

**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.

**RELATED DRAWINGS:**

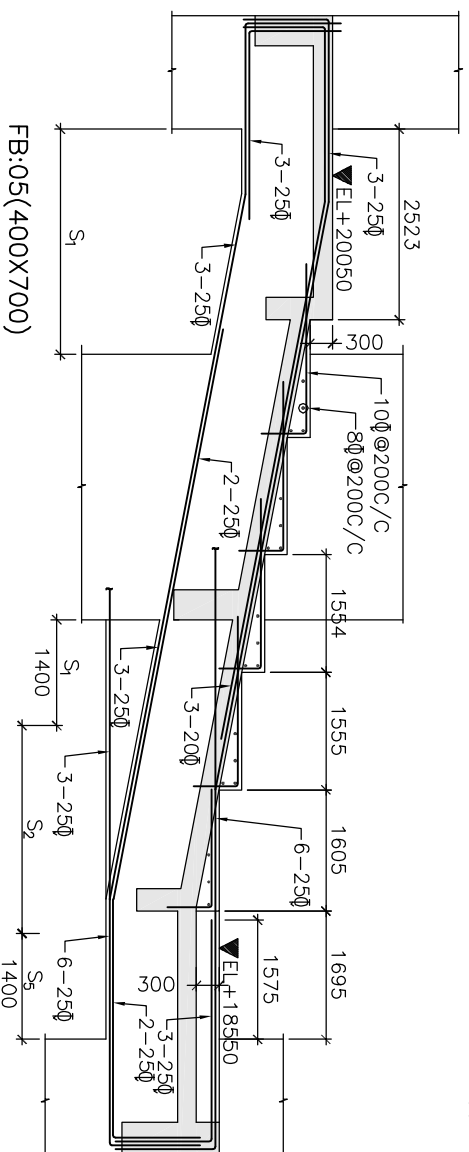
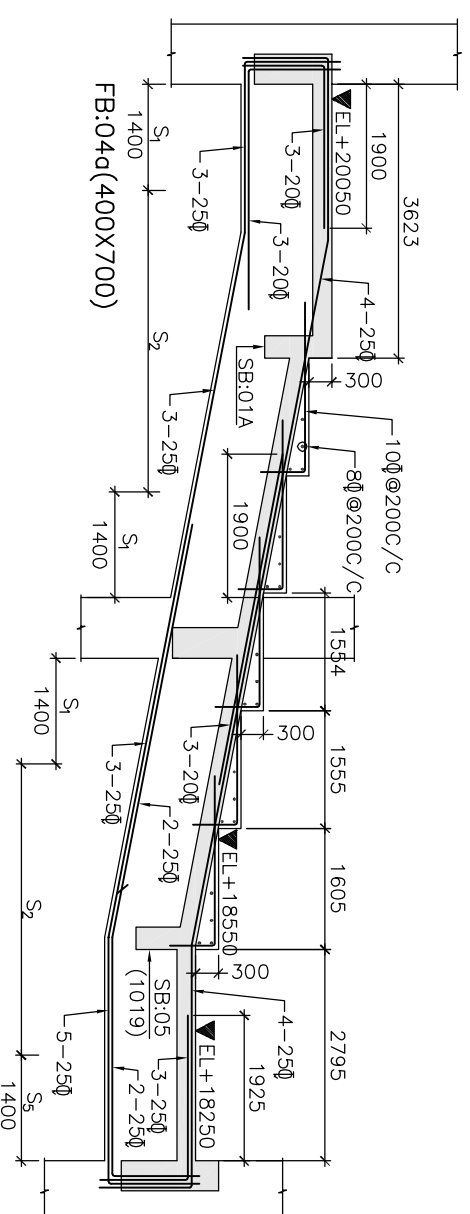
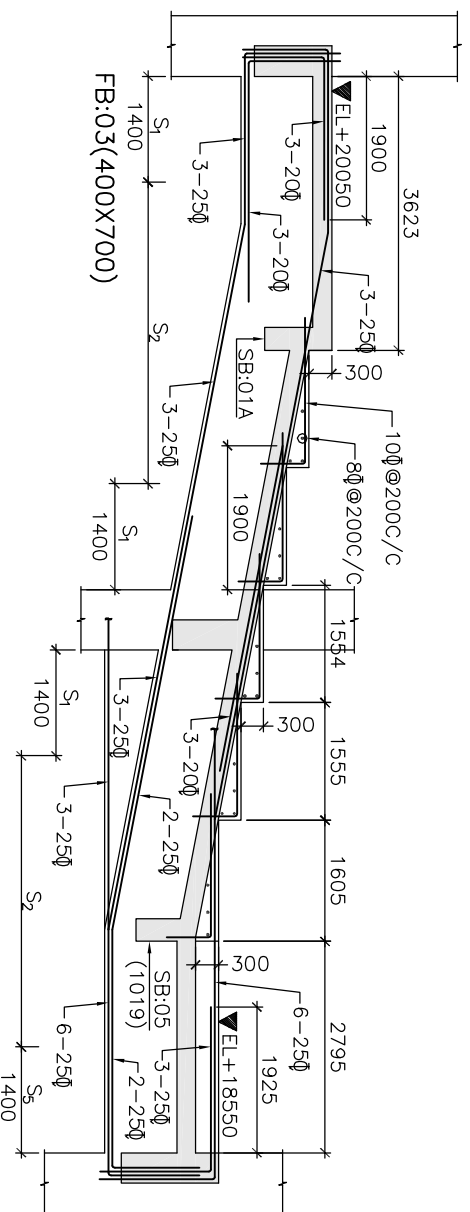
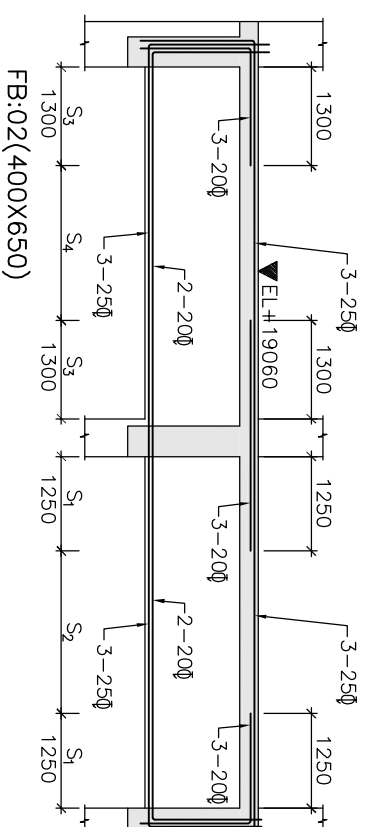
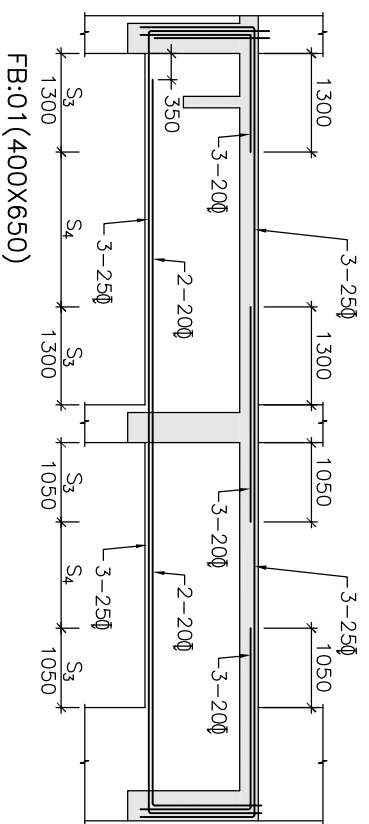
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2. TCE.10477A-CV-1007-RC-1018
3. TCE.10477A-CV-1007-RC-1019
4. TCE.10477A-CV-1007-RC-1021
5. TCE.10477A-CV-1007-RC-1027
6. TCE.10477A-CV-1007-RC-1028

**TENDER PURPOSE ONLY**

SIGNL		REVISIONS		DATE	
NO.	DESCRIPTION	DATE	BY	DATE	BY

**GUWAHATI SMART CITY LIMITED**  
SMART CITY MISSION GUWAHATI

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



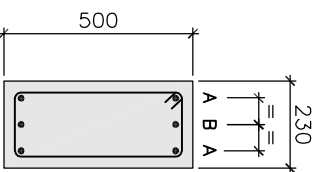
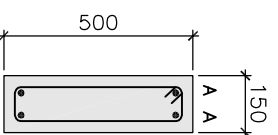
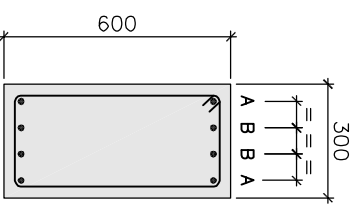
FB:01 (400X650)

FB:02 (400X650)

FB:03 (400X700)

FB:04d (400X700)

FB:05 (400X700)



2L 80@100C/C STP.

2L 80@125C/C STP.

2L 80@100C/C STP.

DETAIL OF SB-01A

DETAIL OF SB-02

DETAIL OF SB-03

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) FOUNDATION : 60mm
  - b) COLUMN UPTO PLINTH : 60mm
  - c) COLUMN ABOVE PLINTH : 40mm
  - d) BEAM : 25mm
  - e) WALL : 30mm
  - f) SLAB : 15-20mm
7. VERTICAL FACES OF COLUMN, BEAM & WALL : 24 HOURS
8. SPANNING OVER 4.5m : 7 DAYS
9. SPANNING OVER 6.0m : 14 DAYS
10. SPANNING OVER 6.0m : 21 DAYS

RELATED DRAWINGS:

1. TCE.10477A-CV-1007-RC-1001
2. TCE.10477A-CV-1007-RC-1018
3. TCE.10477A-CV-1007-RC-1019
4. TCE.10477A-CV-1007-RC-1020
5. TCE.10477A-CV-1007-RC-1027
6. TCE.10477A-CV-1007-RC-1028

LEGEND:

- S<sub>1</sub>=2L 100@100C/C STP.  
 S<sub>2</sub>=2L 100@150C/C STP.  
 S<sub>3</sub>=2L 80@100C/C STP.  
 S<sub>4</sub>=2L 80@150C/C STP.  
 S<sub>5</sub>=4L 100@100C/C STP.  
 S<sub>6</sub>=4L 100@150C/C STP.

TENDER PURPOSE ONLY

SIGN.	INITIALS	REVISIONS	DATE

GUWAHATI SMART CITY LIMITED  
 SMART CITY MISSION GUWAHATI

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

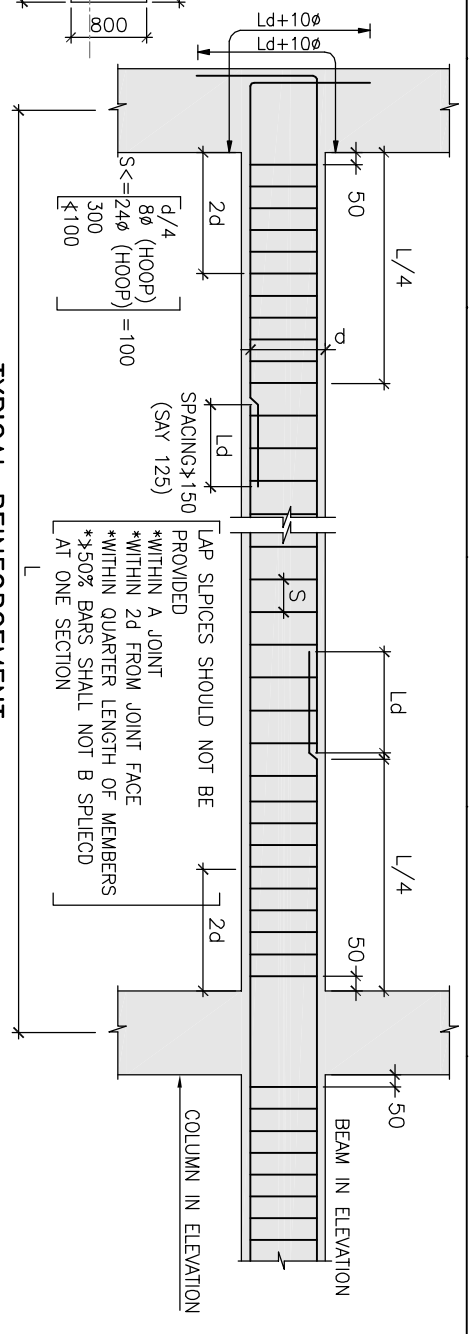
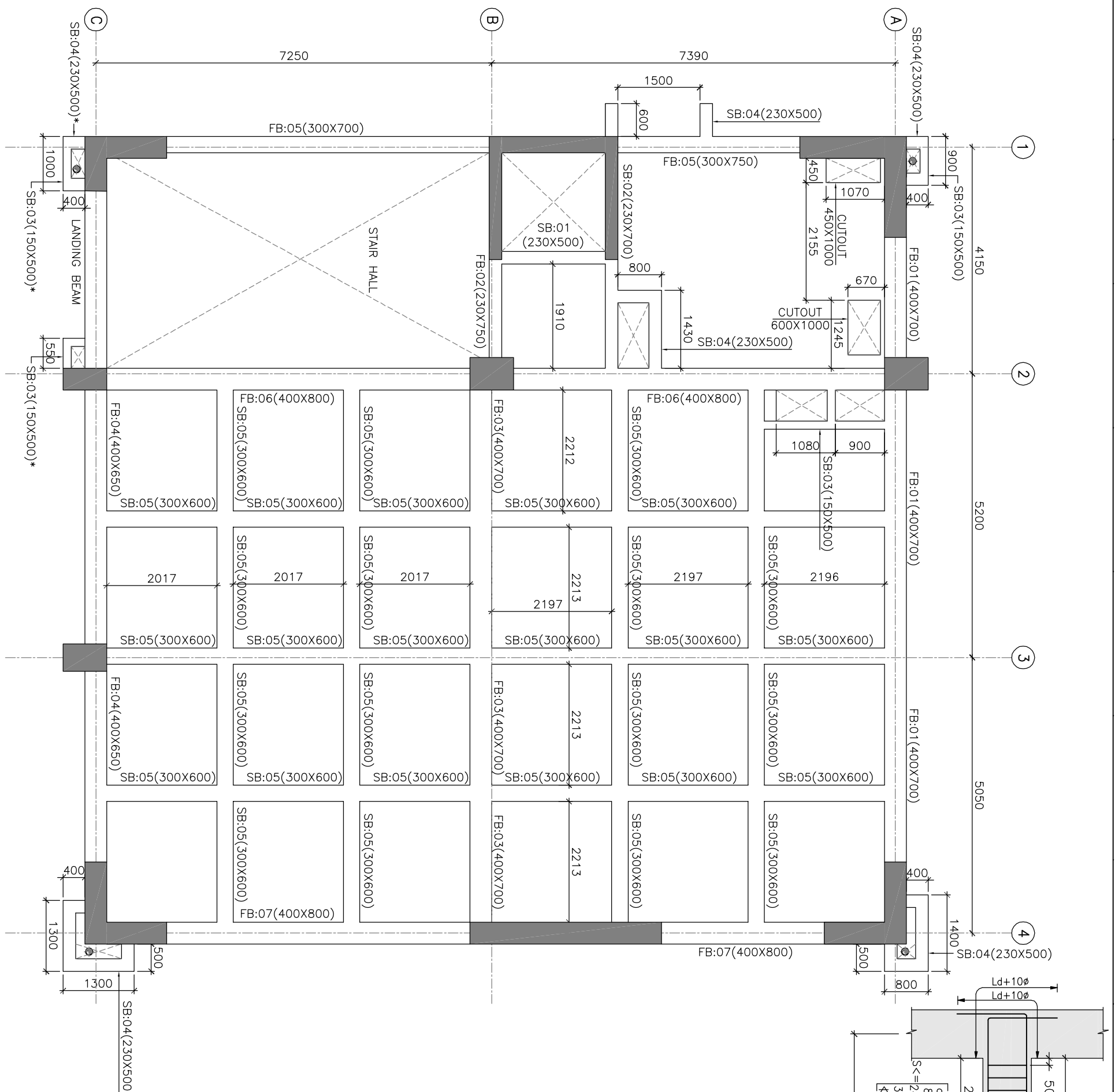
L SECTION (SHEET 2 / 2)

TATA CONSULTING ENGINEERS LIMITED  
 MUMBAI

SCALE : AS NOTED DWG NO: TCE.10477A-CV-1007-RC-1021

DATE : 17.04.2020

ISSUE RO



**TYPICAL REINFORCEMENT  
DETAIL OF BEAM**

- NOTES:
1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
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  4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500

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  - 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:
1. TCE:10477A-CV-1007-RC-1001
  2. TCE:10477A-CV-1007-RC-1023
  3. TCE:10477A-CV-1007-RC-1029

**TENDER PURPOSE ONLY**

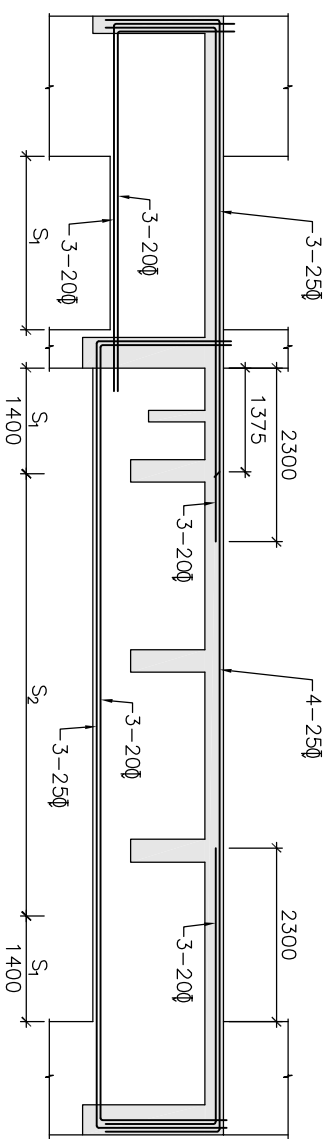
**GUWAHATI SMART CITY LIMITED**  
SMART CITY MISSION GUWAHATI

SIGN.	INITIALS	REVISIONS	DATE
			17.04.2020

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

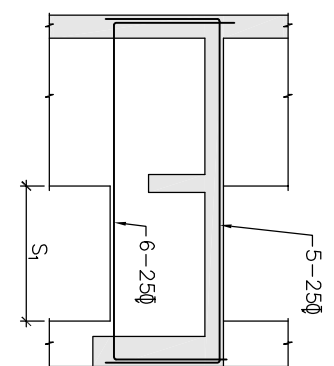
DETAILS OF ROOF BEAM  
BEAM LAYOUT (SHEET 1 / 2)

