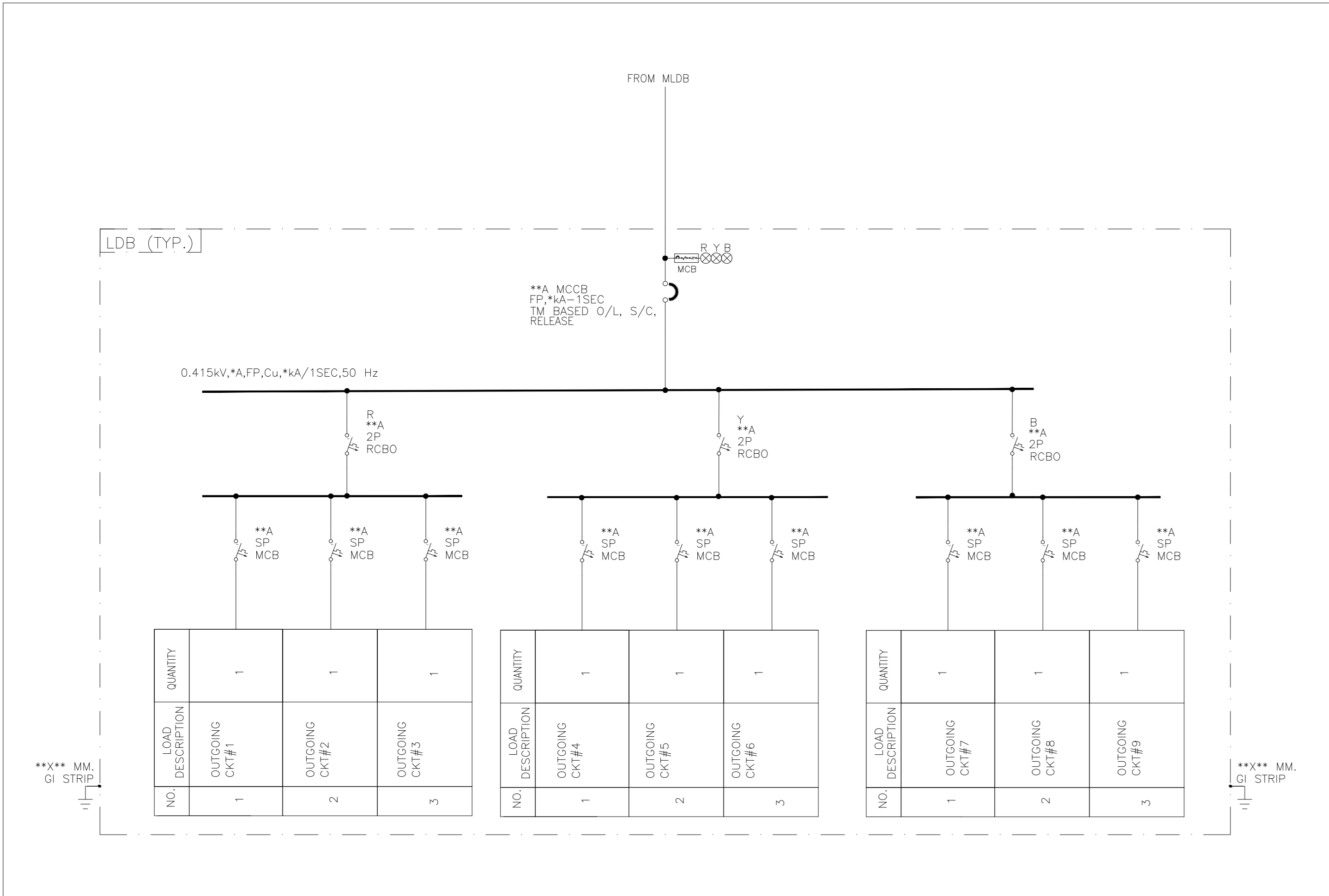
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GUWAHATI SMART CITY LIMITED

