

Detailed Engineering Design Report (DEDR) of Emergency Operation Center (SP7)



Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit (PIU)
Pokhara Metropolitan City, Kaski

July – 2026

Vol- I:	Main Report
Vol- II:	Annex
Vol- III:	Cost Estimate
Vol- IV:	Drawings

Design and Construction Supervision Consultant

Joint Venture

B. N. CONSULTANCY (Pvt) LTD.

BUILDING DESIGN AUTHORITY (P) LTD.

UDAYA CONSULTANCY (Pvt) Ltd

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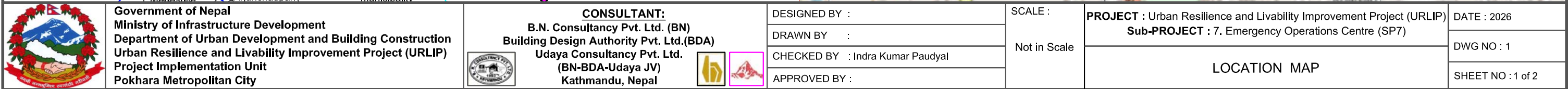
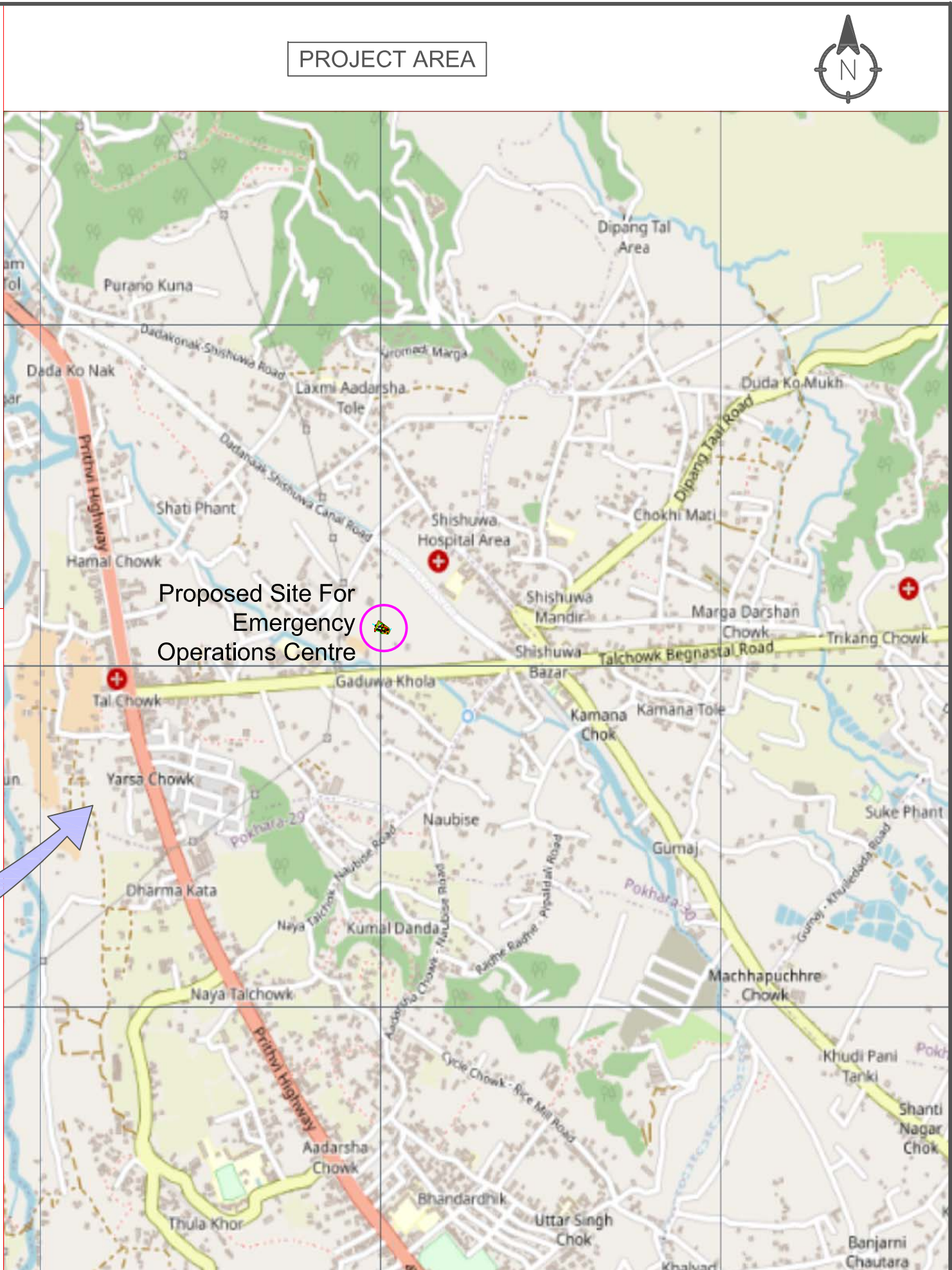
1. PROJECT MAPS

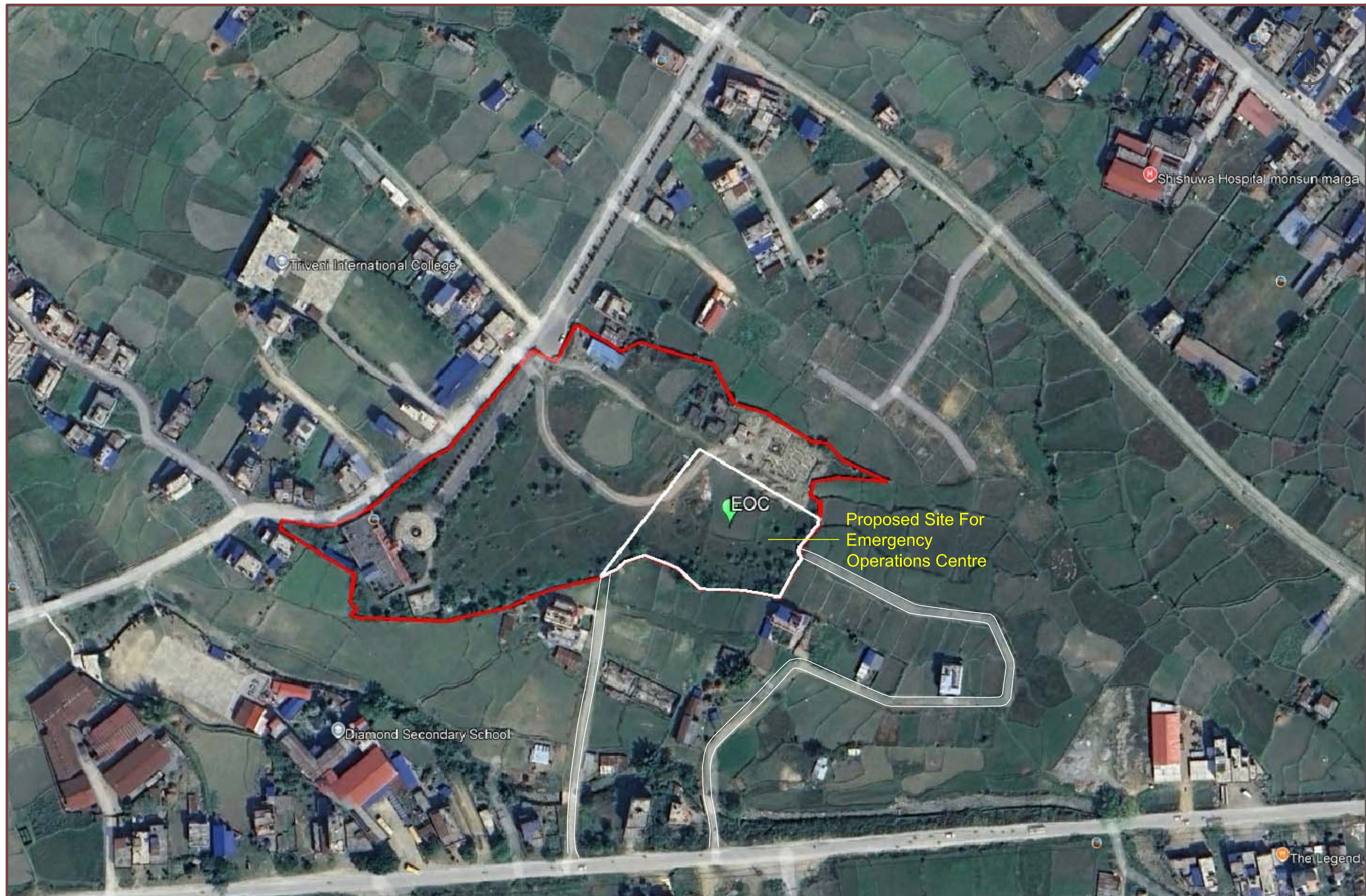
MAP OF NEPAL

The map displays the following provinces and their key features:

- SUDURPASHCHIM PROVINCE**: Located in the west, featuring cities like Darchula, Bhojpur, and Kailali.
- KARNALI PROVINCE**: Located in the northwest, featuring cities like Jumla and Dhangadhi.
- GANDAKI PROVINCE**: Located in the north-central region, featuring cities like Pokhara and Dhaulagiri.
- BAGMATI PROVINCE**: Located in the central region, featuring cities like Kathmandu and Lalitpur.
- LUMBINI PROVINCE**: Located in the south-central region, featuring cities like Bhairahawa and Butarahi.
- MADHESH PROVINCE**: Located in the south, featuring cities like Janakpur and Biratnagar.
- KOSHI PROVINCE**: Located in the east, featuring cities like Ilam and Jhapa.

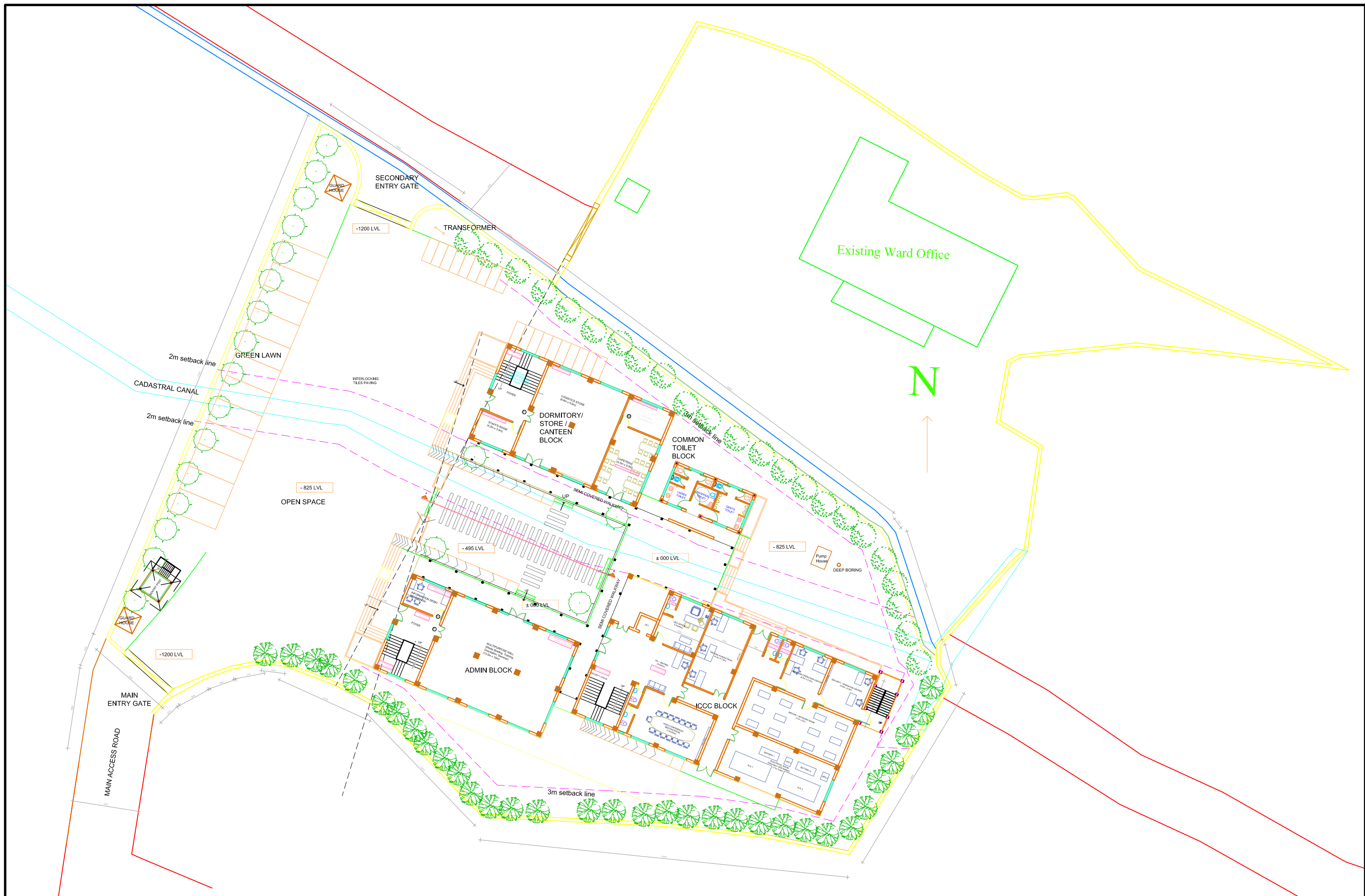
A large blue arrow points from the Kosi region towards the south, indicating the location of Kathmandu.





	Government of Nepal Ministry of Infrastructure Development Department of Urban Development and Building Construction Urban Resilience and Livability Improvement Project (URLIP) Project Implementation Unit Pokhara Metropolitan City		CONSULTANT: B.N. Consultancy Pvt. Ltd. (BN) Building Design Authority Pvt. Ltd.(BDA) Udaya Consultancy Pvt. Ltd. (BN-BDA-Udaya JV) Kathmandu, Nepal	 	DESIGNED BY :	SCALE : Not in Scale	PROJECT : Urban Resilience and Livability Improvement Project (URLIP) Sub-PROJECT : 7. Emergency Operations Centre (SP7)	DATE : 2025	
					DRAWN BY :			DWG NO : 1	
					CHECKED BY : Indra Kumar Paudyal			LOCATION MAP	SHEET NO : 2 of 2
					APPROVED BY :				

2. SITE PLAN



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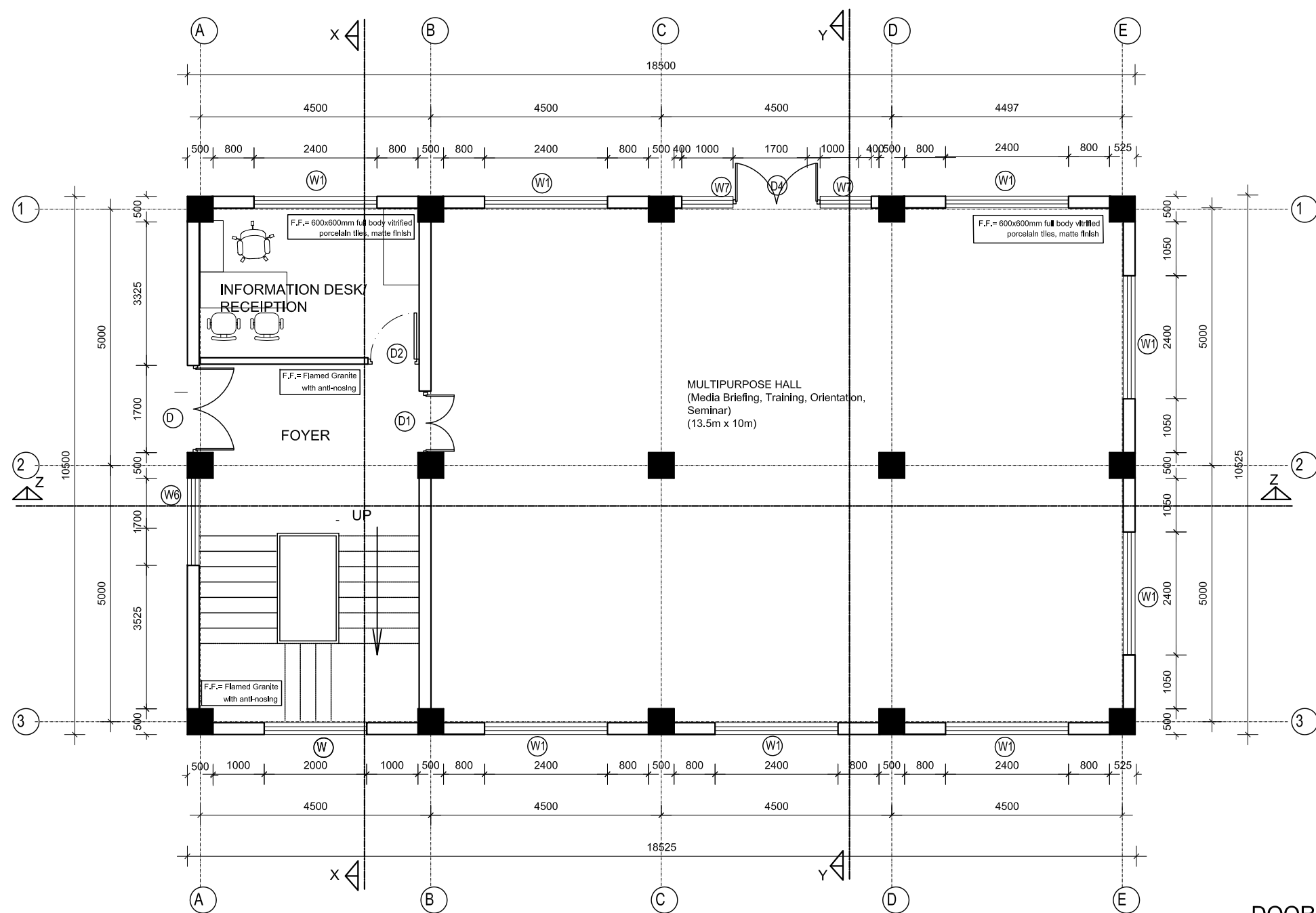
SCALE :
1:350

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

Proposed Master Plan of ICCC

DATE : 2026
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SHEET NO : 1 of 1

3. PROPOSED BUILDINGS

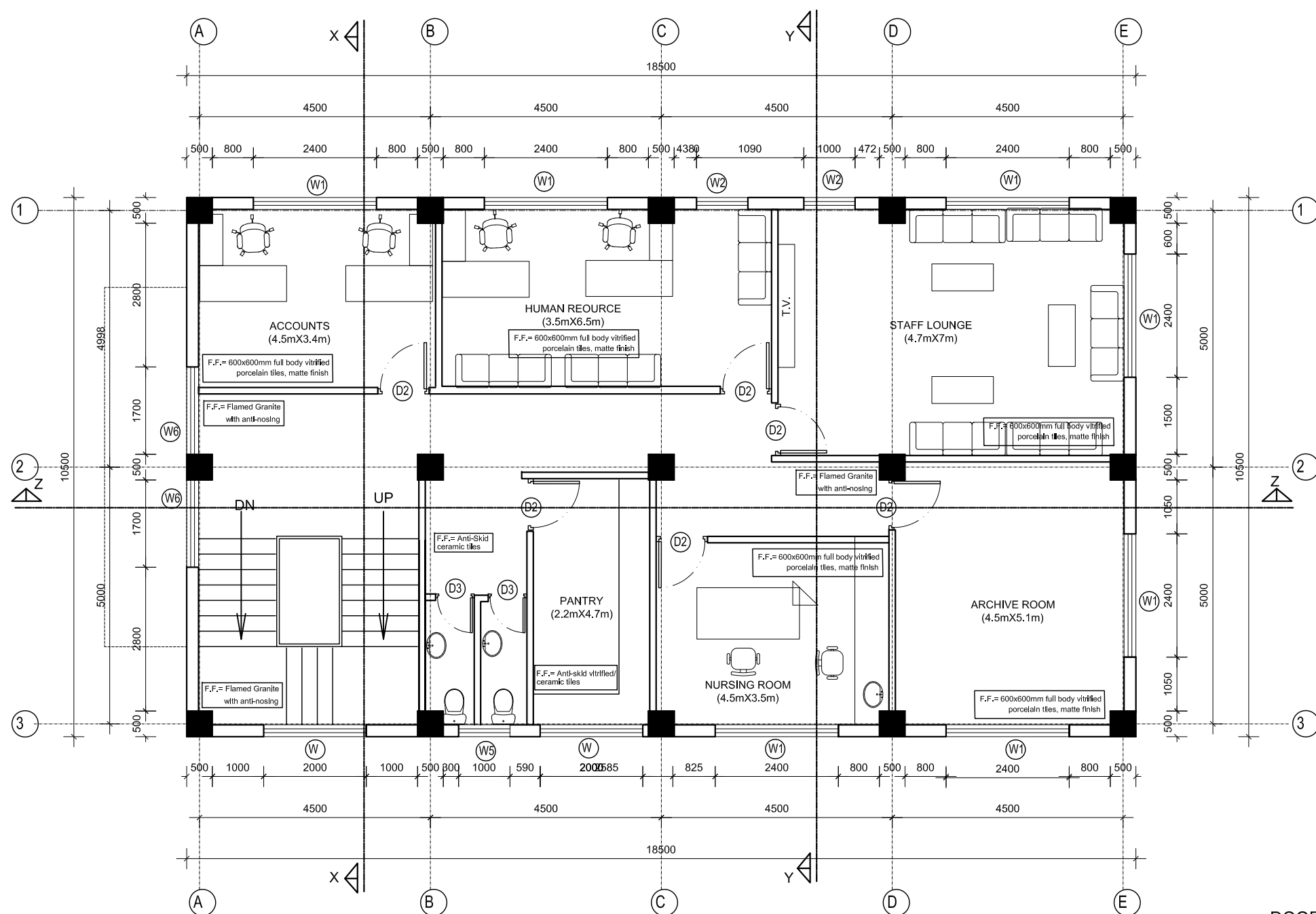


GROUND FLOOR PLAN
(Area: 192.80 sq.m.)

DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	No.	REMARKS
1	W	2000x1500	1	
2	W1	2400x1500	8	
3	W6	1700x2400	1	
4	W7	1000x2400	2	

S.N.	SYMBOL	SIZES	No.	REMARKS
1	D	1700x2400	1	
2	D1	1200x2400	1	
3	D2	1000x2400	1	



FIRST FLOOR PLAN
(Area: 192.80 sq.m.)

DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	No.	REMARKS
1	W	2000x1500	2	
2	W1	2400x1500	7	
3	W2	1000x1500	2	
4	W5	1000x600	1	
5	W6	1700X2400	2	

S.N.	SYMBOL	SIZES	No.	REMARKS
1	D2	1000x2400	6	
2	D3	750X2100	2	



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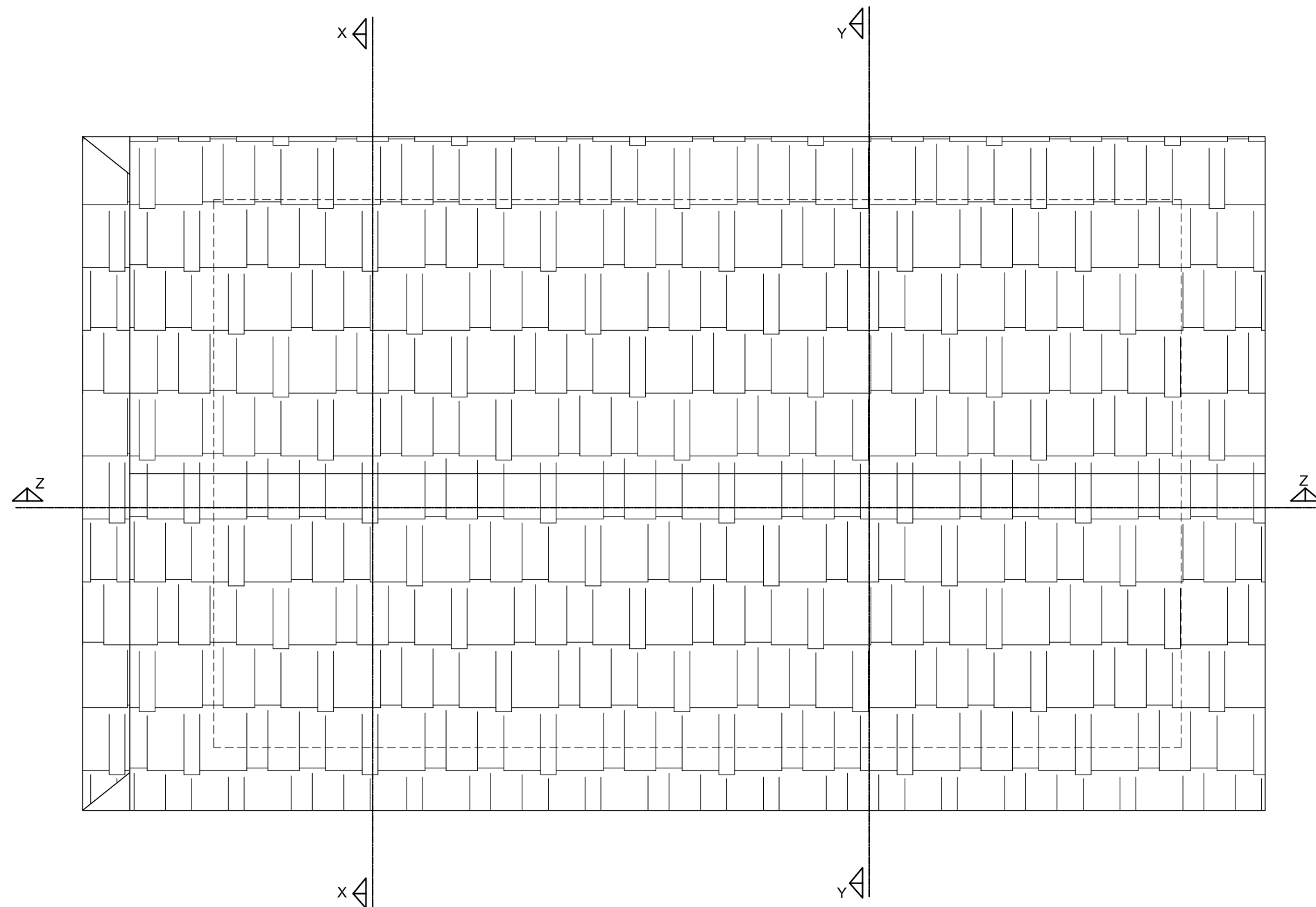
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SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

Administration Block Details

DATE : 2026
DWG NO : 3A
SHEET NO : 2 of 6



TOP FLOOR PLAN
(Area: 26.97 sq.m.)



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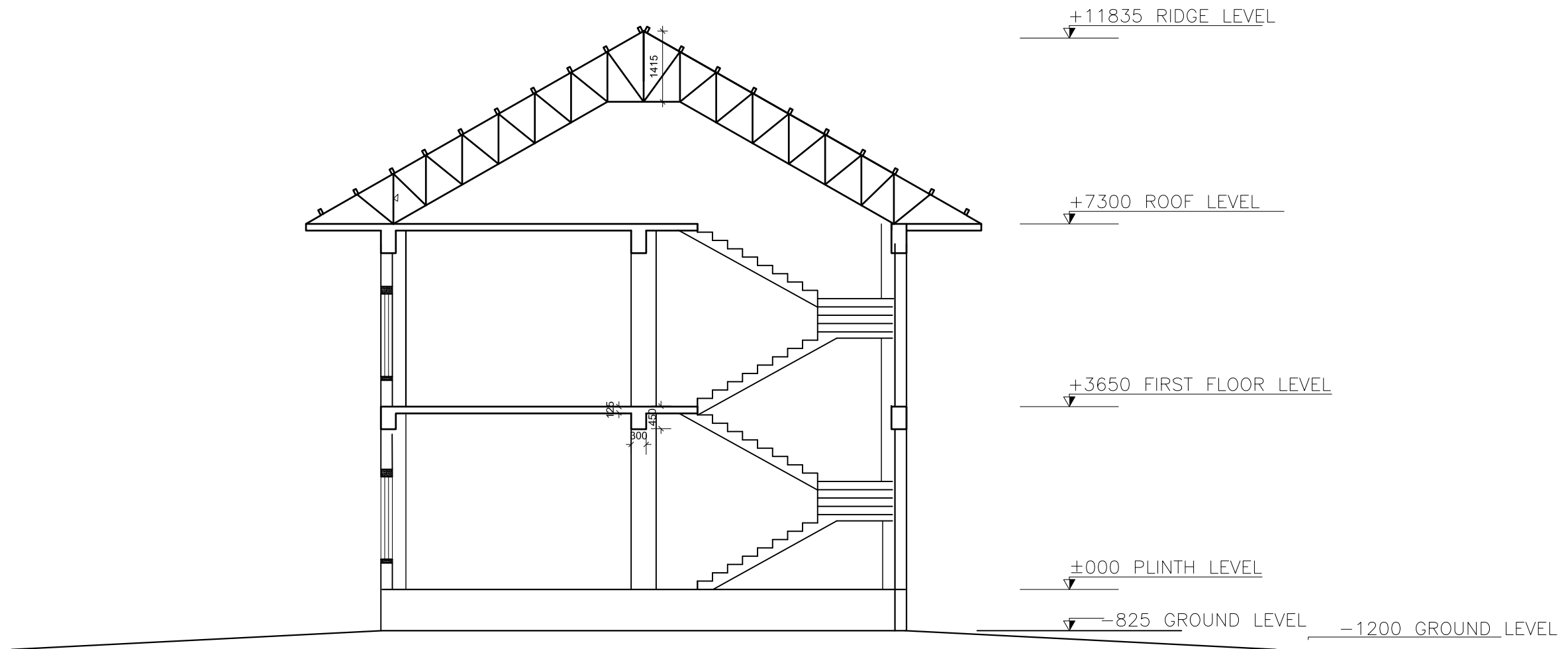
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SECTION AT X-X



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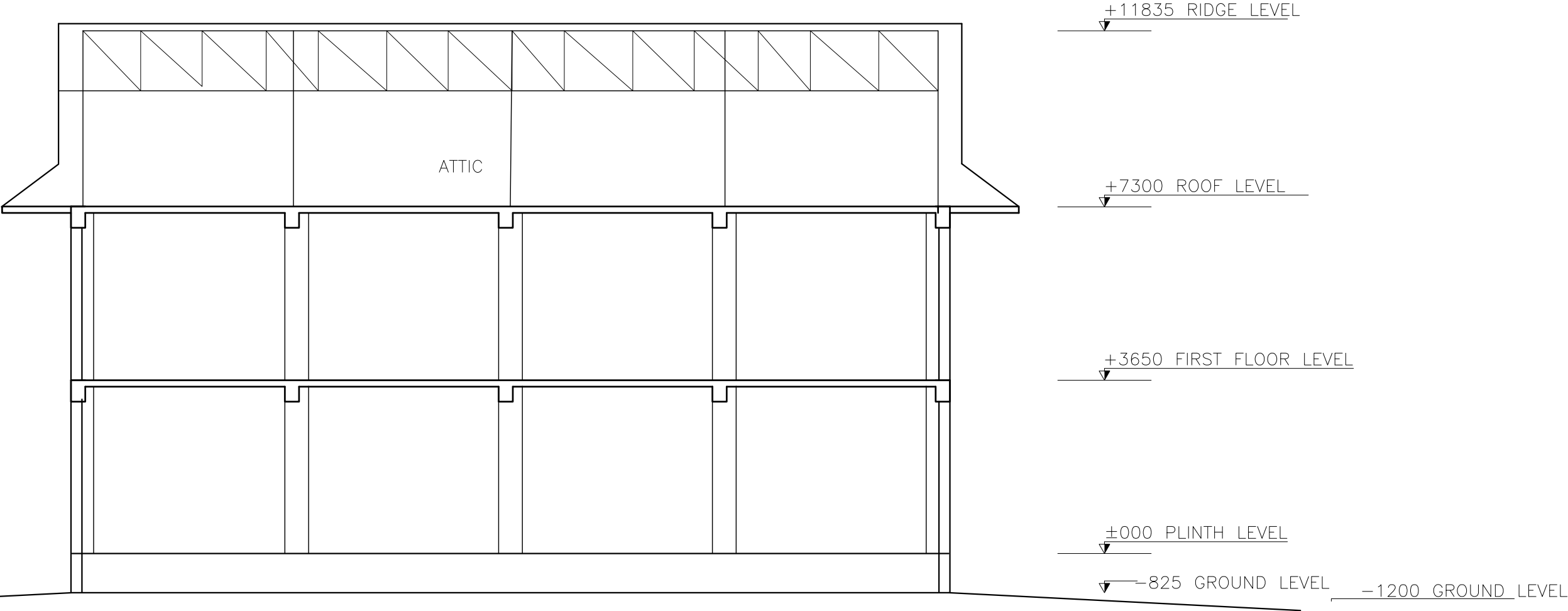
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Administration Block Details