**TATA CONSULTING ENGINEERS LIMITED**  
MUMBAI

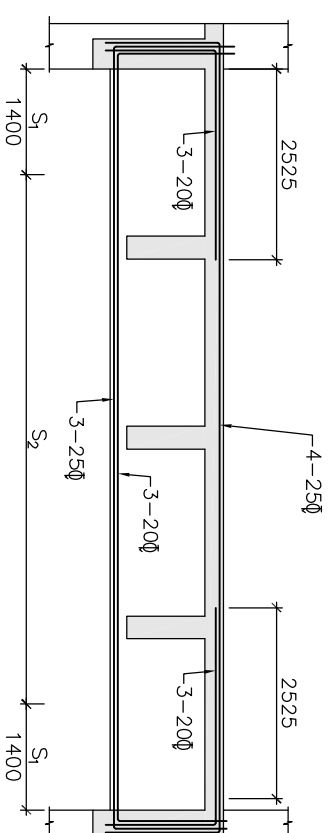


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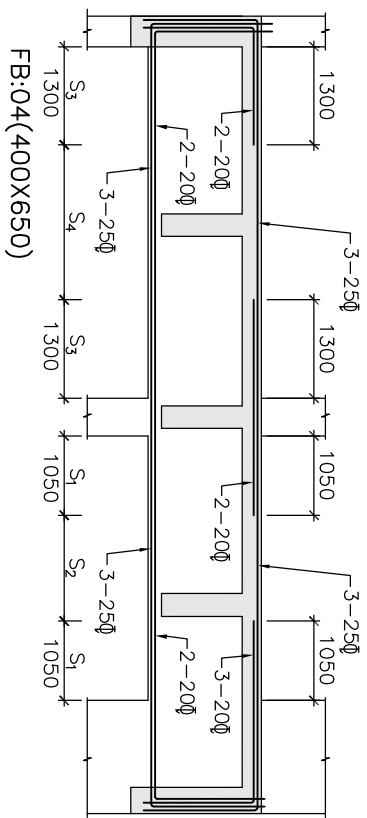
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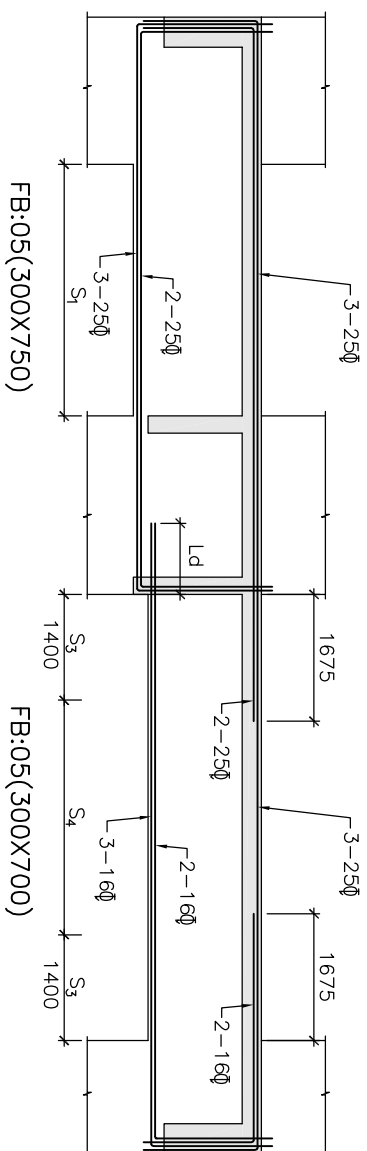
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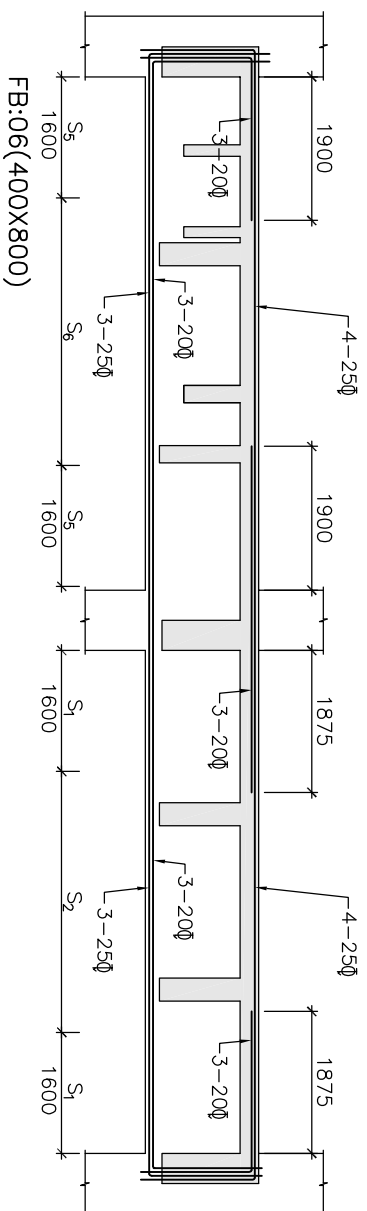


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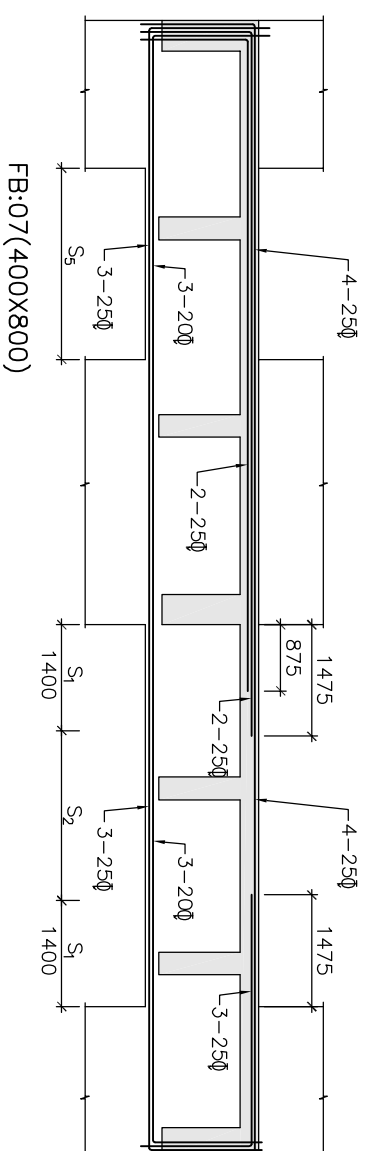


FB:05 (300X750)

FB:05 (300X700)



FB:06 (400X800)



FB:07 (400X800)

NOTES:

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

d) 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
- CLEAR COVER TO THE MAIN REINFORCEMENT
 

d) 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 SPLICED AT ONE SECTION
- USE SPACE BAR TO AVOID CONGESTION, WHEREVER NECESSARY.
- 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

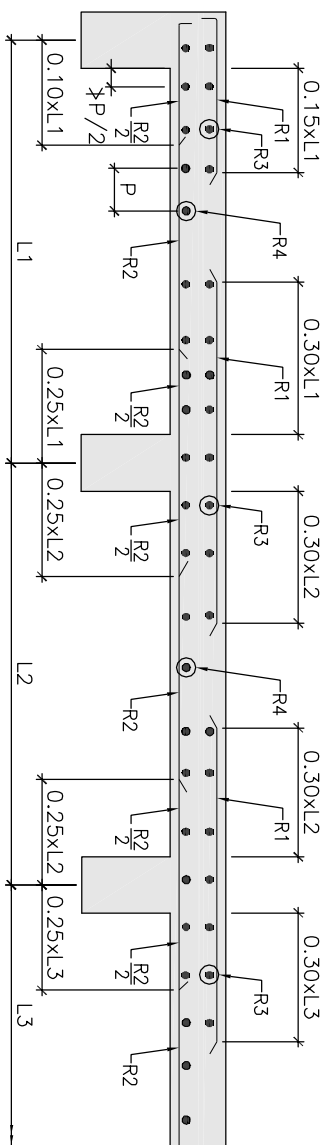
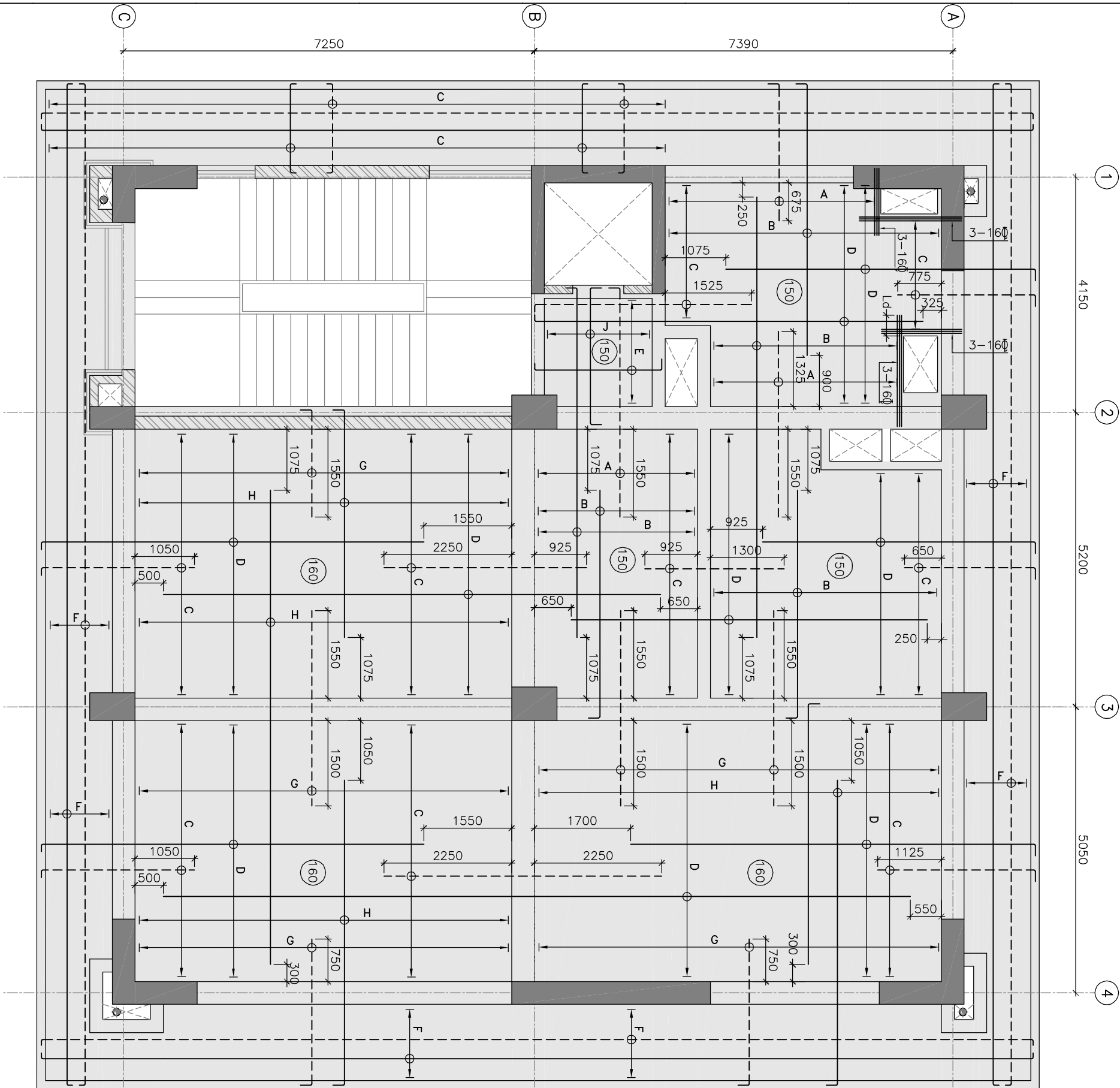
GUWAHATI SMART CITY LIMITED  
SMART CITY MISSION GUWAHATI

NO.	REVISIONS	DATE
1	ISSUE FOR TENDER	17.04.2020

DETAILS OF ROOF BEAM  
L SECTION (SHEET 2 / 2)

TATA CONSULTING ENGINEERS LIMITED  
MUMBAI

SCALE : AS NOTED	DATE : 17.04.2020	ISSUE : RO
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### 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

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

o) VERTICAL FACES OF COLUMN, BEAM & WALL : 24 HOURS

#### 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
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.

#### RELATED DRAWINGS:

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

**TENDER PURPOSE ONLY**

SIGNL	INITIALS	REVISIONS	DATE

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

**GUWAHATI SMART CITY LIMITED**  
SMART CITY MISSION GUWAHATI

DETAILS OF FIRST FLOOR SLAB

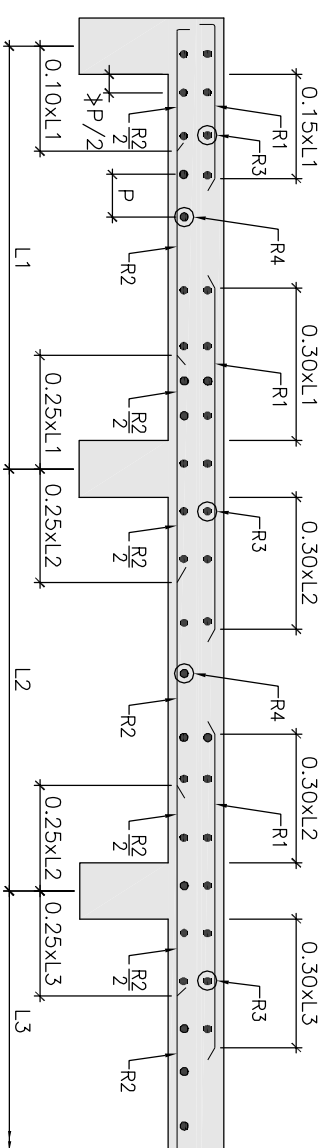
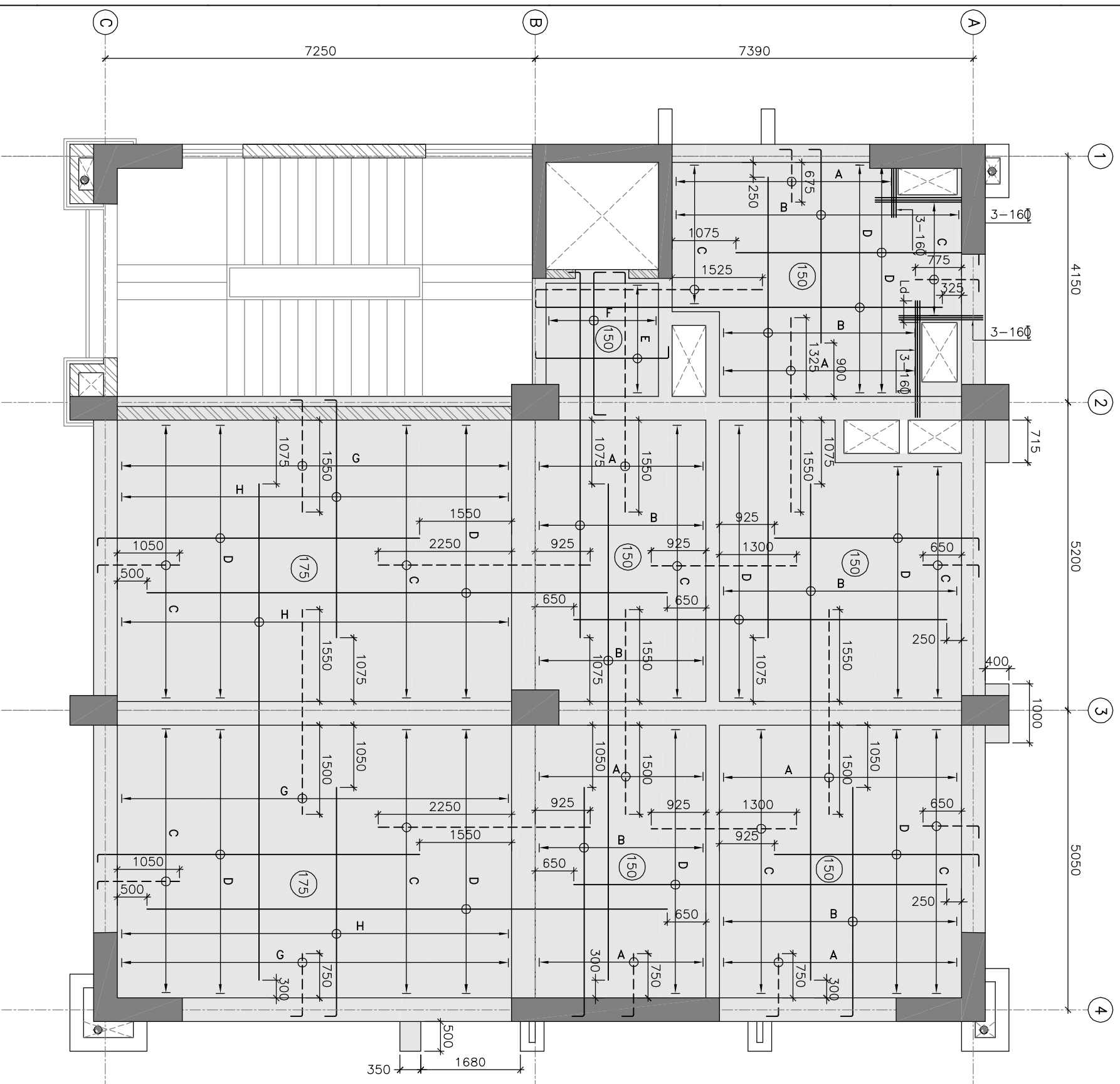
**TATA CONSULTING ENGINEERS LIMITED**  
MUMBAI

SCALE : AS NOTED

DATE OF ISSUE: TCE.10477A-CV-1007-RC-1024

ISSUE NO: 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.

- LEGEND:**
- A=10Ø@125C/C
  - B=10Ø@250C/C
  - C=10Ø@150C/C
  - D=10Ø@300C/C
  - E=Ø@300C/C
  - F=Ø@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@150C/C
  2. ALL DISTRIBUTION REINFORCEMENT SHALL BE OF 8Ø@50C/C WHEREVER REQUIRED (NOT SHOWN IN THE PLAN)
  3. Ld = DEVELOPMENT LENGTH = 50Ø
  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
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12. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
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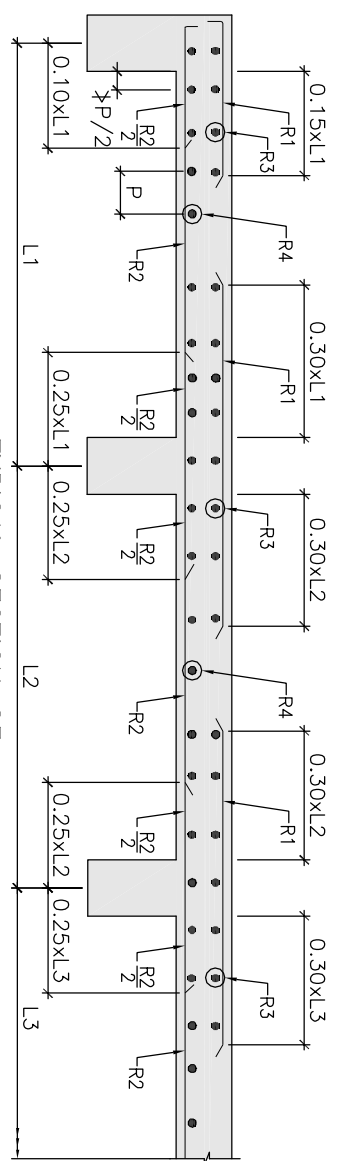
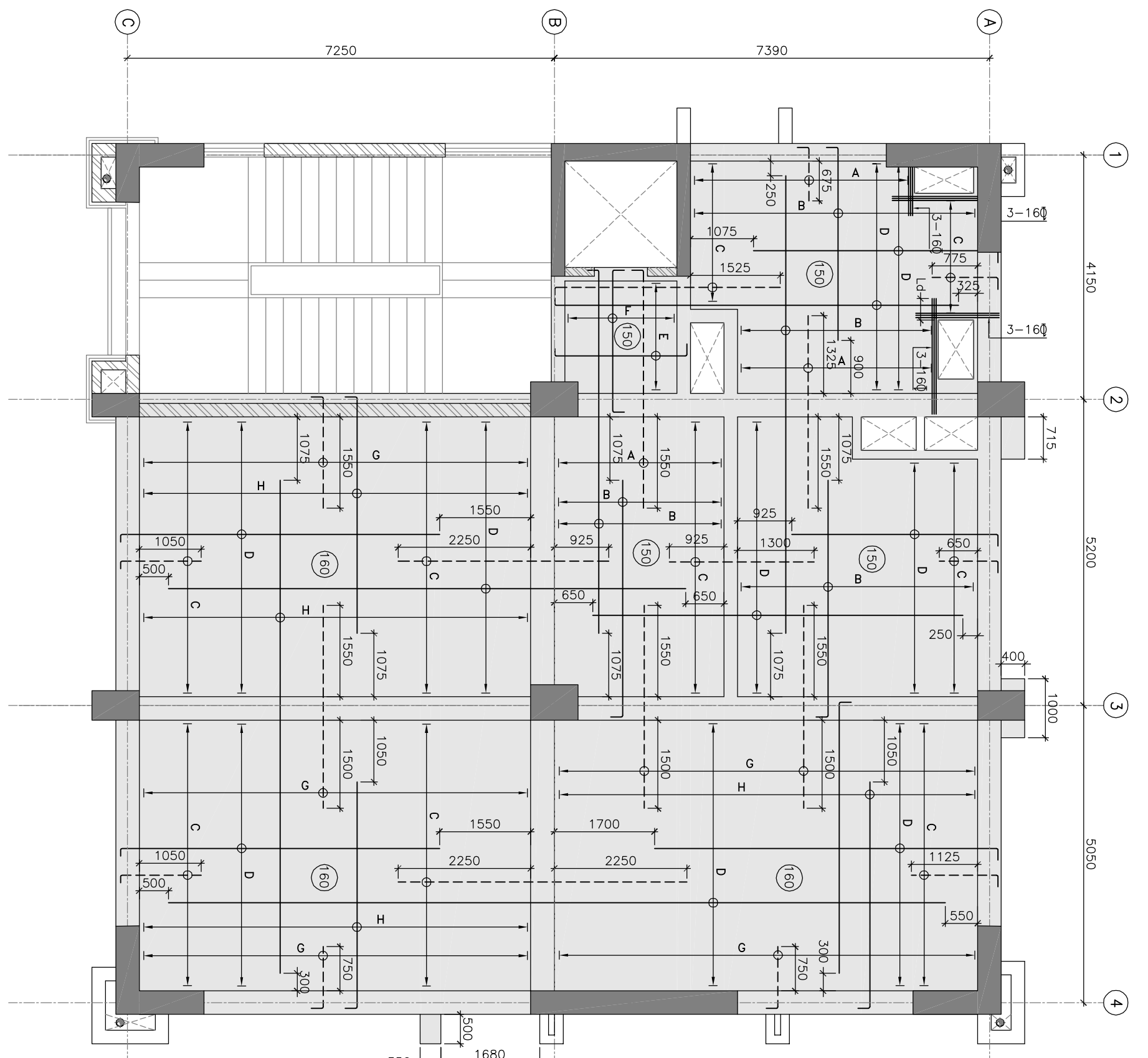
**TENDER PURPOSE ONLY**