SINGLE LINE DIAGRAM FOR ICCB BUILDING (SHEET 2 OF 3)

TATA CONSULTING ENGINEERS LIMITED

SCALE : 1:500
 FILE NAME : TCE.10477A-EL-4001-AU-40002-REV-PO
 ISSUE : DRN DSN CHD
 CLEARED : PE/PM APPD 16-03-2020



- GENERAL NOTES
- THIS SLD SHOWS THE SCHEME FOR THE DISTRIBUTION OF THE POWER FOR THE ICPC BUILDING.
 - ALL THE EQUIPMENTS SHOULD BE AS PER RELEVANT IS/IEC STANDARD.
 - ALL PANEL WIRING SHALL BE WITH 1100VOLTS GRADE FRLS,PVC INSULATED,1.5 SQMM STRANDED COPPER WIRE FOR CONTROL WIRING AND 2.5 SQMM FOR CT WIRING.
 - CONTACTOR SHALL BE OF AC3 DUTY.
 - THE ON, OFF AND TRIP POSITION OF MCCB SHALL BE CLEARLY INDICATED.OPERATING HANDLE FOR OPERATING MCCBS WITH DOOR CLOSE INTERLOCK SHALL BE PROVIDED.MCCB FEEDER PANEL SHALL BE PROVIDED WITH ON/OFF/TRIP INDICATING LAMPS THROUGH AUXILIARY CONTACTS.
 - MCCB TERMINALS SHALL BE SHROUDED AND SHALL BE DESIGNED TO RECEIVE CABLE LUGS FOR RELEVANT CABLE SIZES.
 - ALL INDICATING LAMPS SHALL BE MULTICHIP LED CLUSTER TYPE.
 - ALL CONTACTORS/TIMERS SHALL BE DIN RAIL MOUNTED.