DATE : 2026
DWG NO : 3A
SHEET NO : 4 of 6



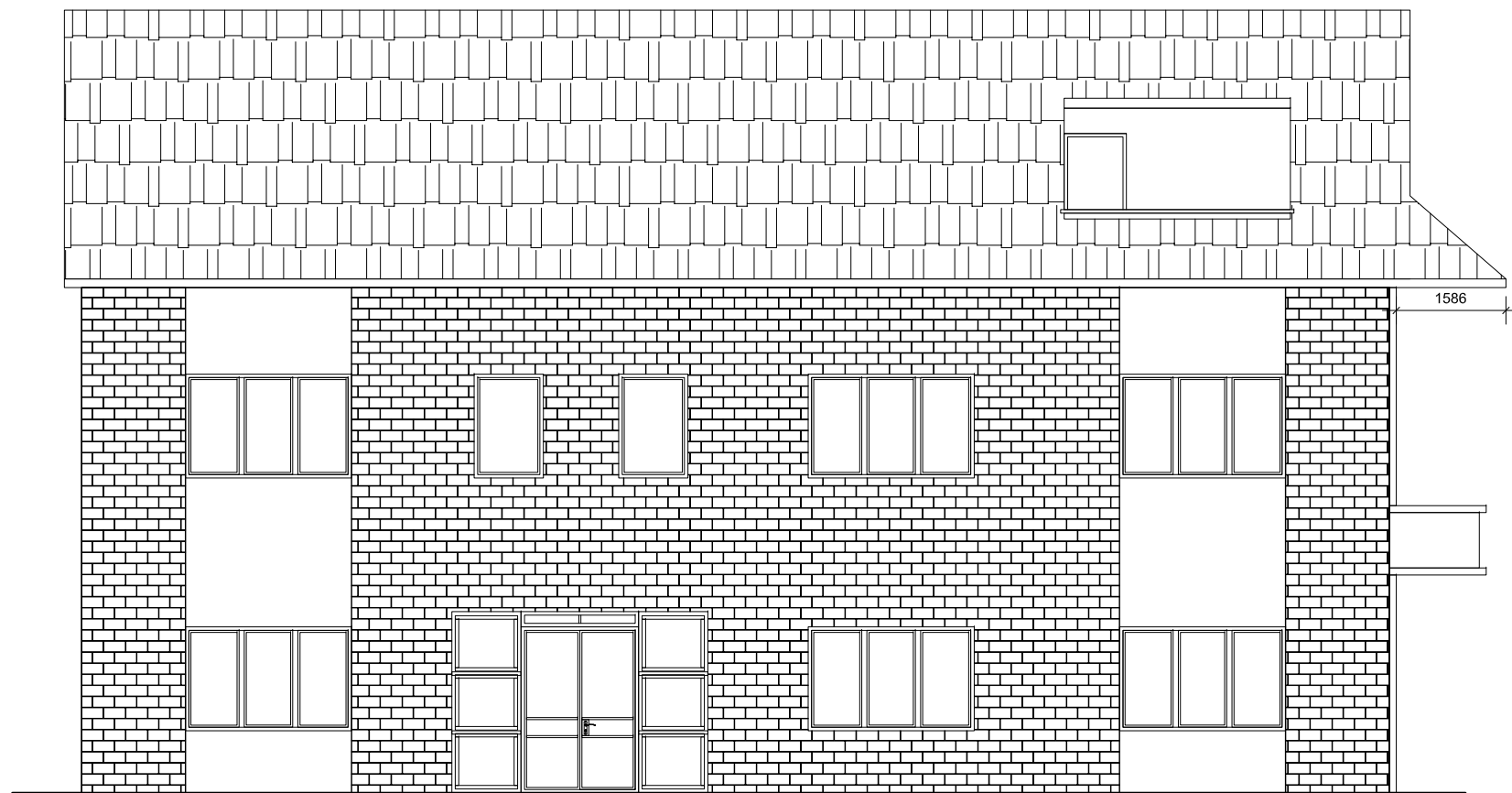
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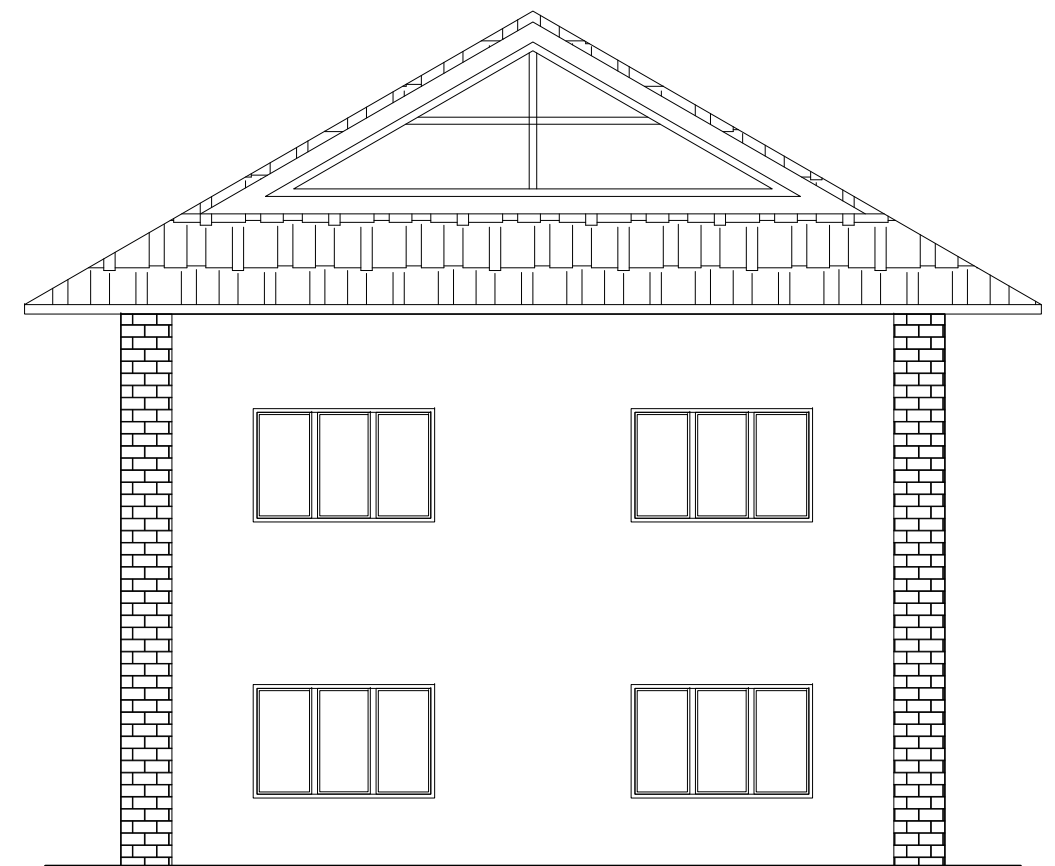
FRONT ELEVATION



SIDE ELEVATION



SIDE ELEVATION



BACK ELEVATION



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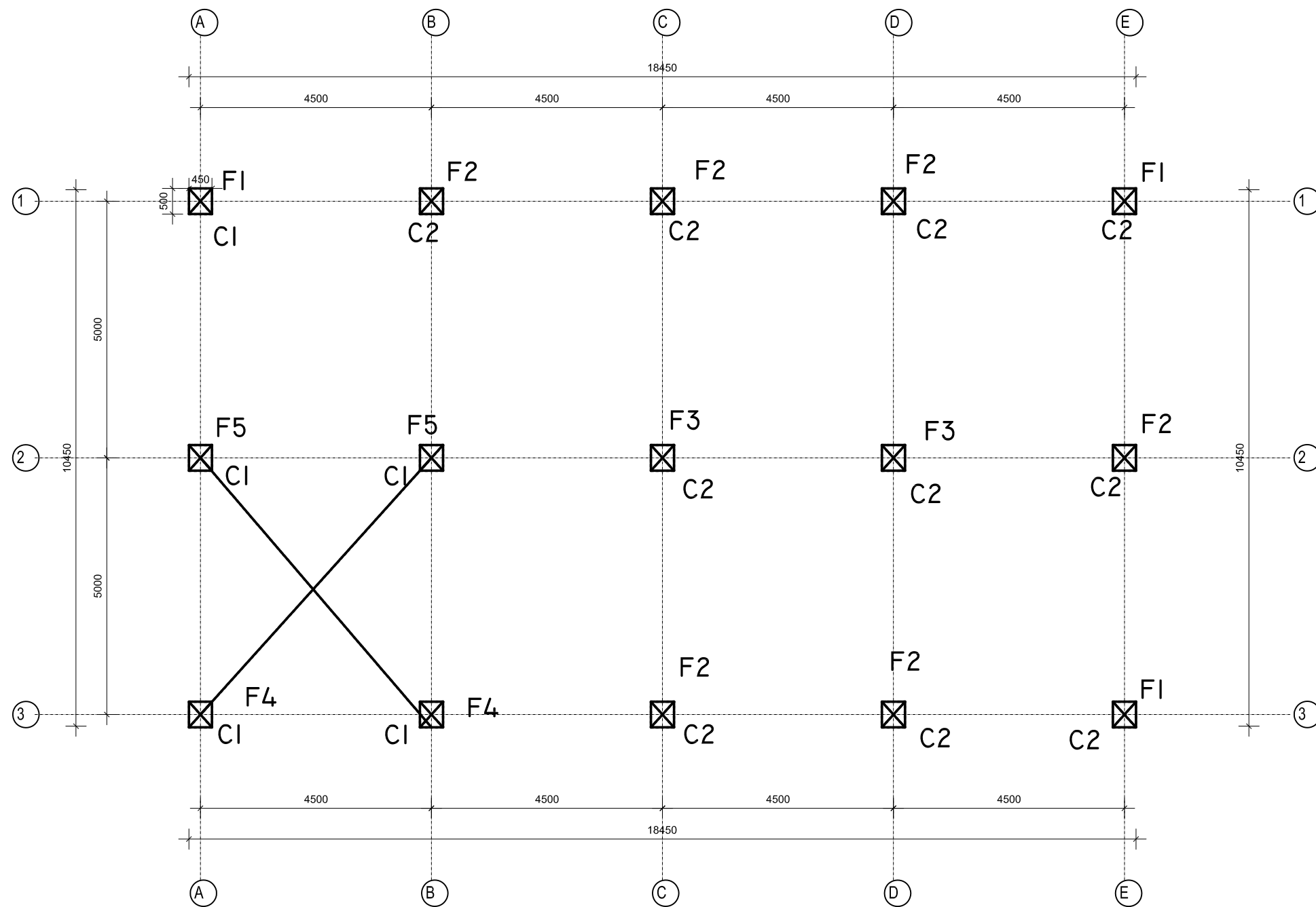
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Administration Block Details

DATE : 2026
DWG NO : 3A
SHEET NO : 6 of 6



FOUNDATION & COLUMN LAYOUT PLAN



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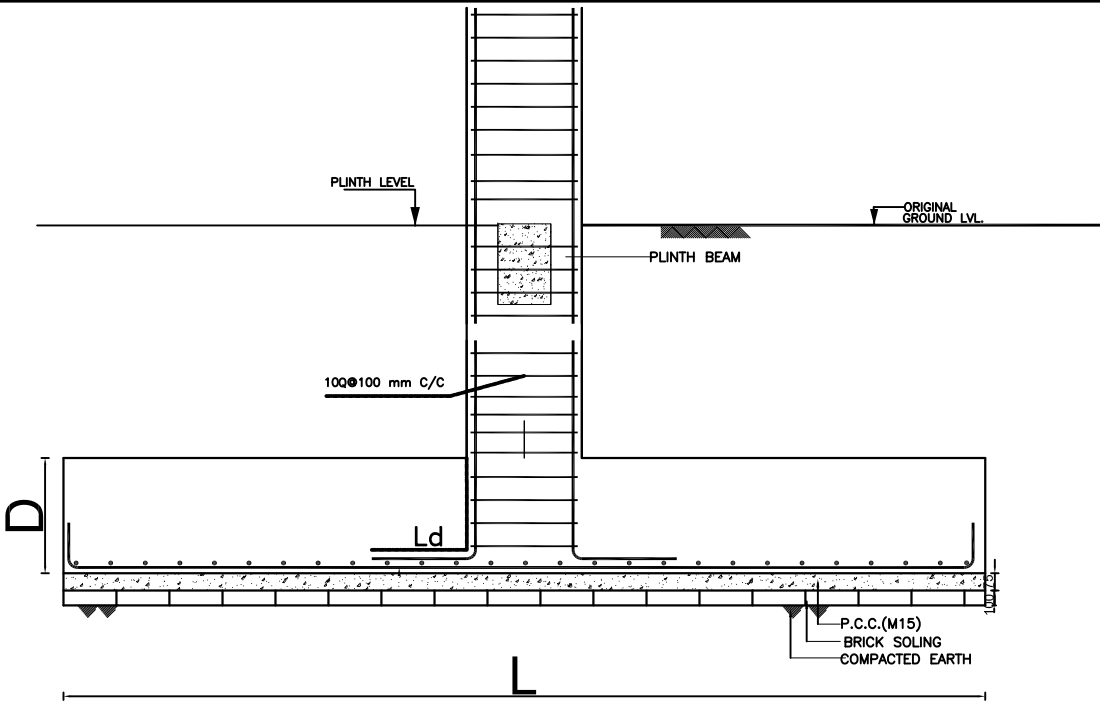


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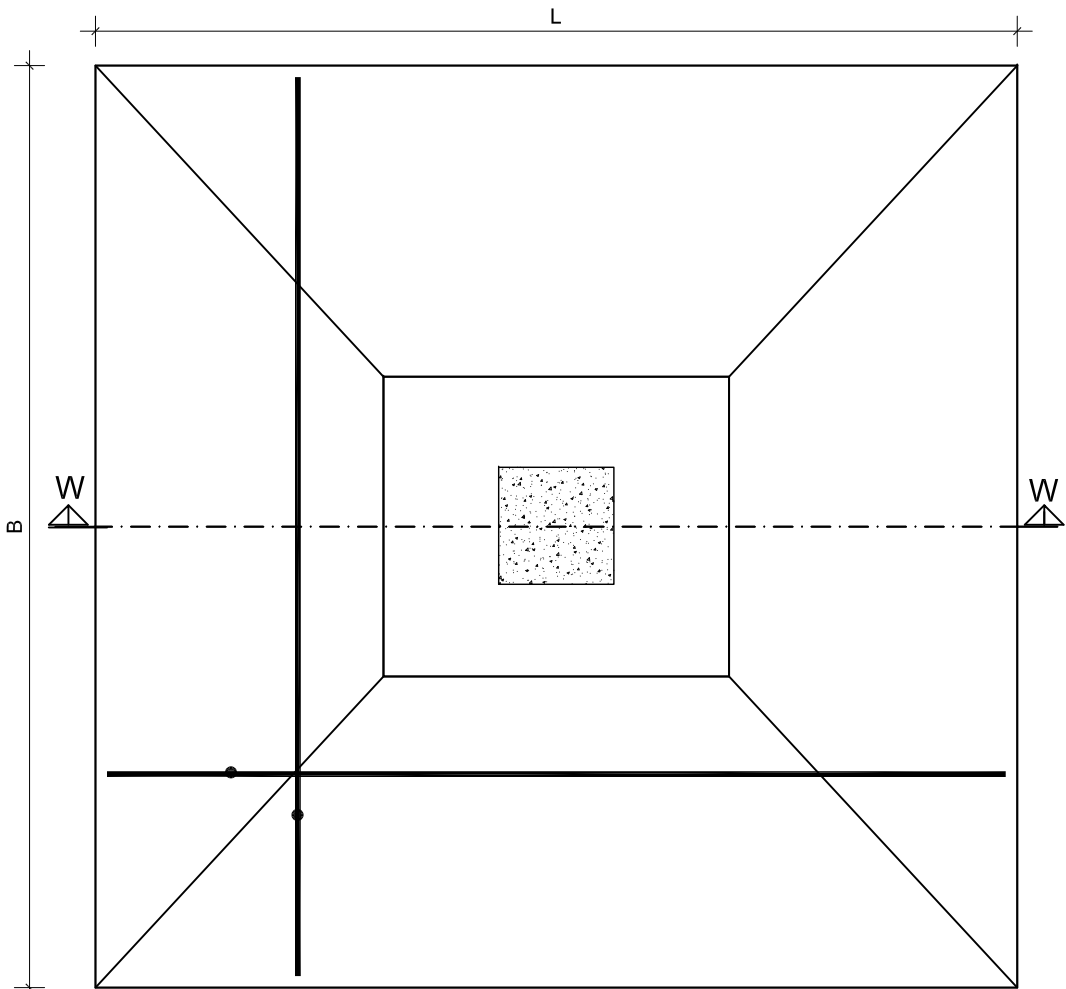
SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Administration/Dormitory Block
Reinforcement Details (Column)

DATE : 2026
DWG NO : 3A.2
SHEET NO : 1 of 13



SECTION AT WW



ISOLATED COLUMN FOOTING PLAN WITH REINFORCEMENT

TABLE OF ISOLATED COLUMN FOOTING DETAILS

S.NO	FOOTING TYPE	SIZE OF FOOTING		OVERALL DEPTH(D) (mm)	STEEL REINFORCEMENTS		ORIGINAL	FOUNDATION	FOUNDATION
		LENGTH	BREADTH		AST _L	AST _B	Plint Height	Depth from	DEPTH
		L(mm)	B(mm)				From OGL	Ground	DF (mm)
1	F1	1600	1600	400	12T@125C/C	12@125C/C		1500mm	
2	F2	2000	2000	450	12@125C/C	12@125C/C			
3	F3	2200	2200	500	12@125C/C	12@125C/C			
4	F4	2400	2400	500	12@125C/C	12@125C/C			
5	F5	2600	2600	600	12@125C/C	12@125C/C			

BEARING CAPACITY TAKEN = 200 KN/M2 AT 1.5M FROM OGL

NOTE

- 1- All Column 450X500
2- Main Beam 300X450
3- Secondary Beam 230x350
4- CONCRETE GRADE = M20
5- REBAR GRADE=Fe 500



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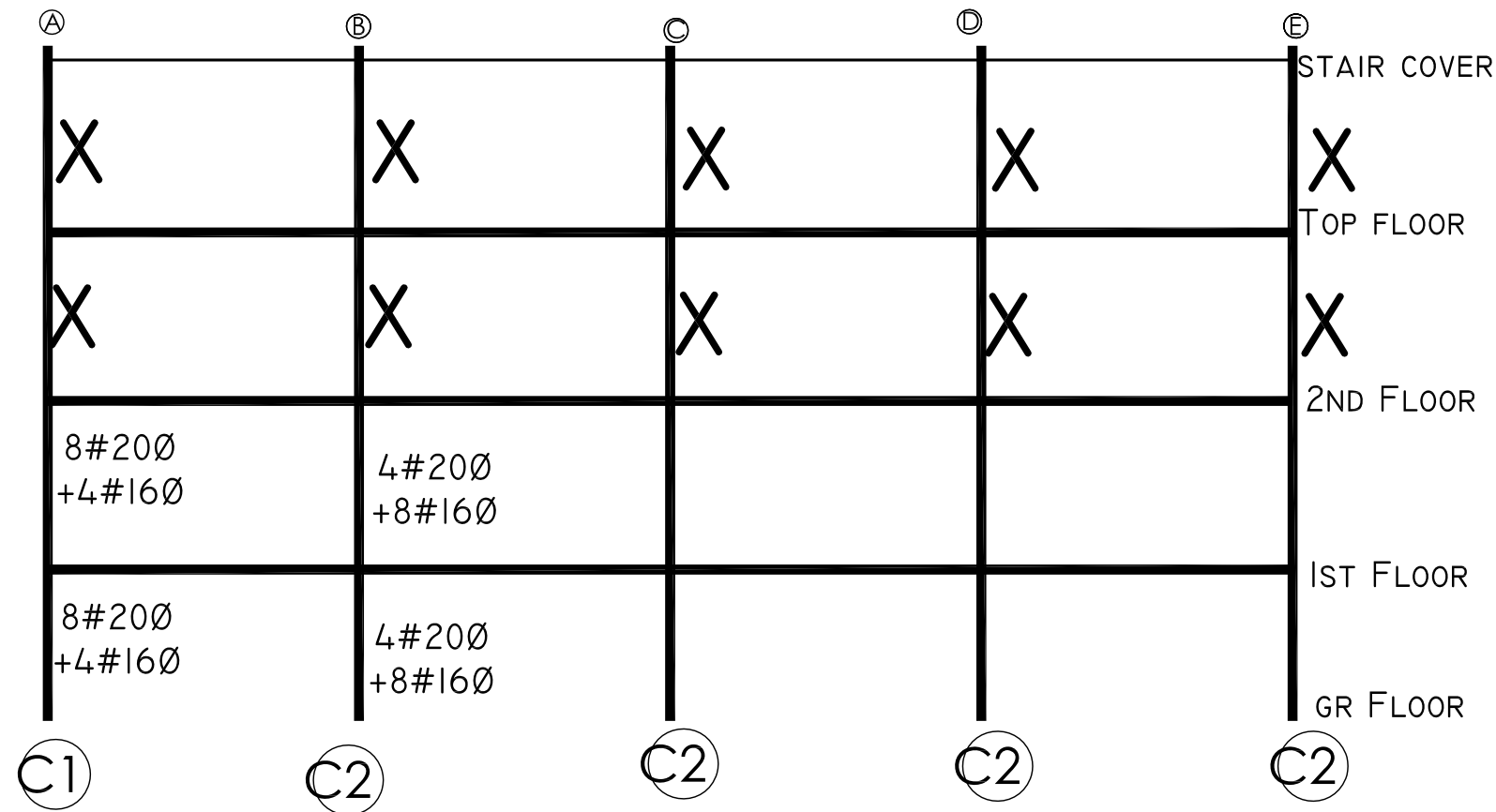
SCALE :

1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

Administration/Dormitory Block
Reinforcement Details (Column)

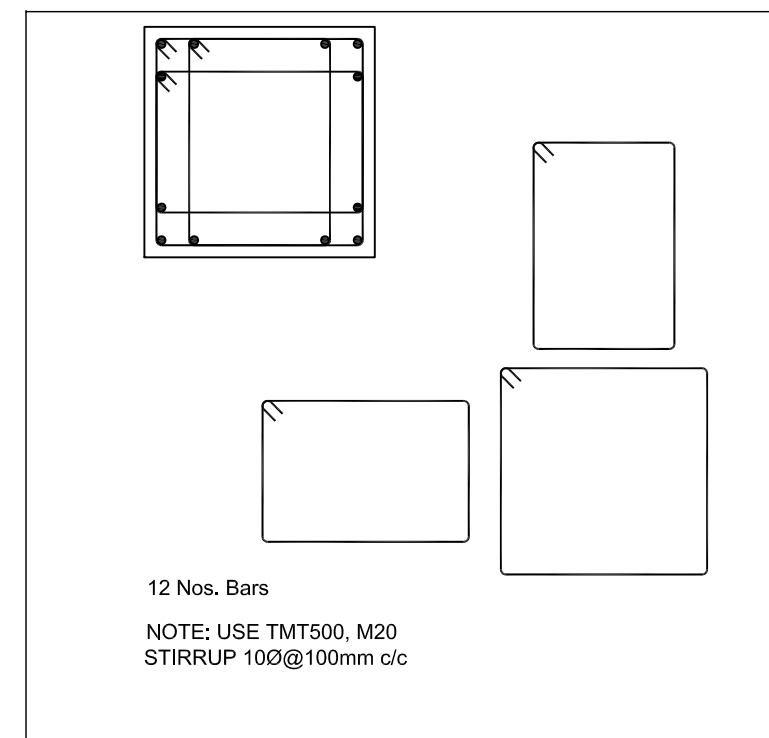
DATE : 2026
DWG NO : 3A.2
SHEET NO : 2 of 13



C 450x500 M20

GRID 1-1

COLUMN DETAILS



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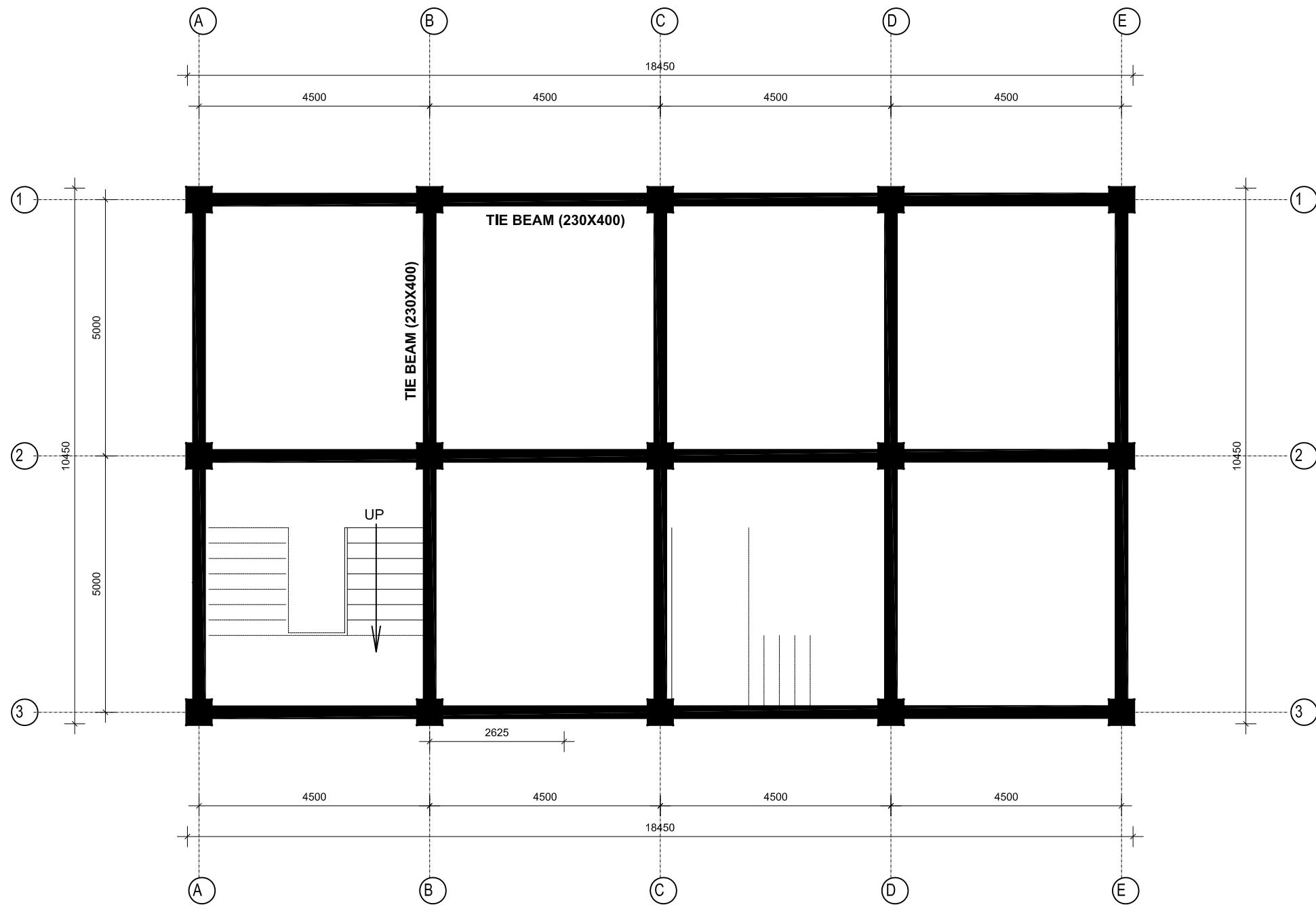


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SCALE :
1:100

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Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Administration/Dormitory Block
Reinforcement Details (Column)

DATE : 2026
DWG NO : 3A.2
SHEET NO : 3 of 13



PLINTH BEAM LAYOUT PLAN



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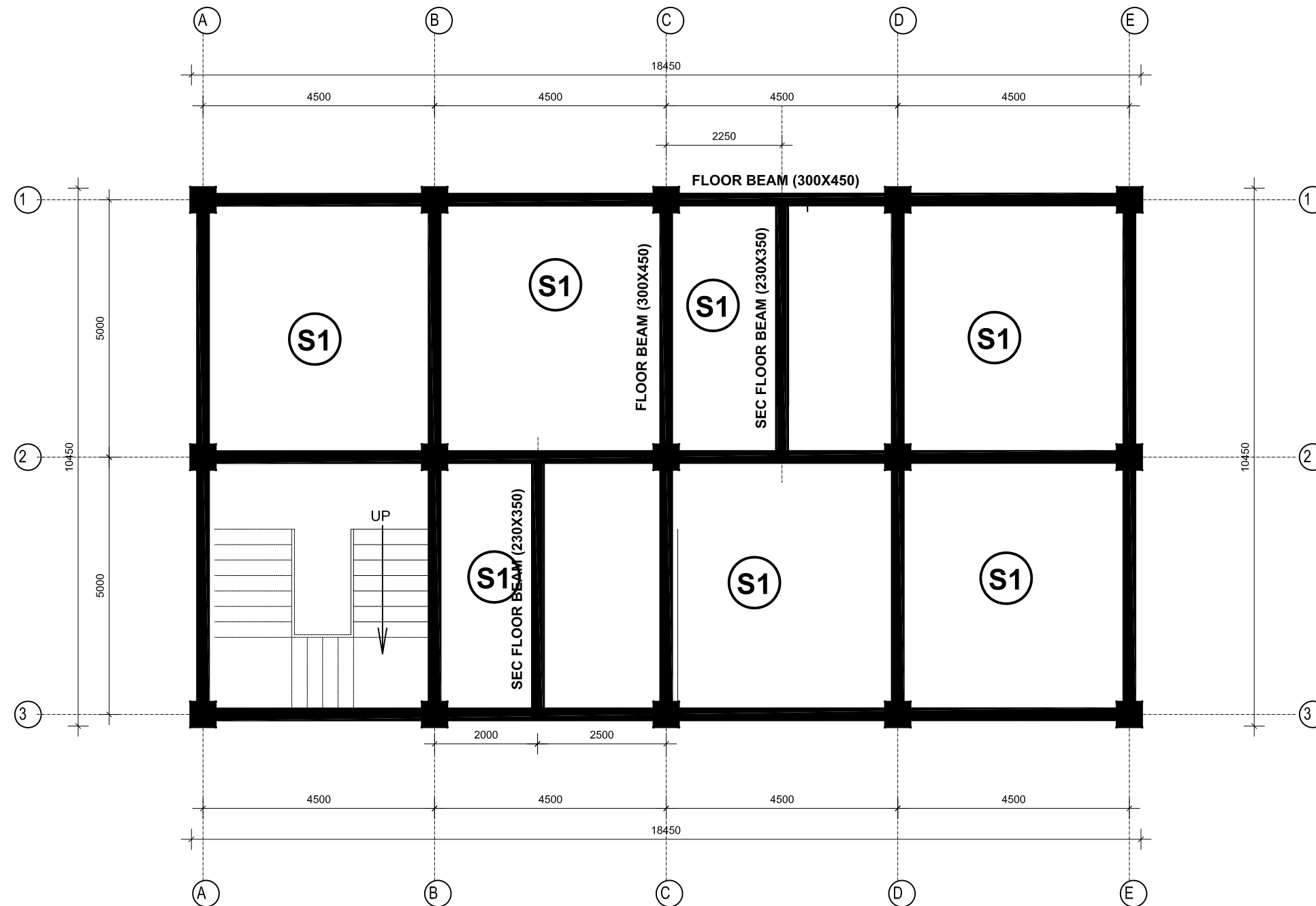


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SCALE :
1:100

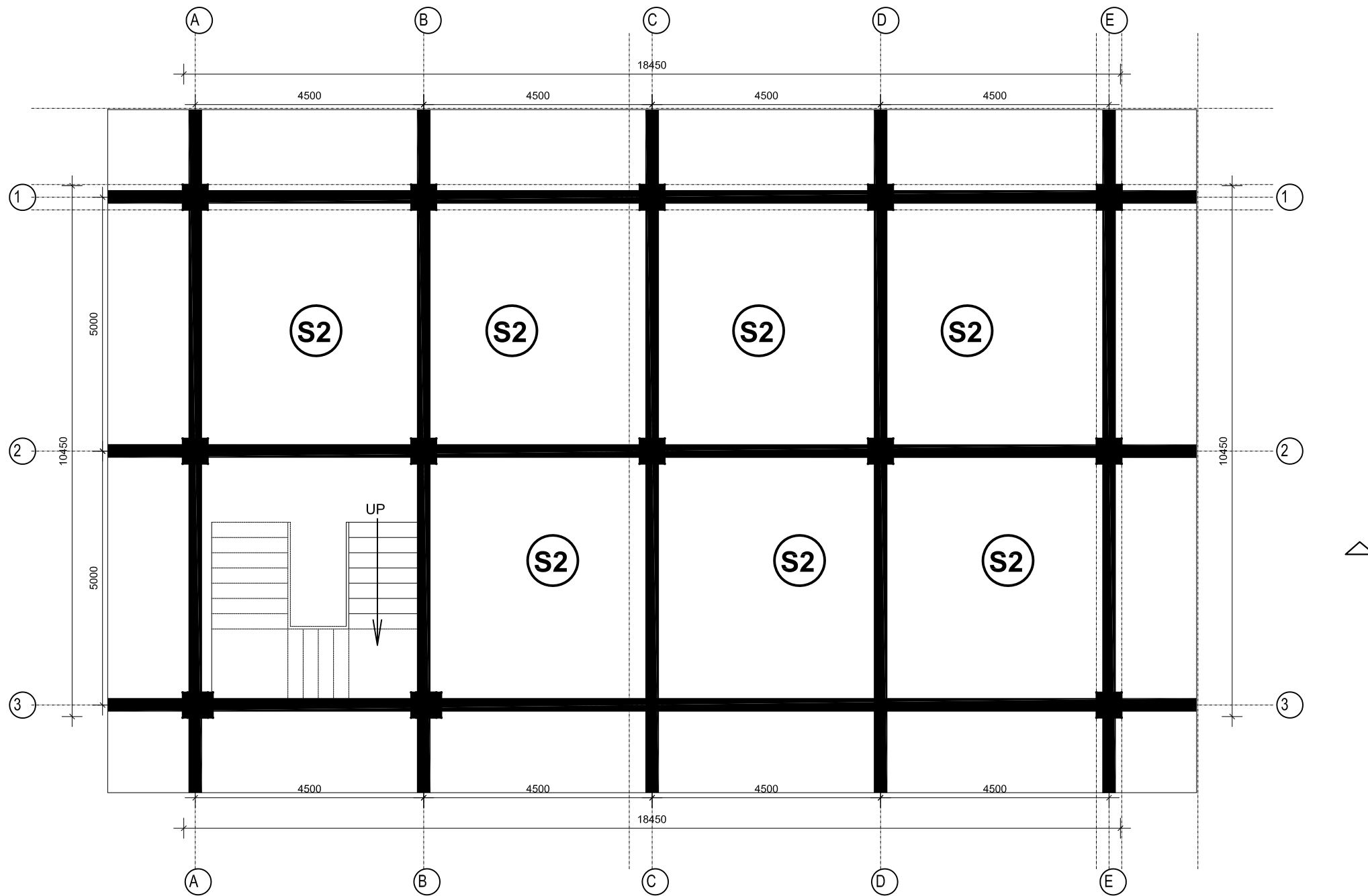
PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Administration/Dormitory Block
Reinforcement Details (Beam)