SIGNL	INITIALS	REVISIONS	SIGNL	INITIALS	DATE

GUWAHATI SMART CITY LIMITED  
 SMART CITY MISSION GUWAHATI

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

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=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
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"
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	(ii) SPANNING OVER 4.5m : 14 DAYS
c) BEAM	(i) SPANNING UP TO 6.0m : 14 DAYS
	(ii) SPANNING OVER 6.0m : 21 DAYS

- IMPOTANT NOTES:
1. SLAB REINFORCEMENT, WHEREVER NOT SHOWN SHALL BE OF 8@150C/C
  2. ALL DISTRIBUTION REINFORCEMENT SHALL BE OF 8@150C/C WHEREVER REQUIRED (NOT SHOWN IN THE PLAN)
  3. Ld = DEVELOPMENT LENGTH = 50φ 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
7. CLEAR COVER TO THE MAIN REINFORCEMENT
 

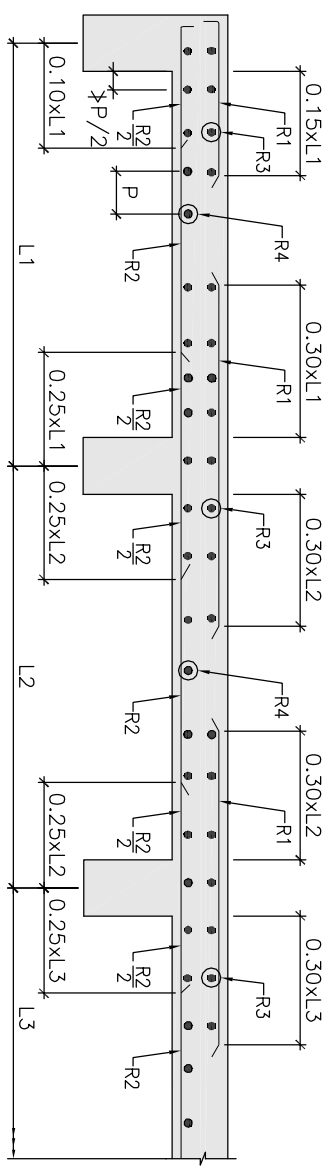
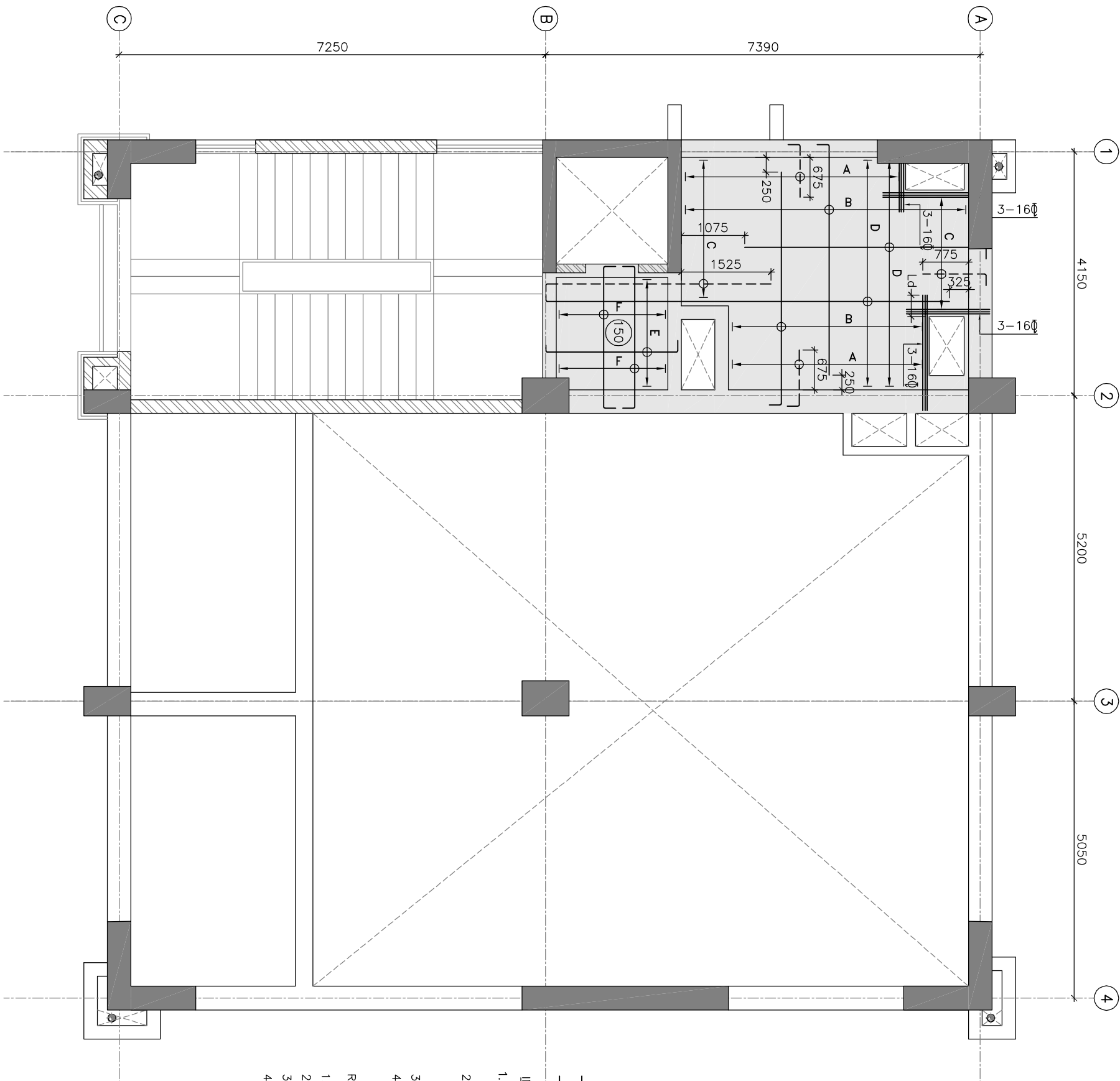
a) FOUNDATION	: 60mm
b) COLUMN UP TO PLINTH	: 60mm
c) COLUMN ABOVE PLINTH	: 40mm
d) BEAM	: 25mm
e) WALL	: 30mm
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  8. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
  9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
  10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
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  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		DATE
	DRN	CHKD	

**GUWAHATI SMART CITY LIMITED**  
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

**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.  $L_d$  = DEVELOPMENT LENGTH =  $50\phi$
4. ALL SLAB THICKNESS SHALL BE OF 150mm U.N.O.

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

**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

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**

SN	NO.	REVISIONS	DATE

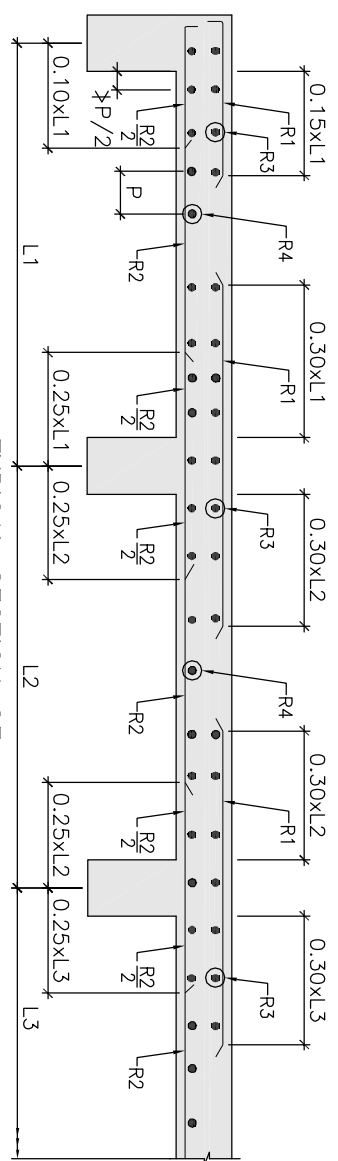
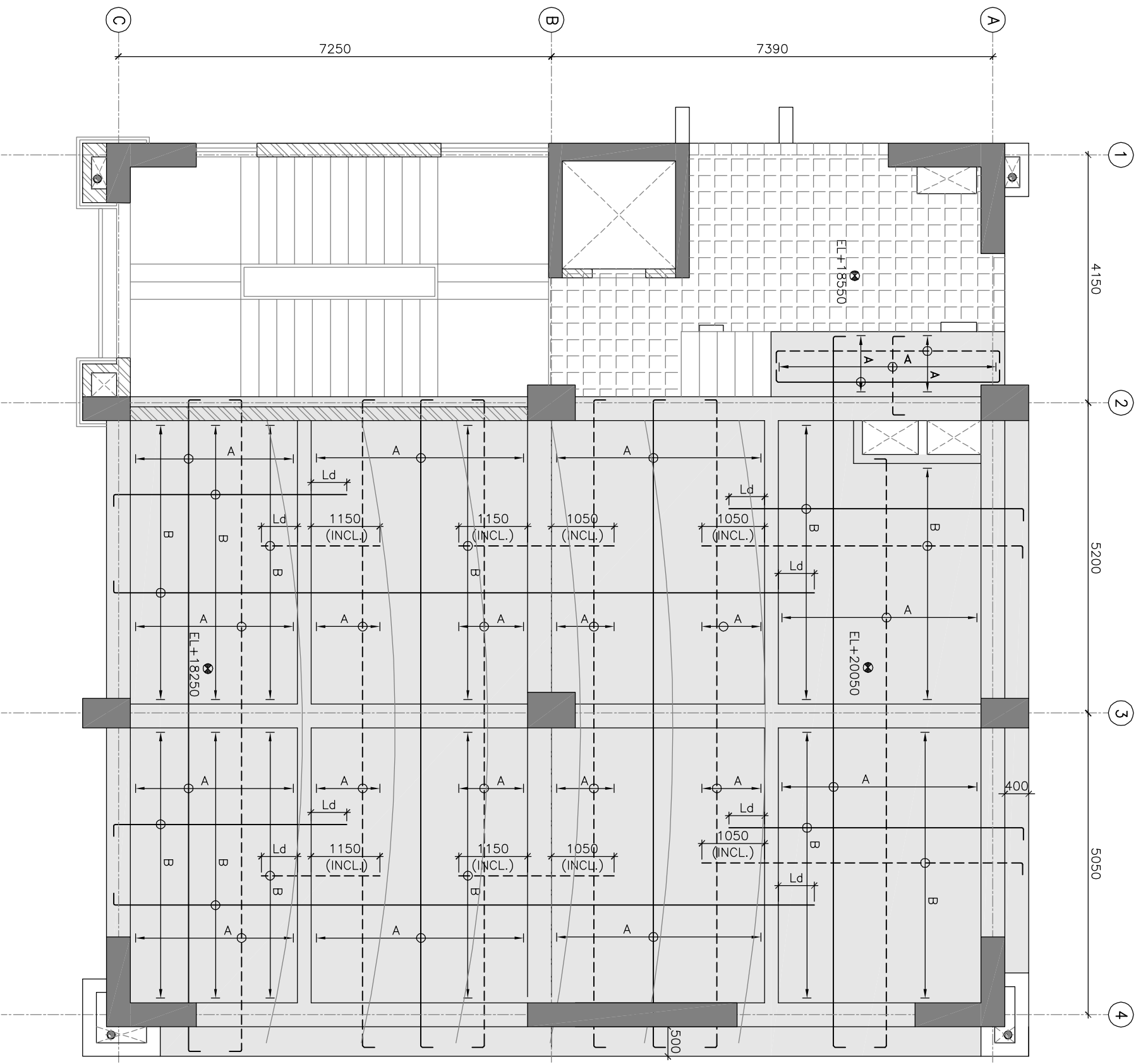
**GUWAHATI SMART CITY LIMITED**  
 SMART CITY MISSION GUWAHATI

DETAILS OF FOURTH FLOOR SLAB (EL=18550)

**TATA CONSULTING ENGINEERS LIMITED**  
 MUMBAI

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

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

- IMPORTANT NOTES:**
1. SLAB REINFORCEMENT, WHEREVER NOT SHOWN SHALL BE OF 8@150C/C
  2. ALL DISTRIBUTION REINFORCEMENT SHALL BE OF 8@150C/C WHEREVER REQUIRED (NOT SHOWN IN THE PLAN)
  3. Ld = DEVELOPMENT LENGTH = 50 $\phi$
  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

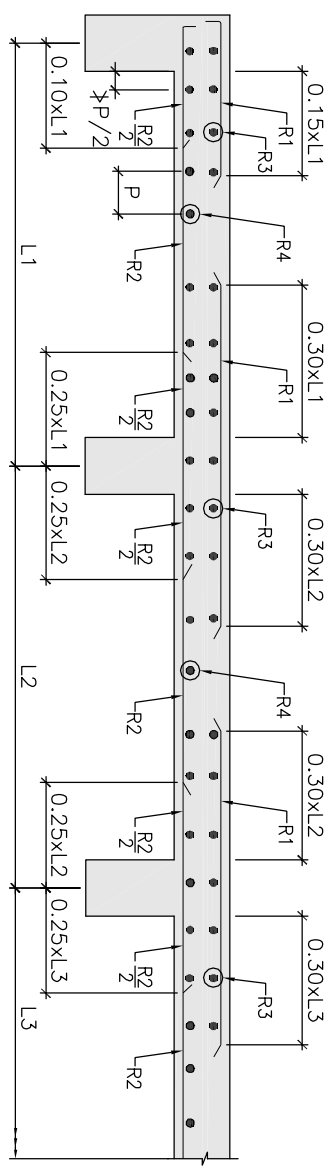
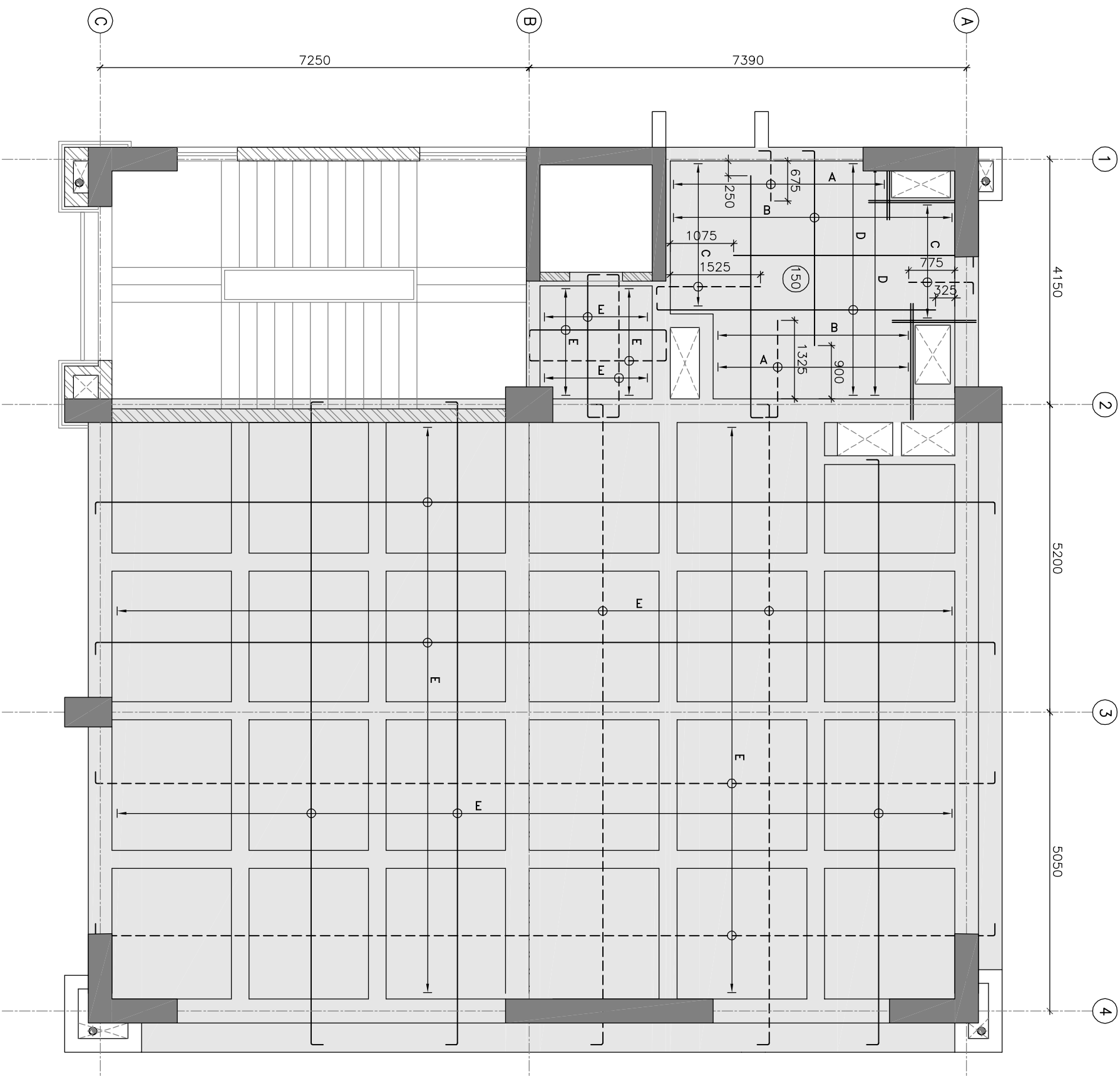
9. LAP & ANCHORAGE SHALL BE OF 50 TIMES OF BAR DIA.
10. NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION
11. USE SPACE BAR TO AVOID CONGESTION, WHEREVER NECESSARY.
12. ANY DISCREPANCY NOTED SHOULD BE BROUGHT TO THE NOTICE OF THE CONSULTANT.
13. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH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

**TENDER PURPOSE ONLY**

SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	DATE
					17.04.2020

**GUWAHATI SMART CITY LIMITED**  
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.

**LEGEND:**  
A=10Ø@1250/C  
B=10Ø@2500/C  
C=10Ø@1500/C  
D=10Ø@3000/C  
E=8Ø@1500/C

--- TOP REINFORCEMENT  
—— BOTTOM REINFORCEMENT

**IMPORTANT NOTES:**

1. SLAB REINFORCEMENT, WHEREVER NOT SHOWN SHALL BE OF 8Ø@1500/C
  2. ALL DISTRIBUTION REINFORCEMENT SHALL BE OF 8Ø@1500/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		DATE
	DRN	CHKD	
			17.04.2020
GUWAHATI SMART CITY LIMITED			
SMART CITY MISSION GUWAHATI			