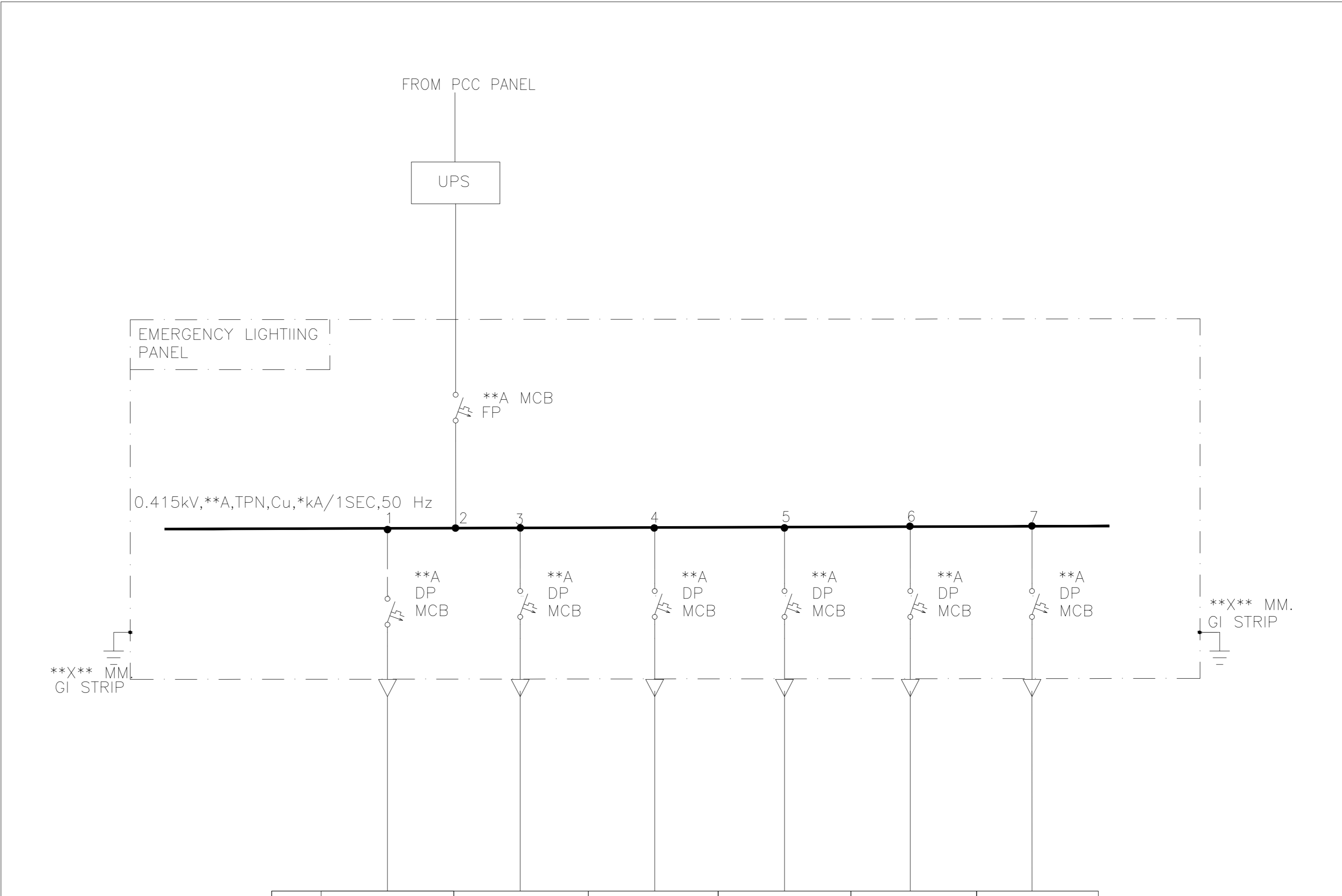
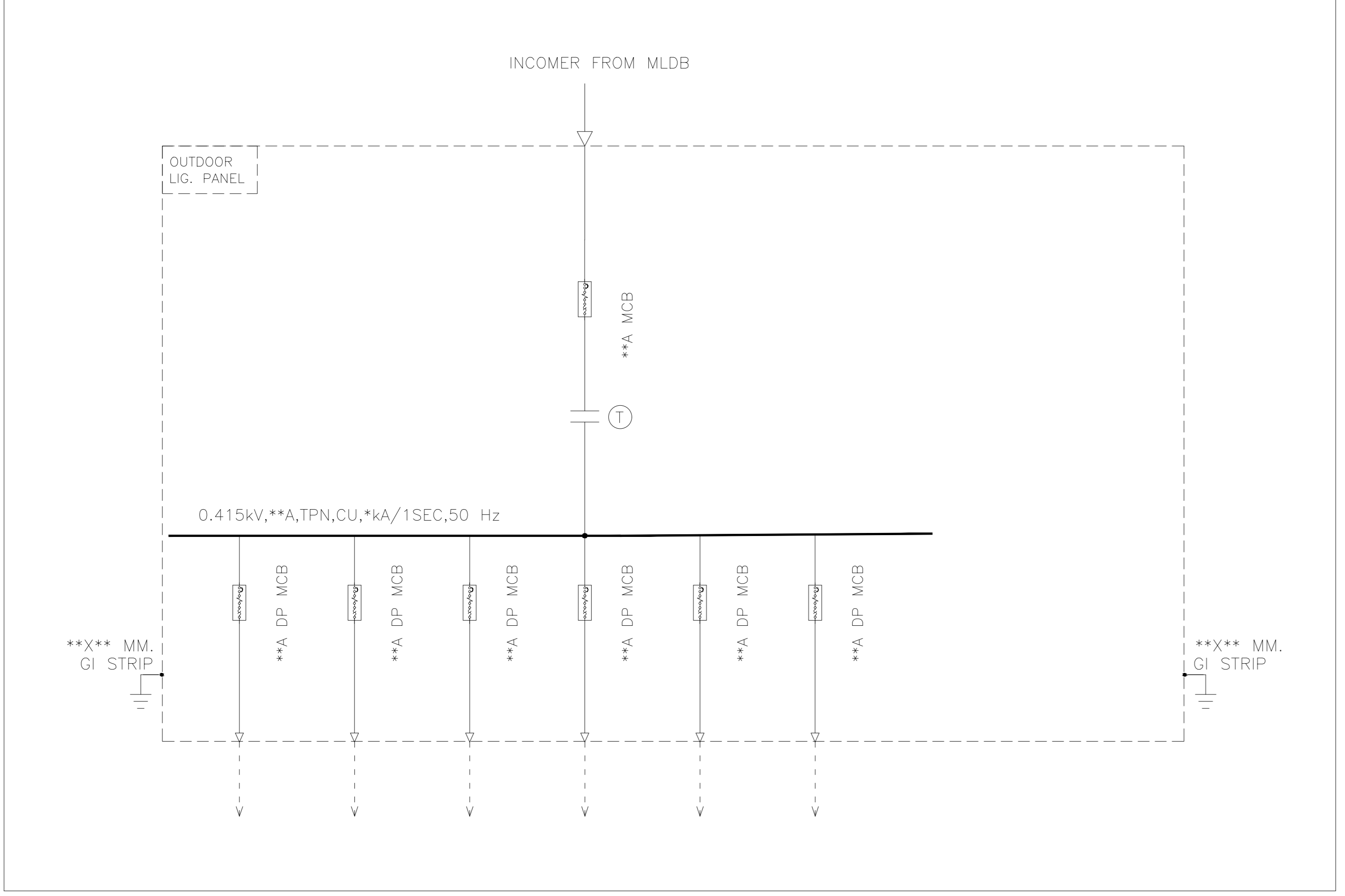
LEGEND:

	VACUUM CIRCUIT BREAKER (SF6 ENCLOSED)
	MCB(MINIATURE CIRCUIT BREAKER)
	MCCB(MOULDED CASE CIRCUIT BREAKER)
	INDICATING LAMP
	CURRENT TRANSFORMER (CT) (FIGURE INDICATES NO. OF CT's)
	POTENTIAL TRANSFORMER(PT)
	AMMETER SELECTOR SWITCH
	ANALOG AMMETER
	MULTIFUNCTION METER
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27	U/V RELAY
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	LOAD BREAK SWITCH
	INST. O/C PROTECTION
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	VOLTMETER SELECTOR SWITCH
	ANALOG VOLTMETER
51	OVER CURRENT RELAY
86	LOOK OUT RELAY
	ELECTRO-MECHANICAL INTERLOCK

NO.	DATE	BY	REVISIONS

PO	INTIALS	TJ	CB	TSG	CHD	CV	EL	IC	ME	APPD	DATE
											20-03-2020

ISSUE: DRN DSN CHD CV EL IC ME PE/PM APPD CLEARED 16-03-2020



NO.	LOAD DESCRIPTION	QUANTITY
1	GROUND FLOOR EMERGENCY LIGHTING DB	1
2	FIRST FLOOR EMERGENCY LIGHTING DB	1
3	SECOND FLOOR EMERGENCY LIGHTING DB	1
4	THIRD FLOOR EMERGENCY LIGHTING DB	1
5	FOURTH FLOOR EMERGENCY LIGHTING DB	1
6	SPARE	1

DO NOT SCALE

9* (PRELIMINARY) ISSUES ARE NOT TO BE USED FOR CONSTRUCTION/FABRICATION BUT ARE ISSUED FOR LIMITED PURPOSES ONLY AS INDICATED IN THE SMALL BLOCK ABOVE THIS BLOCK.

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SCALE: 1:500
DC & DISC: DC-KOL

GUWAHATI SMART CITY LIMITED

SINGLE LINE DIAGRAM FOR ICPC BUILDING (SHEET 3 OF 3)

TATA CONSULTING ENGINEERS LIMITED

FIRE FIGHTING DRAWINGS