DATE : 2026
DWG NO : 3A.2
SHEET NO : 4 of 13



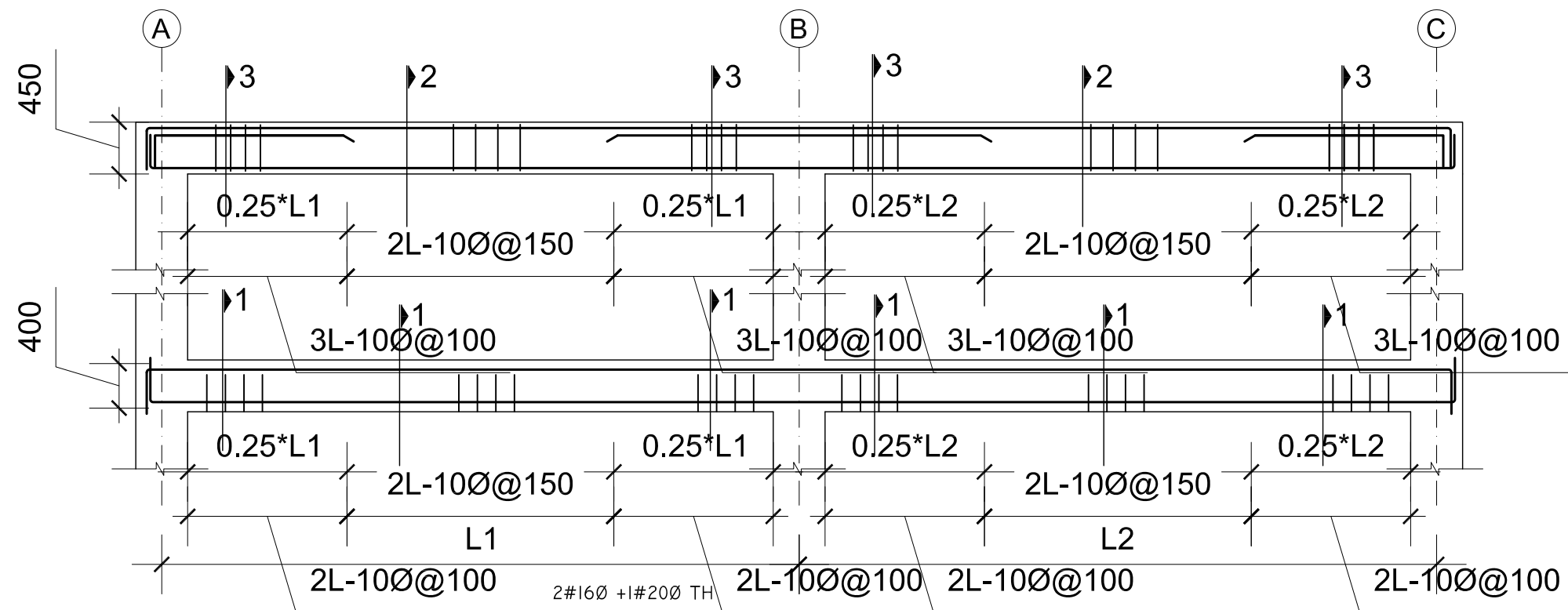
FIRST FLOOR BEAM PLAN

- NOTE :
- 1. Main Beam 300 x 450 M20
 - 2. Secondary Beam 230 x 350 M20 (Green)
 - 3. Slab S1 = 135mm M20

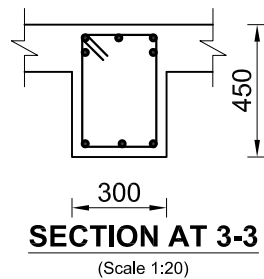
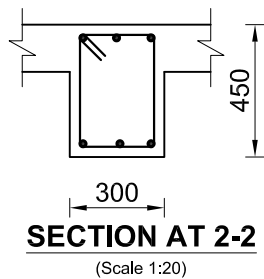
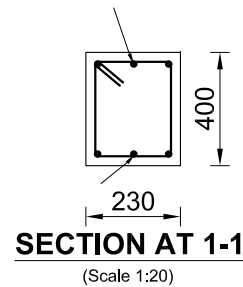


ROOF BEAM PLAN

- NOTE :
- 1. Main Beam 350 x 450 M20
 - 2. Slab S2 = 135mm M20



L-SECTION ALONG GRID (SCALE 1:40)



SEC BEAM 230*350 M25(GREEN)

3#16Ø
3#16Ø All Floor
2L-10Ø @100mm c/c (at ends)
2L-10Ø @150mm c/c (at mid)

PLINTH BEAM 230*400 M25

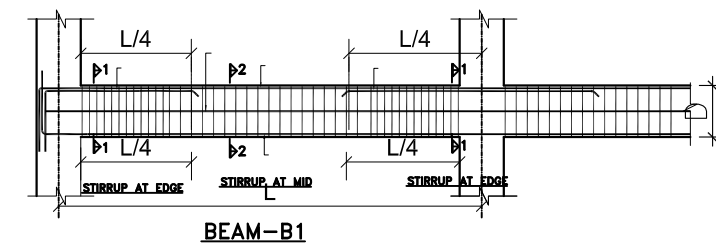
2#16Ø +1#20Ø
2#16Ø +1#20Ø All Floor
2L-10Ø @100mm c/c (at ends)
2L-10Ø @150mm c/c (at mid)

NOTE:

BEAM STIRRUP:

1ST FLOOR: 3L-10Ø @100mm c/c (at ends)
3L-10Ø @150mm c/c (at mid)

TERRACE : 2L-10Ø @100mm c/c (at ends)
2L-10Ø @150mm c/c (at mid)



UNLESS OTHERWISE STATED



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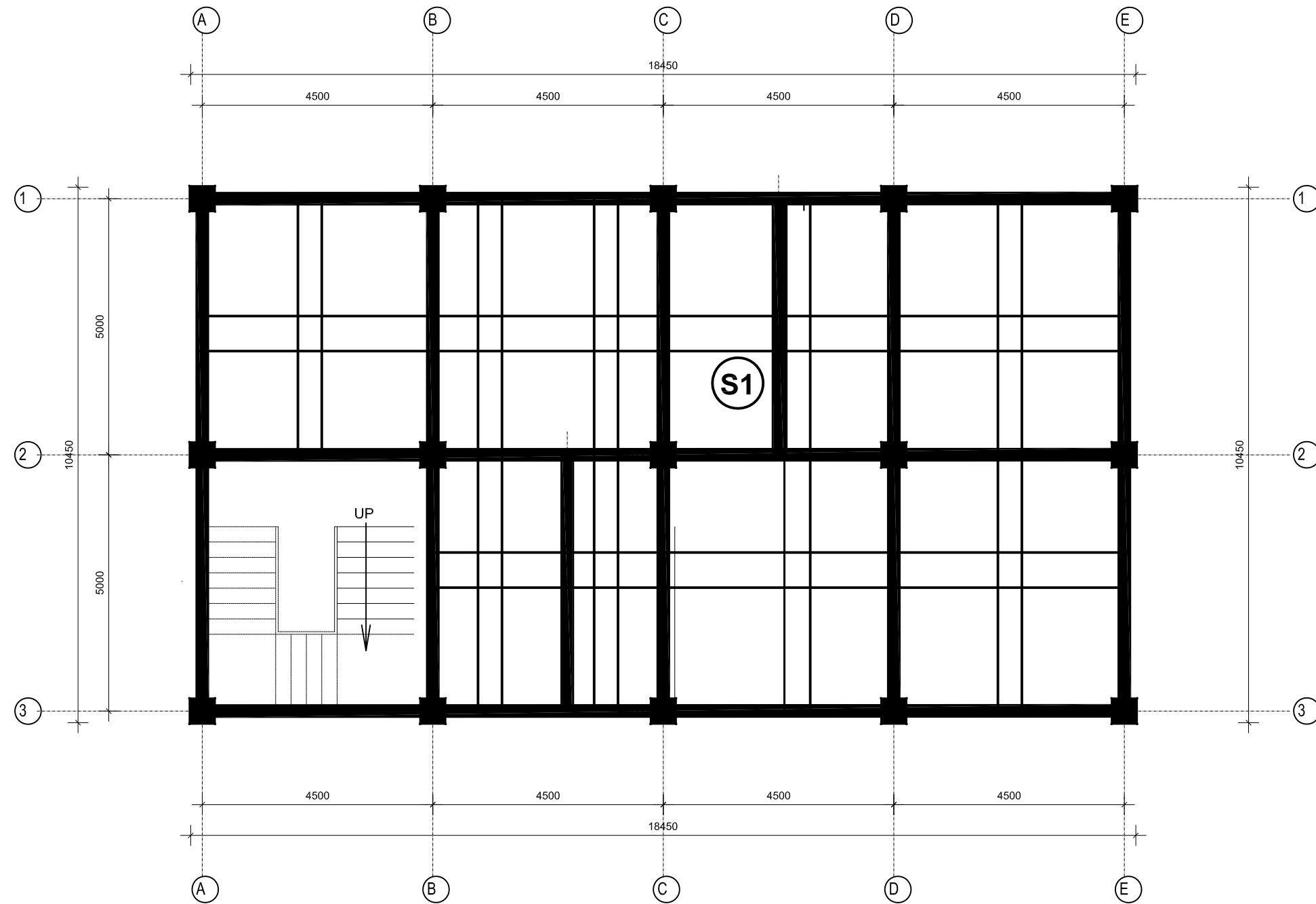


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SCALE :
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Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Administration/Dormitory Block
Reinforcement Details (Beam)

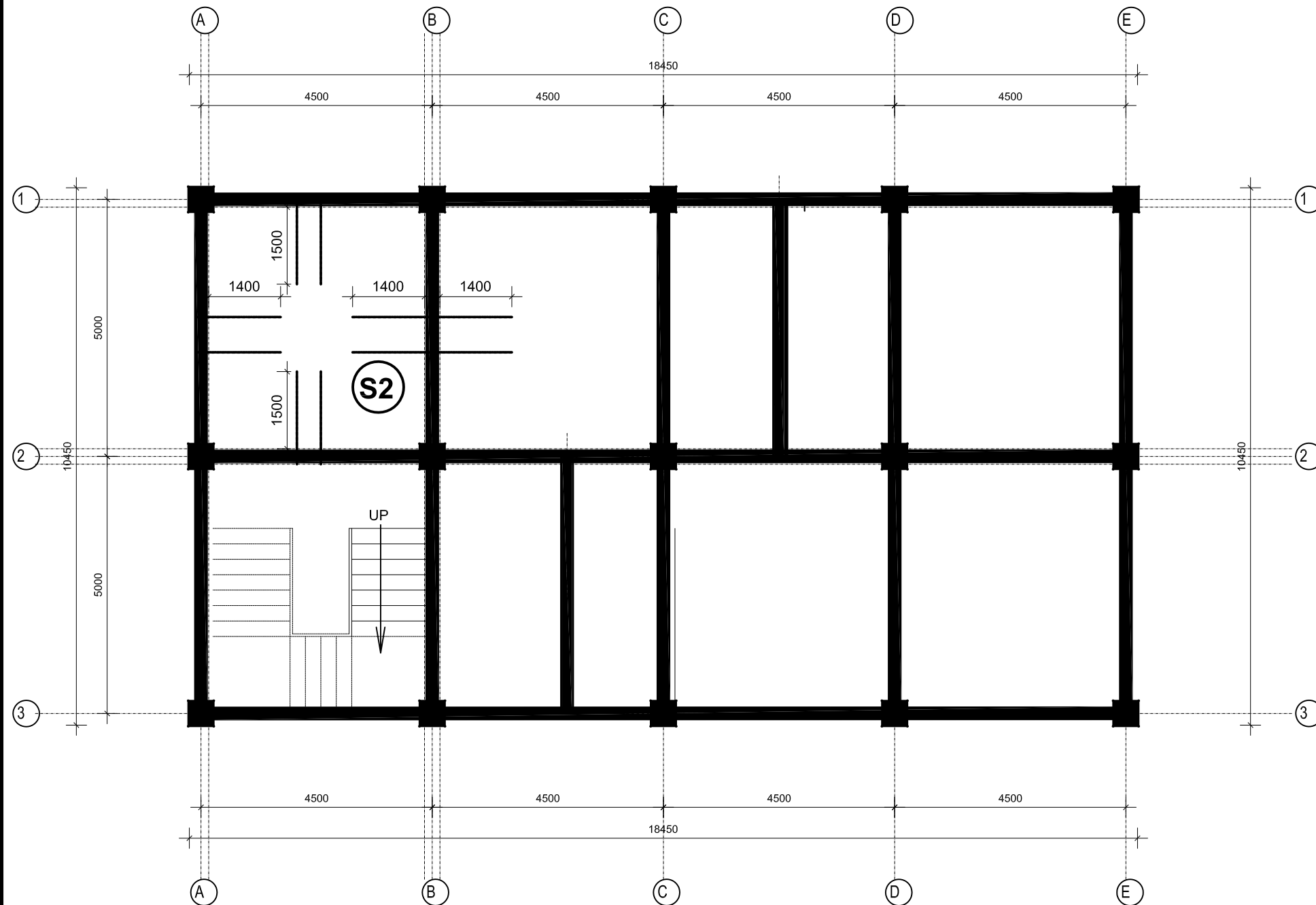
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SHEET NO : 7 of 13



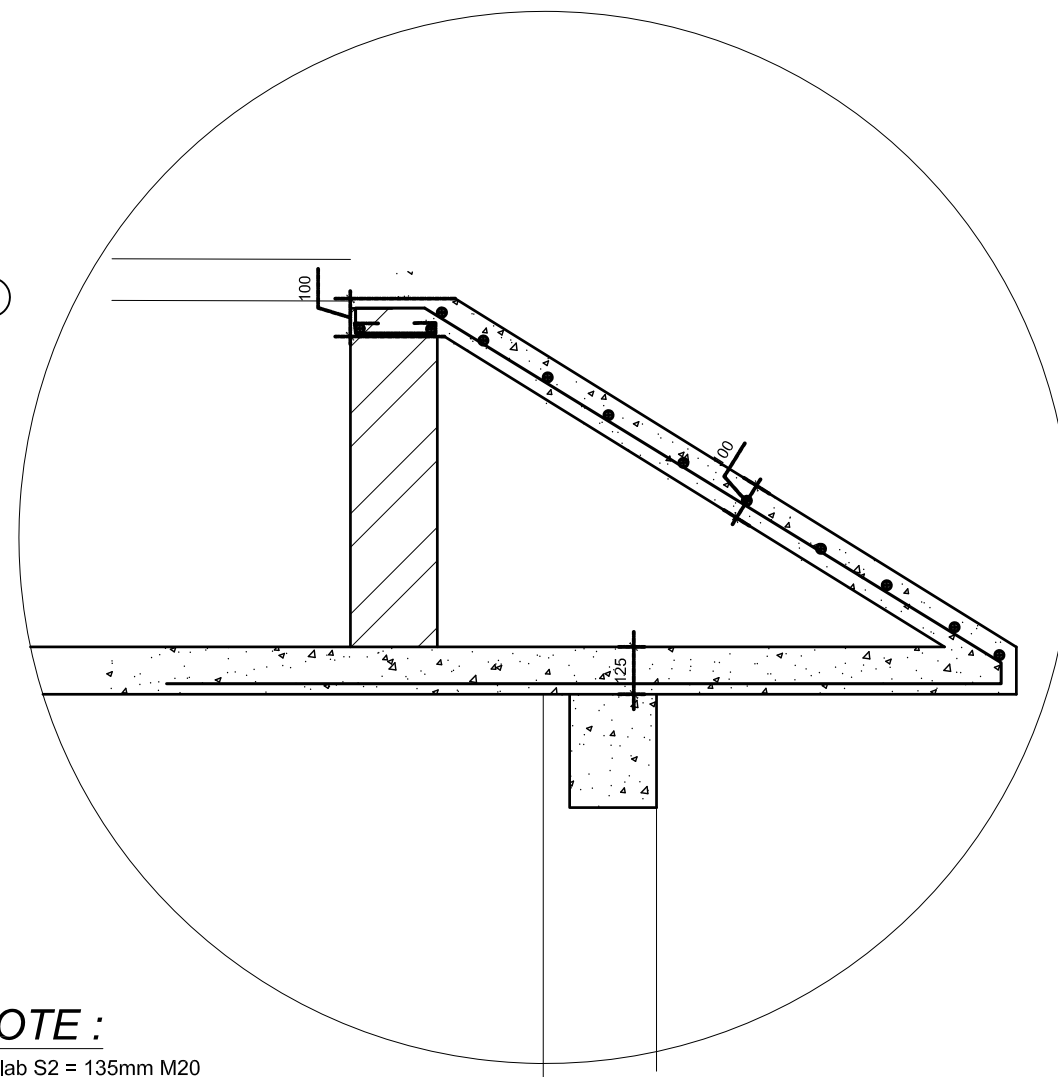
FIRST & SECOND FLOOR SLAB PLAN
BOTTOM BAR LAYOUT

NOTE :

1. Slab S1 = 135mm M20

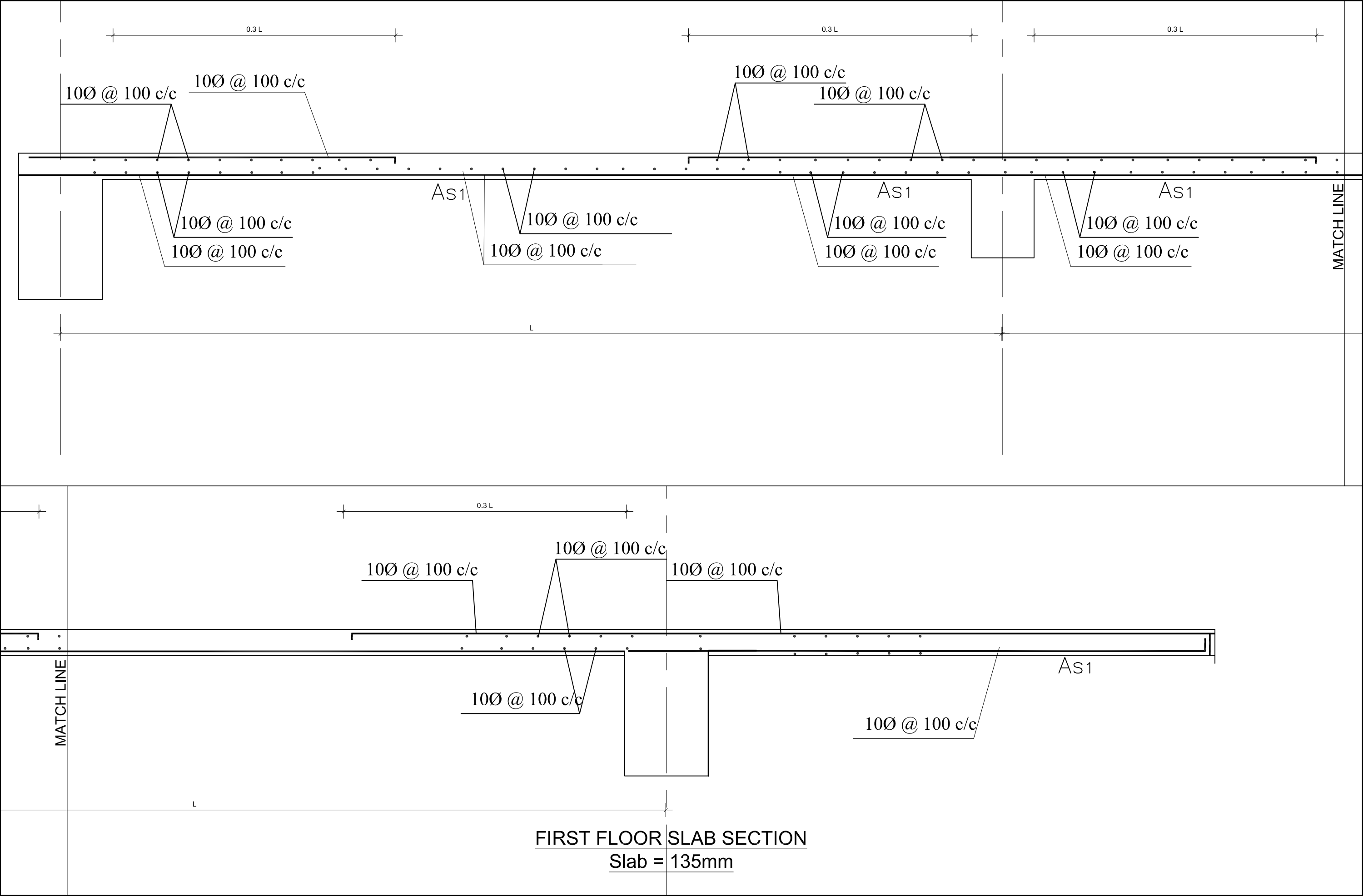


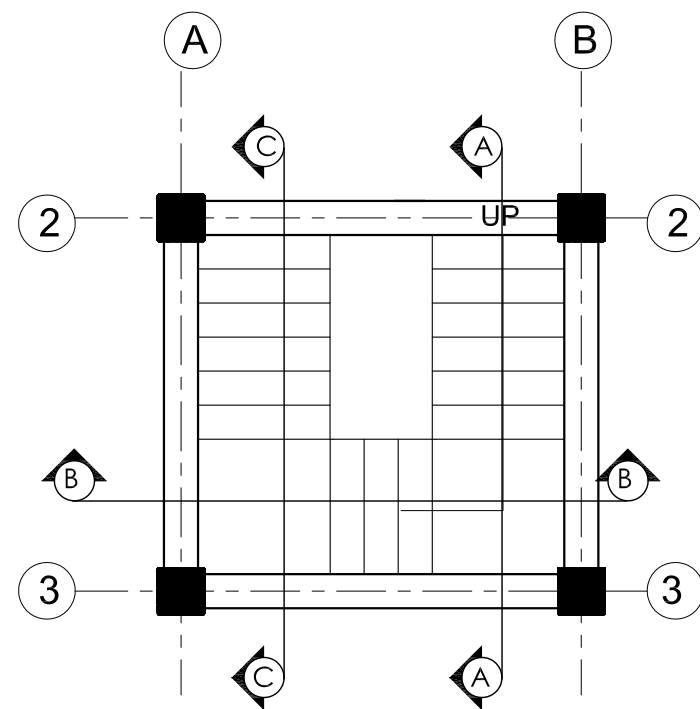
FIRST & SECOND FLOOR SLAB PLAN
TOP BAR LAYOUT



NOTE :

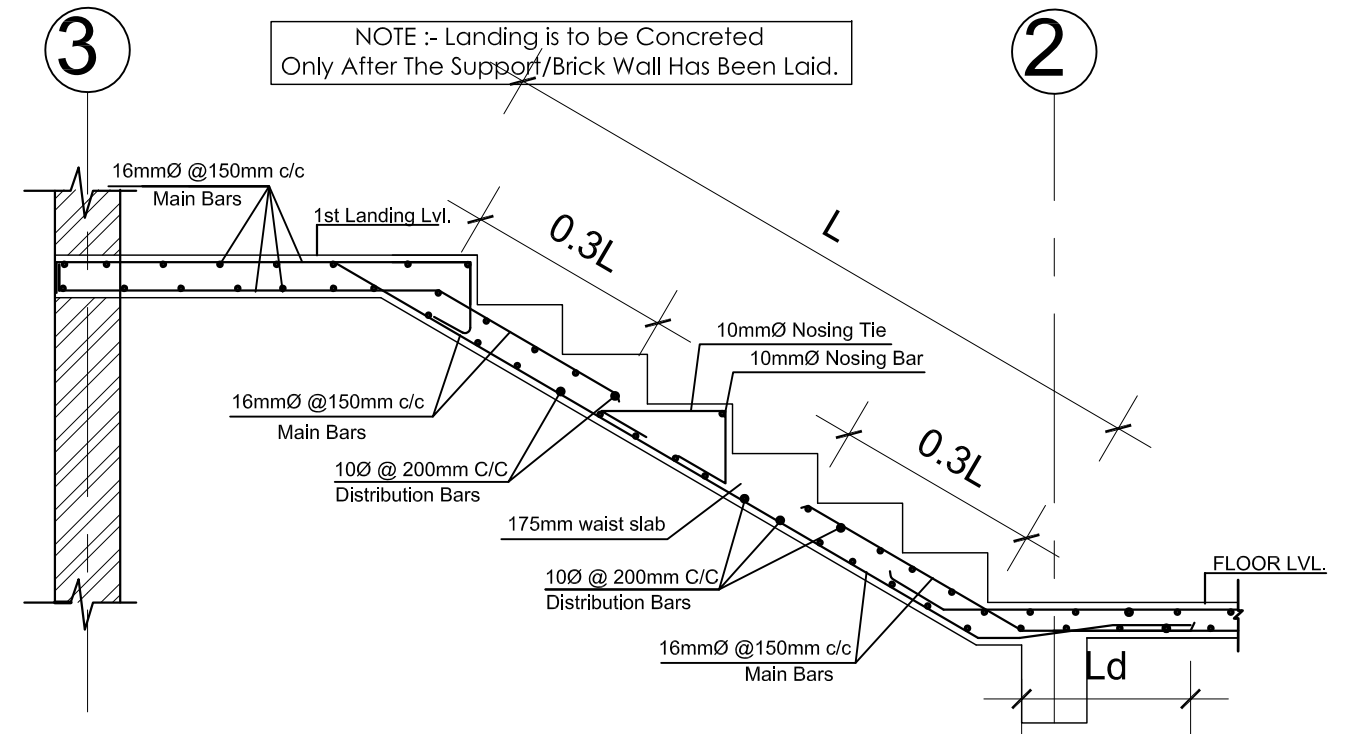
1. Slab S2 = 135mm M20



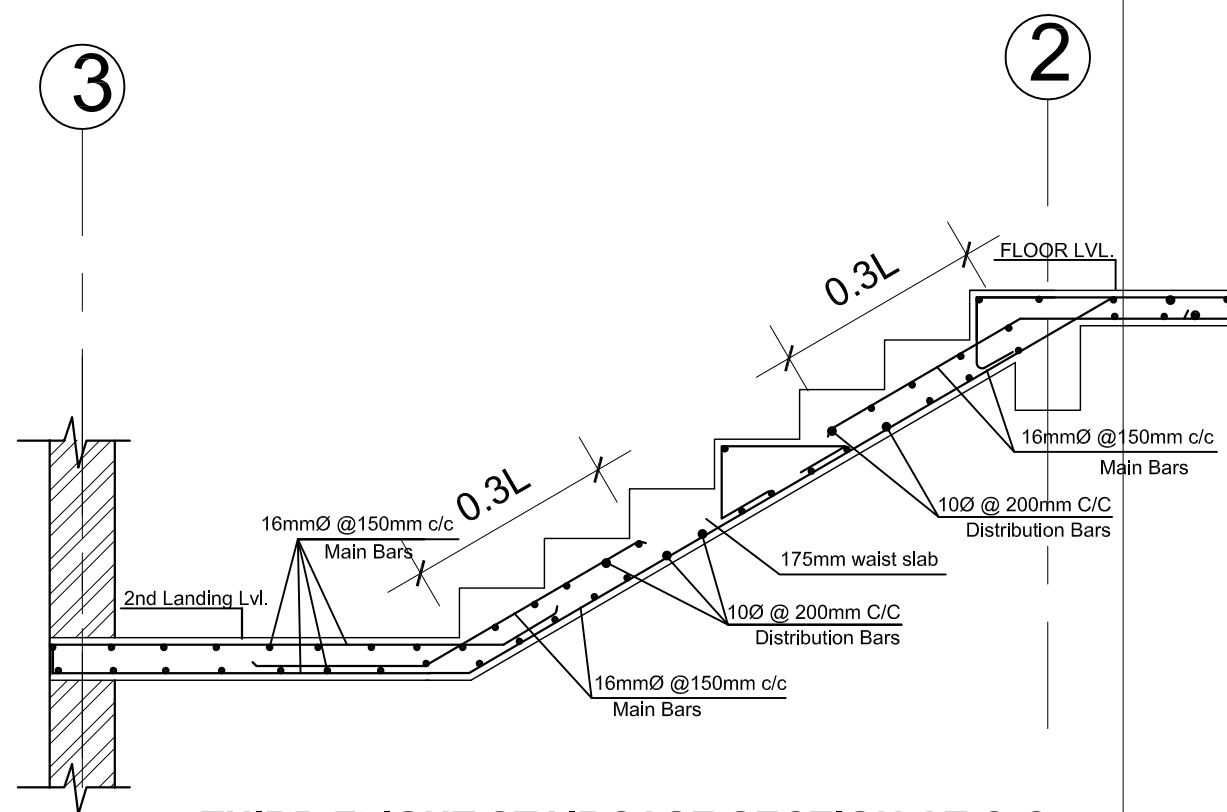


STAIRCASE DETAIL PLAN
Scale 1:100

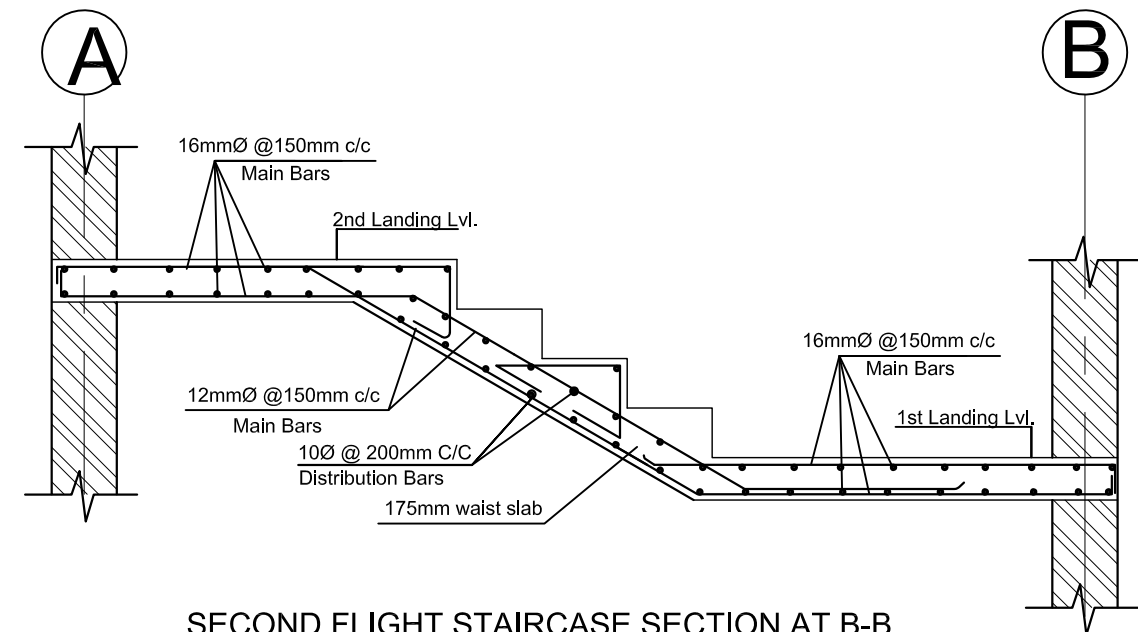
STAIRCASE DETAILS



FIRST FLIGHT STAIRCASE SECTION AT A-A
(WAIST SLAB THICKNESS 175mm)
SCALE 1:40



THIRD FLIGHT STAIRCASE SECTION AT C-C
(WAIST SLAB THICKNESS 175mm)
SCALE 1:25



SECOND FLIGHT STAIRCASE SECTION AT B-B
(WAIST SLAB THICKNESS 175mm)
SCALE 1:40

NOTE :
4. Concrete Grade = M25
5. Rebar Grade = Fe 500



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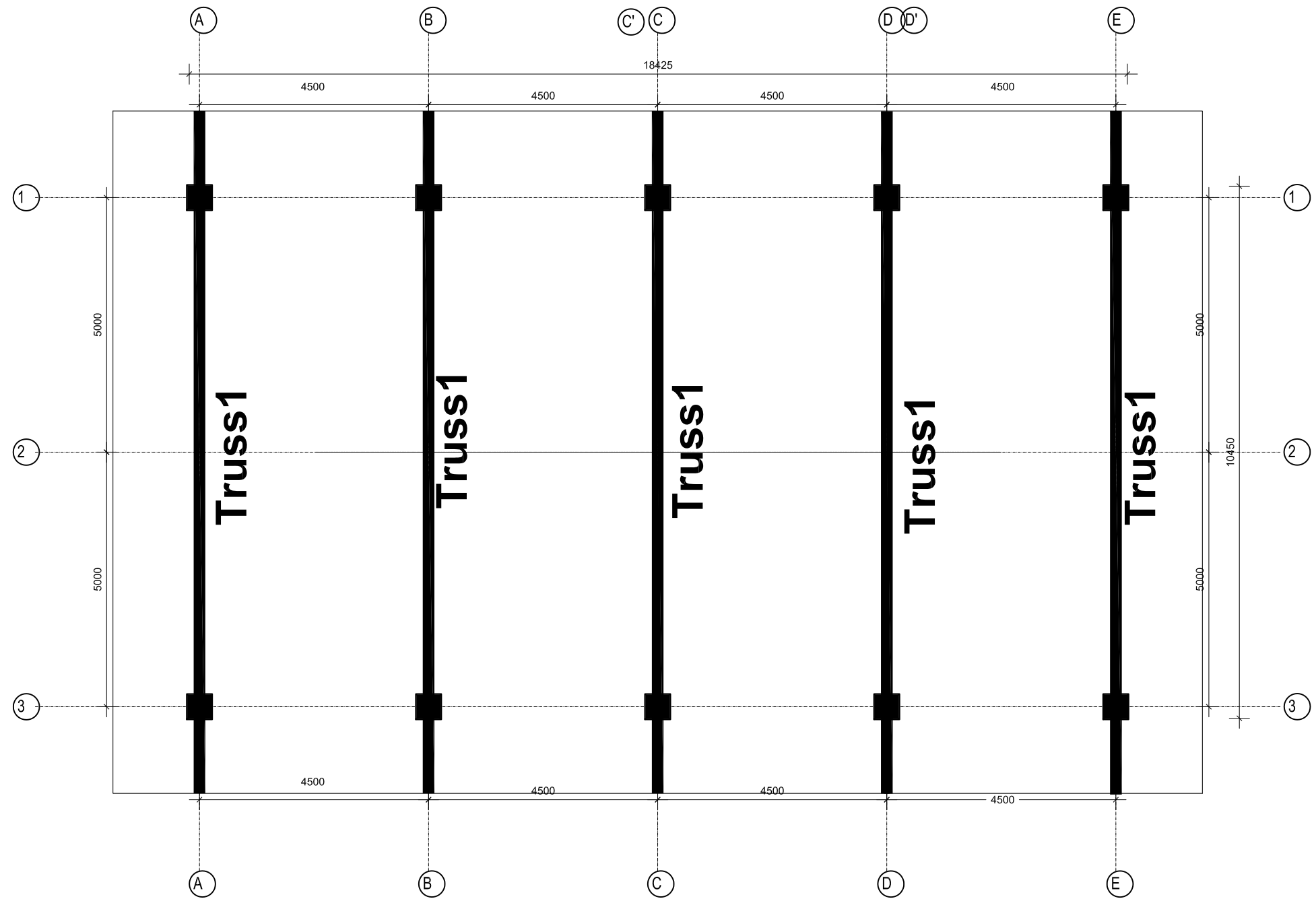