**DETAILS OF ROOF SLAB**

**TATA CONSULTING ENGINEERS LIMITED**  
MUMBAI

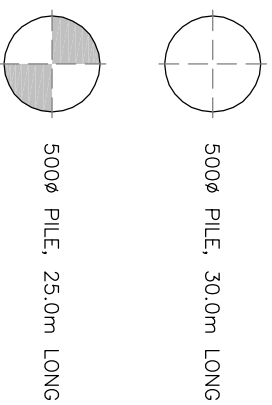
SCALE : AS NOTED  
DC & DSC : ---

PROJECT : TCE.10477A-CV-1007-RC-1029  
ISSUE : R0

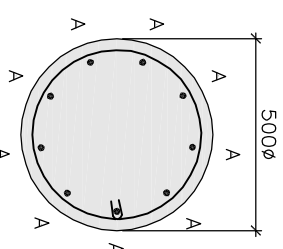
PILE CAP SCHEDULE		REINFORCEMENT			REMARKS
PILE CAP MARK	SIZE OF CAP	ALONG Z	ALONG X		
CAP4	2600 x 2600 x 2600	1 - LAYER 25 $\phi$ @175C/C	2L 1 $\phi$ @150C/C	1 - LAYER 25 $\phi$ @175C/C	12 $\phi$ @150C/C FACE BAR
CAP6A	2600 x 4100 x 2600	2 - LAYER 25 $\phi$ @200C/C	4L 1 $\phi$ @150C/C	2 - LAYER 25 $\phi$ @200C/C	12 $\phi$ @150C/C FACE BAR
CAP6B	2600 x 4100 x 2600	1 - LAYER 25 $\phi$ @140C/C	4L 1 $\phi$ @200C/C	1 - LAYER 25 $\phi$ @140C/C	12 $\phi$ @150C/C FACE BAR
CAP6C	2600 x 4100 x 2600	2 - LAYER 25 $\phi$ @200C/C	4L 1 $\phi$ @200C/C	1 - LAYER 25 $\phi$ @150C/C	12 $\phi$ @150C/C FACE BAR
CAP9	4100 x 4100 x 4100	1 - LAYER 25 $\phi$ @150C/C	6L 1 $\phi$ @200C/C	2 - LAYER 25 $\phi$ @150C/C	12 $\phi$ @150C/C FACE BAR

PILE SCHEDULE		PARTICULARS		DESCRIPTION	
LEVEL		PILE	PILE SIZE	CAST INSITU RCC PILE	
	TOP OF PILE CAP		500 $\phi$		
			25.0m / 30.0m		
			GRADE OF CONCRETE	M35	
			LONGITUDINAL BAR	A=9-1 $\phi$	
			TIES	2 $\phi$ @150C/C	

**LEGEND:**



**SECTION X-X**

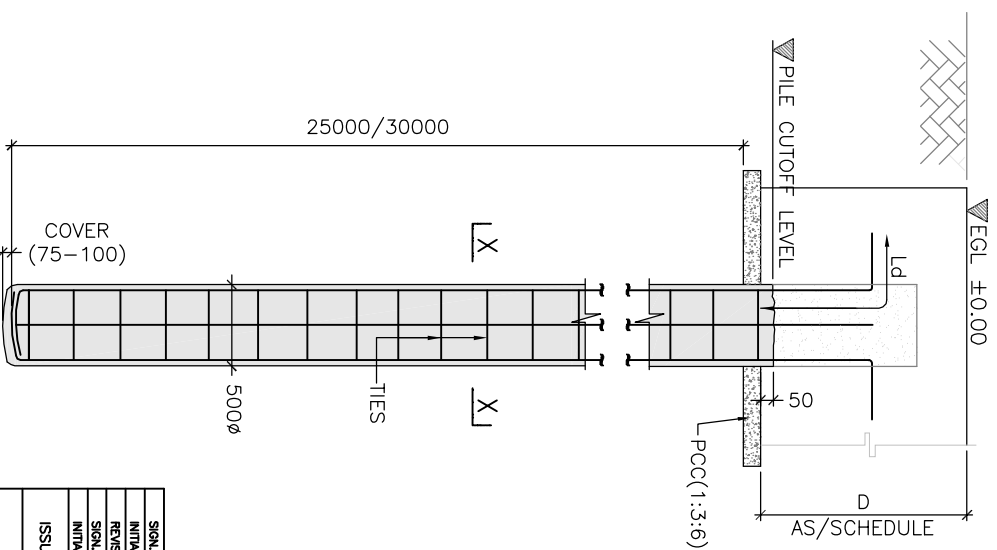


TOC STANDS FOR "TOP OF CAP" AND EL ARE IN mm U.N.O.

**TENDER PURPOSE ONLY**

GUWAHATI SMART CITY LIMITED																		
SMART CITY MISSION GUWAHATI																		
SNO	INITIALS	REVISIONS	SNO	INITIALS	DRN	DSN	CHD	CV	EL	IC	ME	PL	HMD	EXT	LS	FE/PM	APPD	DATE
																		09.05.2020

**TYPICAL DETAIL OF CAST IN SITU PILE**



RELATED DRAWINGS:

- TCE.10477A-CV-1007-RC-1001
- TCE.10477A-CV-1007-RC-1031
- TCE.10477A-CV-1007-RC-1010

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

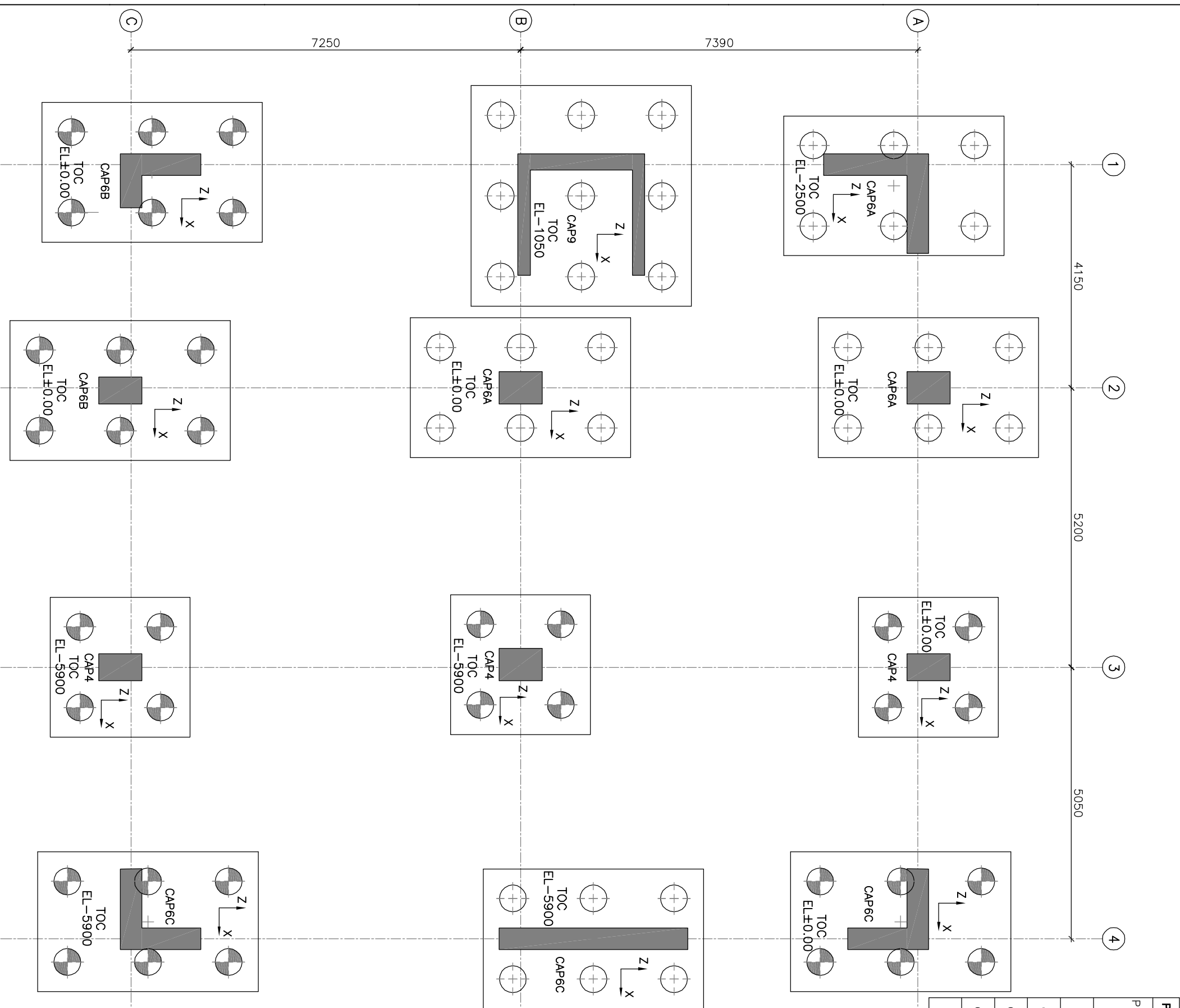
**TMTA CONSULTING ENGINEERS LIMITED**

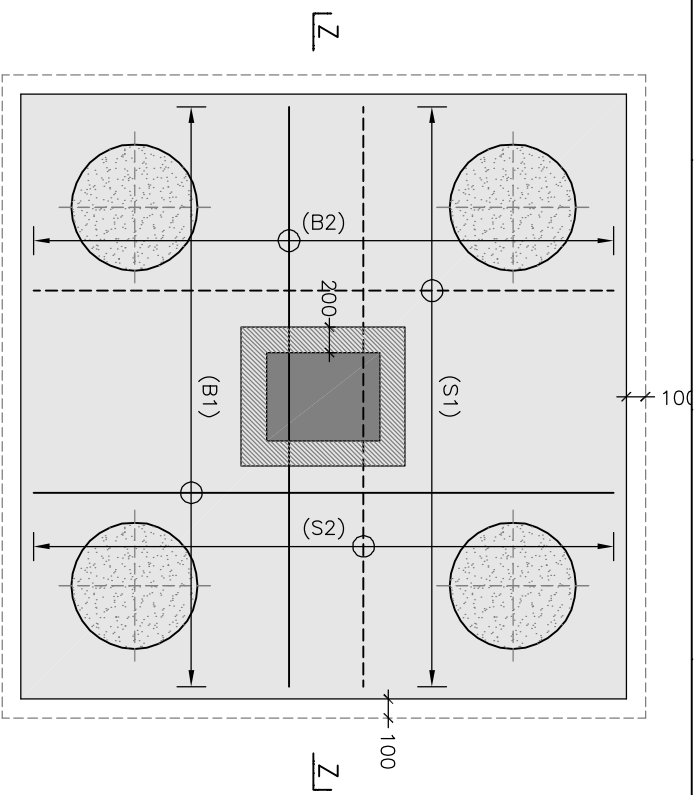
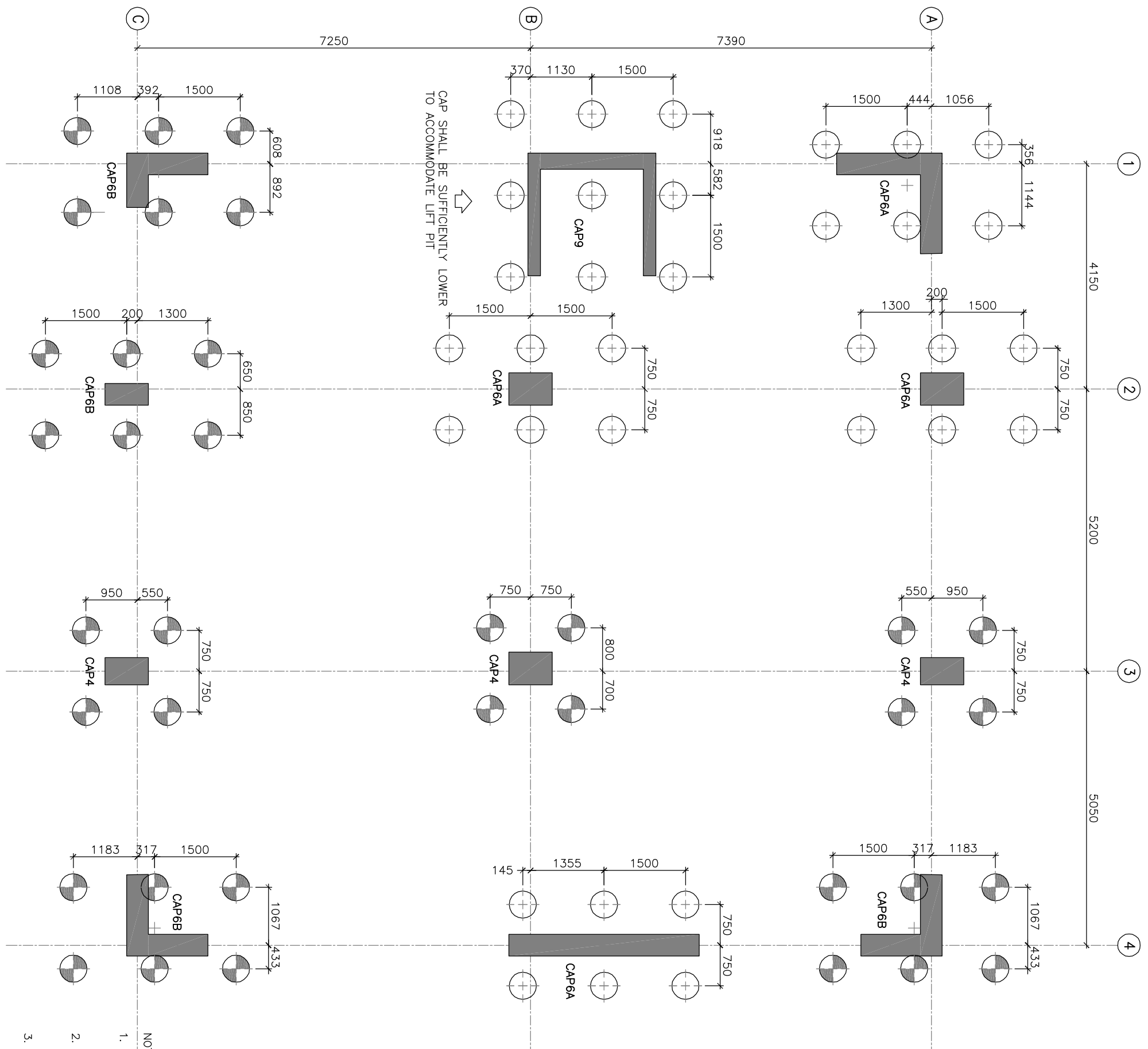
MUMBAI

SCALE : AS NOTED DWG NO. TCE.10477A-CV-1007-RC-1030 ISSUE RO

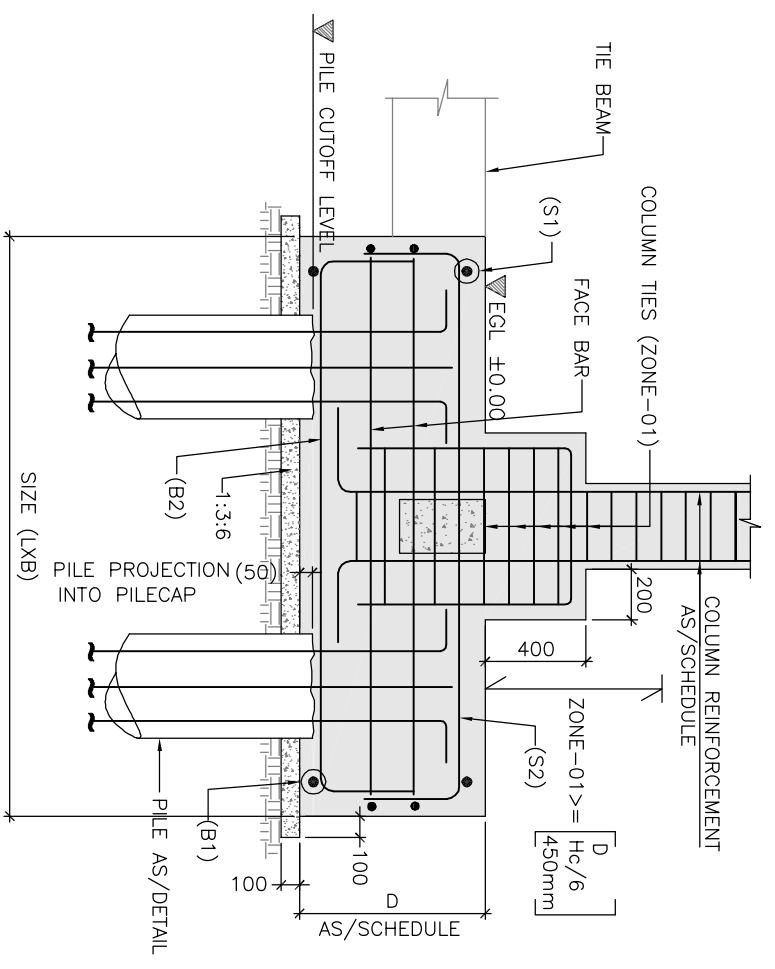
PC & DRG:---

ISSUE RO





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

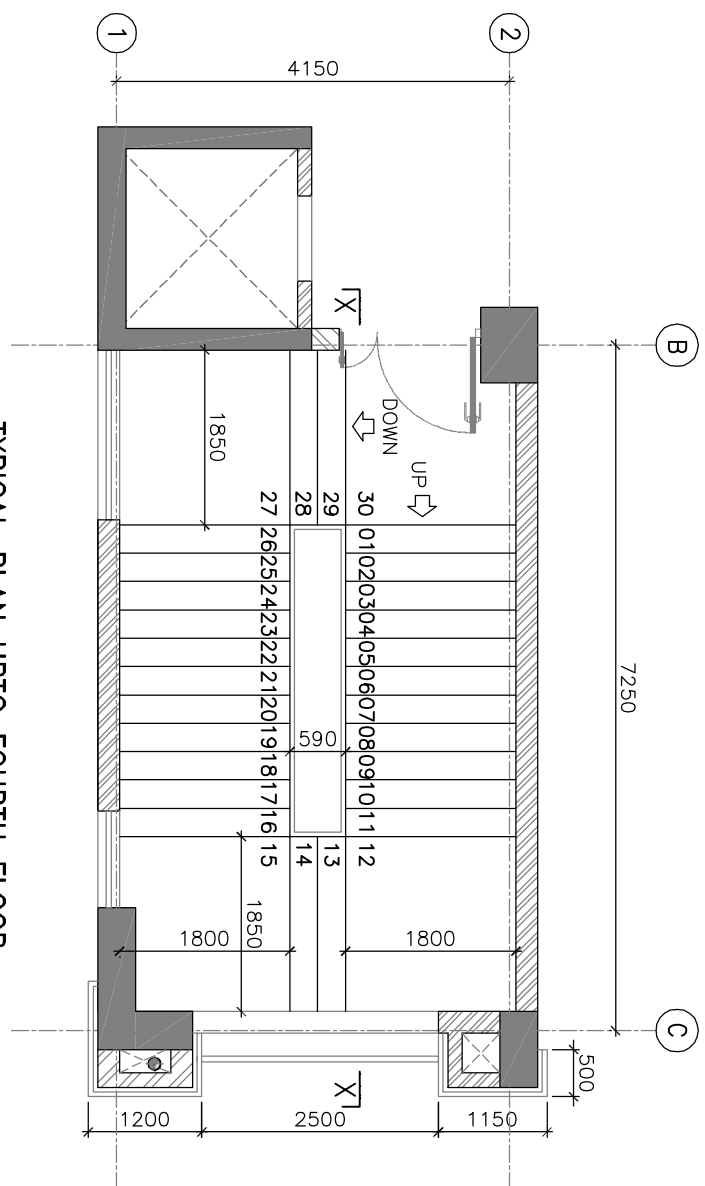
NOTES:

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

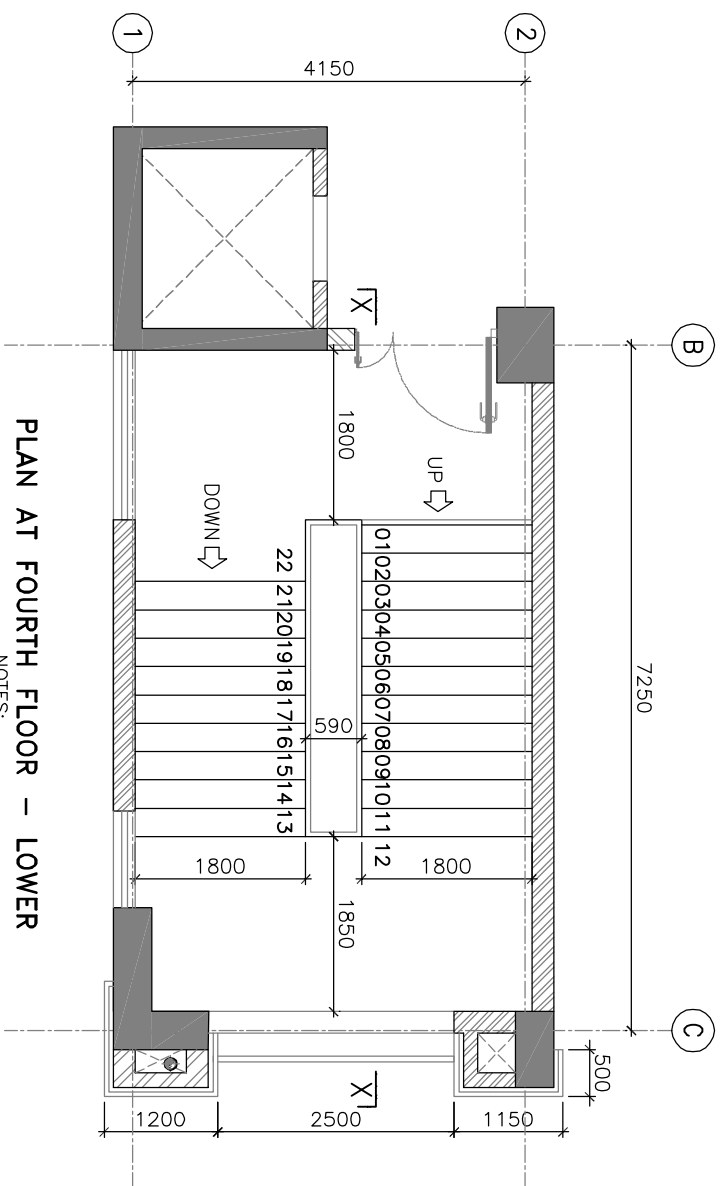
TENDER PURPOSE ONLY

GUWAHATI SMART CITY LIMITED																		
SMART CITY MISSION GUWAHATI																		
SIGN.	INITIALS	REVISIONS	SIGN.	INITIALS	ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PI	HM&EST	LS	PE/PM	APPD	DATE
																		19.04.2020

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



TYPICAL PLAN UPTO FOURTH FLOOR



PLAN AT FOURTH FLOOR - LOWER

- RELATED DRAWINGS:
1. TCE.10477A-CV-1007-RC-1001
  2. TCE.10477A-CV-1007-RC-1024
  3. TCE.10477A-CV-1007-RC-1025
  4. TCE.10477A-CV-1007-RC-1026
  5. TCE.10477A-CV-1007-RC-1027
  6. TCE.10477A-CV-1007-RC-1028
  7. TCE.10477A-CV-1007-RC-1029

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

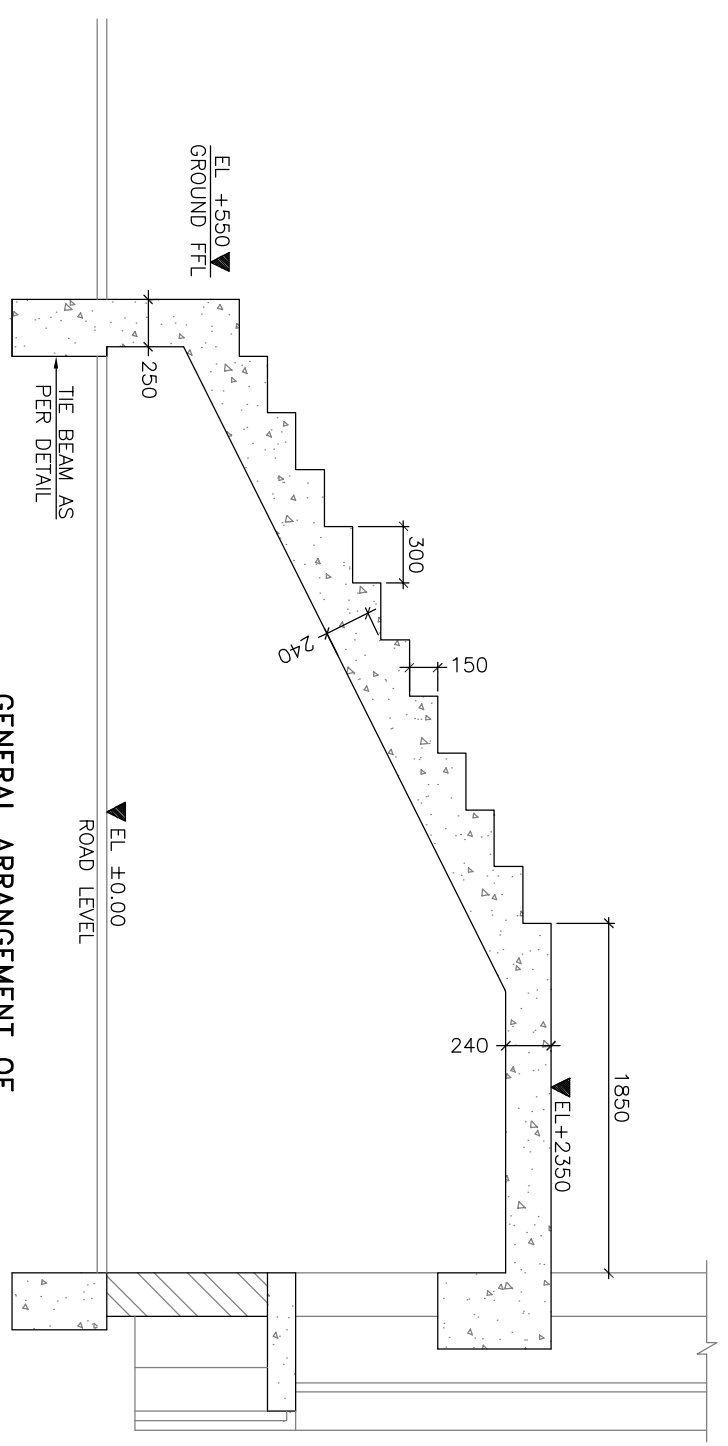
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.

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

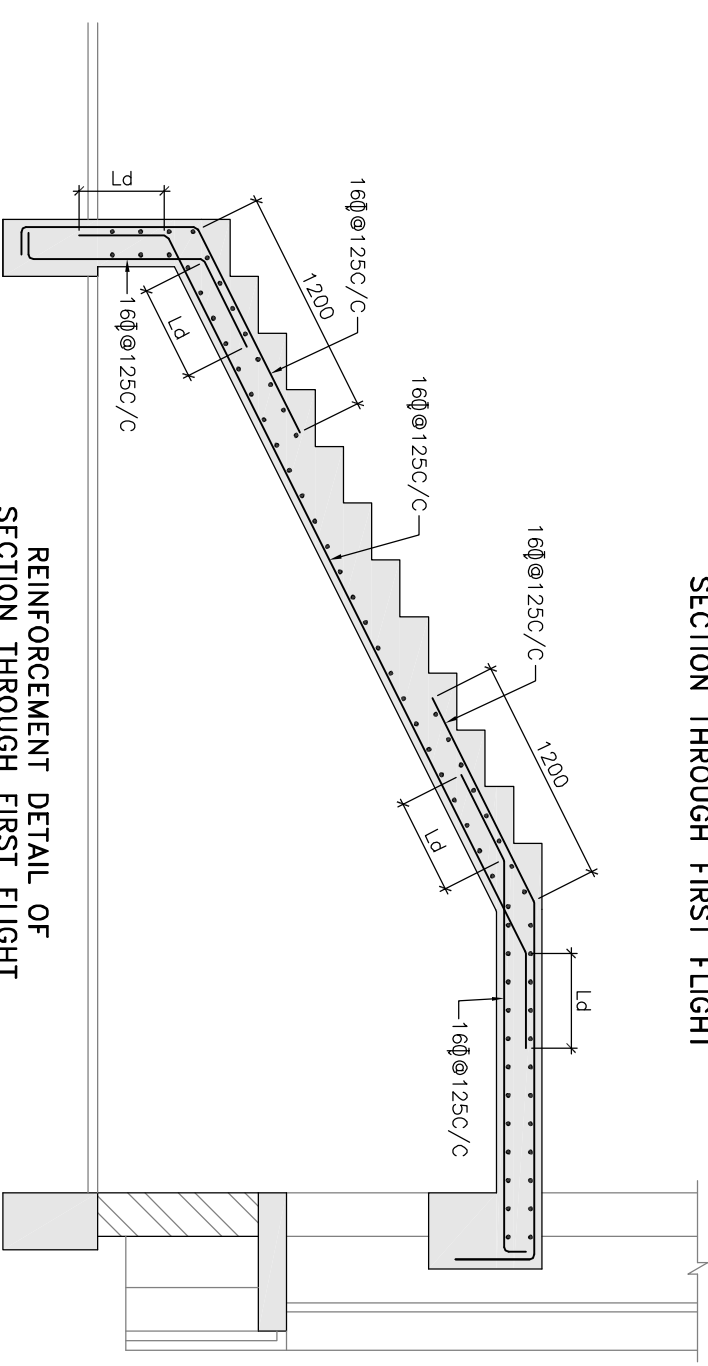
4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500

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

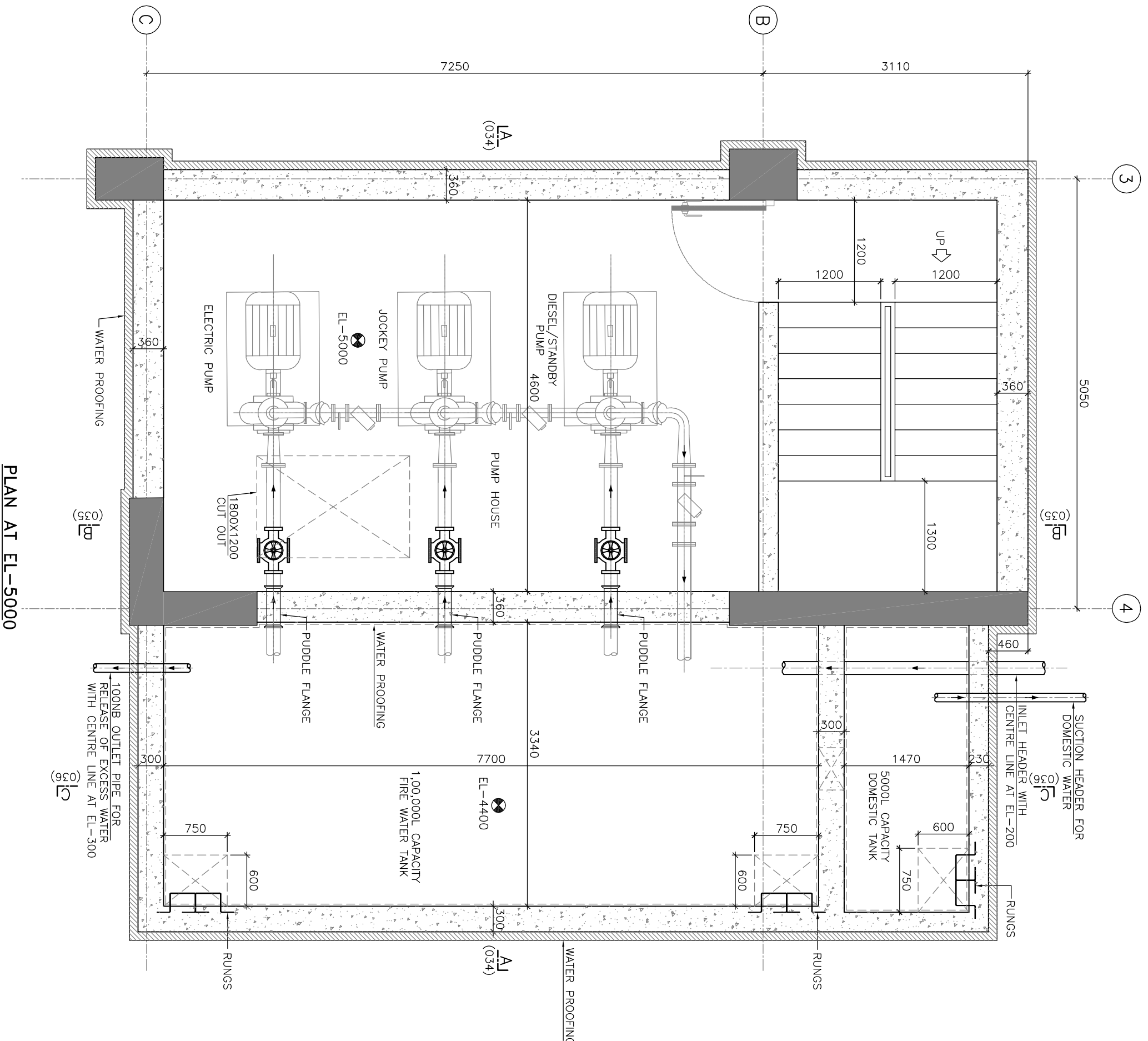
GUWAHATI SMART CITY LIMITED  
SMART CITY MISSION GUWAHATI

DETAILS OF STAIR CASE

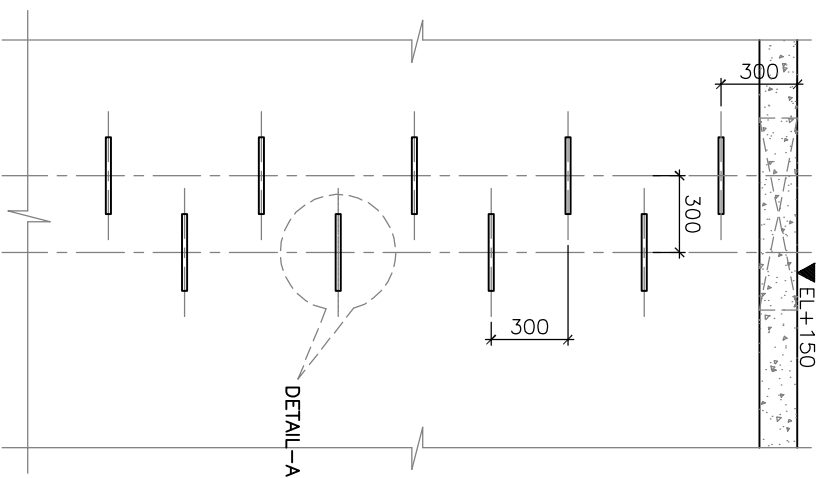
TATA CONSULTING ENGINEERS LIMITED  
MUMBAI

SCALE : AS NOTED  
DATE : 19.04.2020  
ISSUE : RO





PLAN AT EL-5000

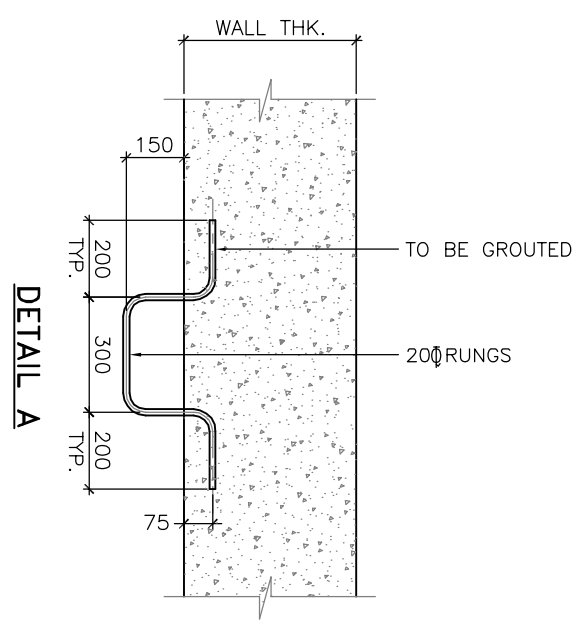


TYPICAL DETAIL OF RUNGS

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"

- 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



DETAIL A

TENDER PURPOSE ONLY

SRN	INITIALS	REVISIONS	DATE

SRN	ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PL	MD	EXT	LS	FE/PM	APPD	DATE
															05.05.2020

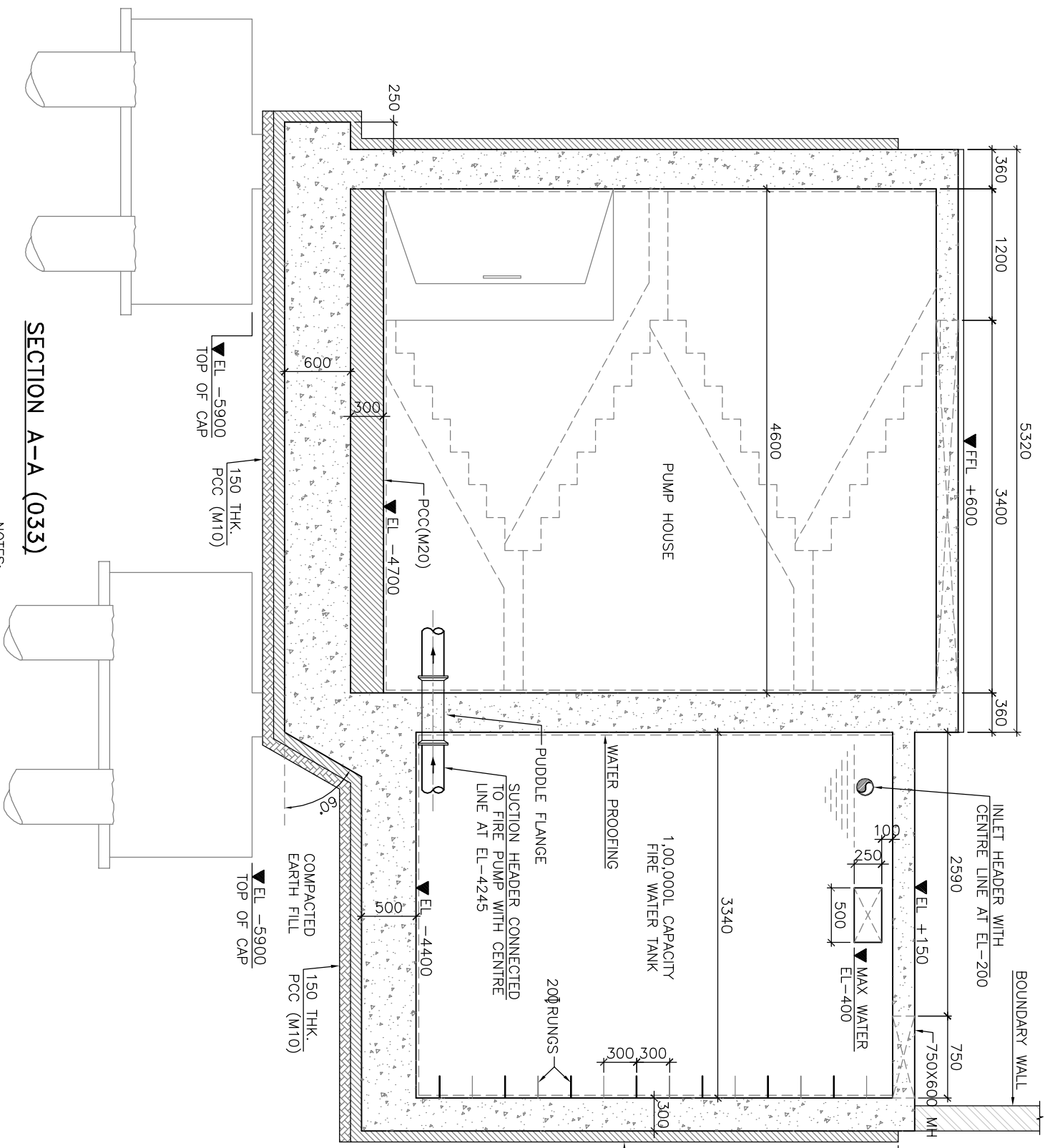
GUWAHATI SMART CITY LIMITED

SMART CITY MISSION GUWAHATI

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

TATA CONSULTING ENGINEERS LIMITED

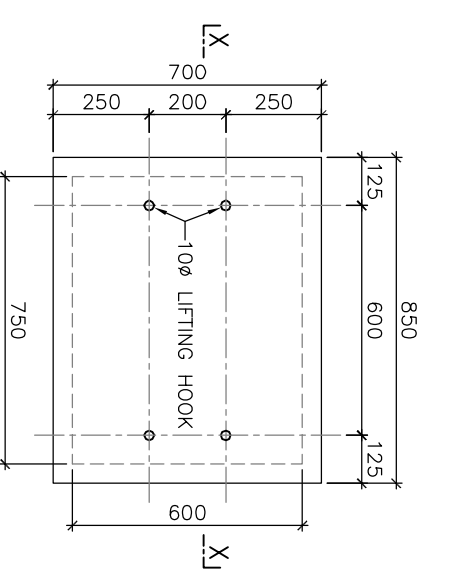
MUMBAI



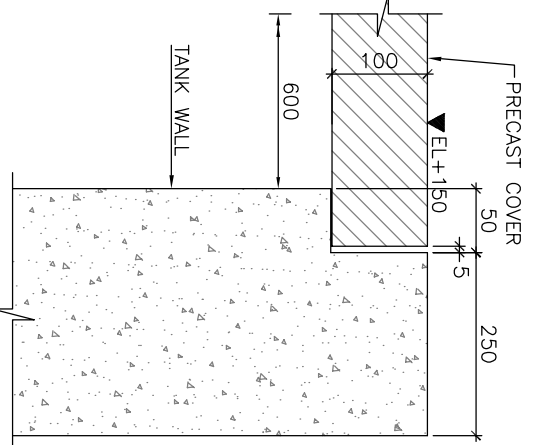
**SECTION A-A (033)**

NOTES:

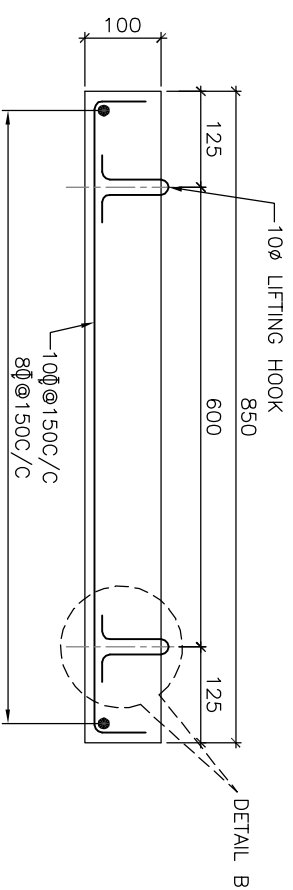
1. ALL DIMENSIONS AND LEVELS ARE IN mm U.N.O.
2. ONLY FIGURED DIMENSIONS ARE TO BE FOLLOWED, NOT TO BE MEASURED.
3. GRADE OF CONCRETE SHALL BE OF M25(1:1:2) U.N.O.
4. GRADE OF REINFORCEMENT STEEL SHALL BE OF Fe500
5. PERIODIC QUALITY CONTROL TESTS MAY BE UNDERTAKEN BY THE CONTRACTOR AND RESULTS OF THE 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.



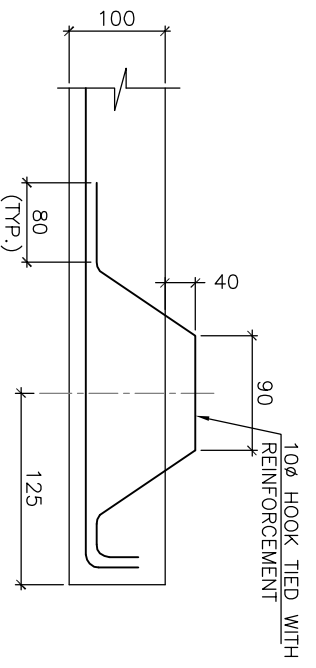
**DETAILS OF PRECAST CUTOUT COVER - PLAN**



**TYPICAL EDGE DETAIL**



**SECTION X-X**



**DETAIL B**

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-1035
7. TCE.10477A-CV-1007-RC-1036

**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 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.

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"

GUWAHATI SMART CITY LIMITED									
SMART CITY MISSION GUWAHATI									
SRNO	REVISIONS	DATE	BY	CHKD	APPD	DATE	BY	CHKD	APPD
01		05.05.2020							

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

**TATA CONSULTING ENGINEERS LIMITED**

MUMBAI

SCALE : AS NOTED  
DATE : 05.05.2020  
PROJECT : TCE.10477A-CV-1007-RC-1034  
ISSUE : RO

- 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-1036

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"

7. 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 | (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.

**TENDER PURPOSE ONLY**

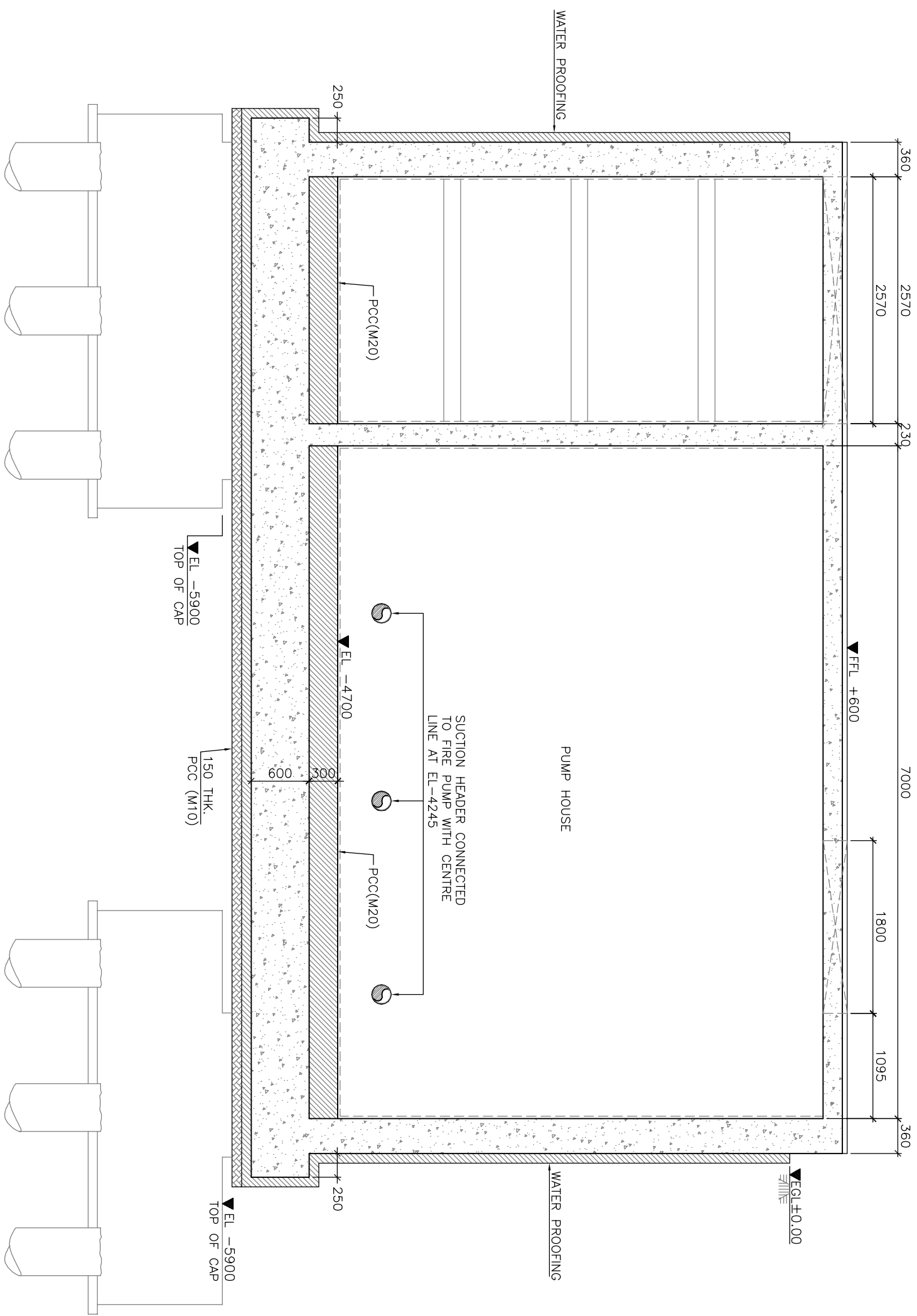
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REVISIONS		
SRNO	INITIALS	DATE
ISSUE	DRN	DSN
	CHD	IC
	ME	PL
	HM	EXT
	LS	FE/PM
	APPD	DATE

**GUWAHATI SMART CITY LIMITED**  
SMART CITY MISSION GUWAHATI

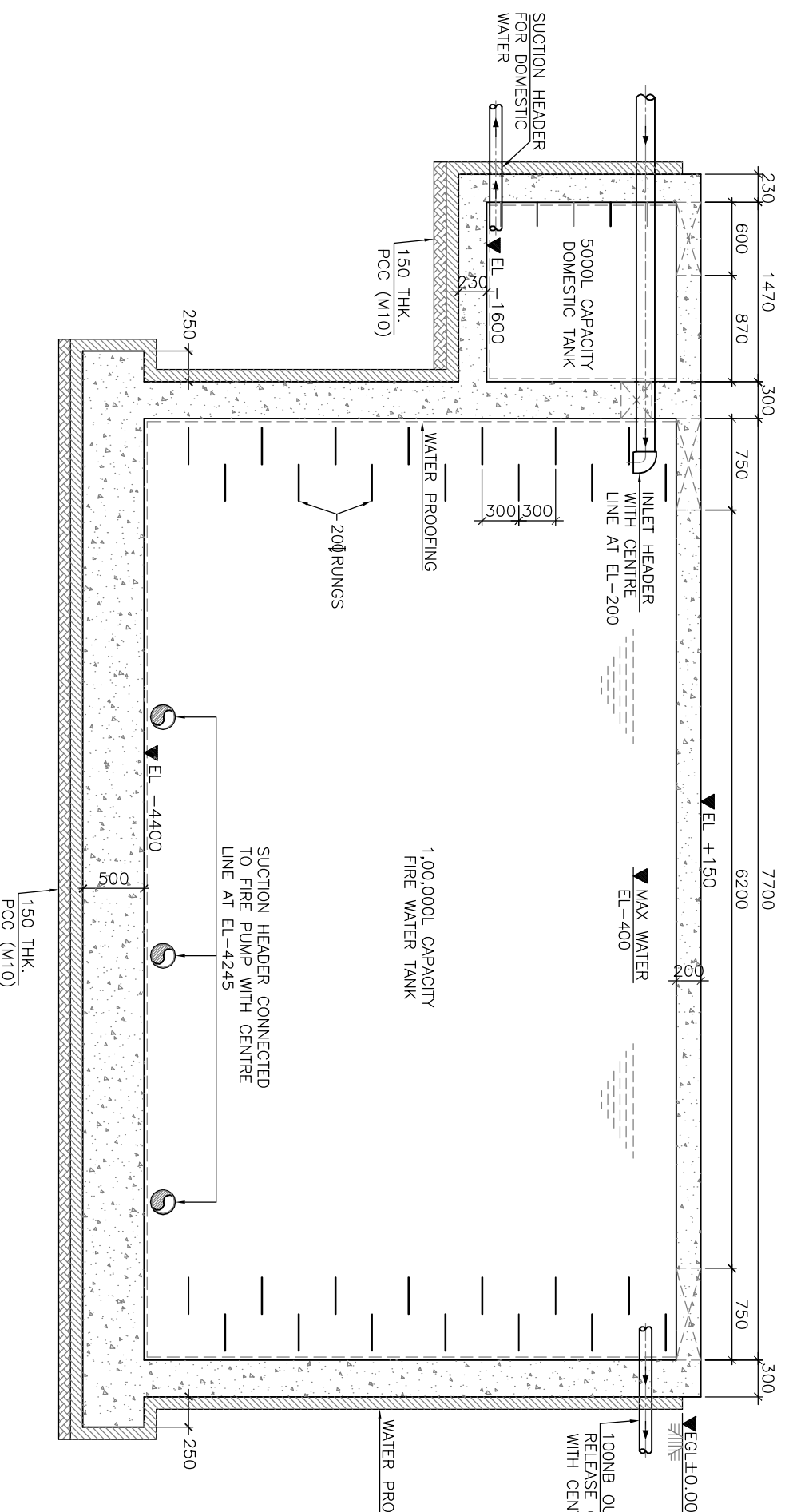
DETAILS OF 1,55,000 LIT. CAPACITY UG WATER TANK  
GENERAL ARRANGEMENT (SHEET 3 / 4)

**TATA CONSULTING ENGINEERS LIMITED**  
MUMBAI

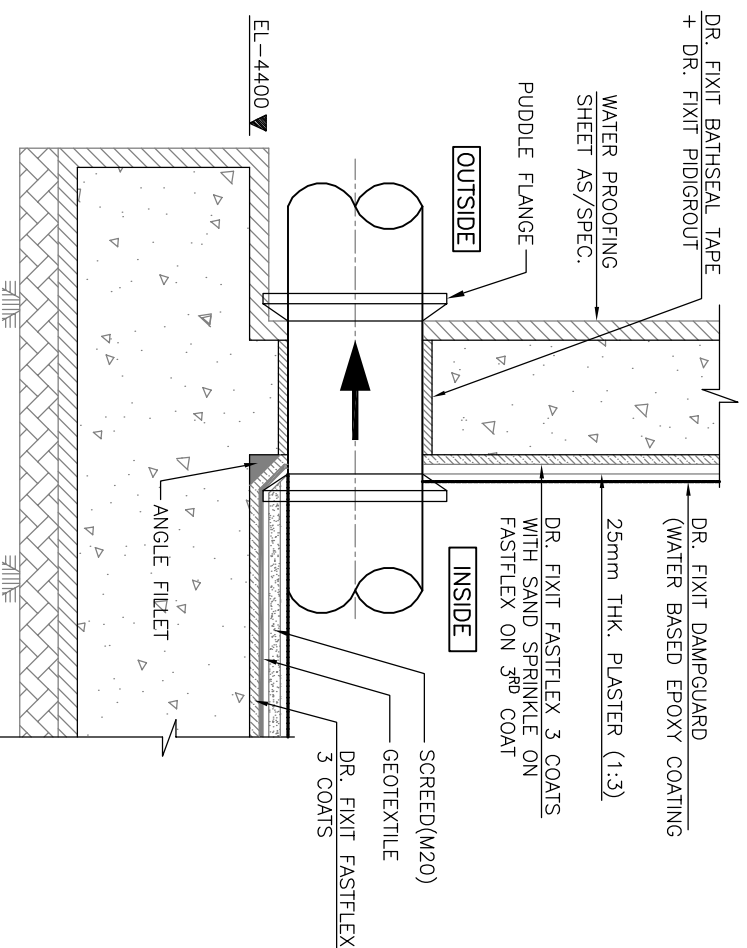
SCALE	: AS NOTED	DATE	05.05.2020
PC & DRG	NO.	TCE.10477A-CV-1007-RC-1035	ISSUE
			RO



**SECTION B-B (033)**



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	:	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.	INITIALS	REVISIONS	DATE

**GUWAHATI SMART CITY LIMITED**  
SMART CITY MISSION GUWAHATI

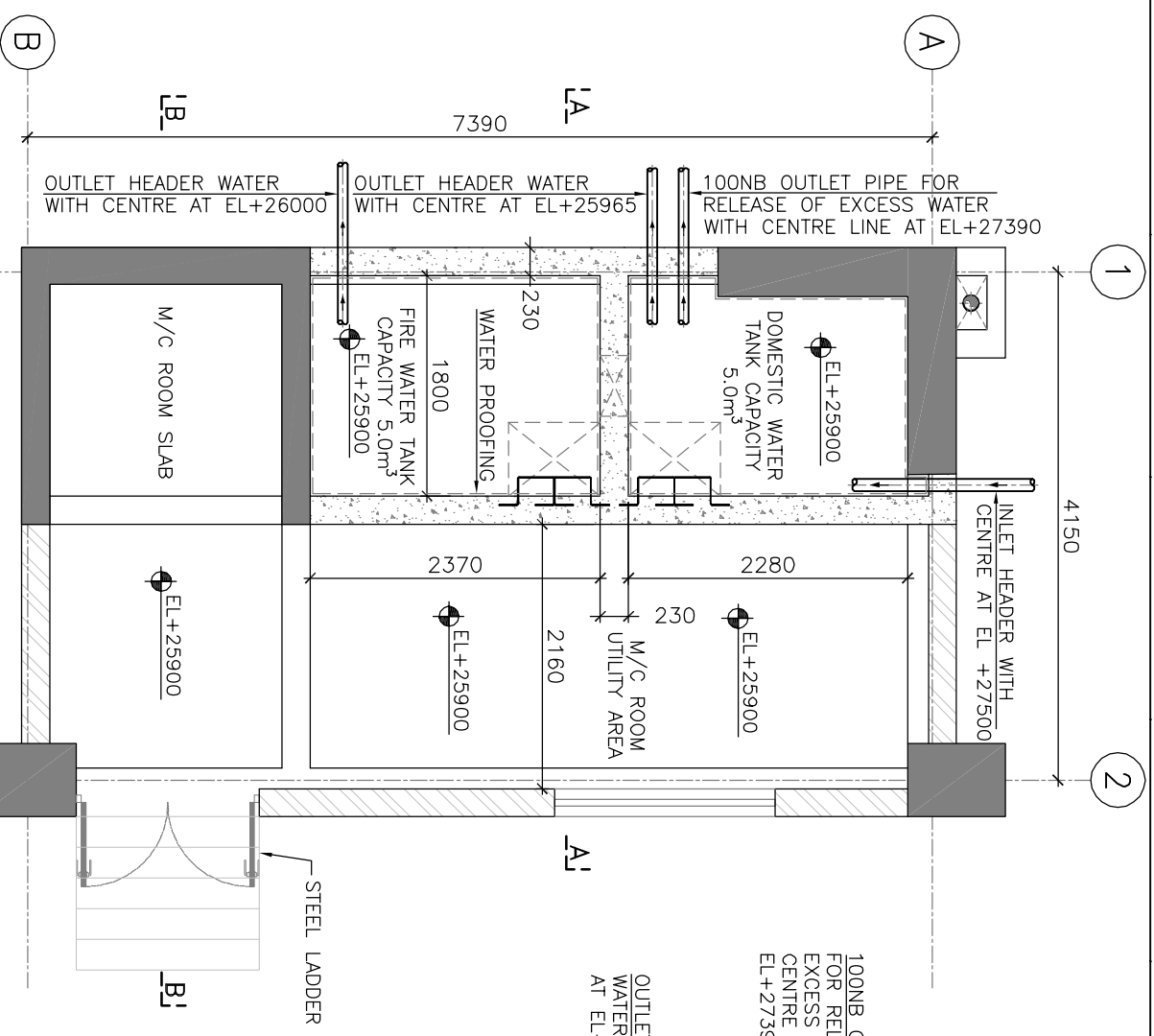
DETAILS OF 1,55,000 LIT. CAPACITY UG WATER TANK  
GENERAL ARRANGEMENT (SHEET 4 / 4)