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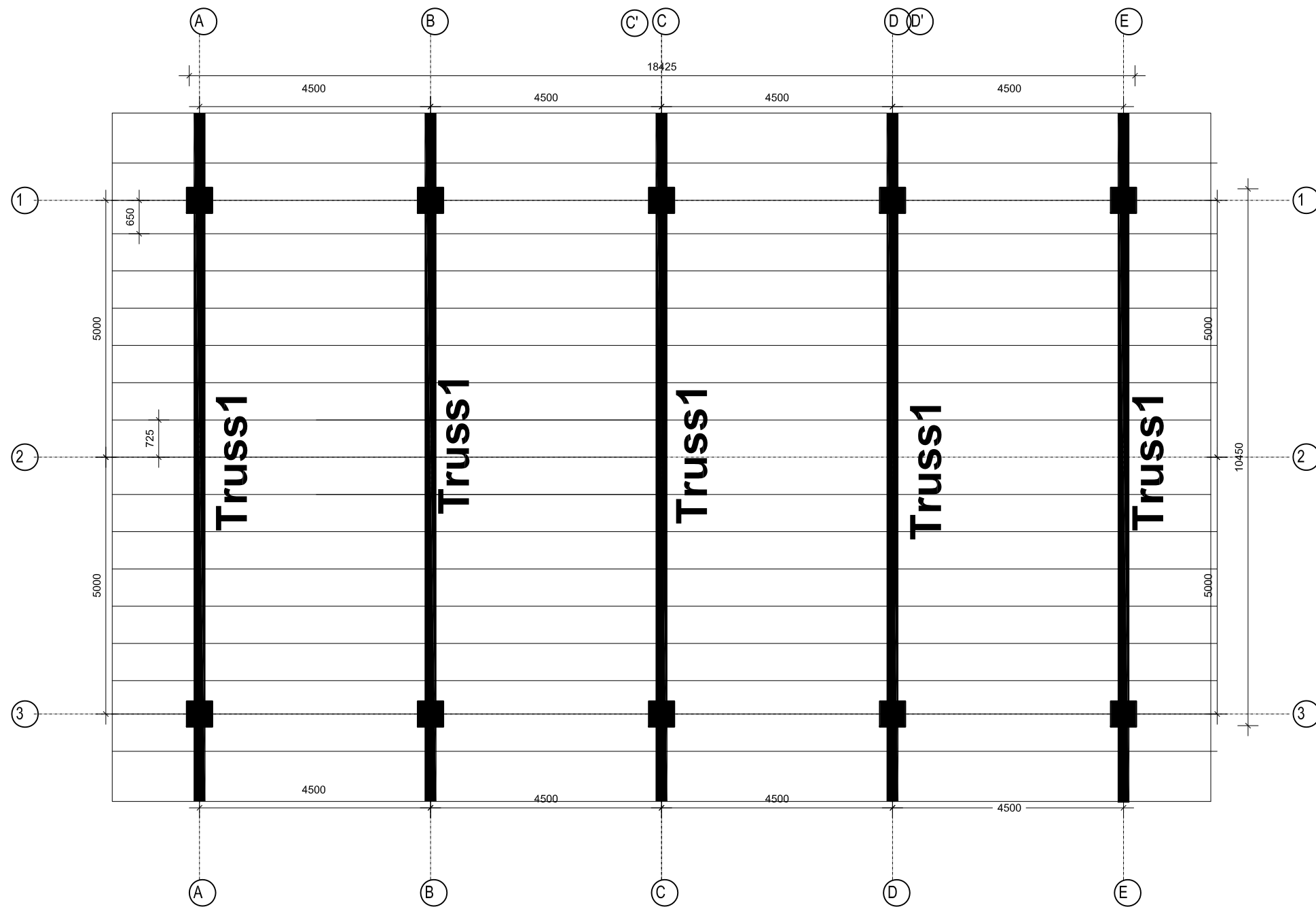
SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Administration/Dormitory Block
Reinforcement Details (Staircase)

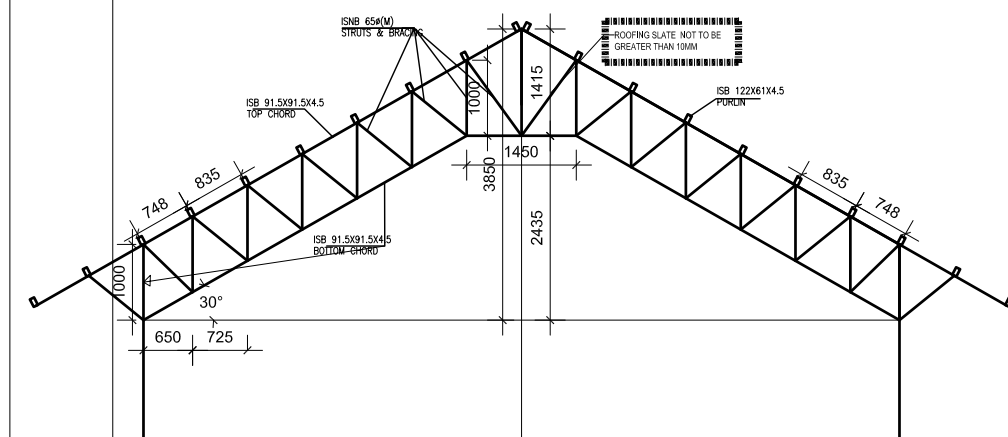
DATE : 2026
DWG NO : 3A.2
SHEET NO : 11 of 13



TRUSS LAYOUT PLAN



TRUSS & PURLIN LAYOUT PLAN



ROOF TRUSS (T1) DETAIL



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
B.N. Consultancy Pvt. Ltd. (BN)
Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal

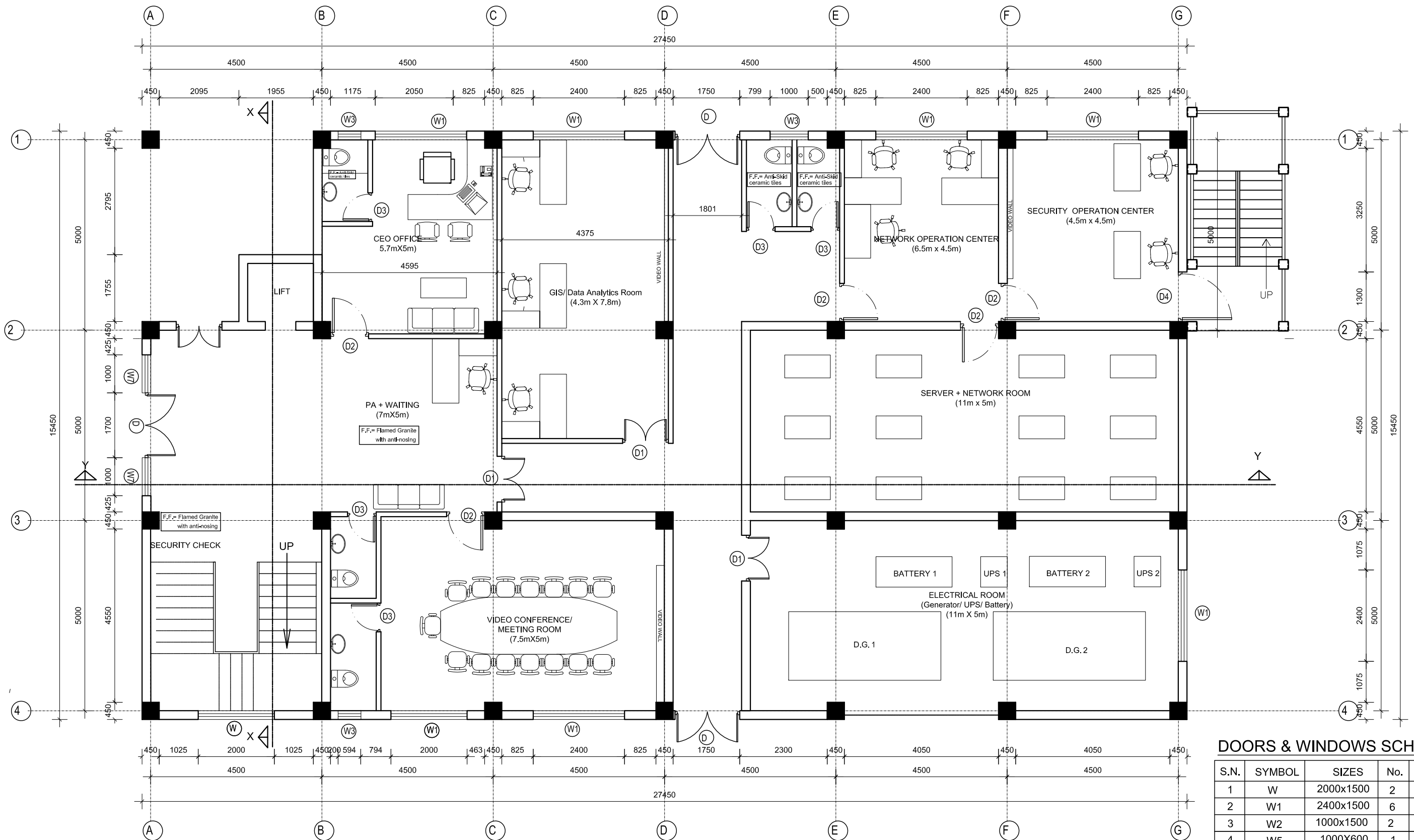


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Administration/Dormitory Block
Reinforcement Details (Truss)

DATE : 2026
DWG NO : 3A.2
SHEET NO : 13 of 13

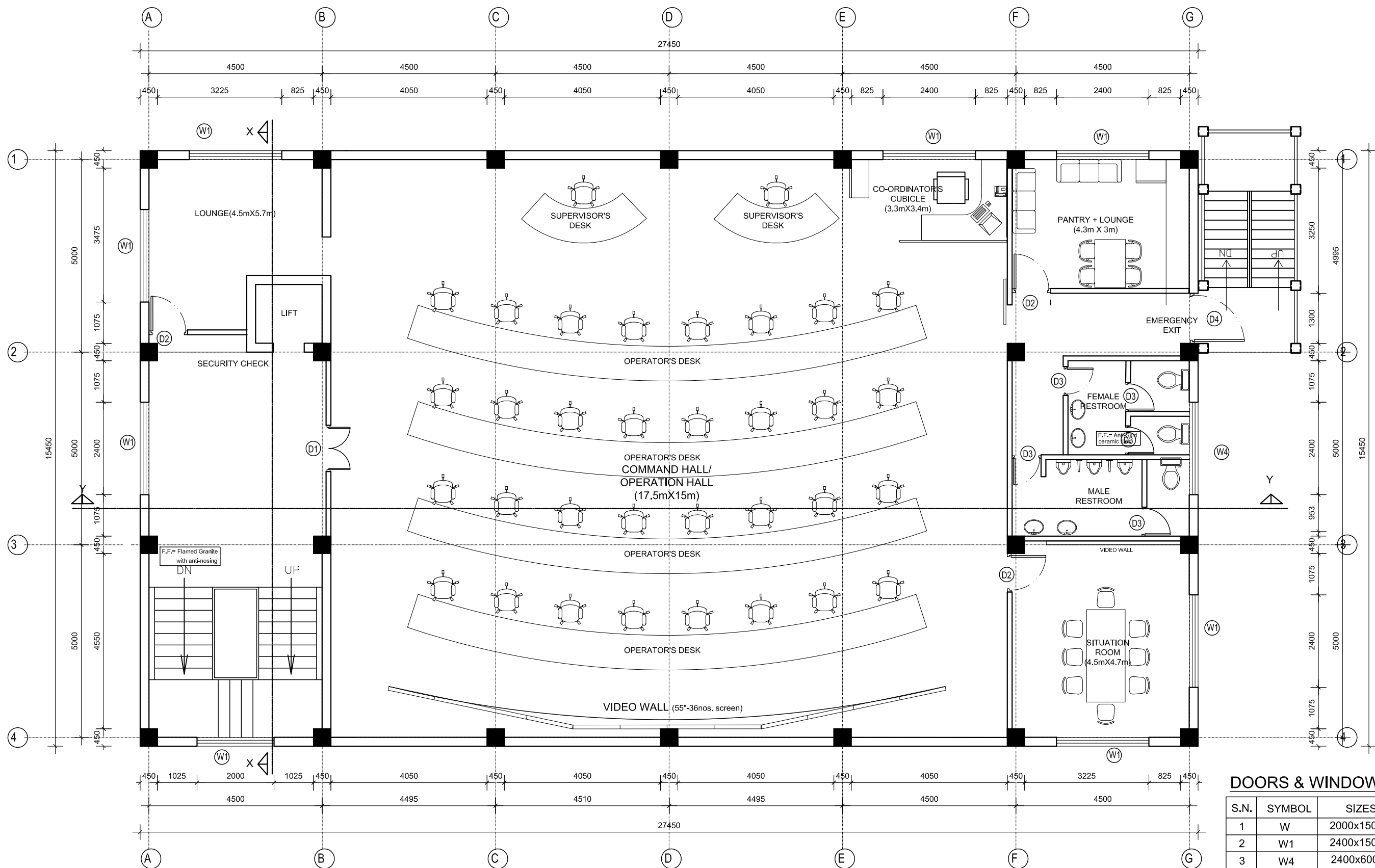


GROUND FLOOR PLAN (EOC/ ICCC)
(Area: 424.10 sq.m.)

DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	No.	REMARKS
1	W	2000x1500	2	
2	W1	2400x1500	6	
3	W2	1000x1500	2	
4	W5	1000X600	1	
5	W7	600x600	1	

S.N.	SYMBOL	SIZES	No.	REMARKS
1	D	1700x2400	3	
2	D1	1200x2100	3	
3	D2	1000x2100	5	
4	D3	750X2100	5	
5	D4	1300X2100	1	



FIRST FLOOR PLAN (EOC/ ICCC)
(Area: 424.10 sq.m.)

DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	No.	REMARKS
1	W	2000x1500	1	
2	W1	2400x1500	7	
3	W4	2400x600	1	

S.N.	SYMBOL	SIZES	No.	REMARKS
1	D1	1200x2400	1	
2	D2	1000x2400	3	
3	D3	750X2100	5	
4	D4	1300X2100	1	



Government of Nepal
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(BN-BDA-Udaya JV)
Kathmandu, Nepal



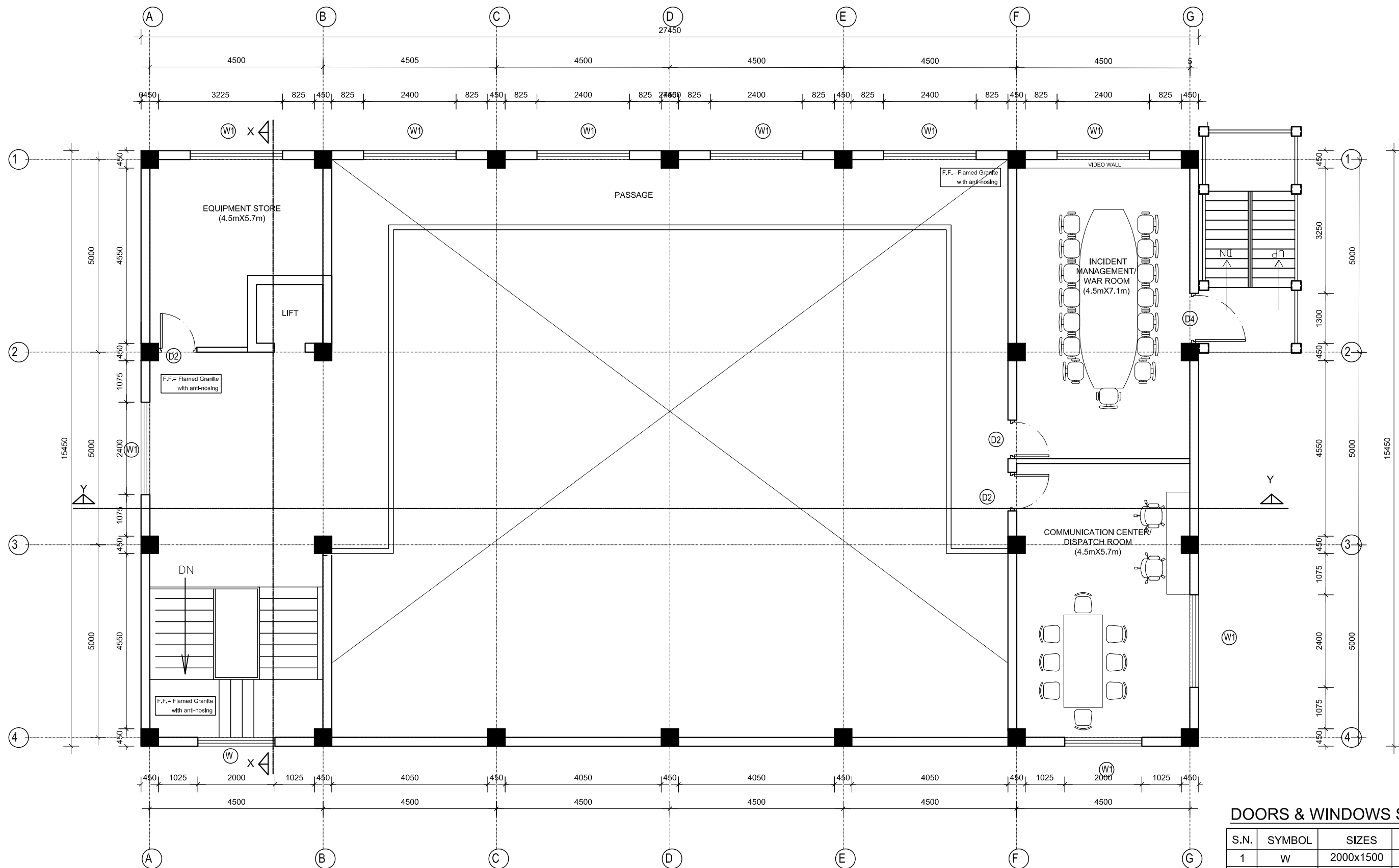
DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

ICCC Block Details

DATE : 2026
DWG NO : 3B.1
SHEET NO : 2 of 8



TOP FLOOR PLAN (EOC/ ICCC)
(Area: 76 sq.m.)

DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	No.	REMARKS
1	W	2000x1500	1	
2	W1	2400x1500	9	

S.N.	SYMBOL	SIZES	No.	REMARKS
1	D1	1200x2400	1	
2	D2	1000x2400	3	
3	D4	1300X2100	1	



Government of Nepal
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Pokhara Metropolitan City



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Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal



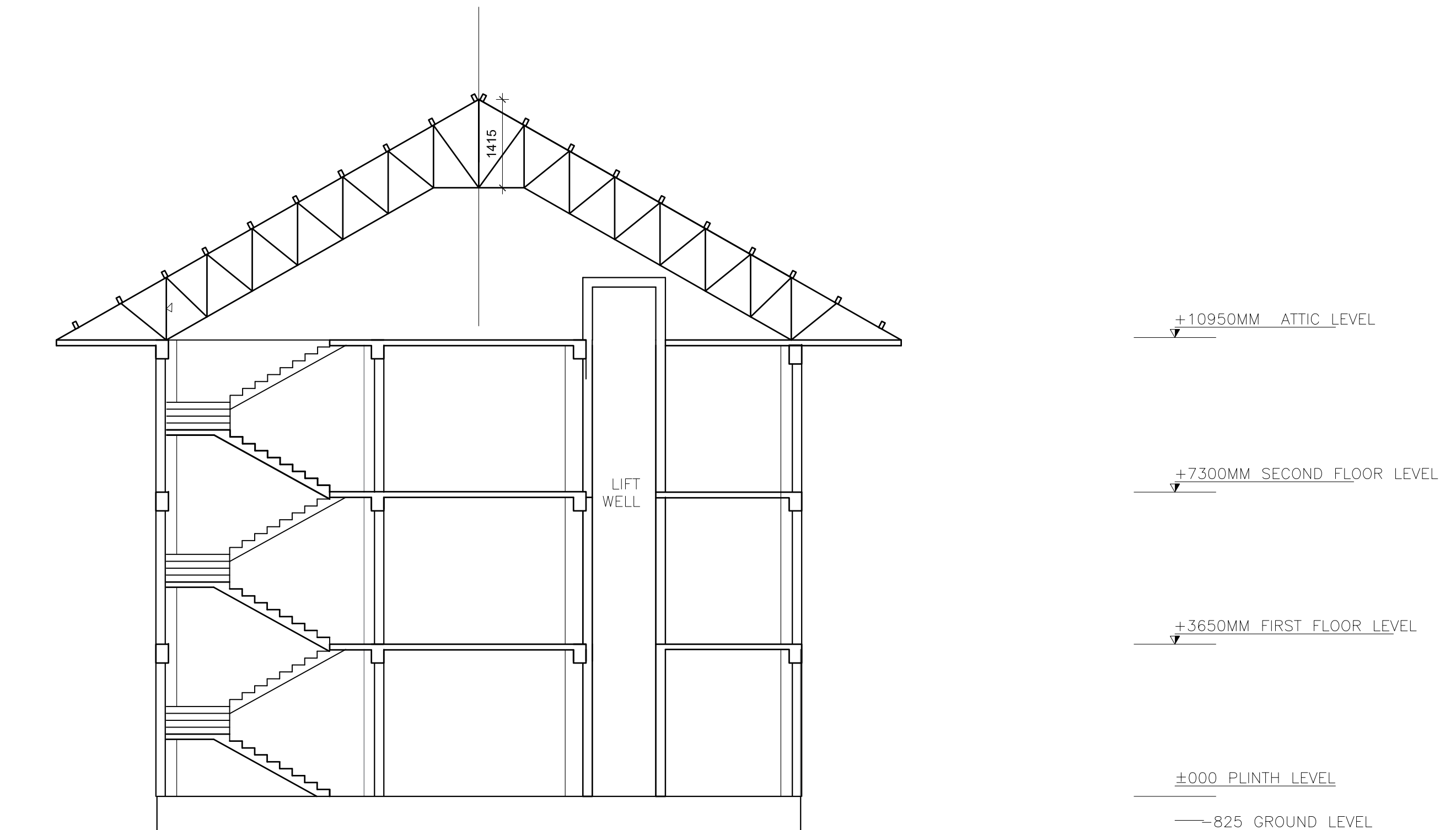
DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

ICCC Block Details

DATE : 2026
DWG NO : 3B.1
SHEET NO : 3 of 8



SECTION AT X-X



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
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(BN-BDA-Udaya JV)
Kathmandu, Nepal



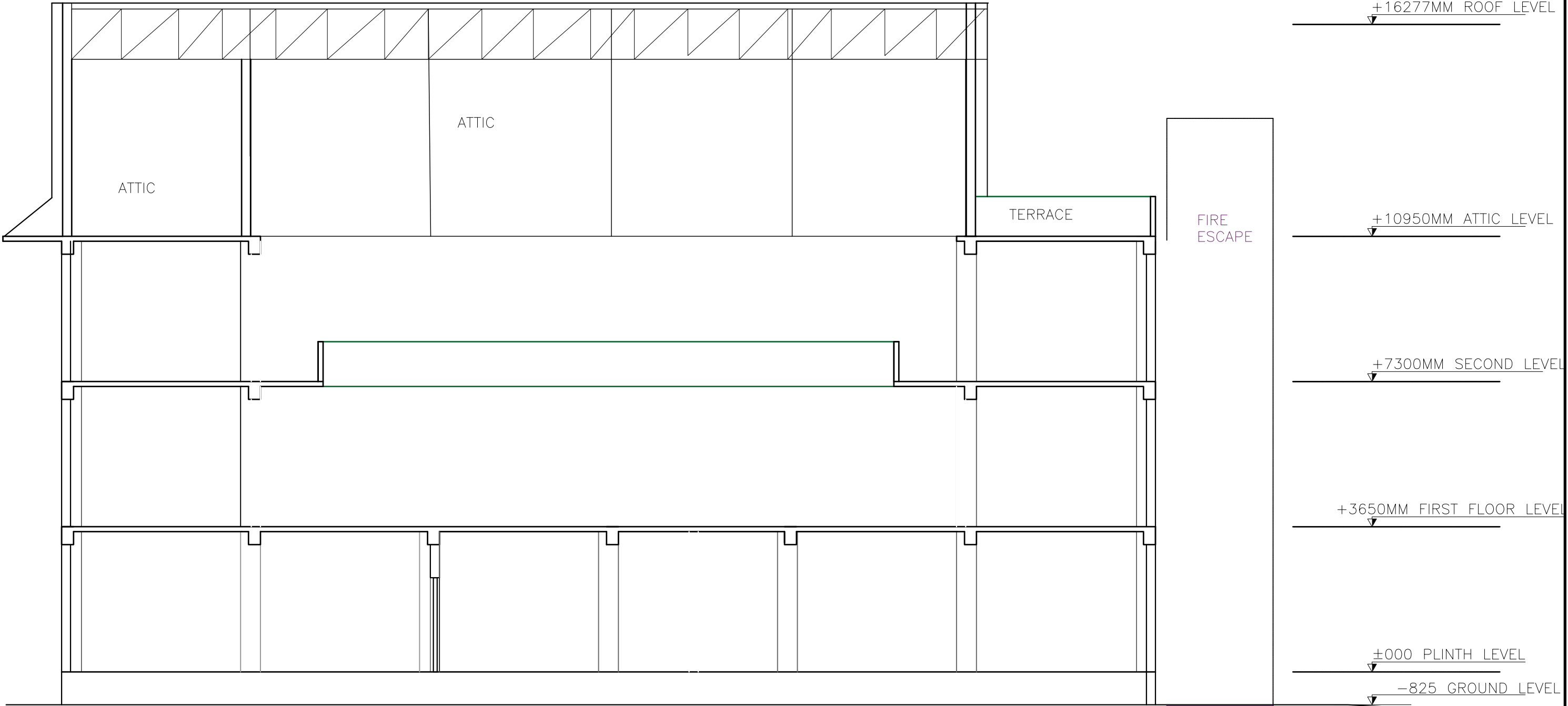
DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

ICCC Block Details

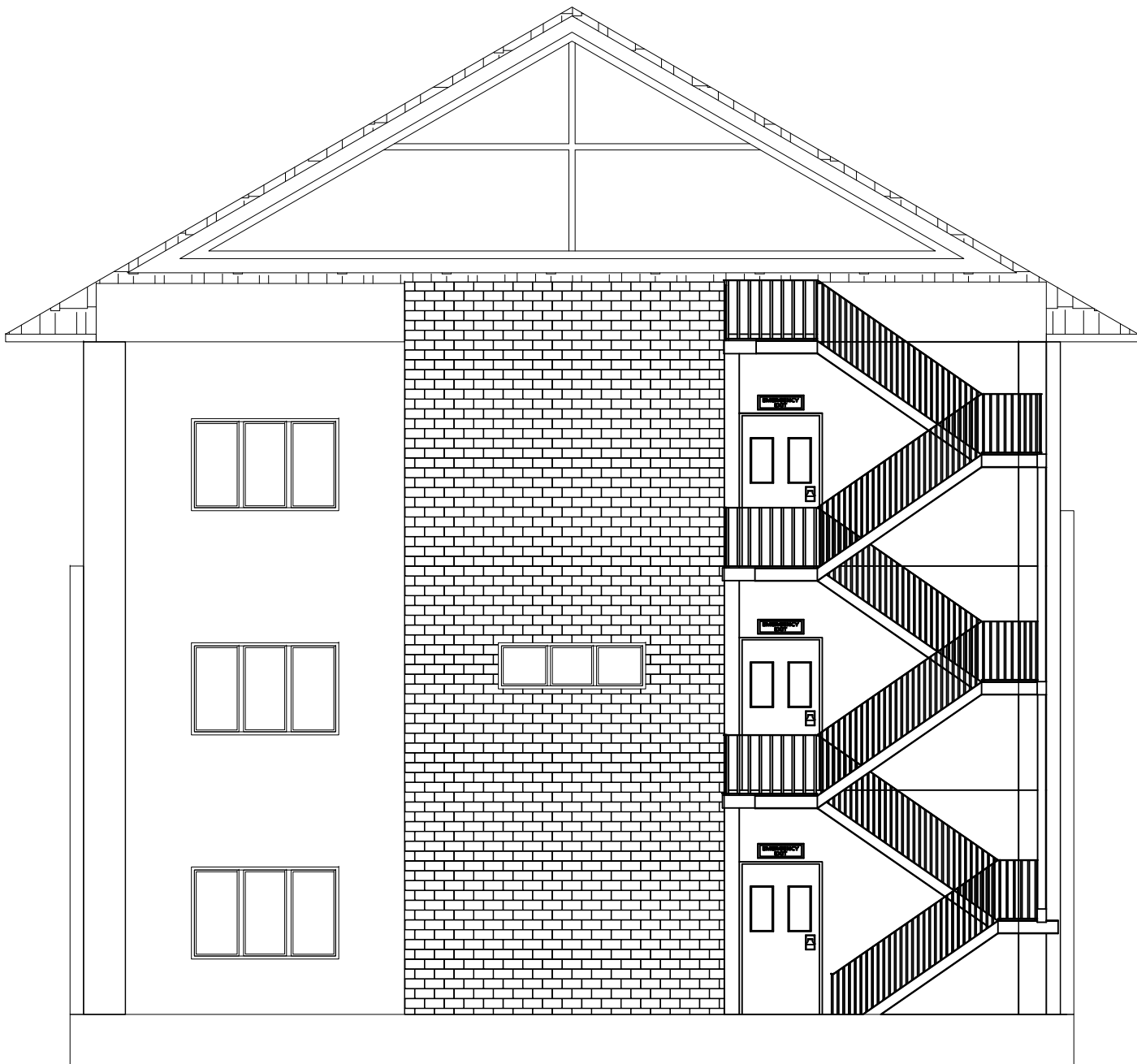
DATE : 2026
DWG NO : 3B.1
SHEET NO : 4 of 8



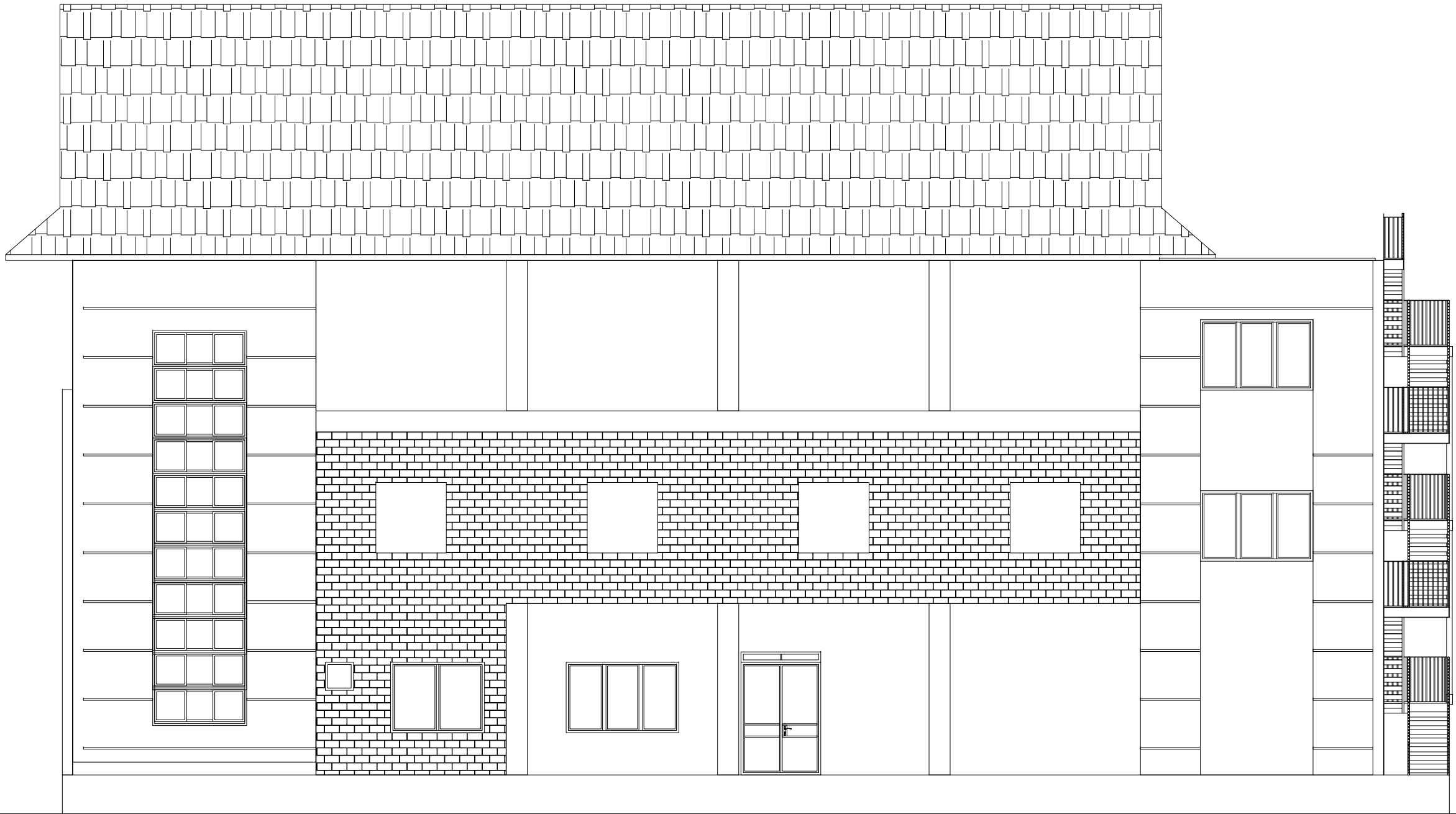
SECTION AT Y-Y'
SECTION (EOC/ICCC)



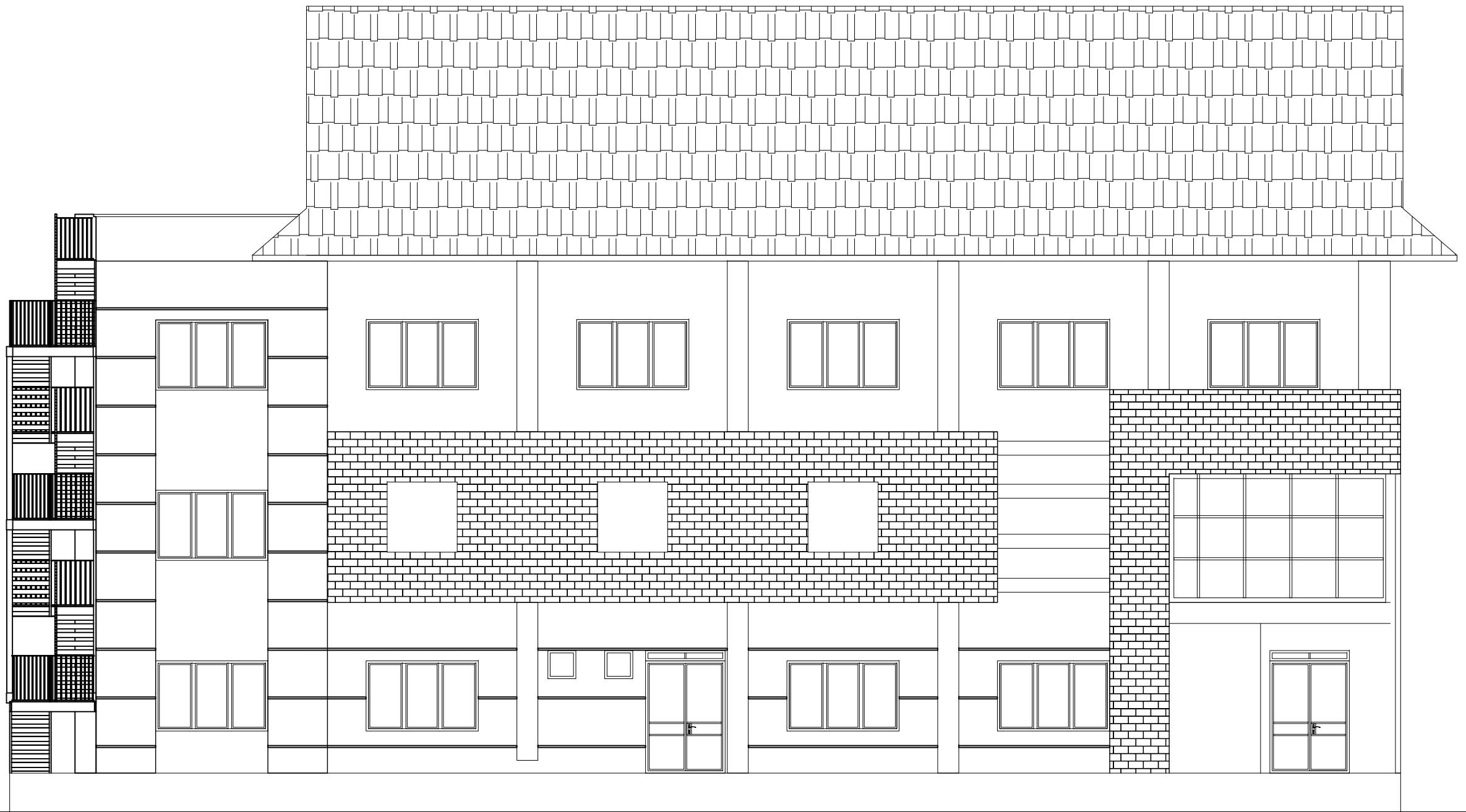
FRONT ELEVATION



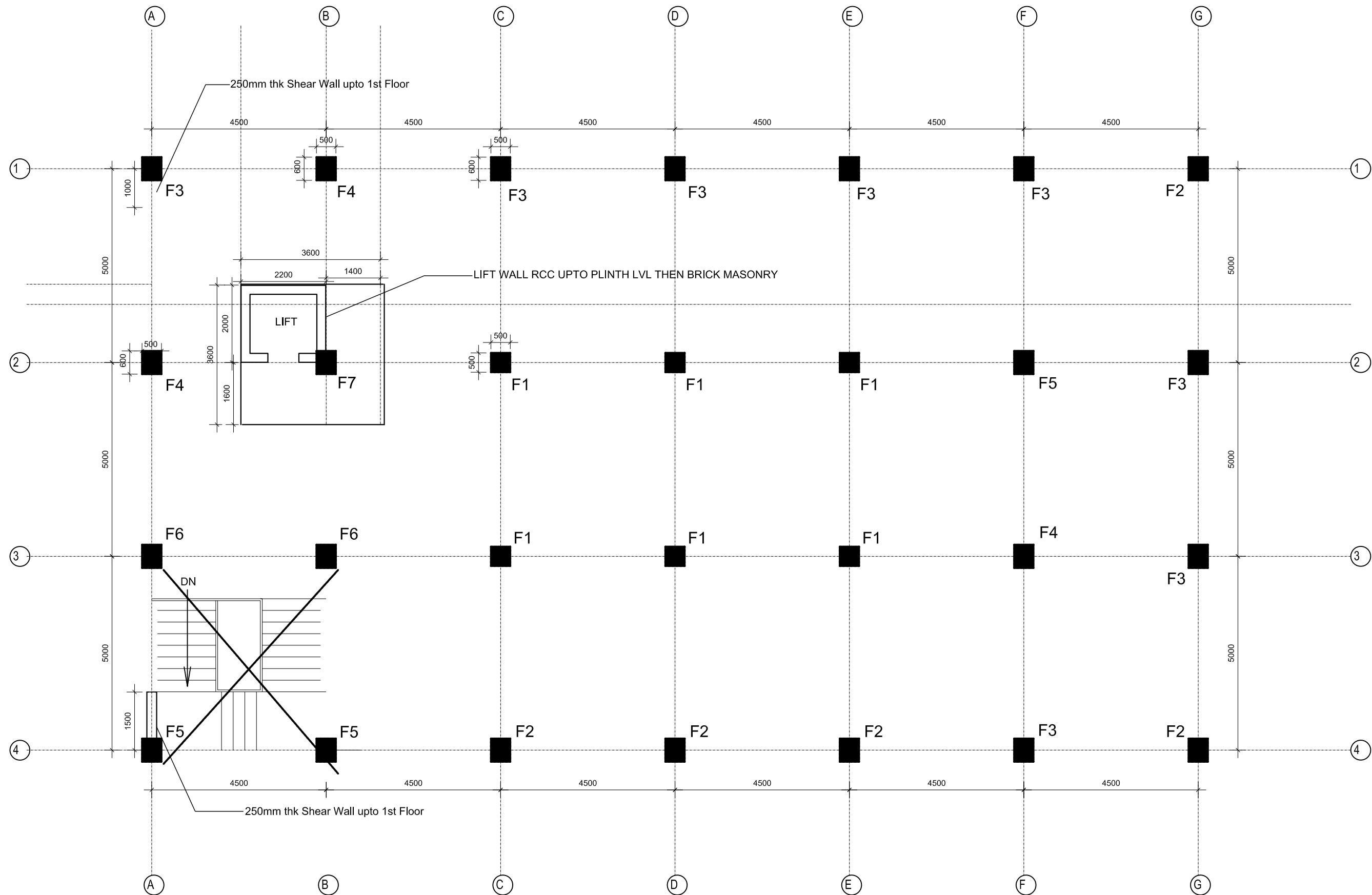
BACK ELEVATION



SIDE ELEVATION



SIDE ELEVATION



COLUMN LAYOUT PLAN



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



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Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal

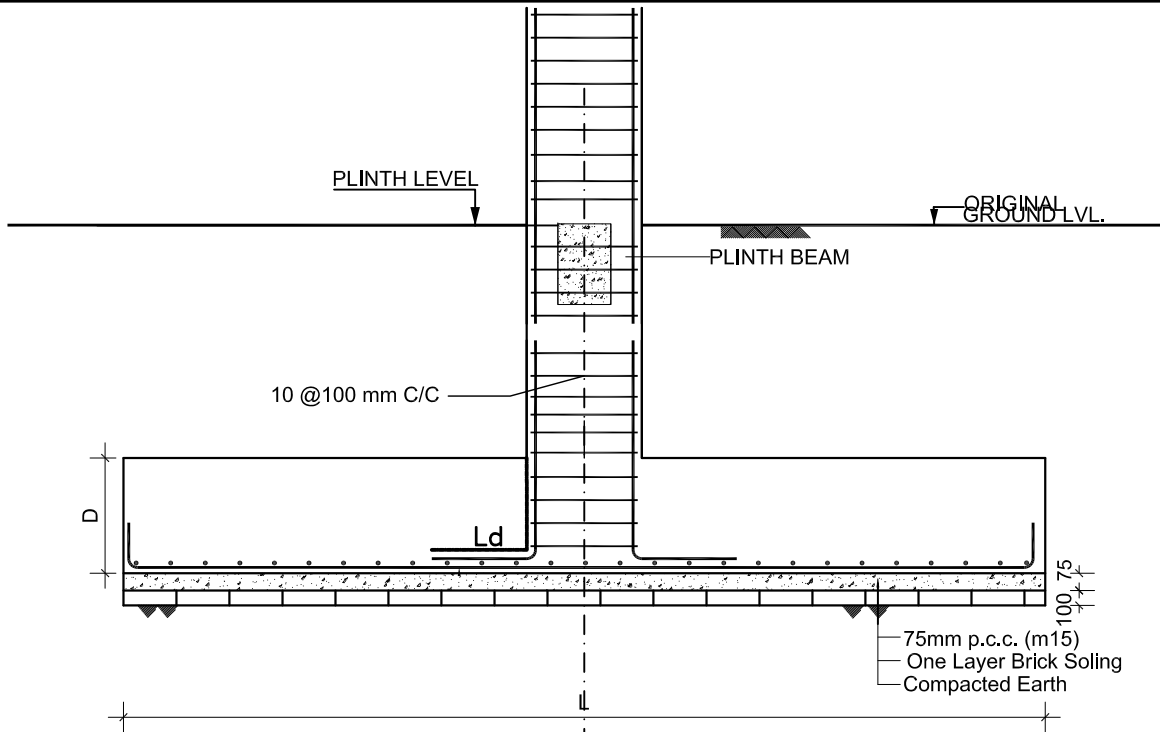


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

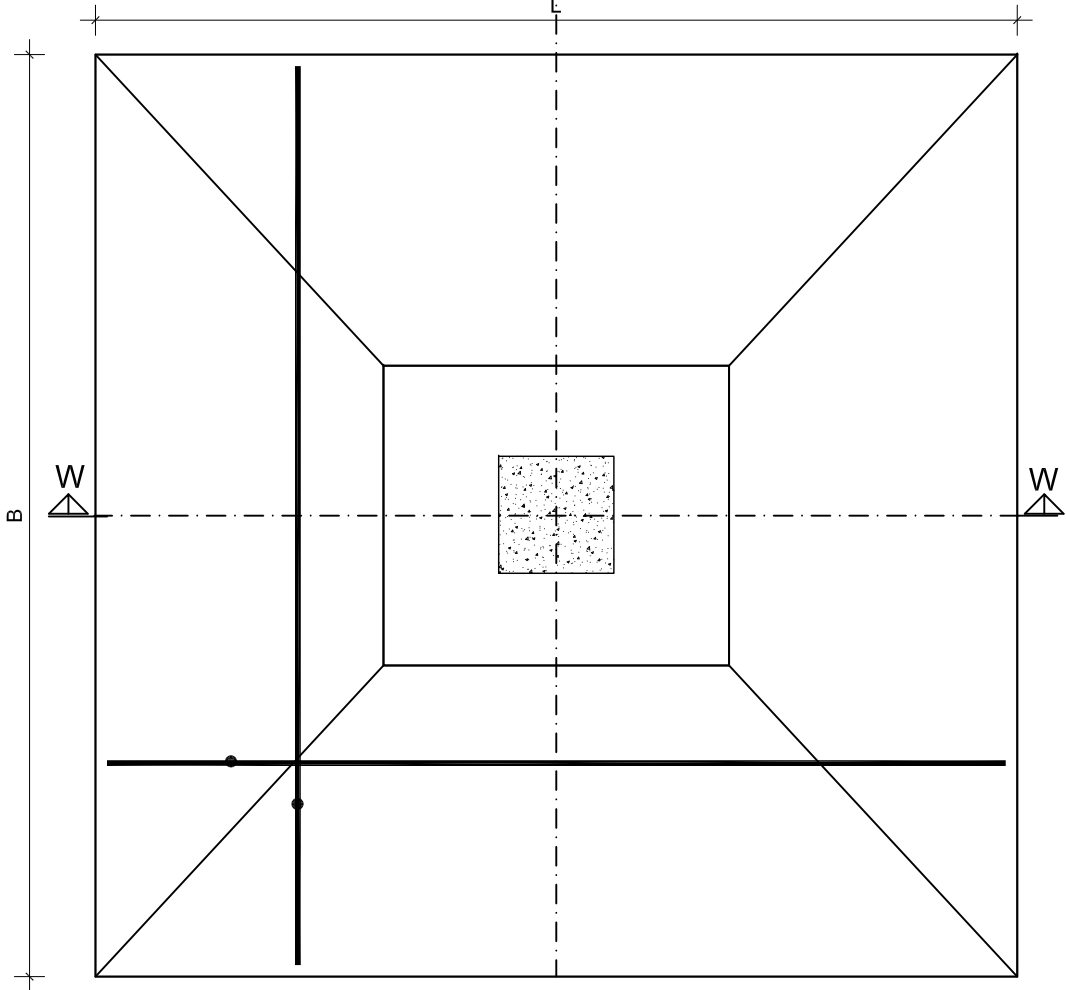
SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
ICCC Block Structure Details (Column)

DATE : 2026
DWG NO : 3B.2
SHEET NO : 1 of 20



SECTION AT WW



ISOLATED COLUMN FOOTING PLAN WITH REINFORCEMENT

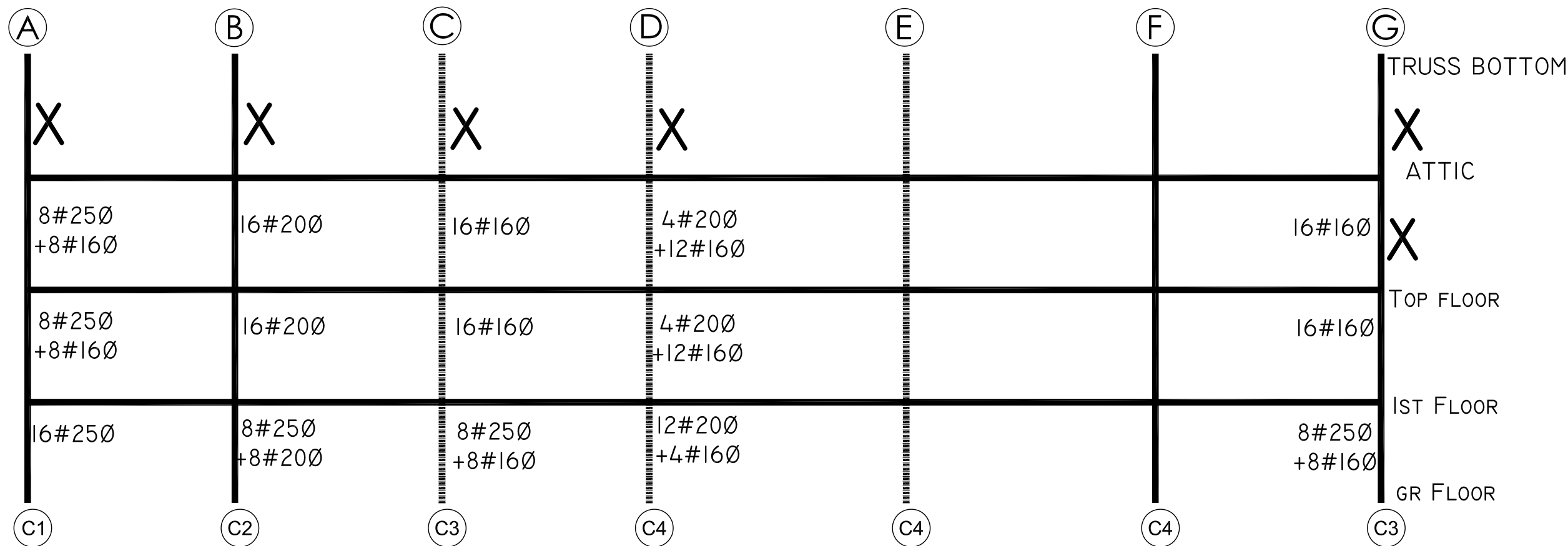
TABLE OF ISOLATED COLUMN FOOTING DETAILS

S.NO	FOOTING TYPE	SIZE OF FOOTING		OVERALL DEPTH D (mm)	STEEL REINFORCEMENTS		ORIGINAL	FOUNDATION	FOUNDATI
		LENGTH	BREADTH		AST _L	AST _B	PLINT HEIGHT FROM OGL	DEPTH FROM GROUND	DEPTH DF (
		L(mm)	B(mm)						
1	F1	1600	1600	500	12 Φ @125C/C BOTTOM	12 Φ @125C/C		1500mm	
2	F2	2000	2000	500	12 Φ @125C/C BOTTOM	12 Φ @125C/C			
3	F3	2200	2200	500	12 Φ @125C/C BOTTOM	12 Φ @125C/C			
4	F4	2600	2600	600	12 Φ @125C/C BOTTOM	12 Φ @125C/C			
5	F5	2800	2800	600	12 Φ @125C/C BOTTOM	12 Φ @125C/C			
6	F6	3000	3000	600	12 Φ @125C/C BOTTOM	12 Φ @125C/C			
7	F7	3600	3600	650	TOP BAR 10T @125C/C BOTTOM 12T @125C/C	10 Φ @125C/C 12 Φ @125C/C			

BEARING CAPACITY TAKEN = 200 KN/M2 AT 1.5M FROM OGL

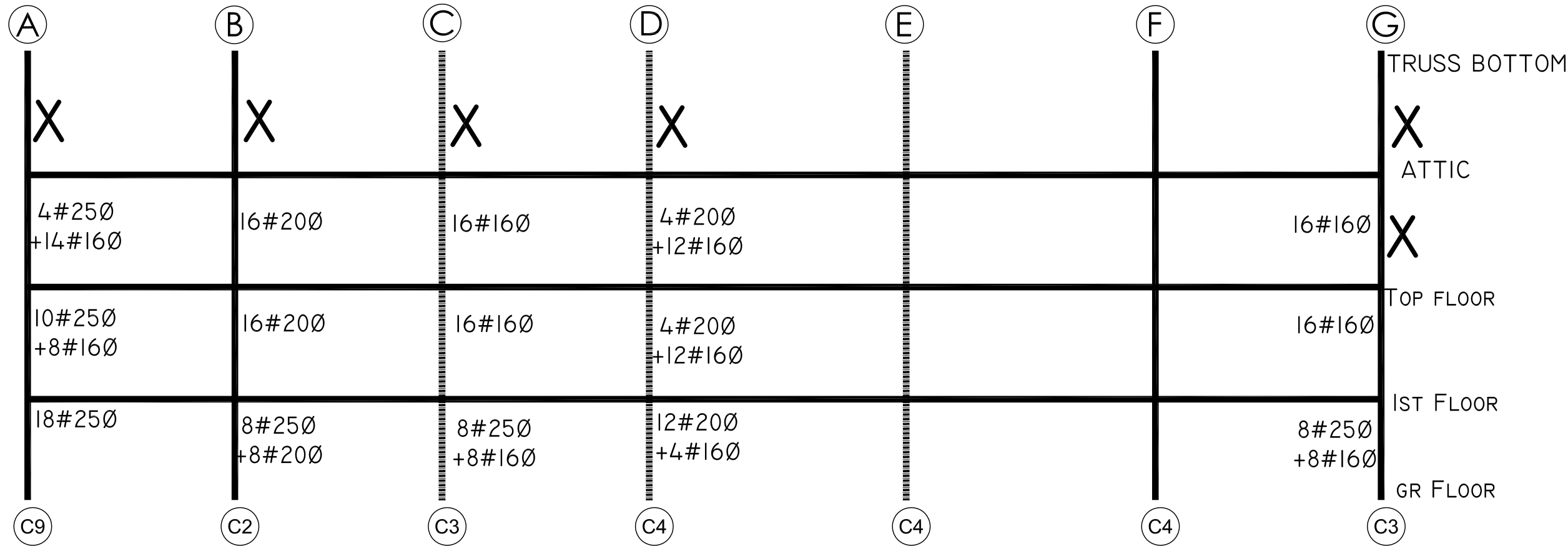
NOTE

- 1- Column 500X500 & 500x600
- 2- Main Beam 350X500
- 3- cantilever beam = 450x500
- 3- Secondary Beam 230x350
- 4- CONCRETE GRADE = M25
- 5- REBAR GRADE=Fe 500



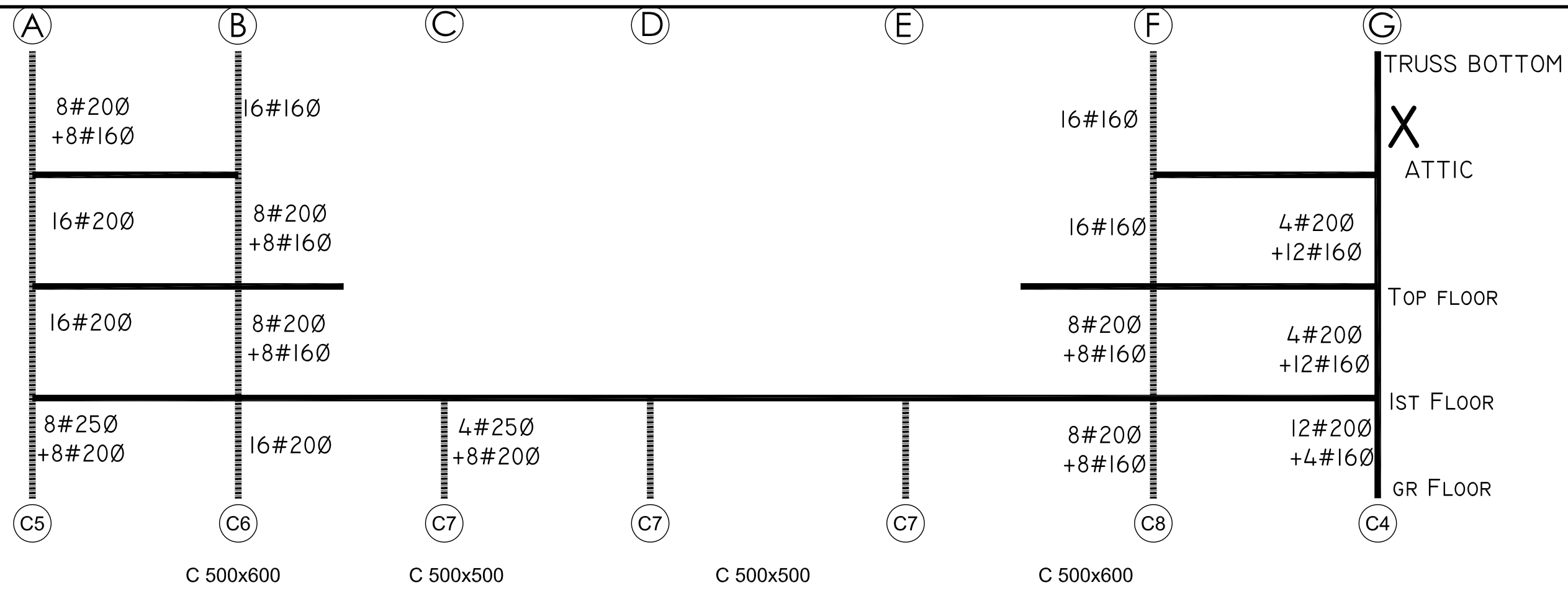
C 500x600

GRID 1-1



C 500x600

GRID 4-4



GRID 2-2 & 3-3

COLUMN DETAILS

12 Nos. Bars

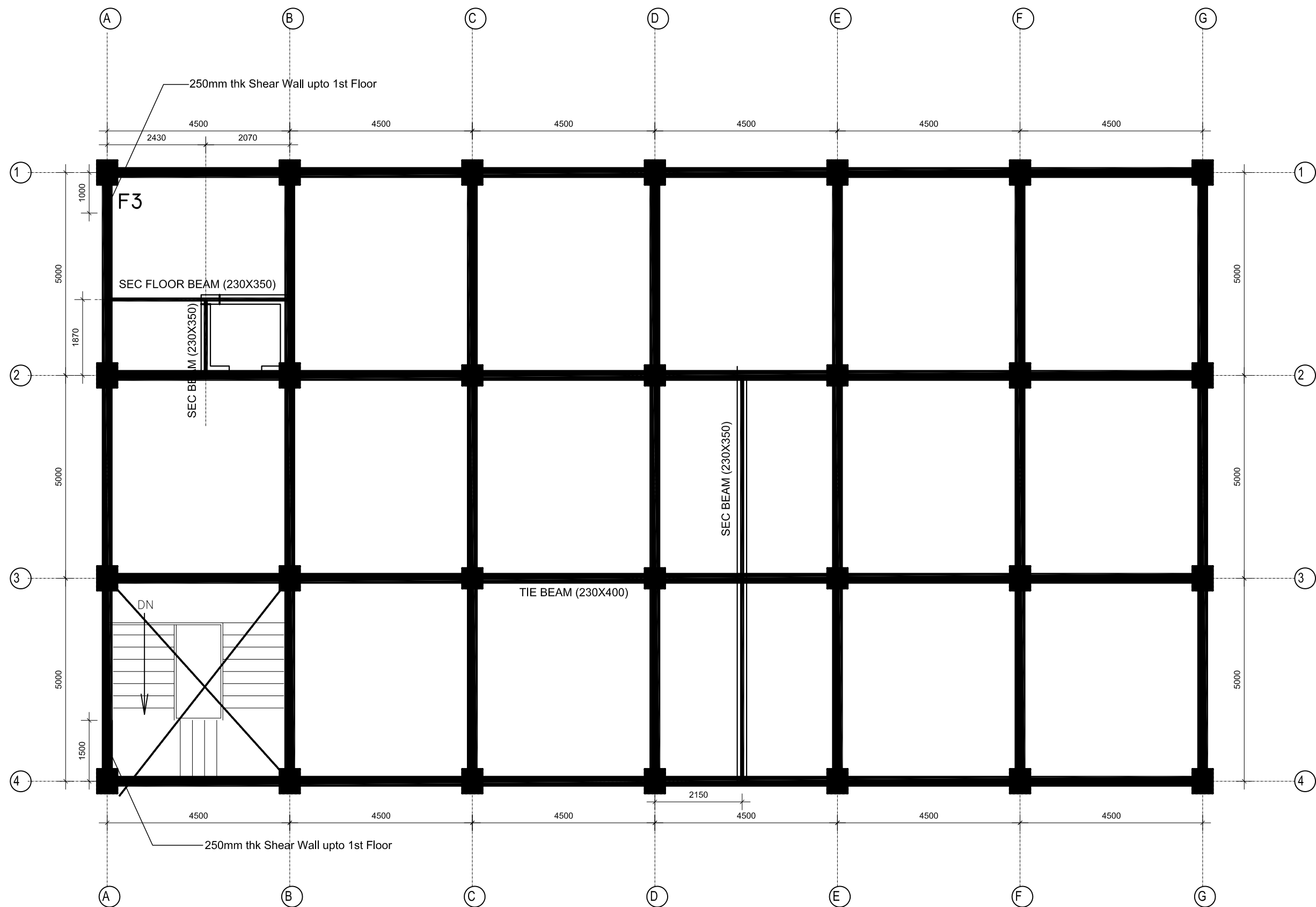
NOTE: USE TMT500, M25
STIRRUP 10Ø@100mm c/c

16 Nos. Bars

NOTE: USE TMT500, M25
STIRRUP 10Ø@100mm c/c

18 Nos. Bars

NOTE: USE TMT500, M25
STIRRUP 10Ø@100MM c/c



PLINTH BEAM LAYOUT PLAN



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
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Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
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Building Design Authority Pvt. Ltd.(BDA)
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(BN-BDA-Udaya JV)
Kathmandu, Nepal

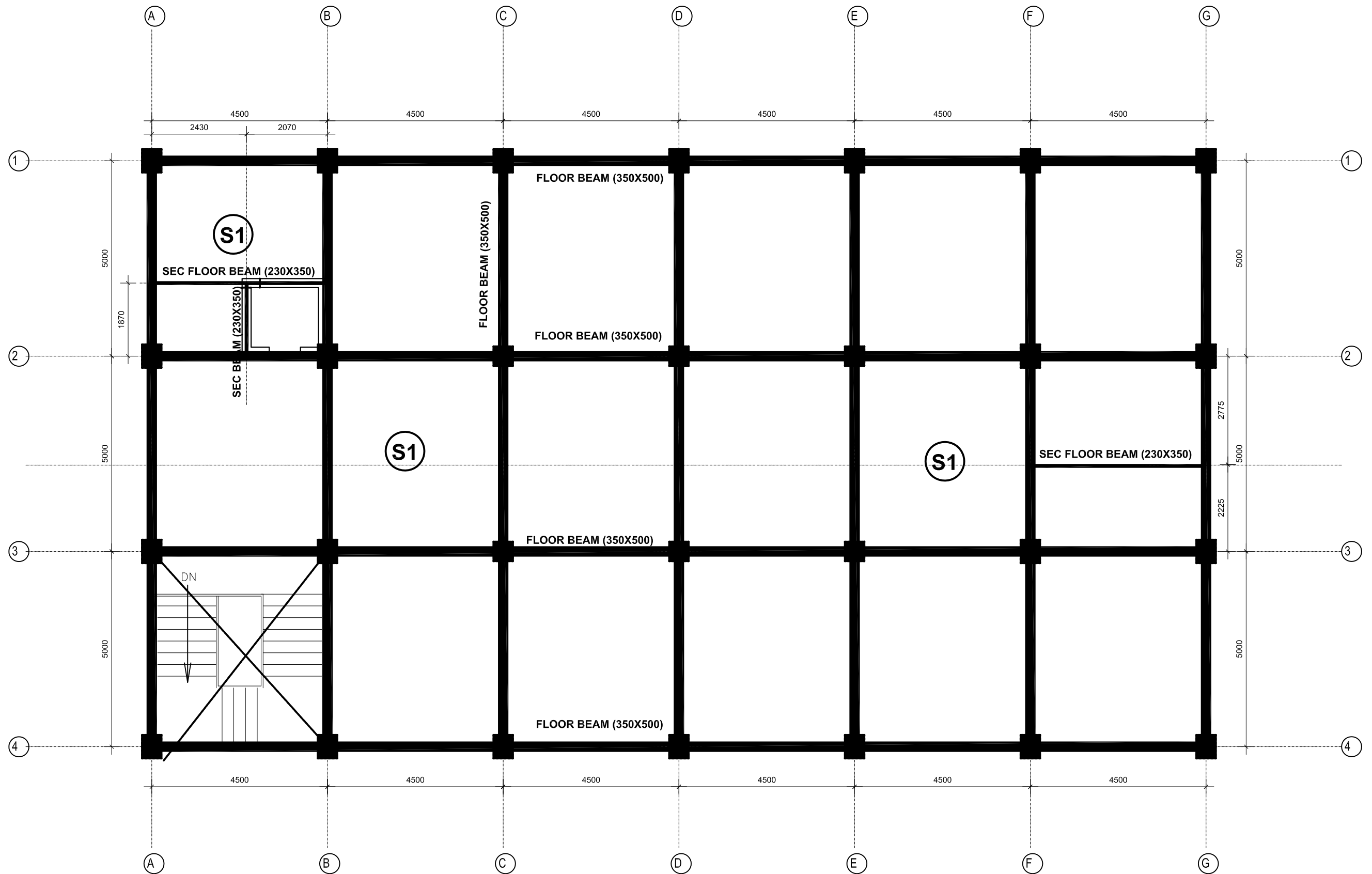


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
ICCC Block Structure Details (Beam)

DATE : 2026
DWG NO : 3B.2
SHEET NO : 5 of 20



FIRST FLOOR BEAM PLAN

NOTE :

1. Main Beam 350 x 500 M25
2. Secondary Beam 230 x 350 M25 (Green)
3. Slab S1 = 135mm M25



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



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Building Design Authority Pvt. Ltd.(BDA)
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Kathmandu, Nepal