**TATA CONSULTING ENGINEERS LIMITED**

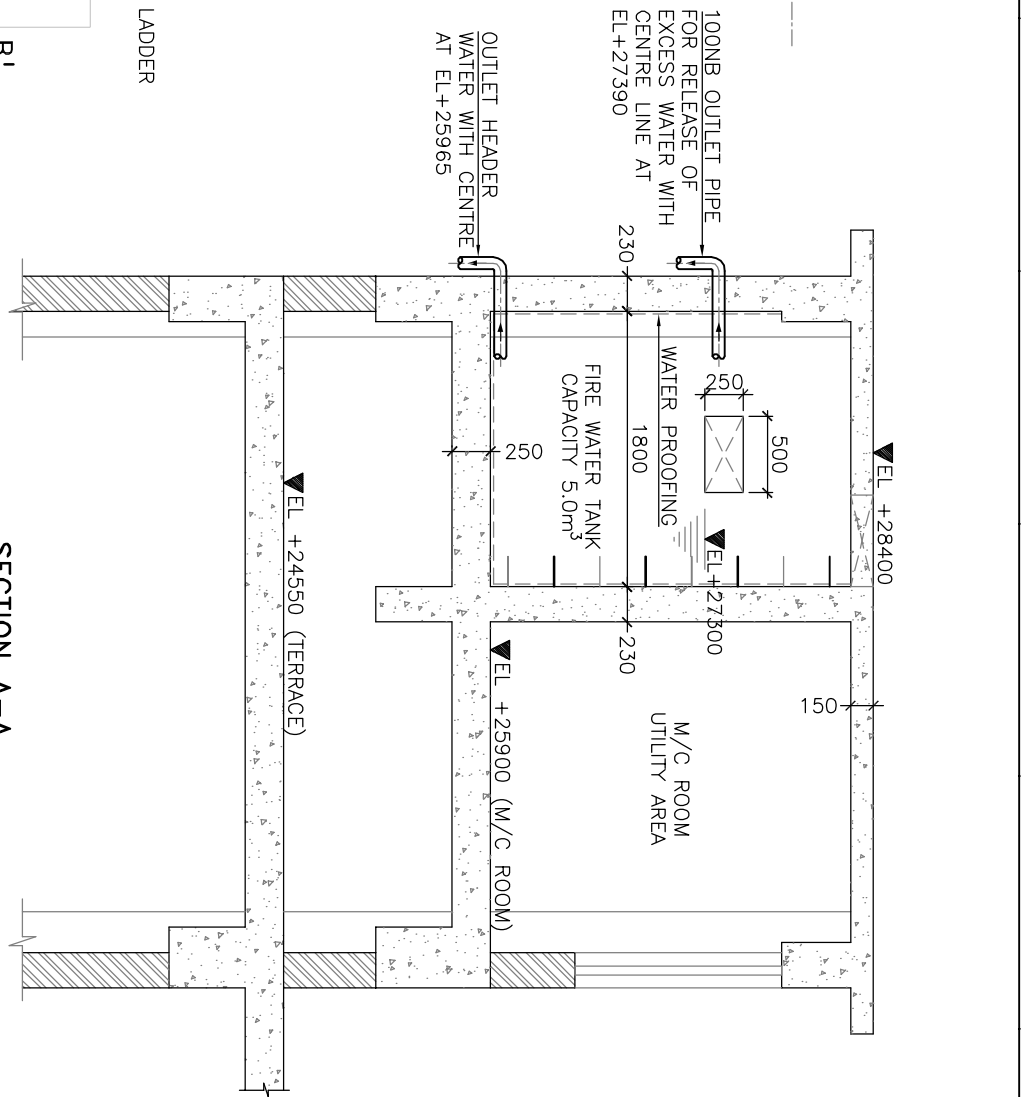
MUMBAI

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

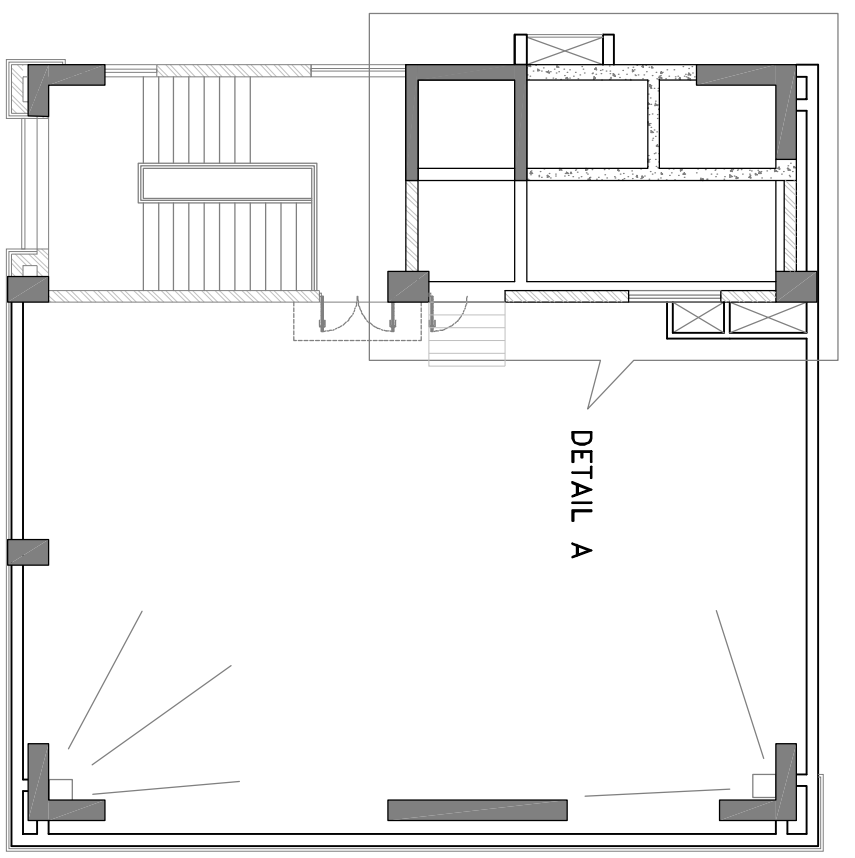




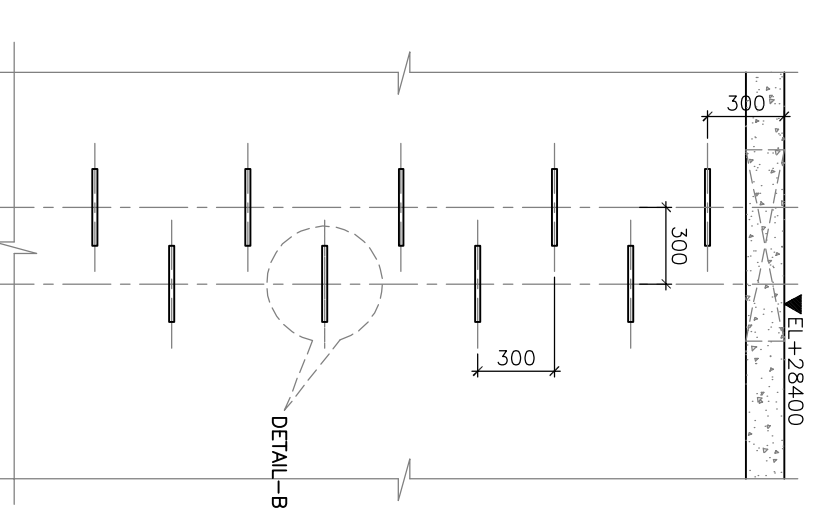
DETAIL A - PLAN  
AT M/C ROOM SLAB LEVEL



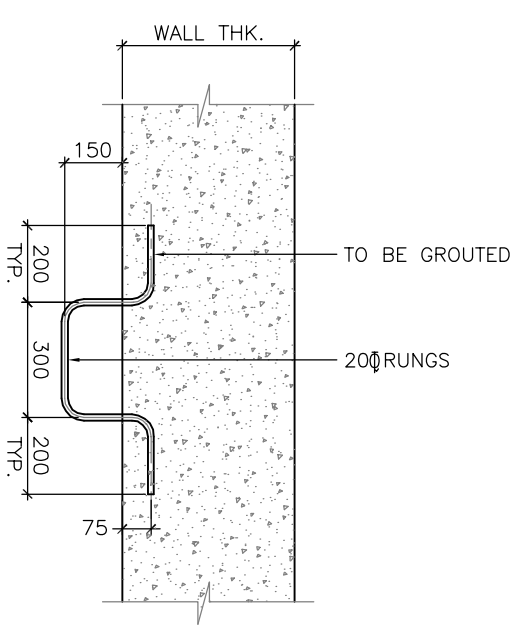
SECTION A-A



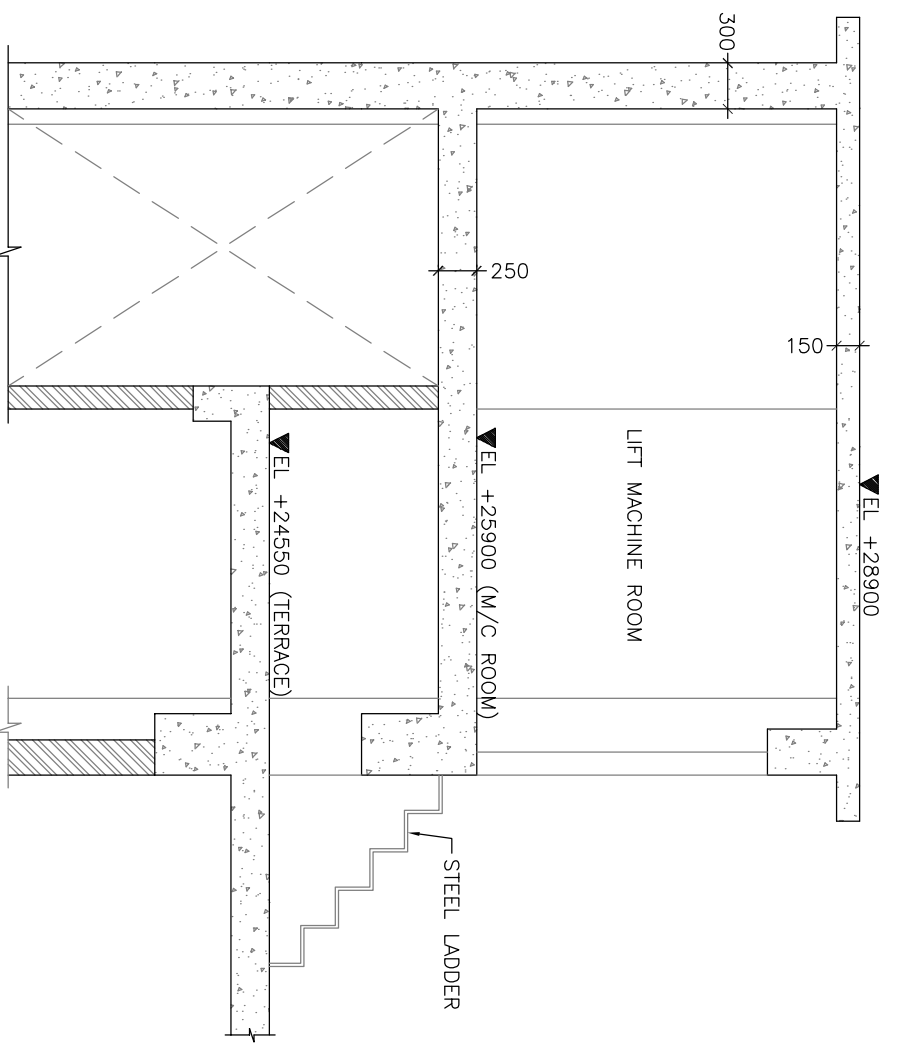
KEY PLAN



TYP. DETAIL OF RUNG



DETAIL B



SECTION B-B

RELATED DRAWINGS:

1. TCE.10477A-CV-1007-RC-1001
2. TCE.10477A-CV-1007-RC-1022
3. TCE.10477A-CV-1007-RC-1029

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

TENDER PURPOSE ONLY

SRN	INTLS	REVISIONS	SRN	INTLS	DATE
					05.05.2020

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

GUWAHATI SMART CITY LIMITED  
SMART CITY MISSION GUWAHATI

DETAILS OF 10000 L CAPACITY OVERHEAD WATER TANK  
GENERAL ARRANGMENT

TATA CONSULTING ENGINEERS LIMITED  
MUMBAI

SCALE : N.T.S.  
DATE : 05.05.2020  
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:**

	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(P.T)
	AMMETER SELECTOR SWITCH
	ANALOG AMMETER
	MULTIFUNCTION METER
	DIESEL GENERATOR
	U/V RELAY
	O/V RELAY
	MASTER TRIP RELAY
	INSTRUMENTATION
	LOAD BREAK SWITCH
	INST. O/C PROTECTION
	INST. E/F PROTECTION
	DMT. O/C PROTECTION
	VOLTMETER SELECTOR SWITCH
	ANALOG VOLTMETER
	OVER CURRENT RELAY
	LOOK OUT RELAY
	ELECTRO-MECHANICAL INTERLOCK

PCC PANEL

ON MCCB I/C & O/G

ON OFF TRIP

0.415kV,\*A,FP,AL,\*kA/1SEC,50 Hz

DESCRIPTION	SERVER UPS	W/S UPS	MULTI	VFD	EMERGENCY LBS	SERVER UPS	W/S UPS	MULTI	VFD	FIRE ALARM	WATER PUMP PANEL	ALU PANEL	EV CHARGER	SPARE	SPARE	SPARE	ARTC PANEL	PAVAC/OB	PAVAC/OB
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**DO NOT SCALE**

GOWAHATI SMART CITY LIMITED

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

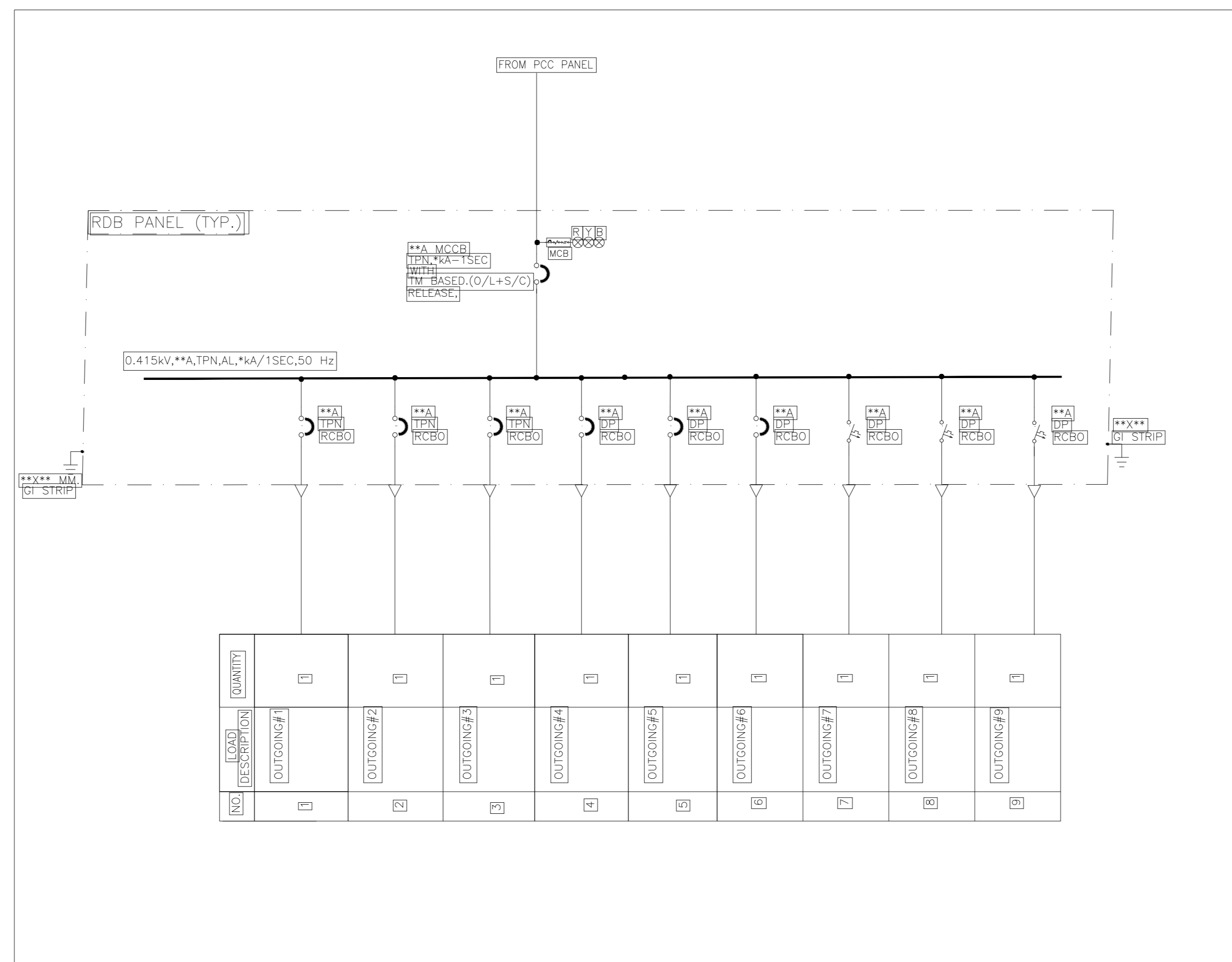
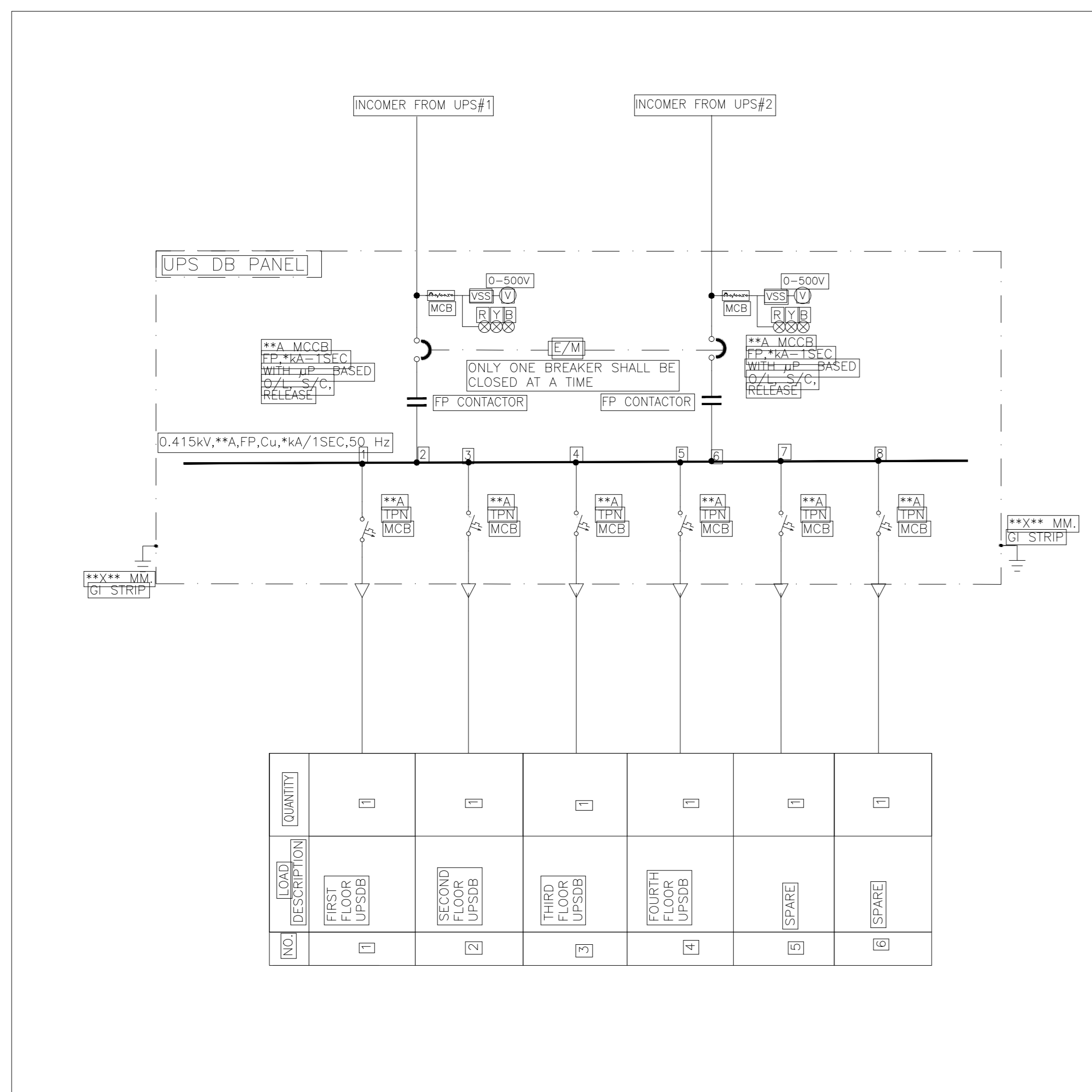
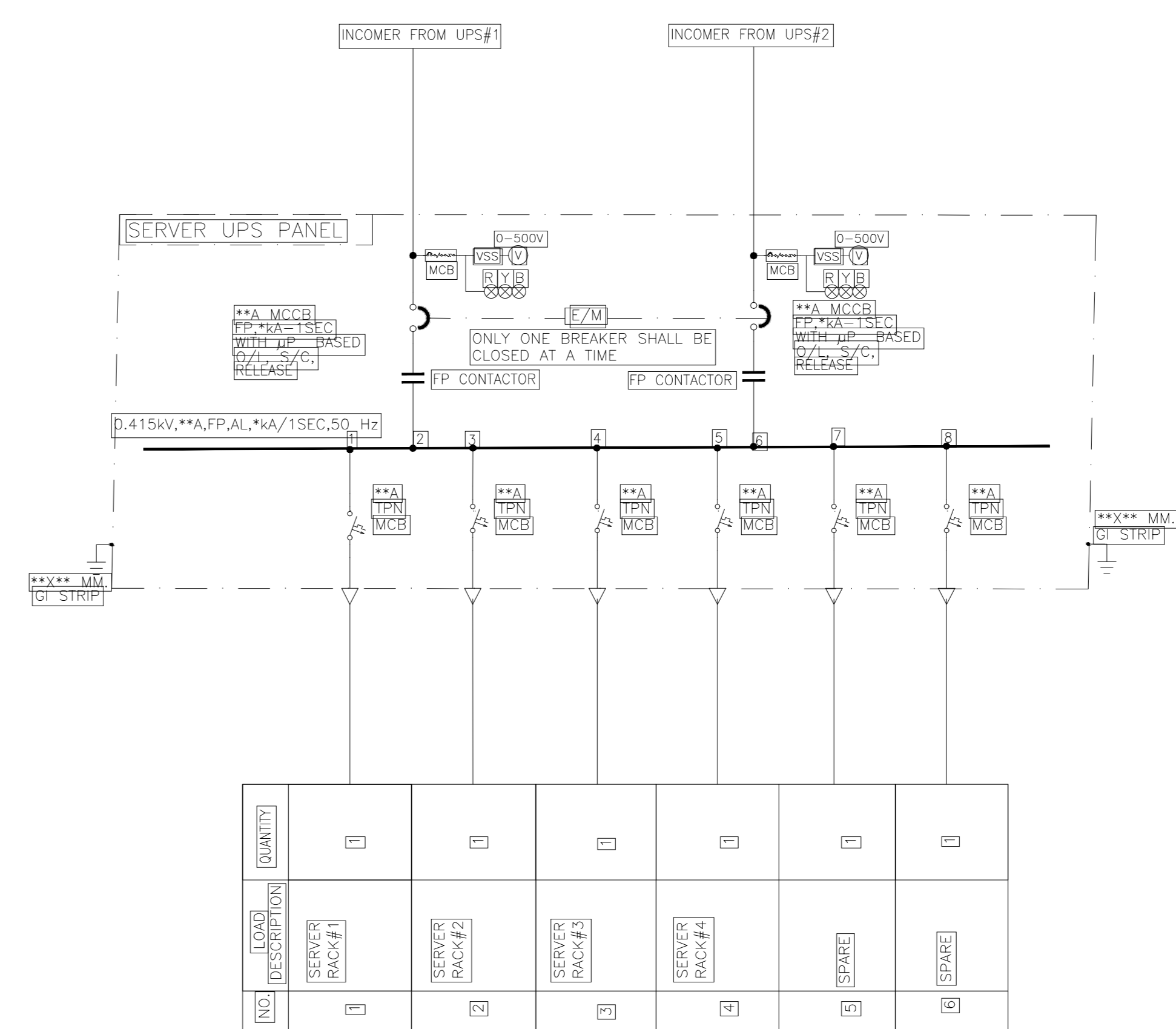
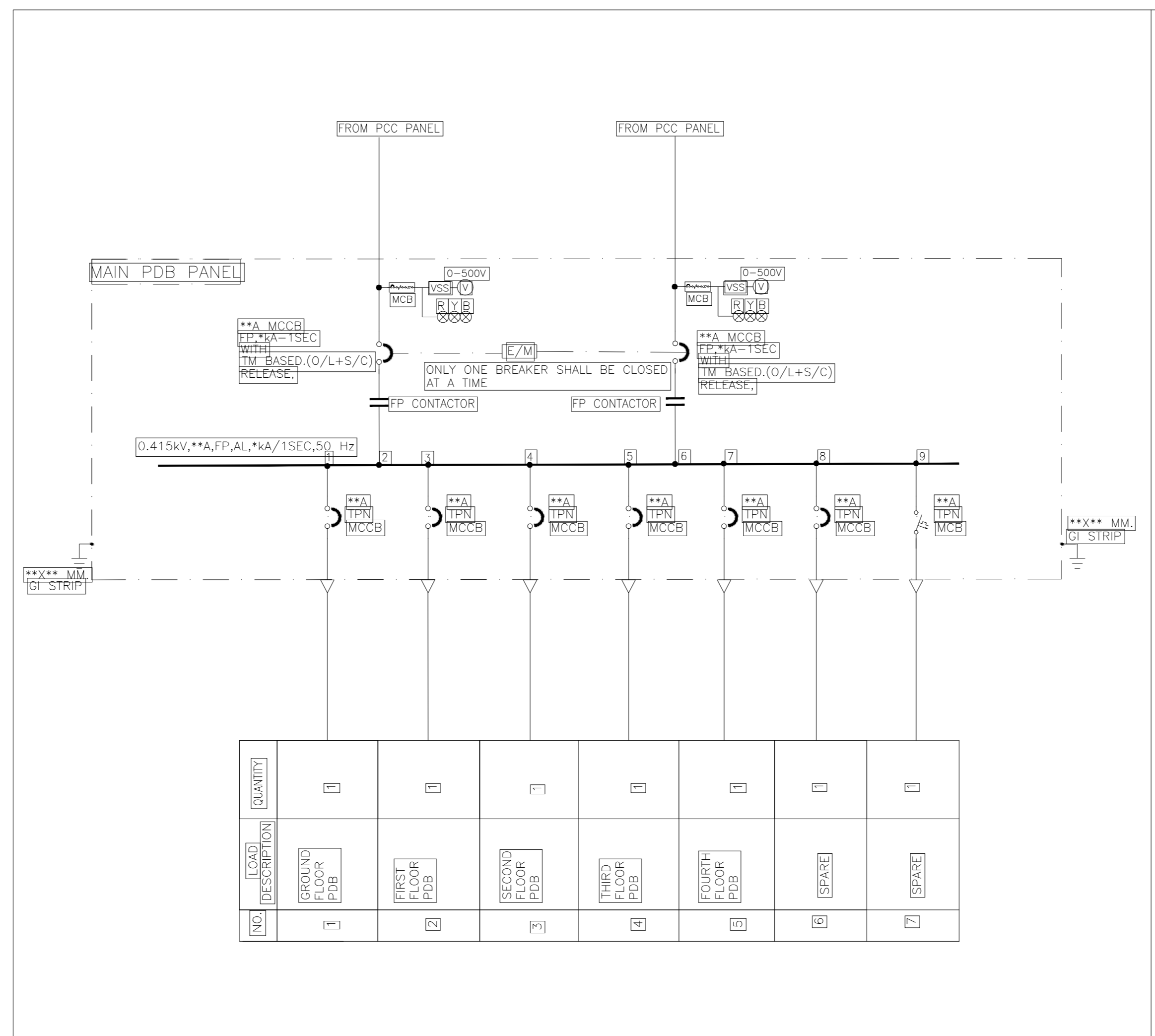
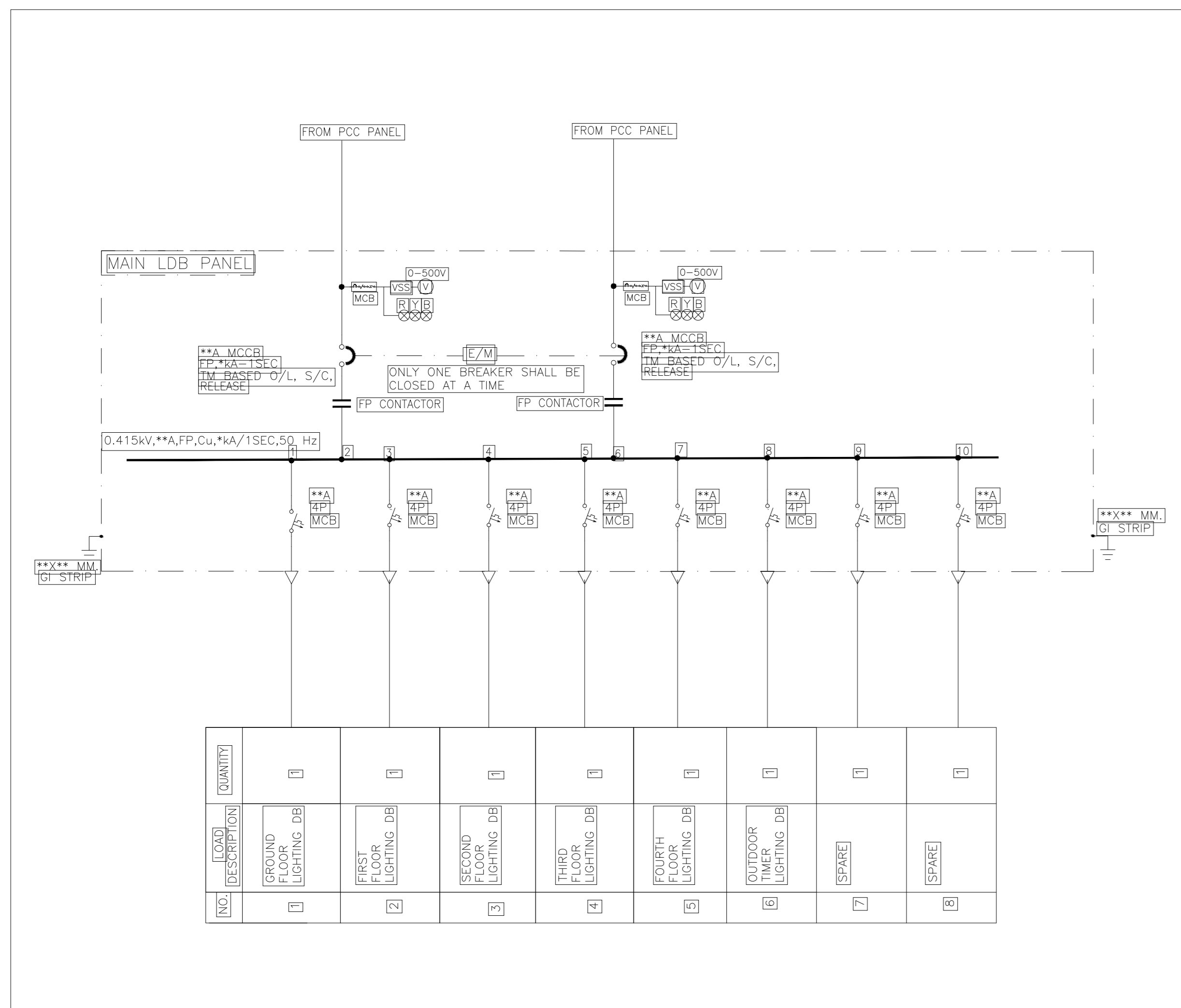
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SCALE: 1:500 SHEET NO: TCE:10477A-EL-4001-AU-40002 ISSUE: 01

FILE NAME: T10477A-EL-40002-REV-PO

NO.	REVISIONS	INITIALS	DATE
01			20-03-2020



- 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 110VOLTS 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
	U/V RELAY
	O/V RELAY
	MASTER TRIP RELAY
	INSTRUMENTATION
	LOAD BREAK SWITCH
	INST. O/C PROTECTION
	INST. E/F PROTECTION
	IDMT. O/C PROTECTION
	VOLTMETER SELECTOR SWITCH
	ANALOG VOLTMETER
	OVER CURRENT RELAY
	LOOK OUT RELAY
	ELECTRO-MECHANICAL INTERLOCK

NO.	DATE	BY	REVISIONS
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GUWAHATI SMART CITY LIMITED

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

**TATA CONSULTING ENGINEERS LIMITED**

SCALE: 1:1000  
 FILE NAME: TCE\_10477A-EL-4001-AU-40002  
 DATE: 20-03-2020

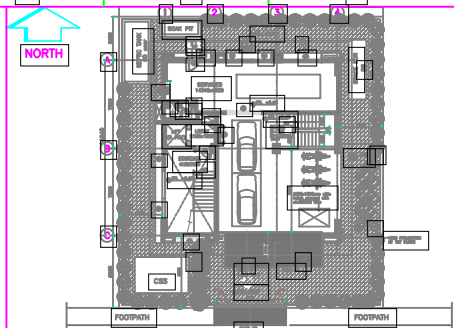
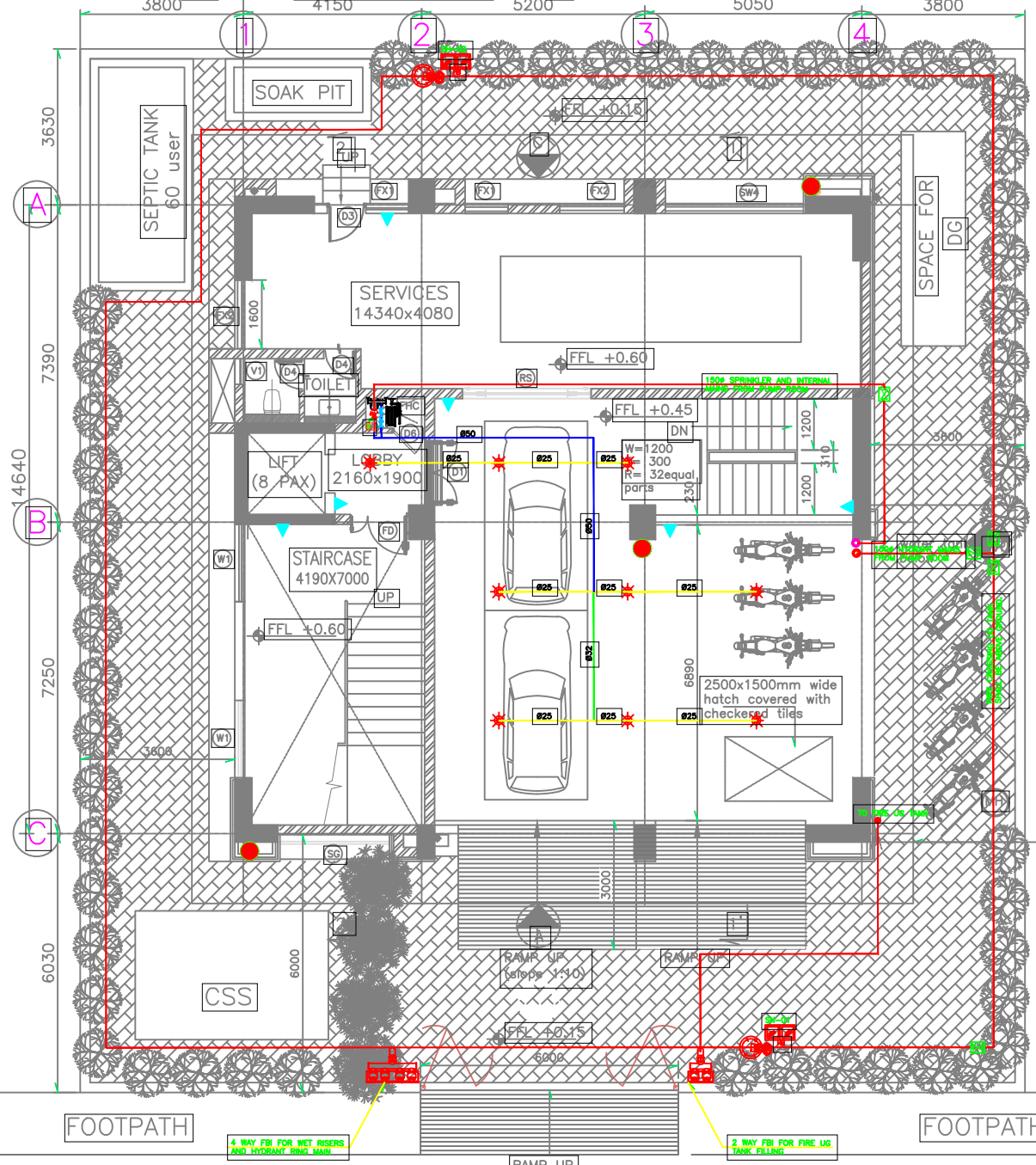




## **FIRE FIGHTING DRAWINGS**



TCE.10477A-ME-6041-FF-60101  
GROUND FLOOR FPS LAYOUT



- KEY PLAN**
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
  2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, PUBLIC HEALTH, ELECTRICAL AND STRUCTURAL DRAWINGS.
  3. PIPES SHALL BE HEAVY DUTY GI PIPE CLASS "B" CONFORMING TO IS 1239.
  4. UNDERGROUND PIPE SHALL BE COATED AND WRAPPED AS PER IS : 10221 WITH "PYKOTE" WRAPPING COATING MATERIAL OF 4mm THICK.
  5. SLUICE VALVE SHALL BE CONFORMING TO IS : 780.
  6. THE DEPTH OF UNDERGROUND PIPE SHALL BE DECIDED AT SITE AS PER THE SITE CONDITION TO AVOID FOULING WITH OTHER SERVICES SUBJECT TO THE TOP OF THE U/G PIPE IS MINIMUM 1M BELOW FROM THE FGL.
  7. MINOR CHANGES IN THE PIPE ROUTING SHALL BE MADE TO SUIT SITE LOCATIONS WITHOUT EFFECTING DESIGN ASPECTS.
  8. MINOR CHANGES IN THE HYDRANT LOCATION SHALL BE MADE TO SUIT MACHINE/EQUIPMENT REQUIREMENT WITHOUT EFFECTING DESIGN ASPECTS.
  9. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED AT TENDER STAGE BEFORE COMMENCEMENT OF ANY WORK. NO FURTHER CLAIMS SHALL BE ENTERTAINED THEREAFTER.

**LEGENDS:-**

SR. NO.	SYMBOL	DESCRIPTION
1.	—	150Ø GI CLASS 'B' HYDRANT PIPE
2.	SH	SINGLE HEADED
3.	●	SINGLE HEADED YARD HYDRANT
4.	●	FIRE HOSE BOX WITH SET OF HOSE
5.	●	BRANCH PIPE & NOZZLE
6.	●	RUBBER FIRE HOSE (Ø63mm, 2Nos, 15m LENGTH)
7.	●	HOSE REEL, Ø20MM, 30M LONG
8.	SV	GATE/SLUICE VALVE WITH CHAMBER
9.	●	CO2 4.5 Kg. (CARBON DIOXIDE TYPE EXTINGUISHER)
10.	●	APFF 9.0 LTS. (AQUEOUS FILM FORMING FOAM TYPE EXTINGUISHER)
11.	*	PENDENT SPRINKLER

- POINTS TO BE NOTED:**
1. THE HYDRANT TO HYDRANT SPACING IS 45M AS PER IS13039 CL. 4.12.
  2. HOWEVER, HYDRANTS SHALL BE LOCATED BEARING IN MIND THE ATTENDANT FIRE HAZARDS, WHICH SHALL FOLLOW IS 13039 CL. 4.10 AND 4.11. SAME IS FOLLOWED IN THE DRAWING.
  3. PRESSURE AT THE HYDRAULICALLY REMOTE HYDRANT SHALL NOT BE LESS THAN 3.5 BAR AS PER NBC CL. 5.1.1(f).

ISSUE	DRN	DSN	CHD	CV	EL	IC	ME	PE/PM	APPD	DATE
15-08-2020										

**FOR TENDER PURPOSE ONLY**  
**DO NOT SCALE**

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CONSTRUCTION / FABRICATION WORK IS PERMITTED ON THE INFORMATION CONTAINED WITHIN HOLD IS NOT RELEASED FOR CONSTRUCTION / FABRICATION. FIELD MUST GET DESIGN OFFICE TO CLEAR HOLD IN TIME BEFORE PROCEEDING WITH ANY CONSTRUCTION / FABRICATION WORKS RELATED TO HOLD.  
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**GUWAHATI SMART CITY LIMITED**  
**GROUND FLOOR FPS LAYOUT**

**TATA CONSULTING ENGINEERS LIMITED**  
MUMBAI

SCALE: 1:100  
DATE: 15-08-2020

FILE NAME: TCE.10477A-ME-6041-FF-60101.dwg

TCE FORM NO. 001 (R)