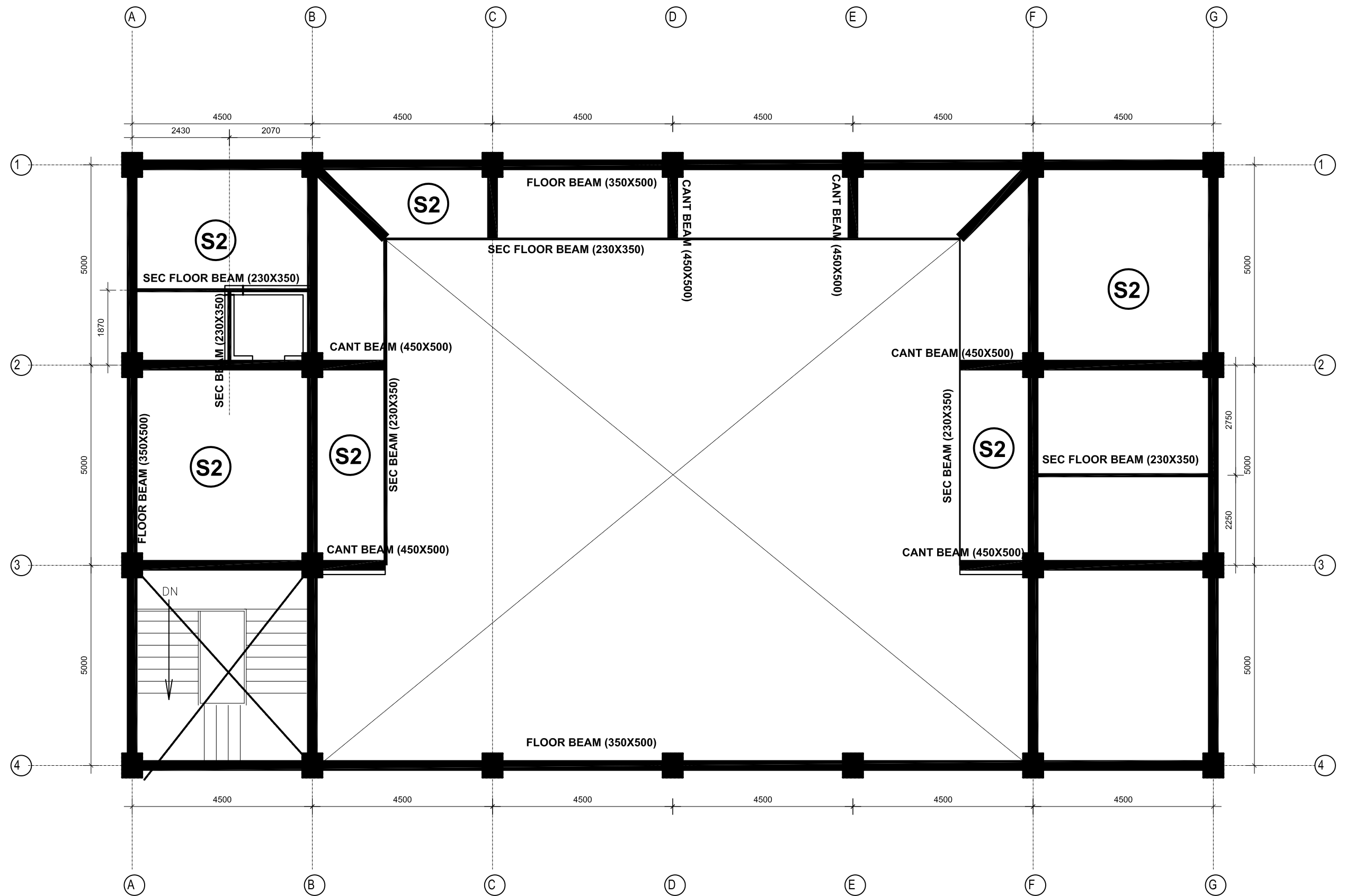


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
ICCC Block Structure Details (Beam)

DATE : 2026
DWG NO : 3B.2
SHEET NO : 6 of 20



TOP FLOOR BEAM PLAN

NOTE :

1. Main Beam 350 x 500 M25
2. Cant Beam 450 x 500 M25 (Blue)
2. Secondary Beam 230 x 350 M25 (Green)
3. Slab S1 = 135mm M25



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
B.N. Consultancy Pvt. Ltd. (BN)
Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal



DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

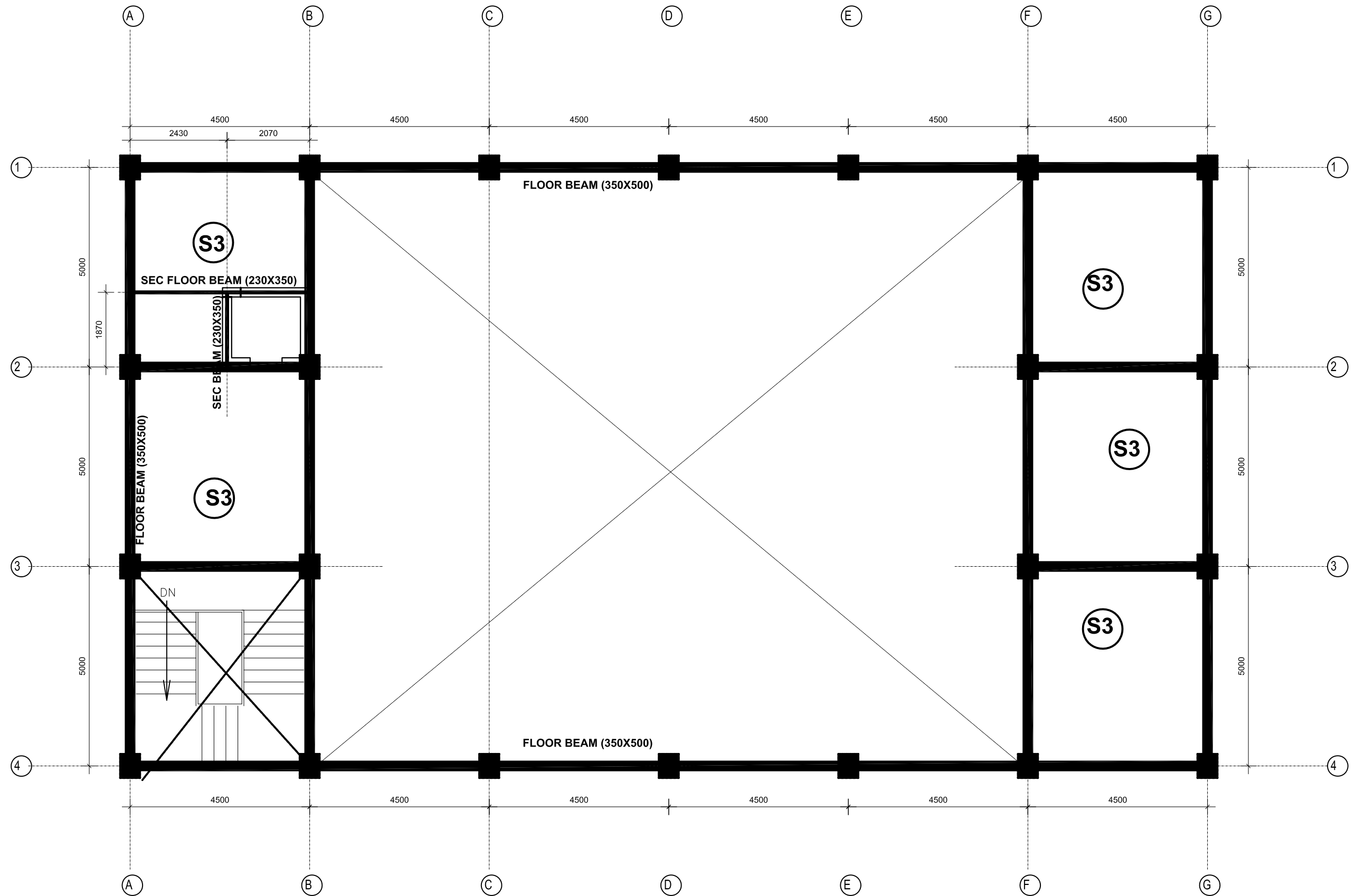
PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

ICCC Block Structure Details (Beam)

DATE : 2026

DWG NO : 3B.2

SHEET NO : 7 of 20



ATTIC FLOOR BEAM PLAN

NOTE :

1. Main Beam 350 x 500 M25
2. Cant Beam 450 x 500 M25 (Blue)
2. Secondary Beam 230 x 350 M25 (Green)
3. Slab S1 = 135mm M25



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
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Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
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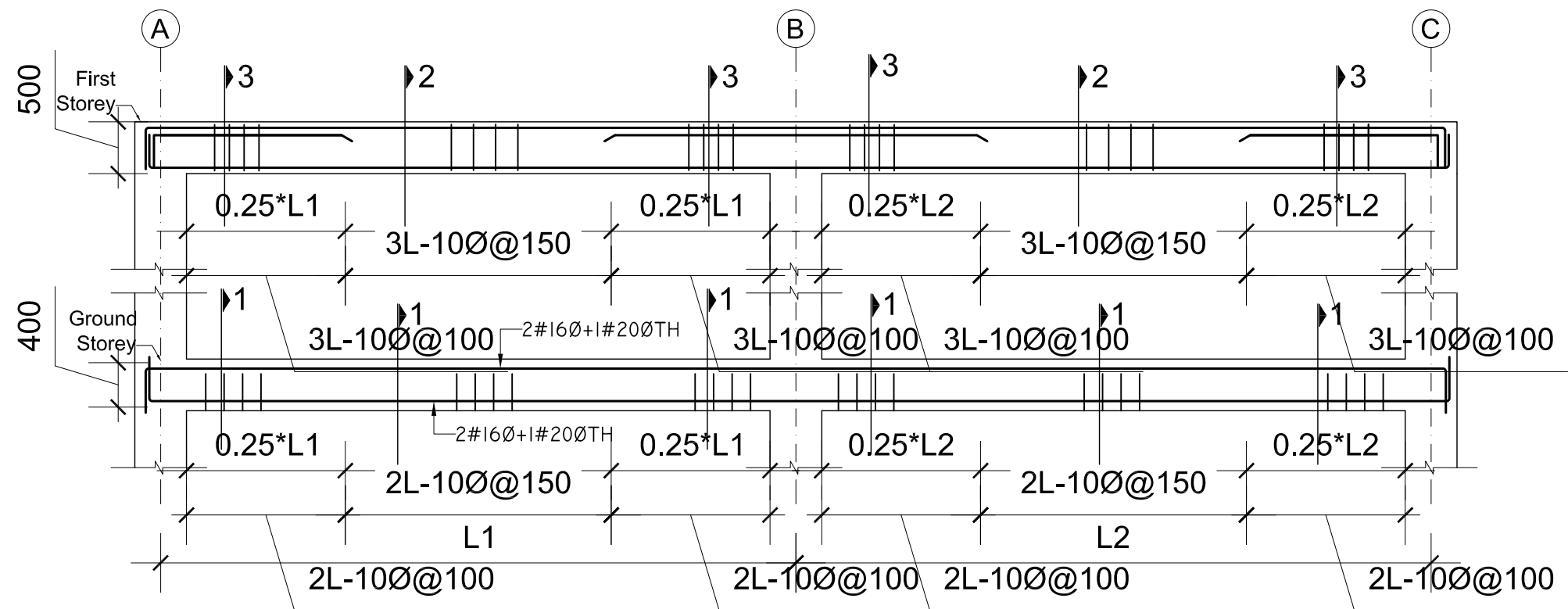


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DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

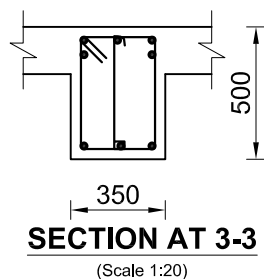
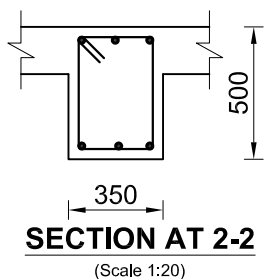
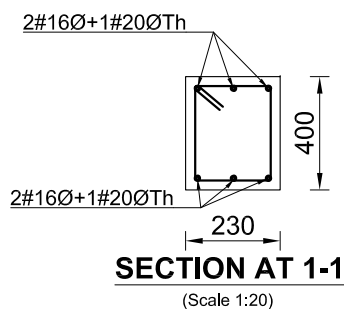
SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
ICCC Block Structure Details (Beam)

DATE : 2026
DWG NO : 3B.2
SHEET NO : 8 of 20



L-SECTION ALONG GRID (SCALE 1:40)



SEC BEAM 230*350 M25(GREEN)

3#16Ø
3#16Ø All Floor
2L-10Ø @100mm c/c (at ends)
2L-10Ø @150mm c/c (at mid)

PLINTH BEAM 230*400 M25

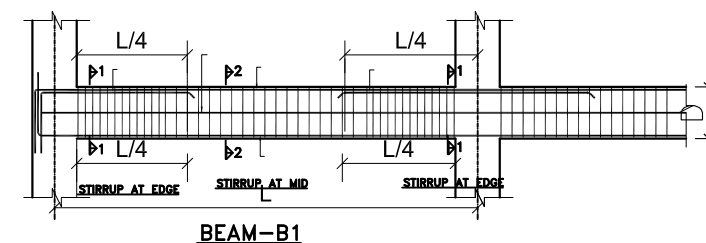
2#16Ø +1#20Ø
2#16Ø +1#20Ø All Floor
2L-10Ø @100mm c/c (at ends)
2L-10Ø @150mm c/c (at mid)

NOTE:

BEAM STIRRUP:

IST FLOOR: 3L-10Ø @100MM c/c (AT ENDS)
3L-10Ø @150MM c/c (AT MID)

TERRACE : 2L-10Ø @100MM c/c (AT ENDS)
2L-10Ø @150MM c/c (AT MID)



UNLESS OTHERWISE STATED



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(BN-BDA-Udaya JV)
Kathmandu, Nepal

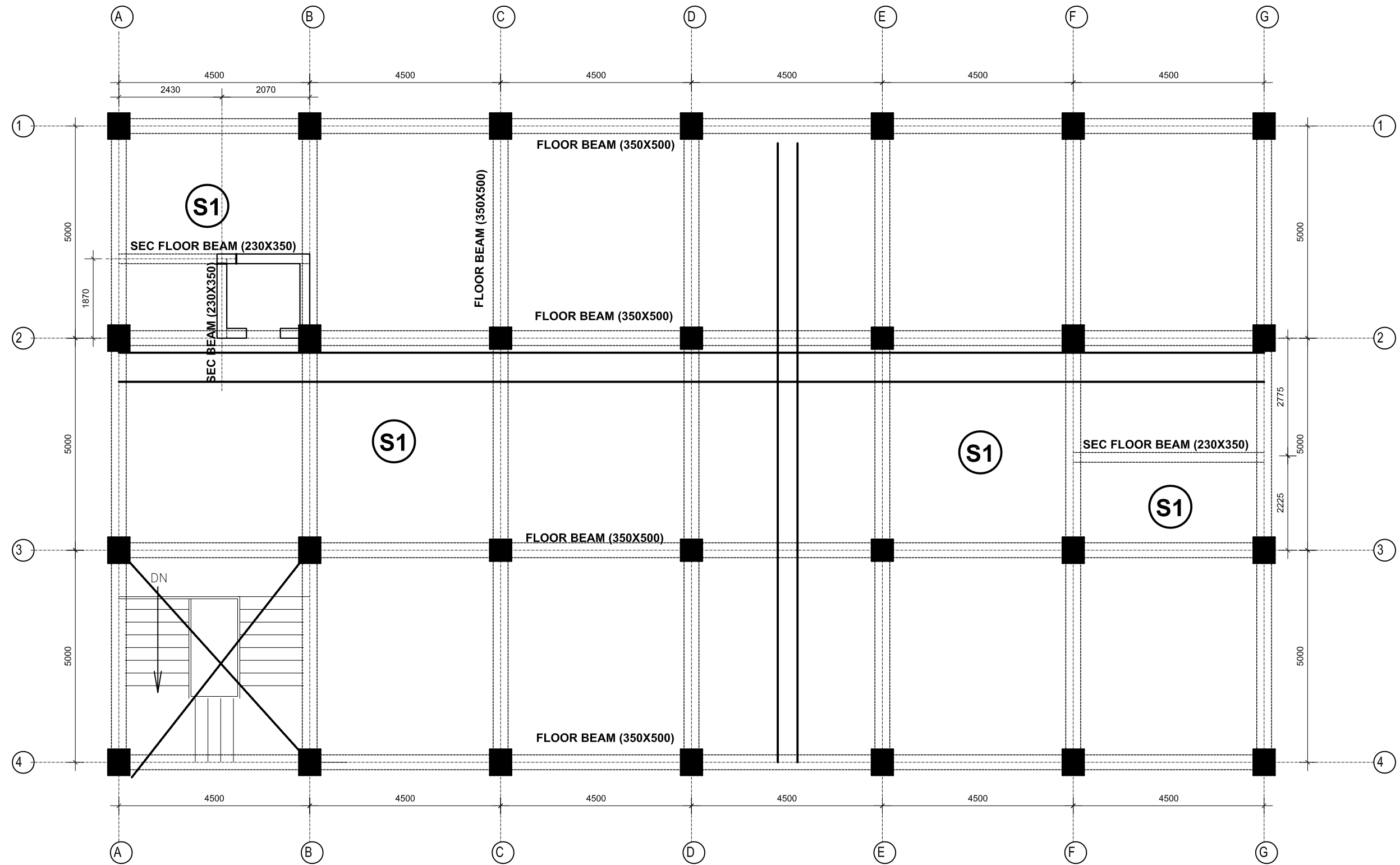


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
ICCC Block Structure Details (Beam)

DATE : 2026
DWG NO : 3B.2
SHEET NO : 9 of 20



FIRST FLOOR SLAB PLAN
BOTTOM BAR LAYOUT

NOTE :

1. Slab S1 = 135mm M25



Government of Nepal
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(BN-BDA-Udaya JV)
Kathmandu, Nepal



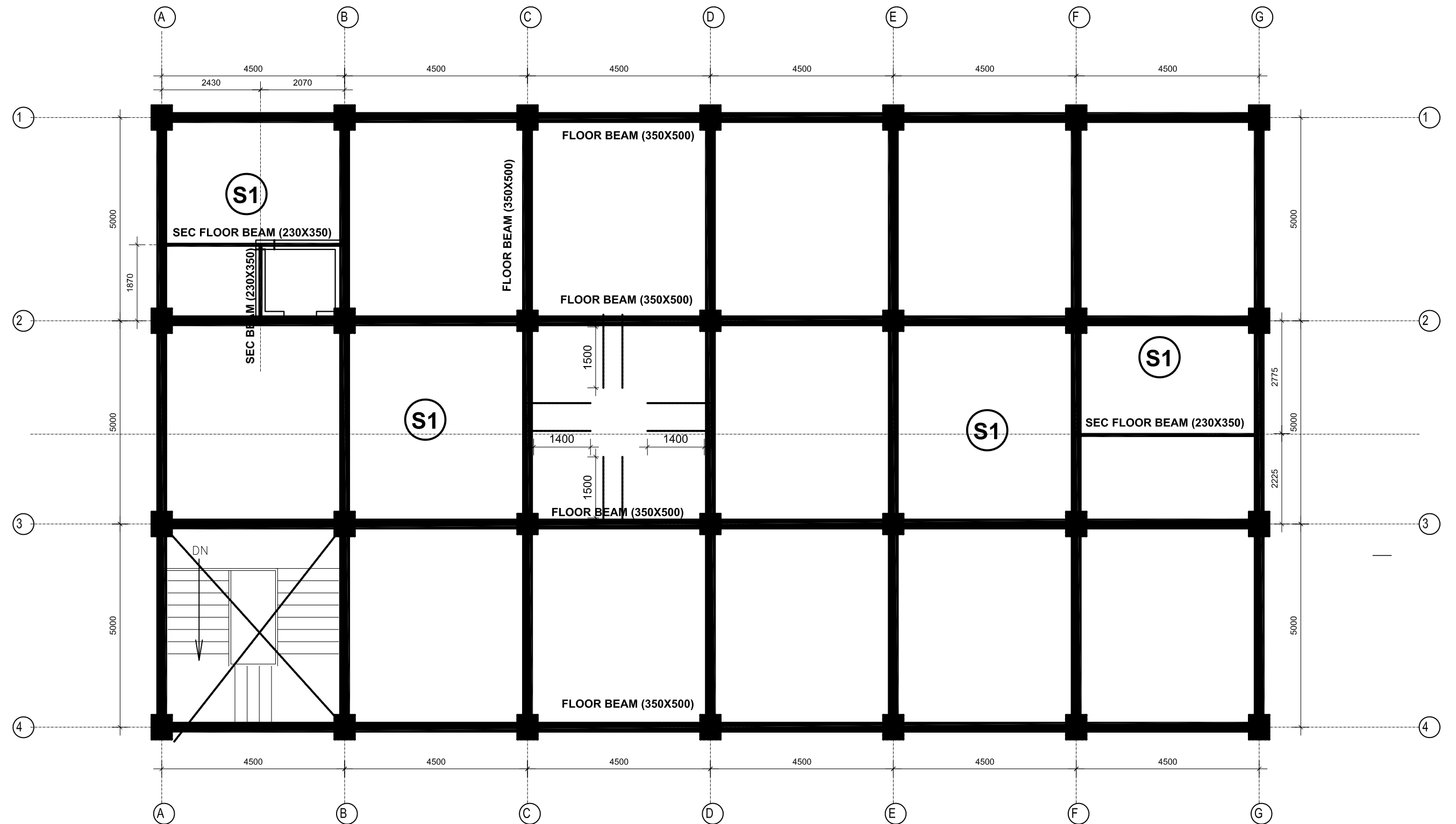
DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

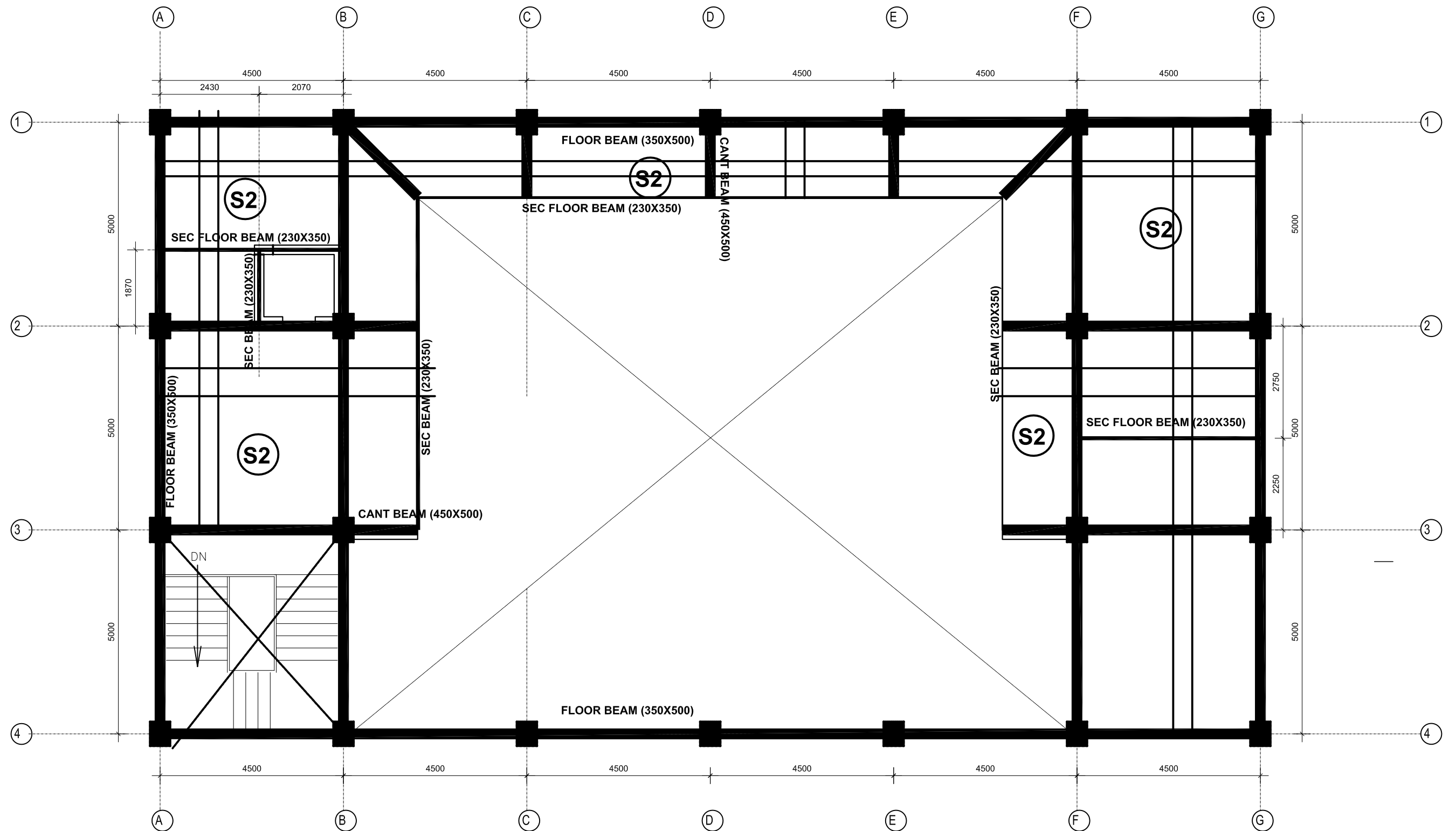
ICCC Block Structure Details (Slab)

DATE : 2026
DWG NO : 3B.2
SHEET NO : 10 of 20



FIRST FLOOR SLAB PLAN
TOP BAR LAYOUT

NOTE :
1. Slab S2 = 135mm M25



TOP FLOOR SLAB PLAN
BOTTOM BAR LAYOUT

NOTE :

1. Slab S2 = 135mm M25



Government of Nepal
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(BN-BDA-Udaya JV)
Kathmandu, Nepal

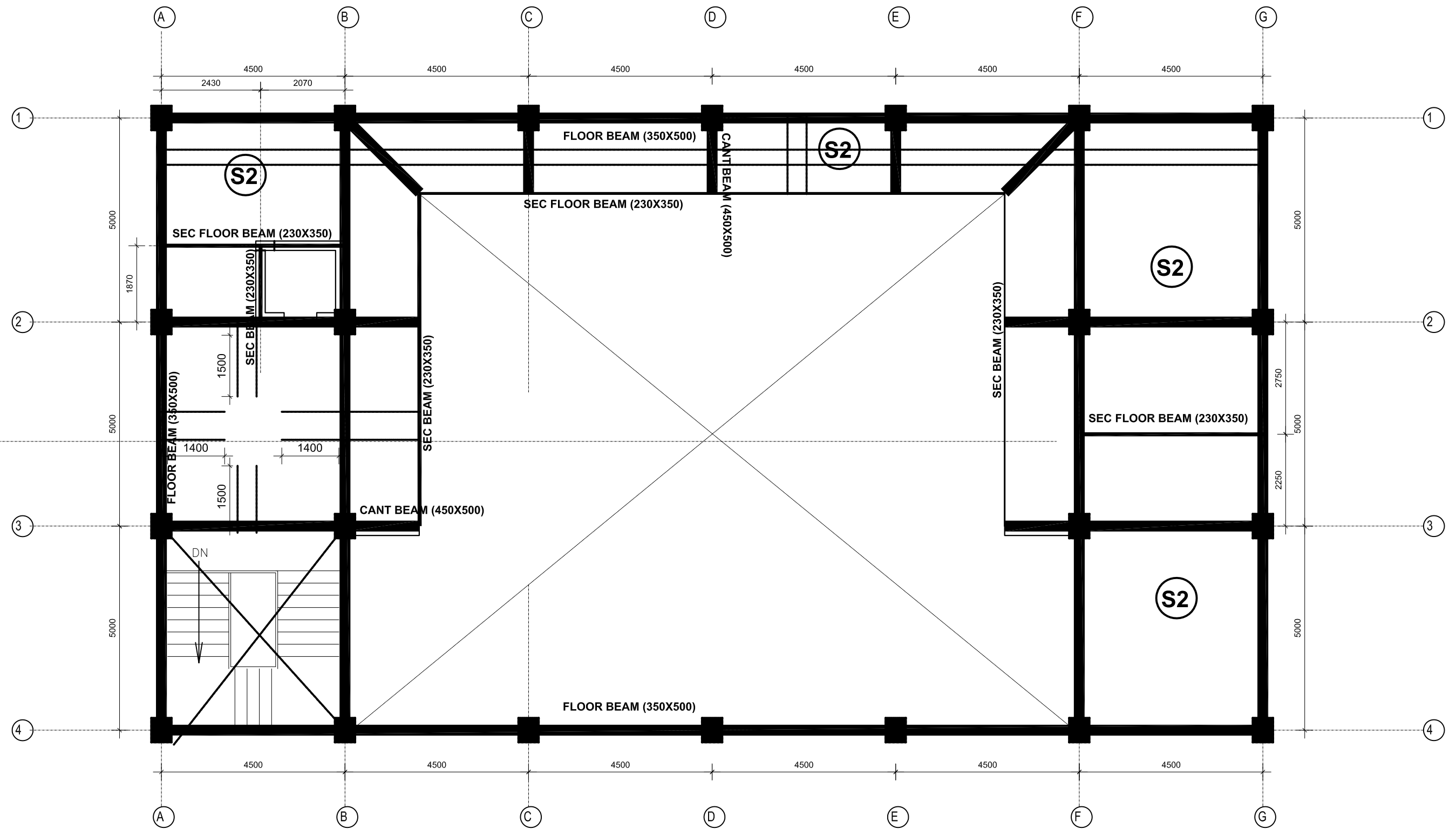


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
ICCC Block Structure Details (Slab)

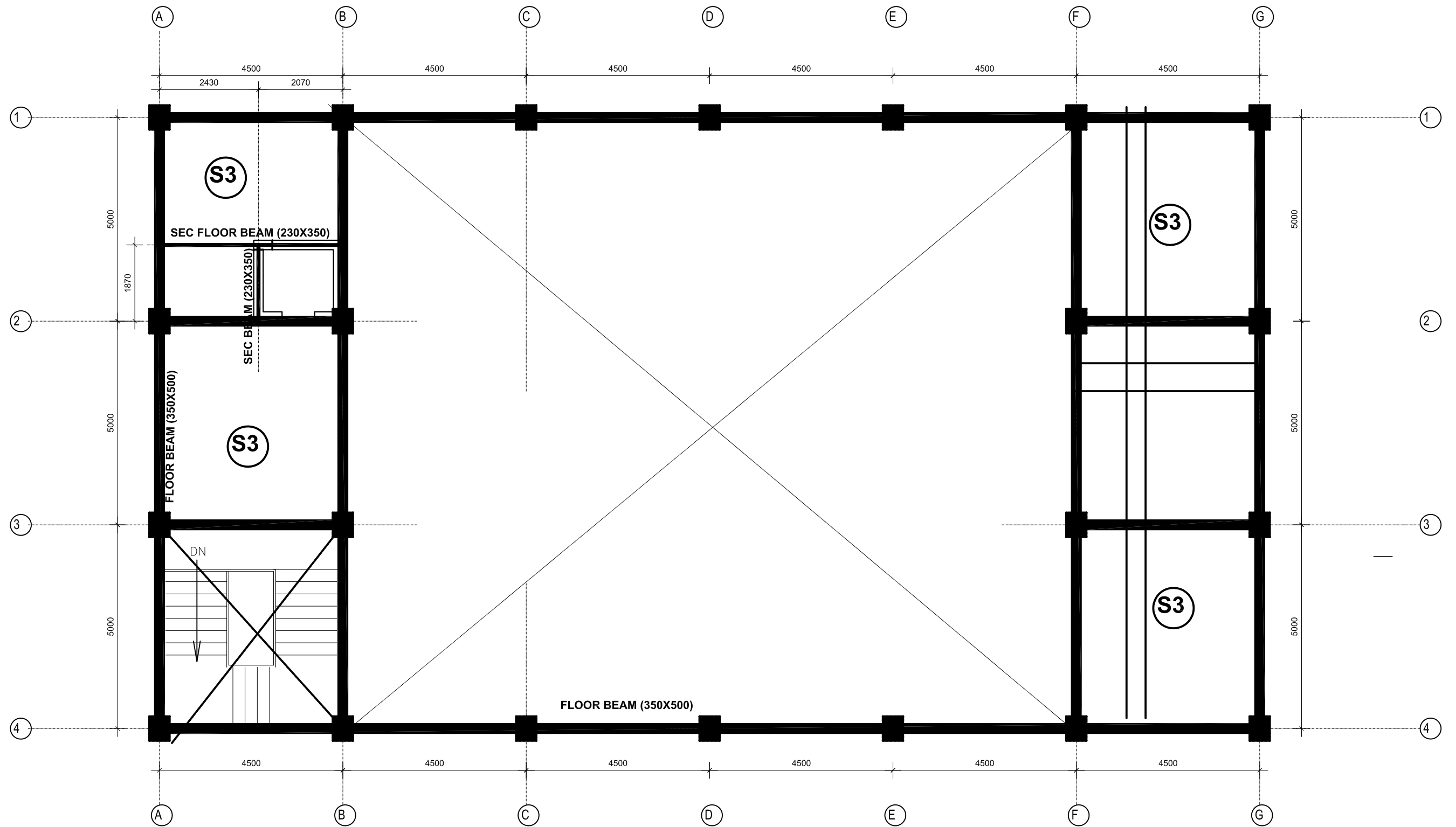
DATE : 2026
DWG NO : 3B.2
SHEET NO : 12 of 20



TOP FLOOR SLAB PLAN
BOTTOM BAR LAYOUT

NOTE :

1. Slab S2 = 135mm M25



ATTIC FLOOR SLAB PLAN
BOTTOM BAR LAYOUT

NOTE :

1. Slab S3 = 135mm M25



Government of Nepal
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Kathmandu, Nepal



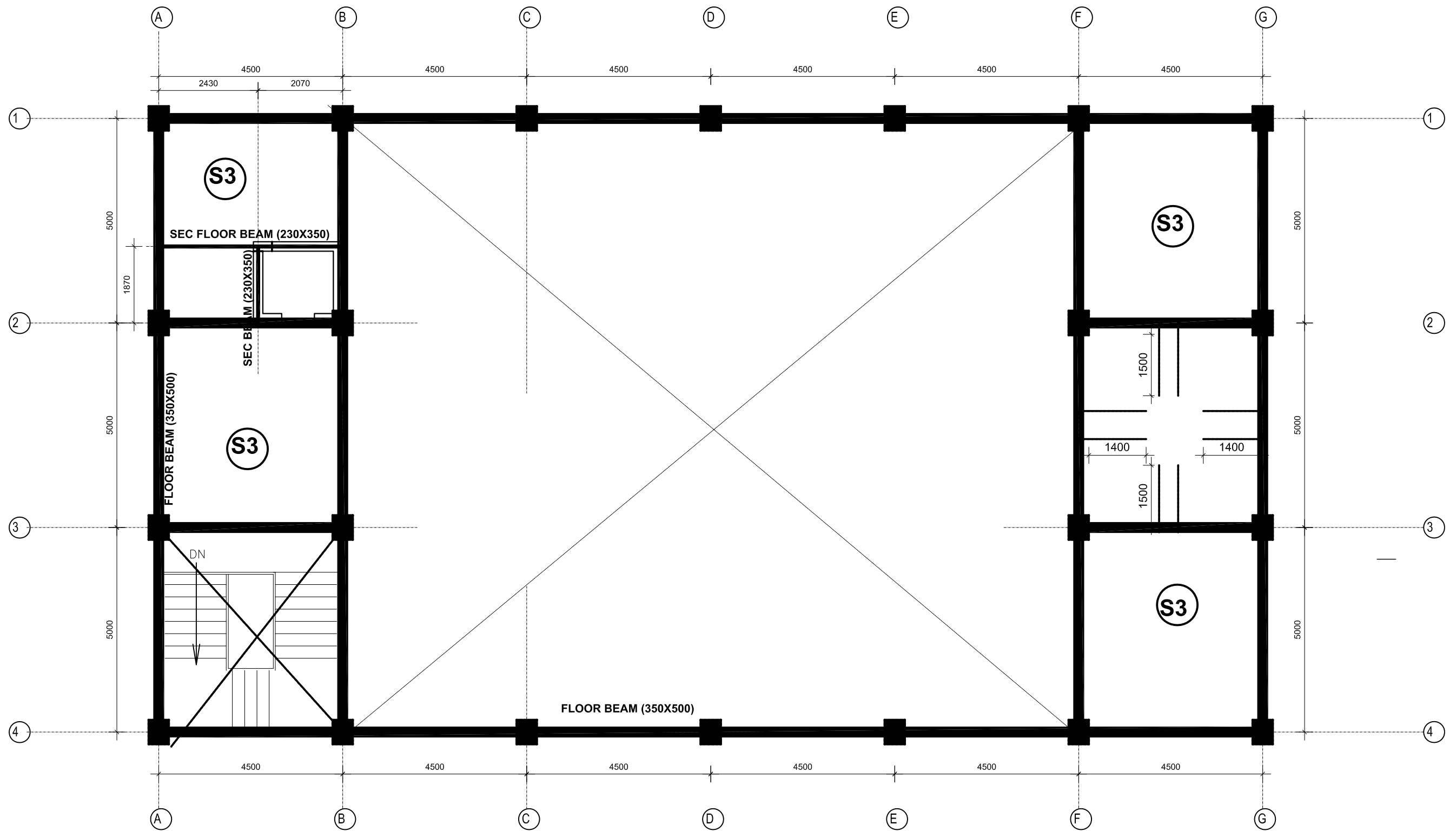
DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

ICCC Block Structure Details (Slab)

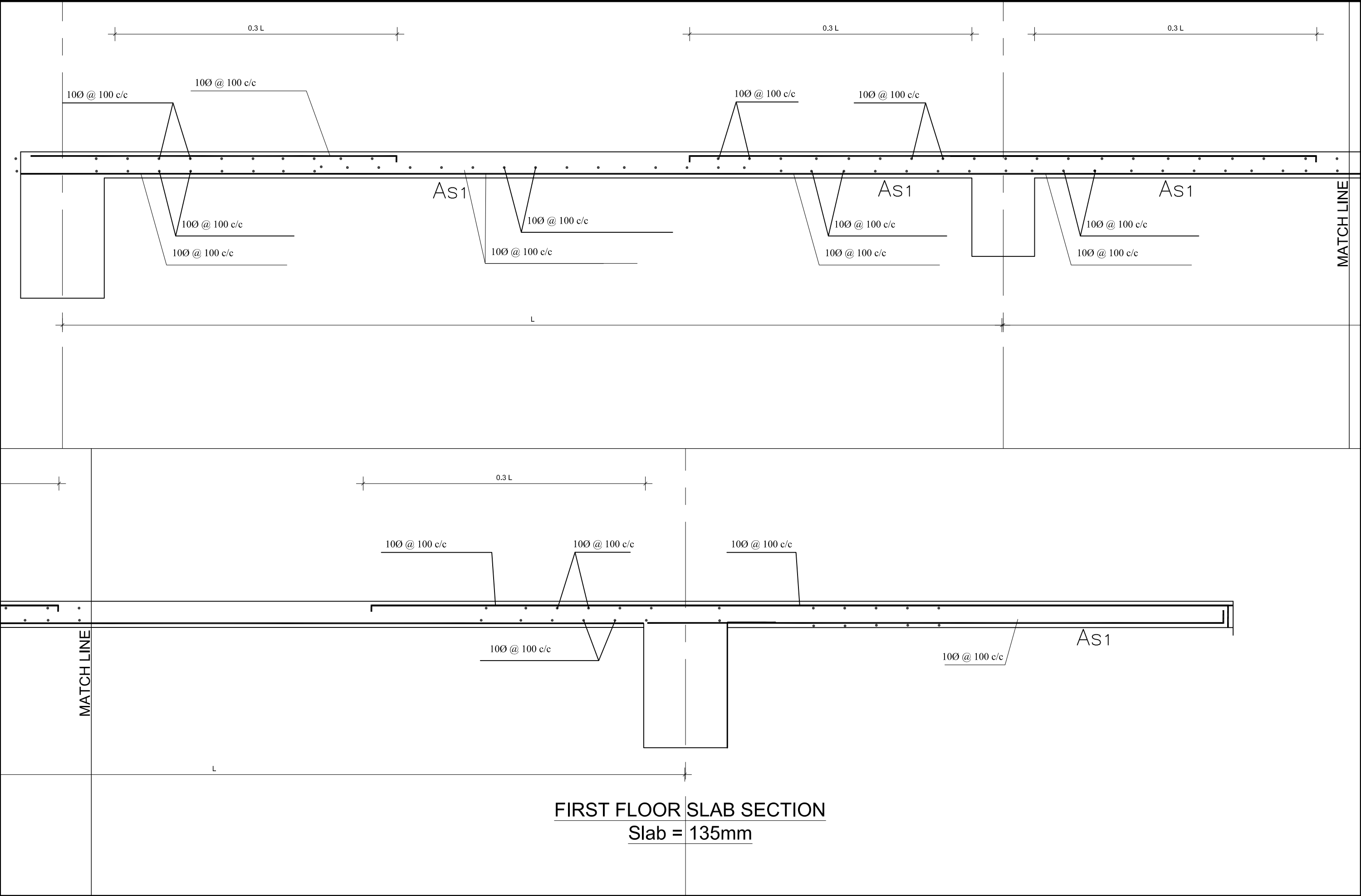
DATE : 2026
DWG NO : 3B.2
SHEET NO : 14 of 20



ATTIC FLOOR SLAB PLAN
TOP BAR LAYOUT

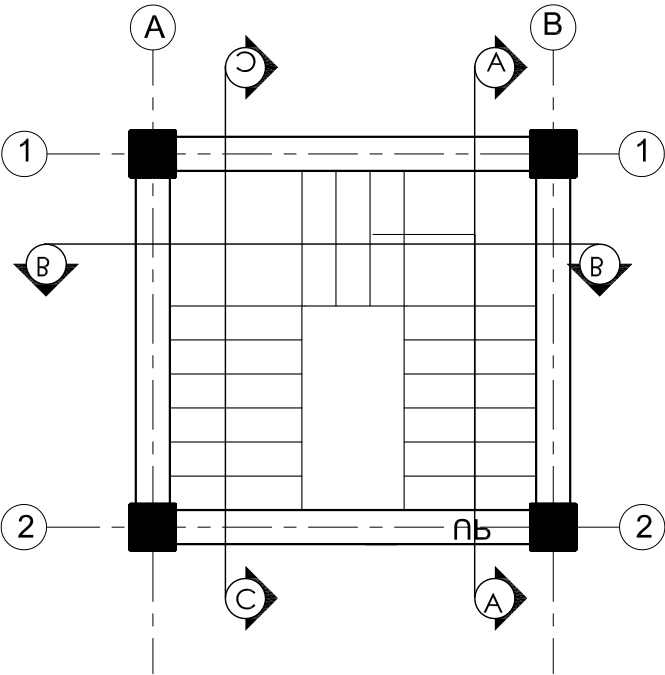
NOTE :

1. Slab S3 = 135mm M25

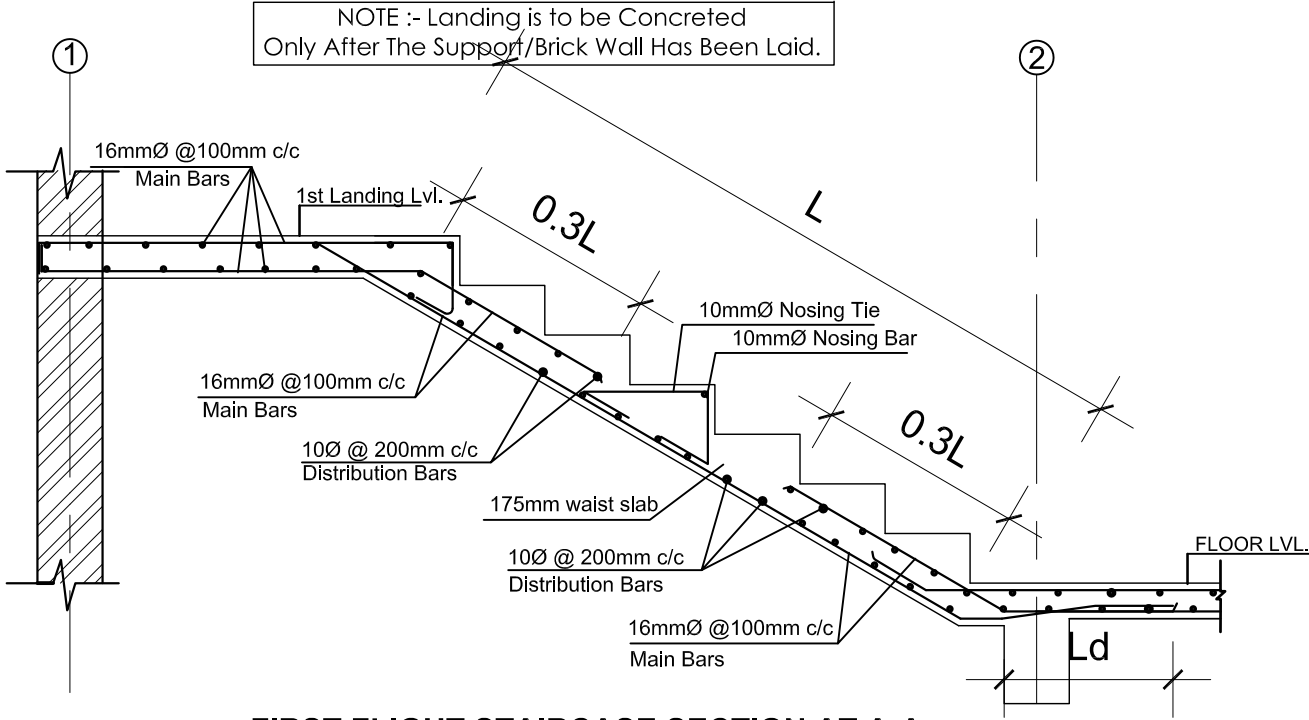


FIRST FLOOR SLAB SECTION
Slab = 135mm

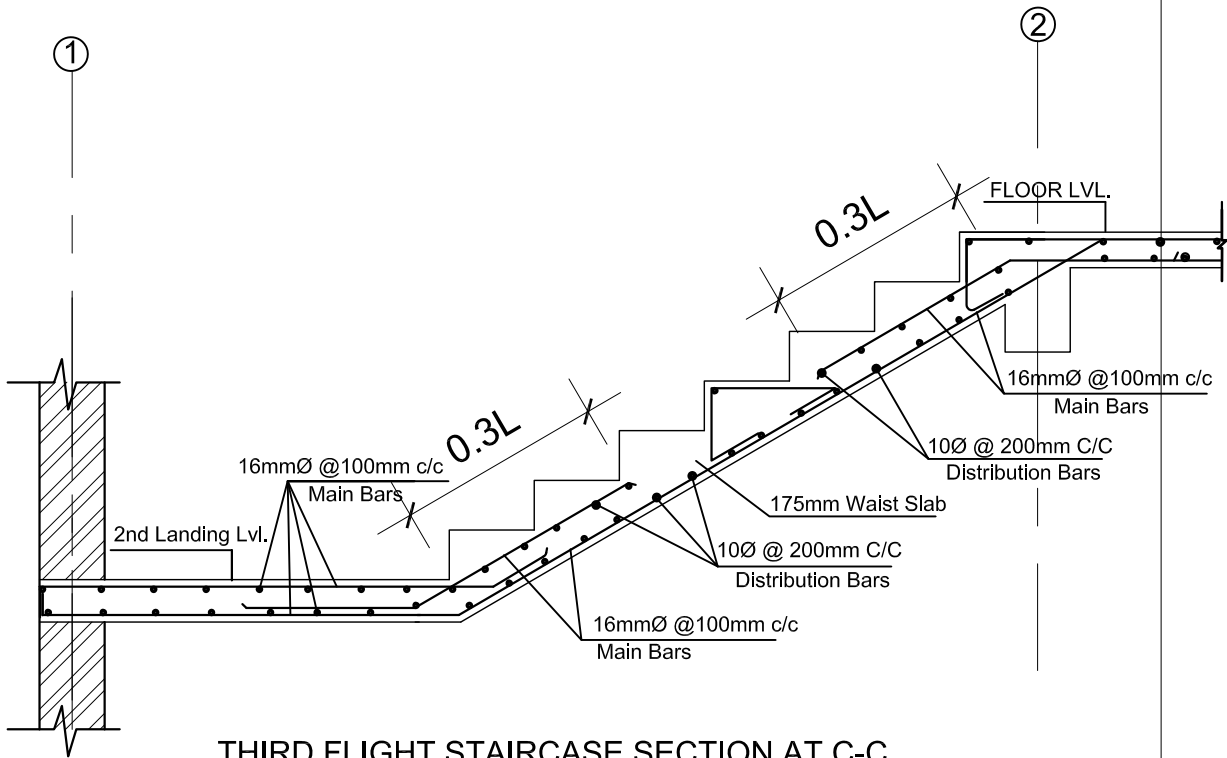
STAIRCASE DETAILS



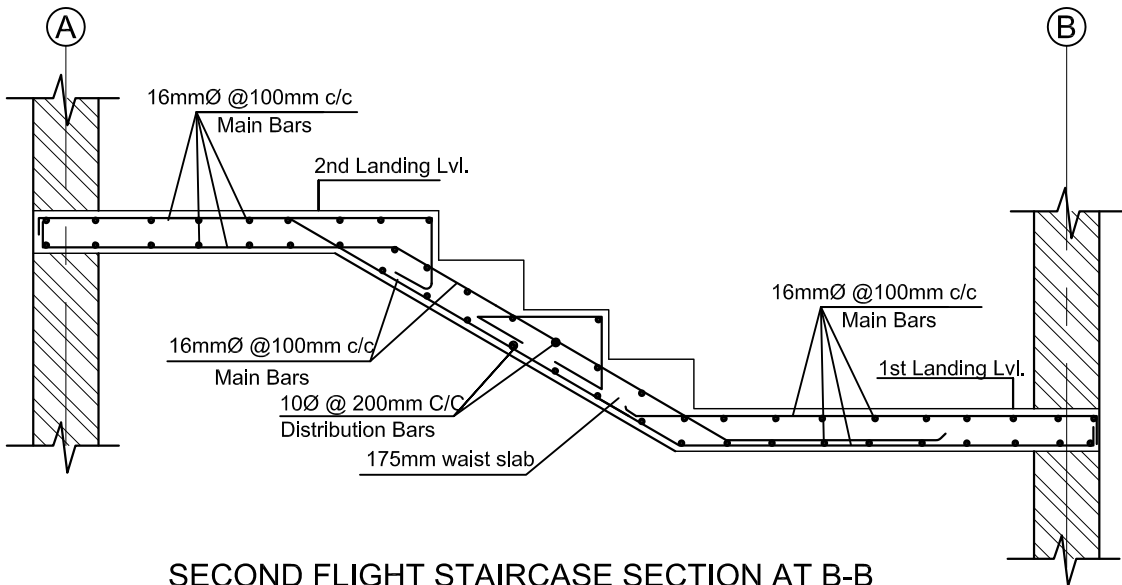
STAIRCASE DETAIL PLAN
Scale 1:100



FIRST FLIGHT STAIRCASE SECTION AT A-A
(WAIST SLAB THICKNESS 175mm)
SCALE 1:40



THIRD FLIGHT STAIRCASE SECTION AT C-C
(WAIST SLAB THICKNESS 175mm)
SCALE 1:40



SECOND FLIGHT STAIRCASE SECTION AT B-B
(WAIST SLAB THICKNESS 175mm)
SCALE 1:40

NOTE :
4. Concrete Grade = M25
5. Rebar Grade = Fe 500



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
B.N. Consultancy Pvt. Ltd. (BN)
Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal

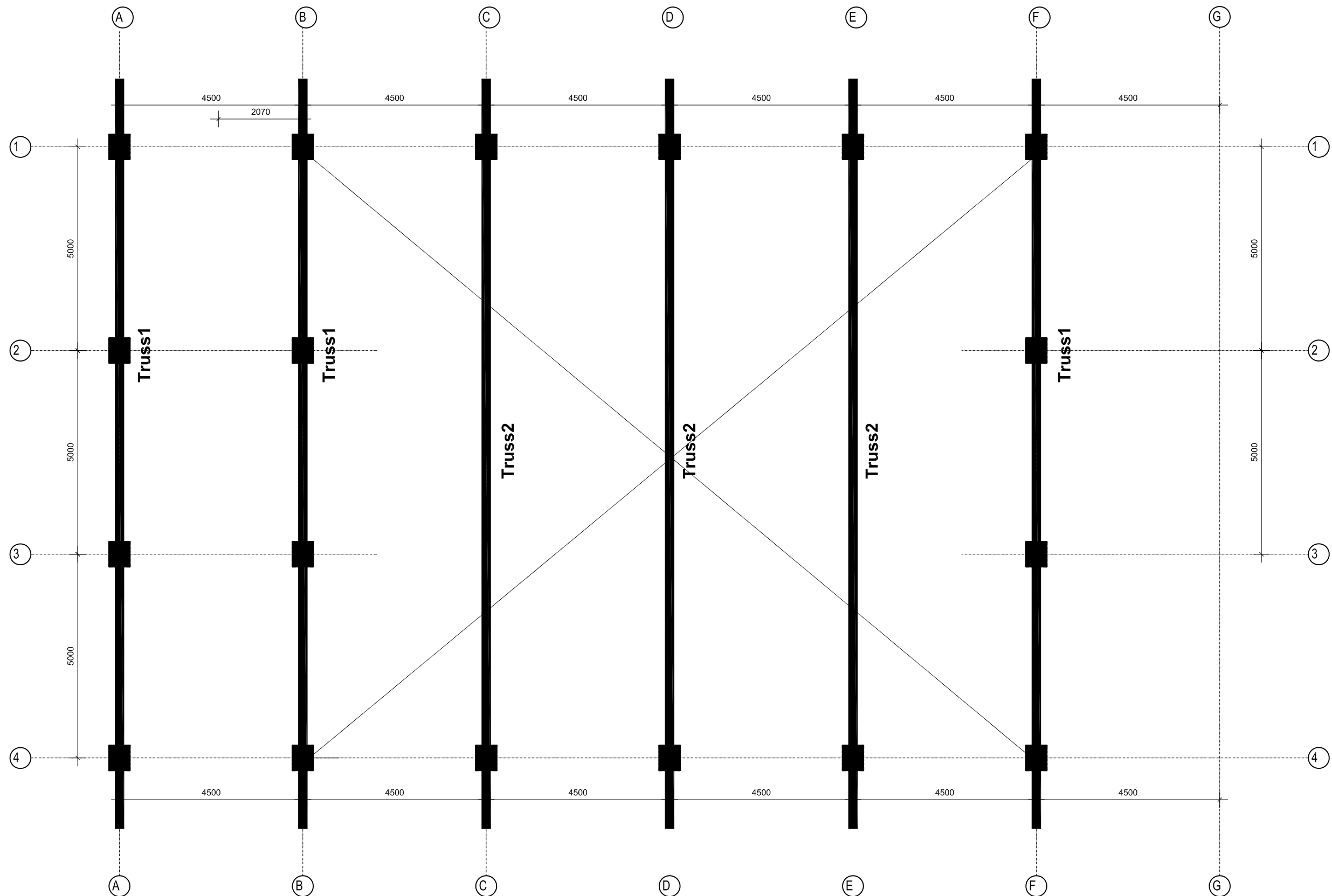


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

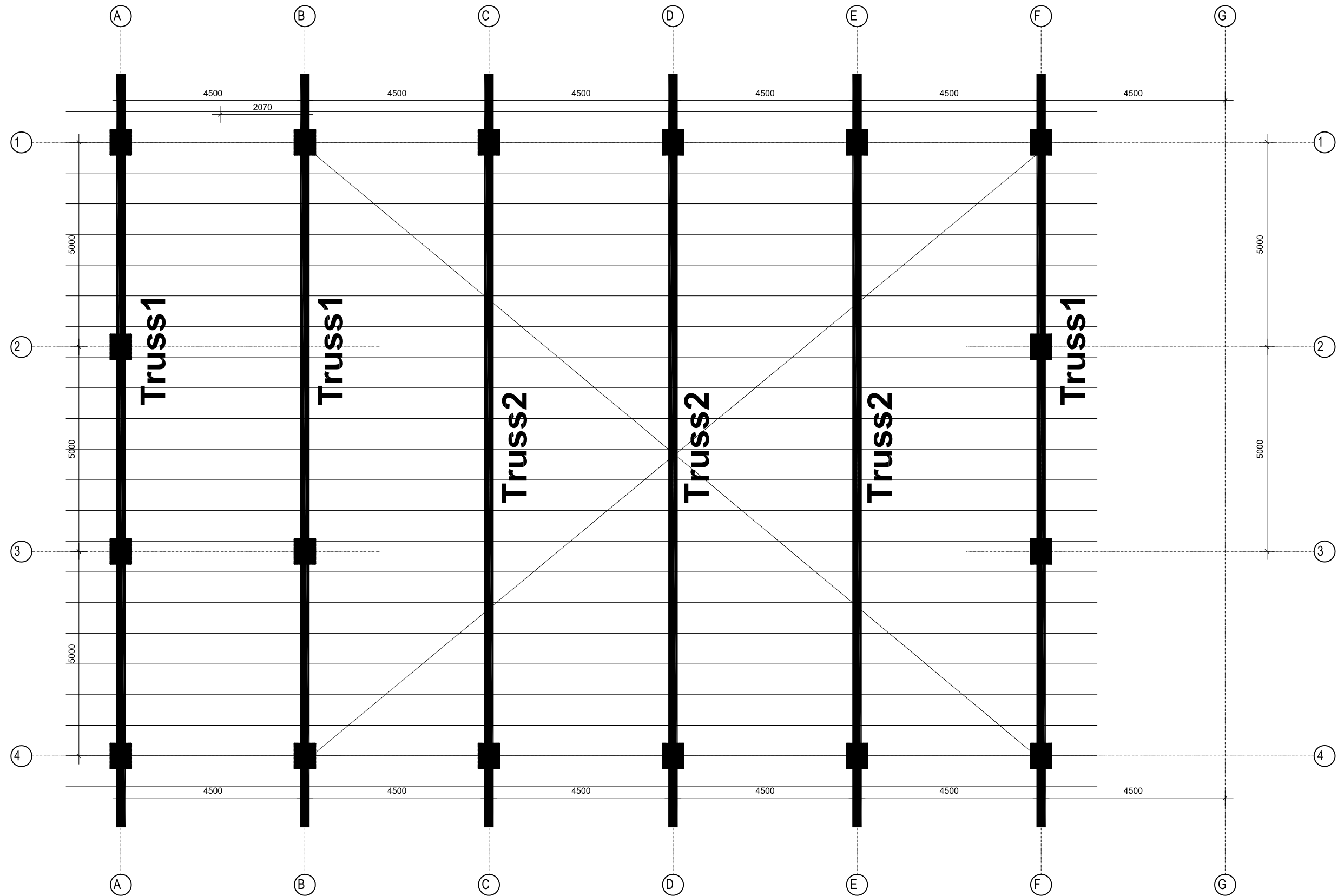
SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
ICCC Block Structure Details (Staircase)

DATE : 2026
DWG NO : 3B.2
SHEET NO : 17 of 20



TRUSS LAYOUT PLAN



TRUSS & PURLIN LAYOUT PLAN



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
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Building Design Authority Pvt. Ltd.(BDA)
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(BN-BDA-Udaya JV)
Kathmandu, Nepal

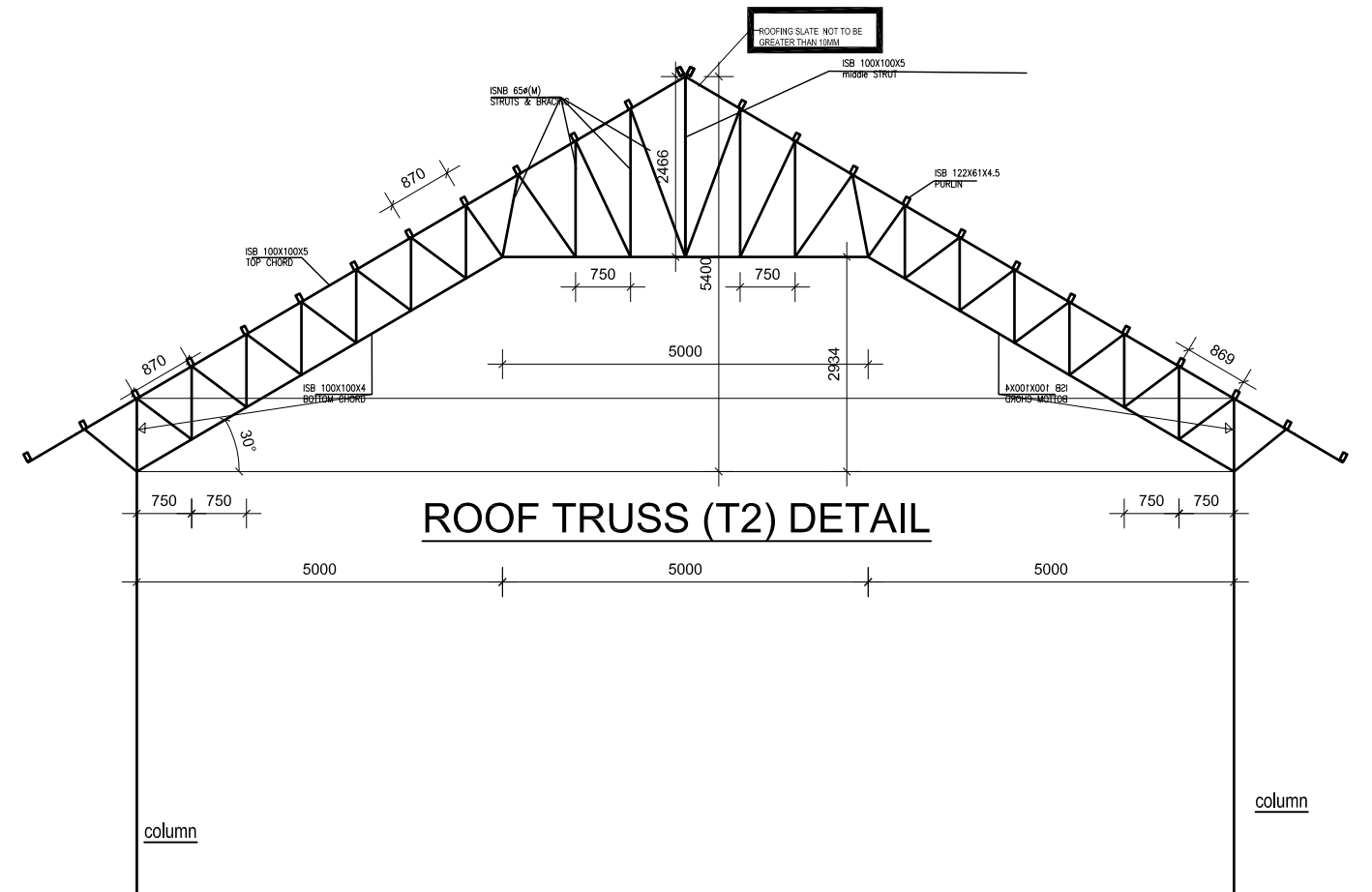
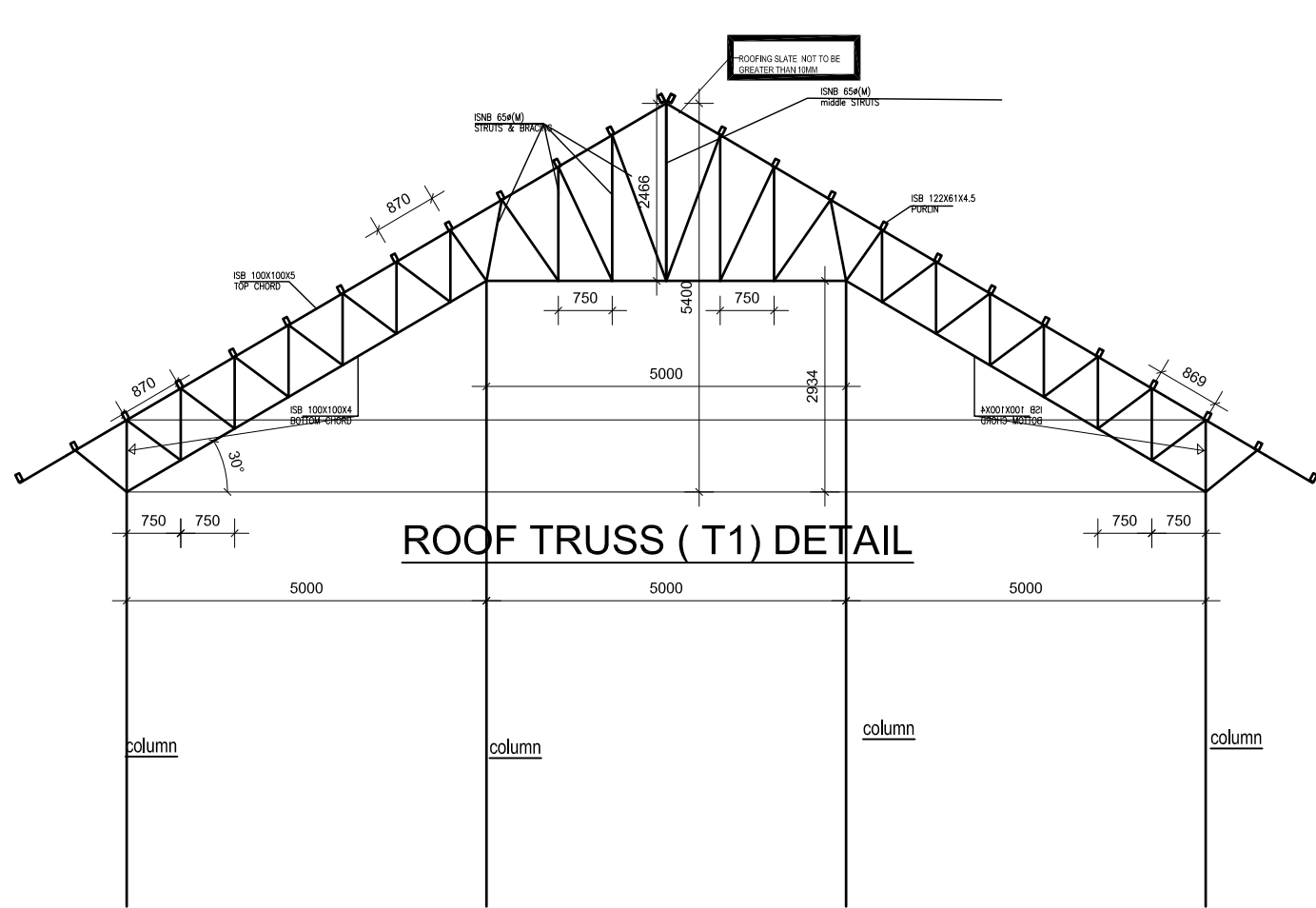


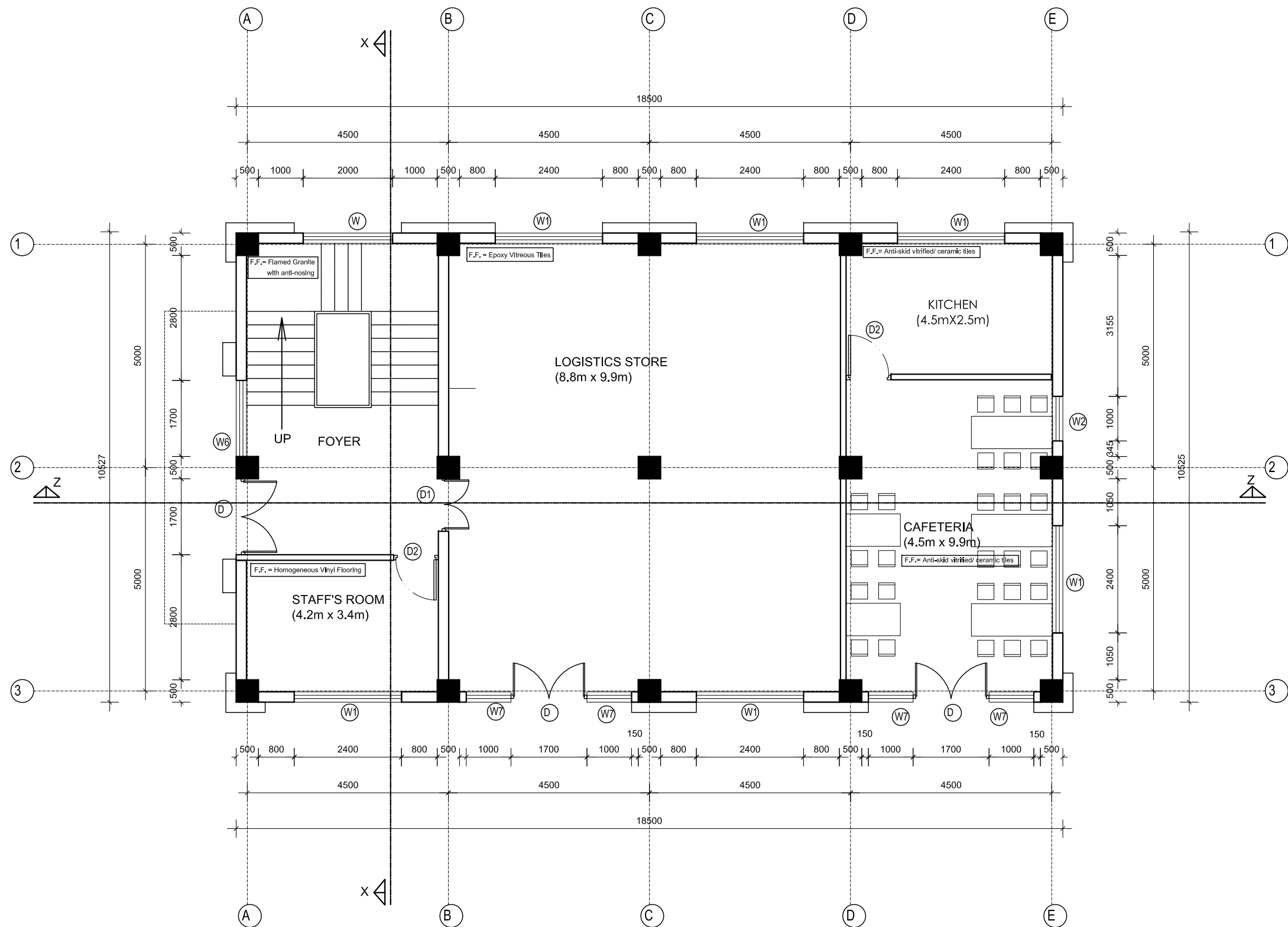
DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
ICCC Block Structure Details (Truss)

DATE : 2026
DWG NO : 3B.2
SHEET NO : 19 of 20





GROUND FLOOR PLAN
(CAFETERIA/ STORE/ STAFF QUARTER)
(Area: 192.80 sq.m.)

DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	No.	REMARKS
1	W	2000x1500	1	
2	W1	2400x1500	6	
3	W2	1000x1500	1	
4	W6	1700x2400	1	
5	W7	1000x2400	4	

S.N.	SYMBOL	SIZES	No.	REMARKS
1	D	1700x2400	3	
2	D1	1200x2400	1	
3	D2	1000x2400	1	



Government of Nepal
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Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal

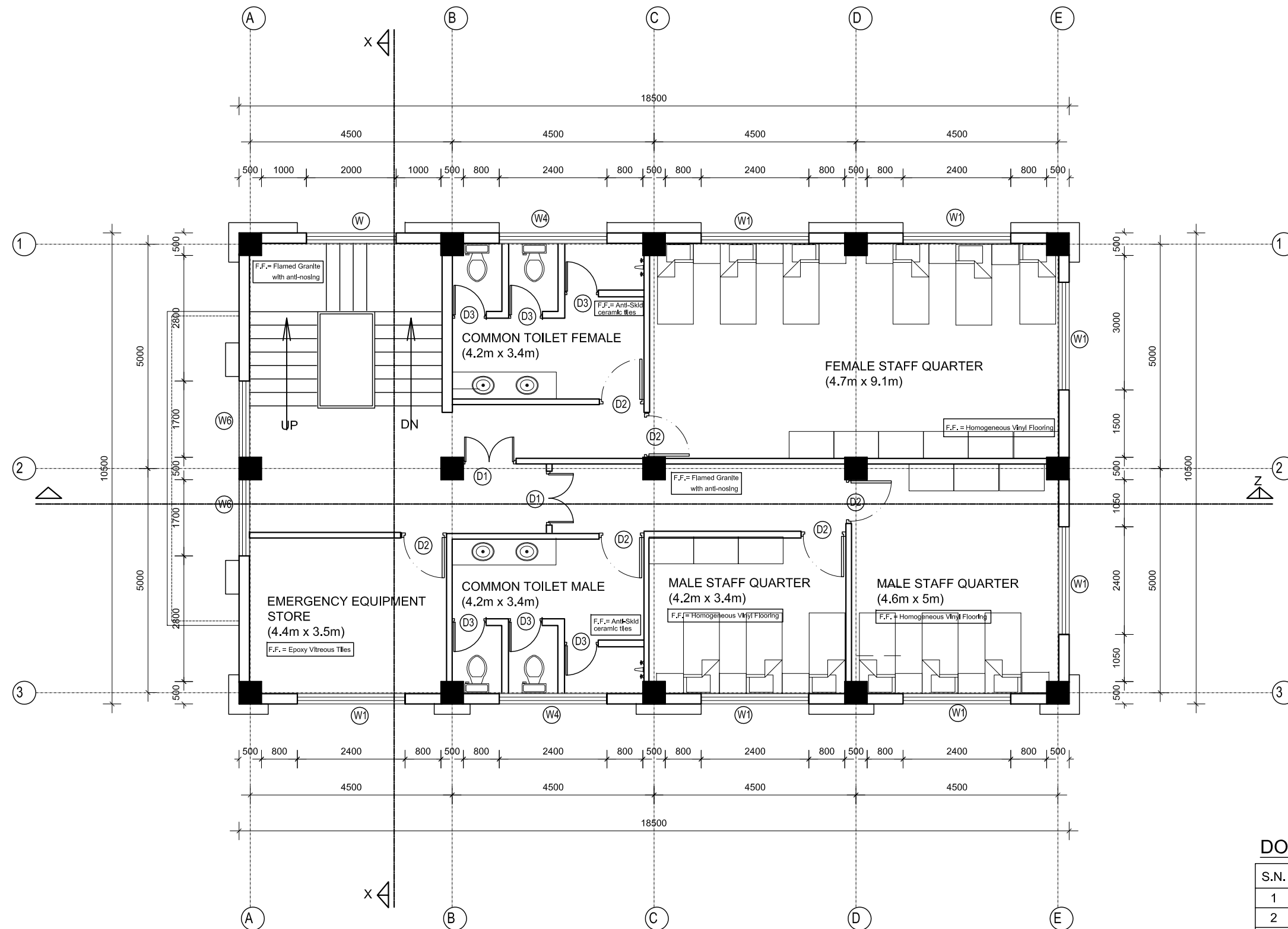


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Dormitory Block (Cafeteria-Staff Quarter-Store) Details

DATE : 2026
DWG NO : 3C
SHEET NO : 1 of 8



FIRST FLOOR PLAN
(CAFETERIA/ STORE/ STAFF QUARTER)
(Area: 192.80 sq.m.)

DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	No.	REMARKS
1	W	2000x1500	1	
2	W1	2400x1500	7	
3	W4	2400X600	2	
4	W6	1700x2400	2	

S.N.	SYMBOL	SIZES	No.	REMARKS
1	D1	1200x2400	2	
2	D2	1000x2400	6	
3	D3	750X2100	6	



Government of Nepal
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Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal

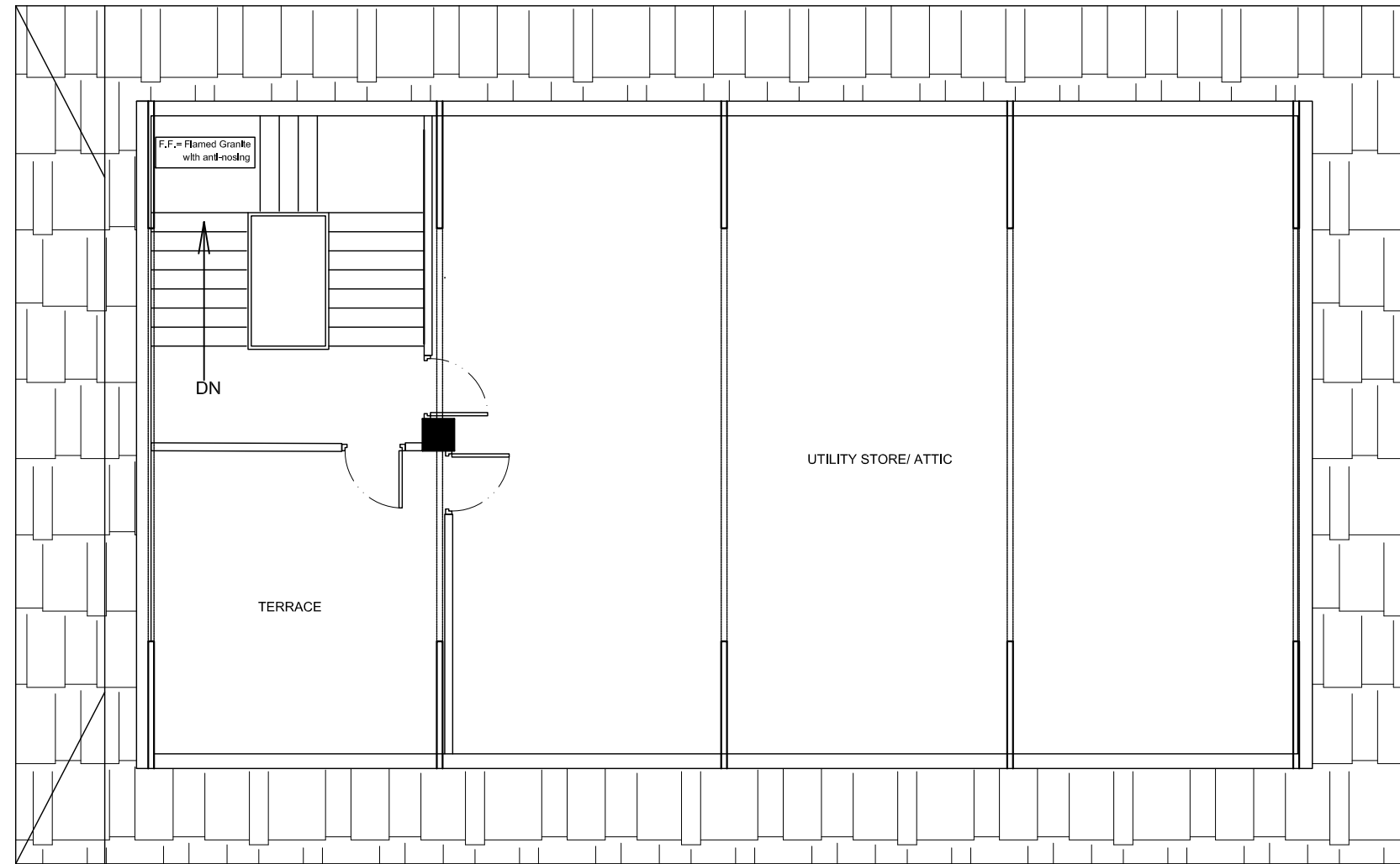


DESIGNED BY :
 DRAWN BY :
 CHECKED BY : Indra Kumar Paudyal
 APPROVED BY :

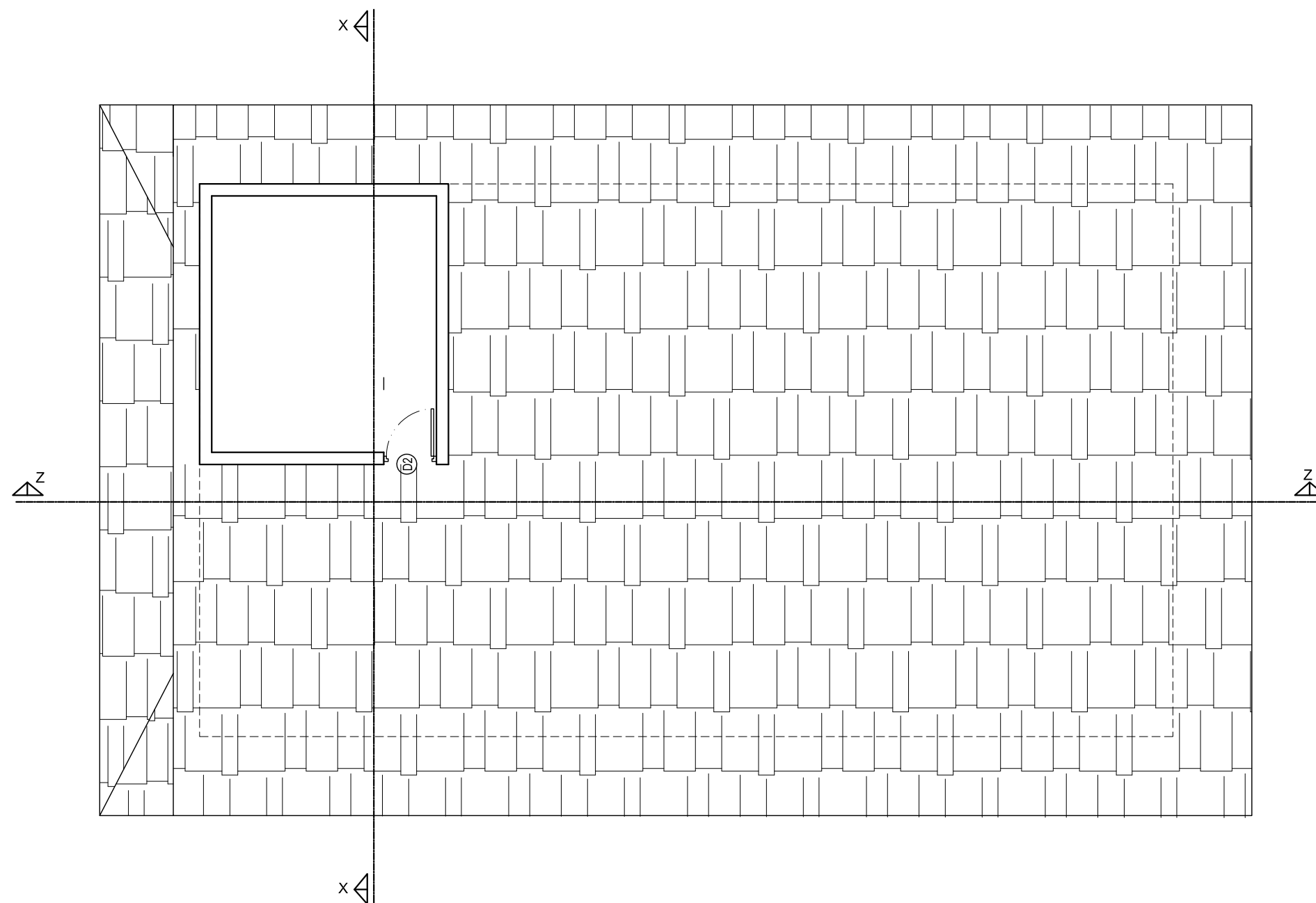
SCALE :
 1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Dormitory Block (Cafeteria-Staff Quarter-Store) Details

DATE : 2026
 DWG NO : 3C
 SHEET NO : 2 of 8



ATTIC FLOOR PLAN
(CAFETERIA/ STORE/ STAFF QUARTER)
(Area: 192.80 sq.m.)



TOP FLOOR PLAN (ADMIN)
(Area: 26.97 sq.m.)



Government of Nepal
Ministry of Infrastructure Development
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Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
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Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal

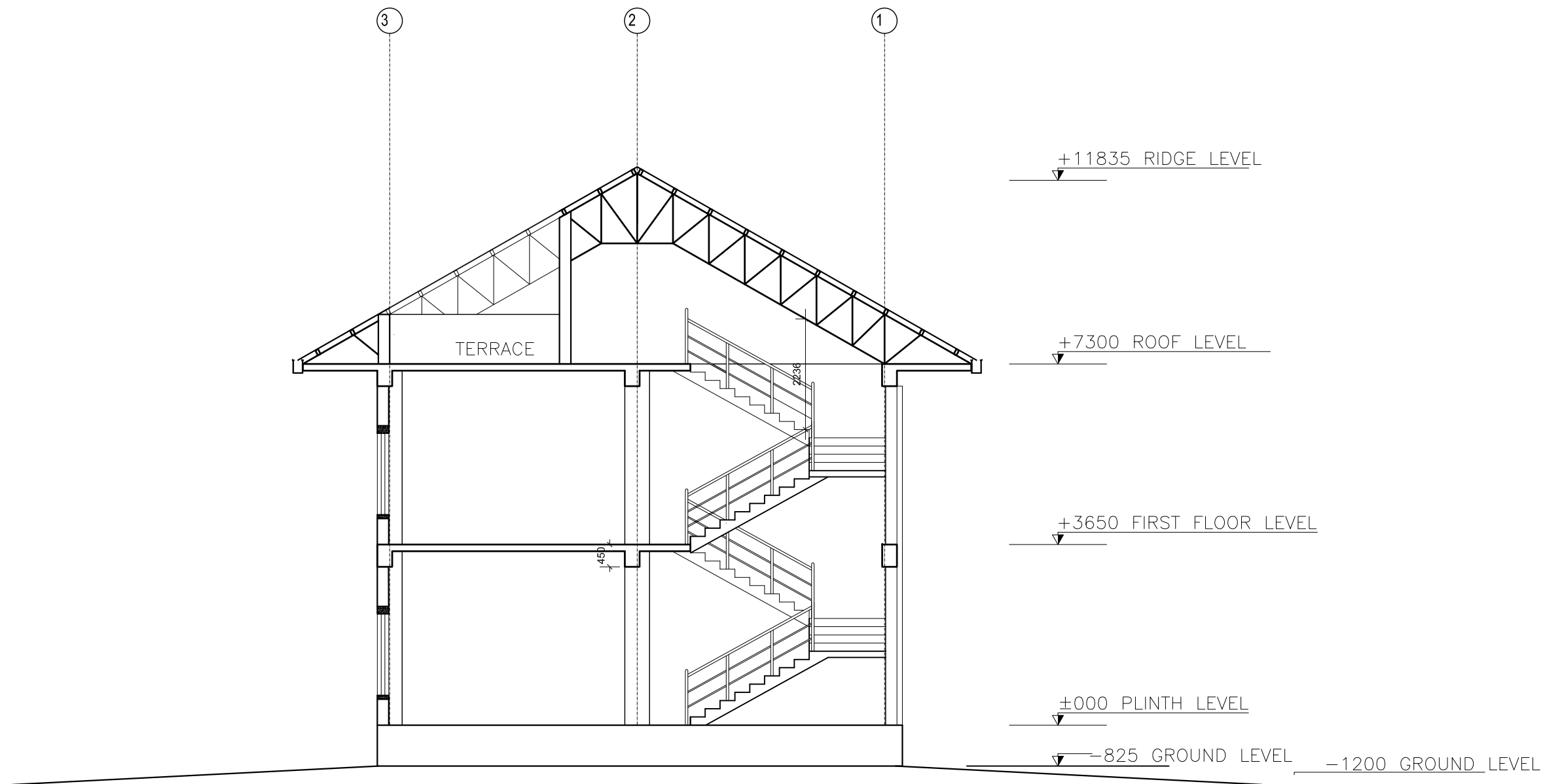


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Dormitory Block (Cafeteria-Staff Quarter-Store) Details

DATE : 2026
DWG NO : 3C
SHEET NO : 4 of 8



SECTION AT X-X



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
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Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal

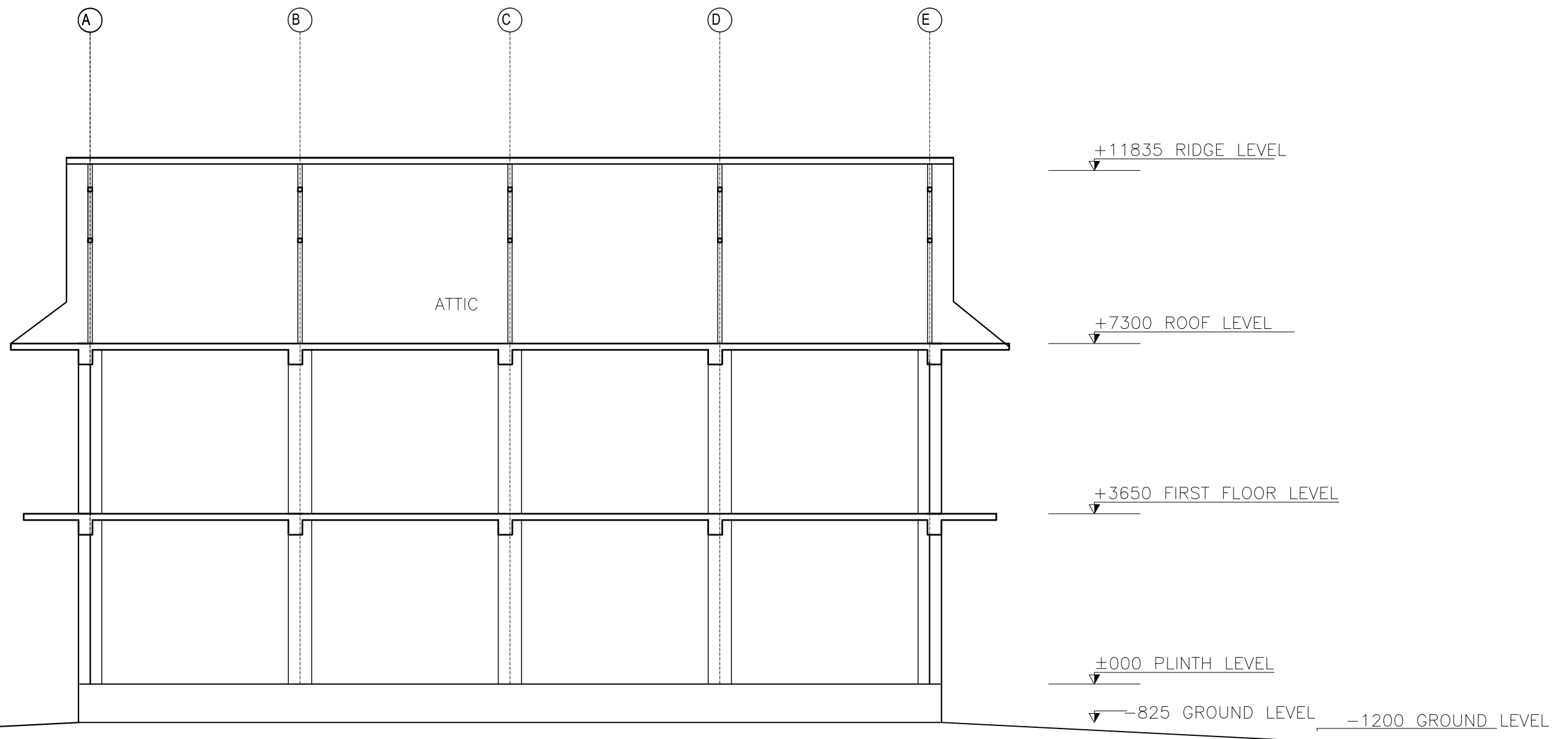


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Dormitory Block (Cafeteria-Staff Quarter-Store) Details

DATE : 2026
DWG NO : 3C
SHEET NO : 5 of 8



SECTION AT Z-Z



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
B.N. Consultancy Pvt. Ltd. (BN)
Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal



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DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

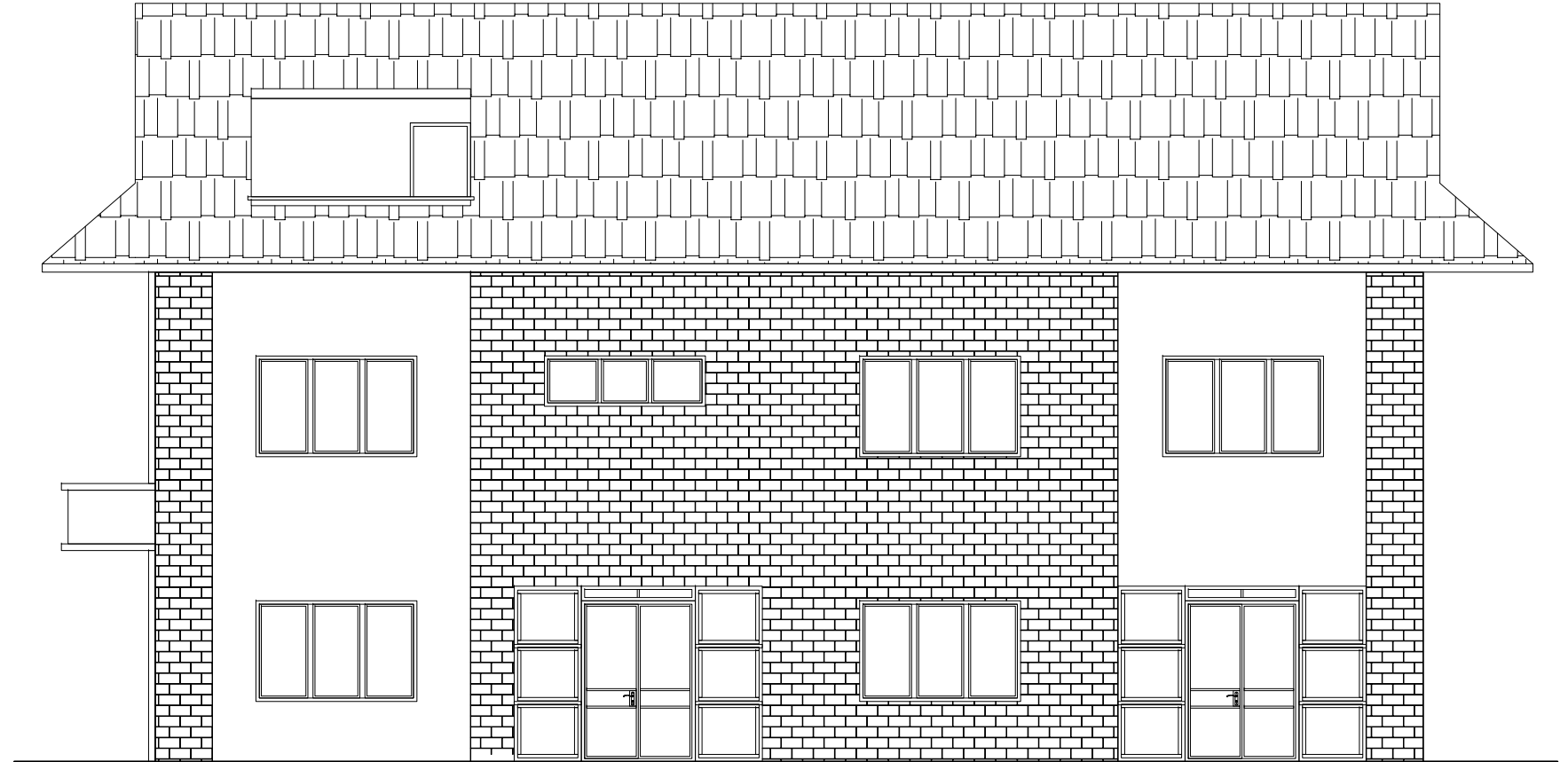
SCALE :
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PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Dormitory Block (Cafeteria-Staff Quarter-Store) Details

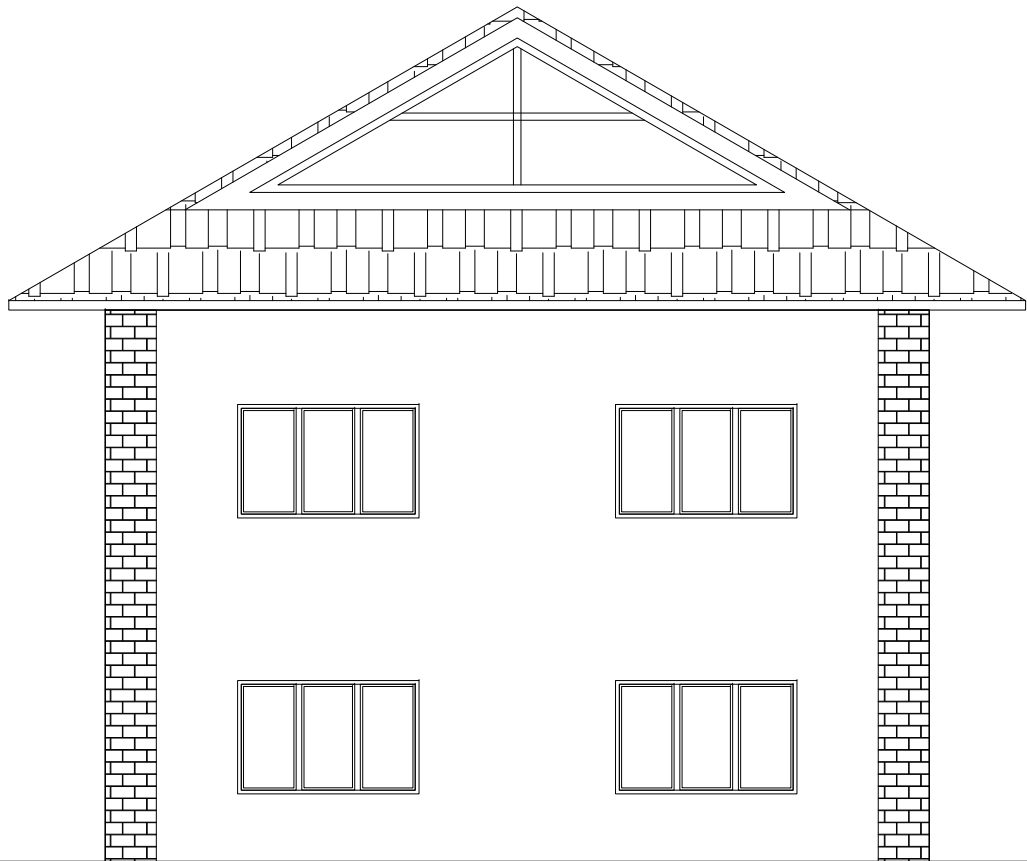
DATE : 2026
DWG NO : 3C
SHEET NO : 6 of 8



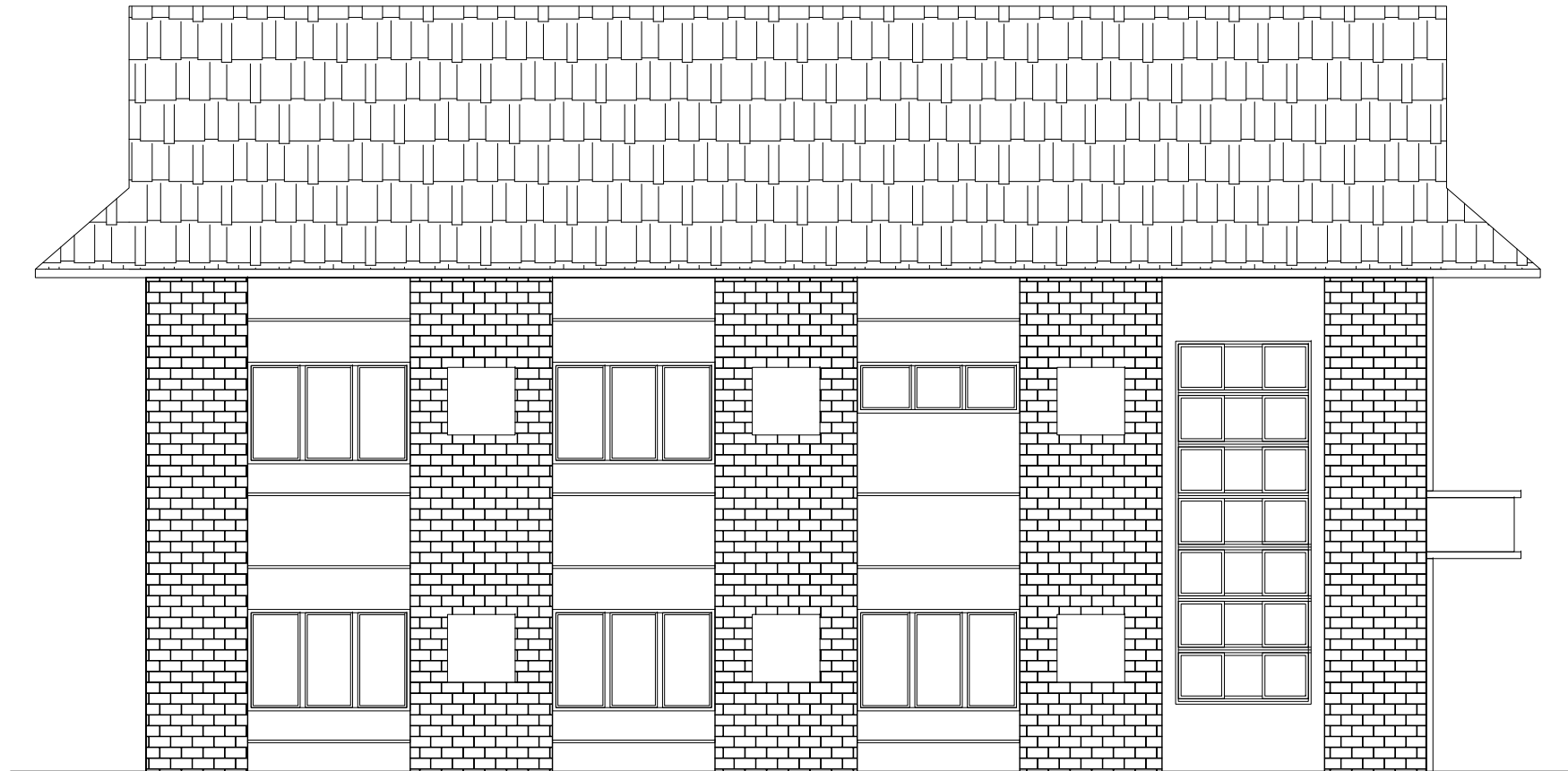
FRONT ELEVATION



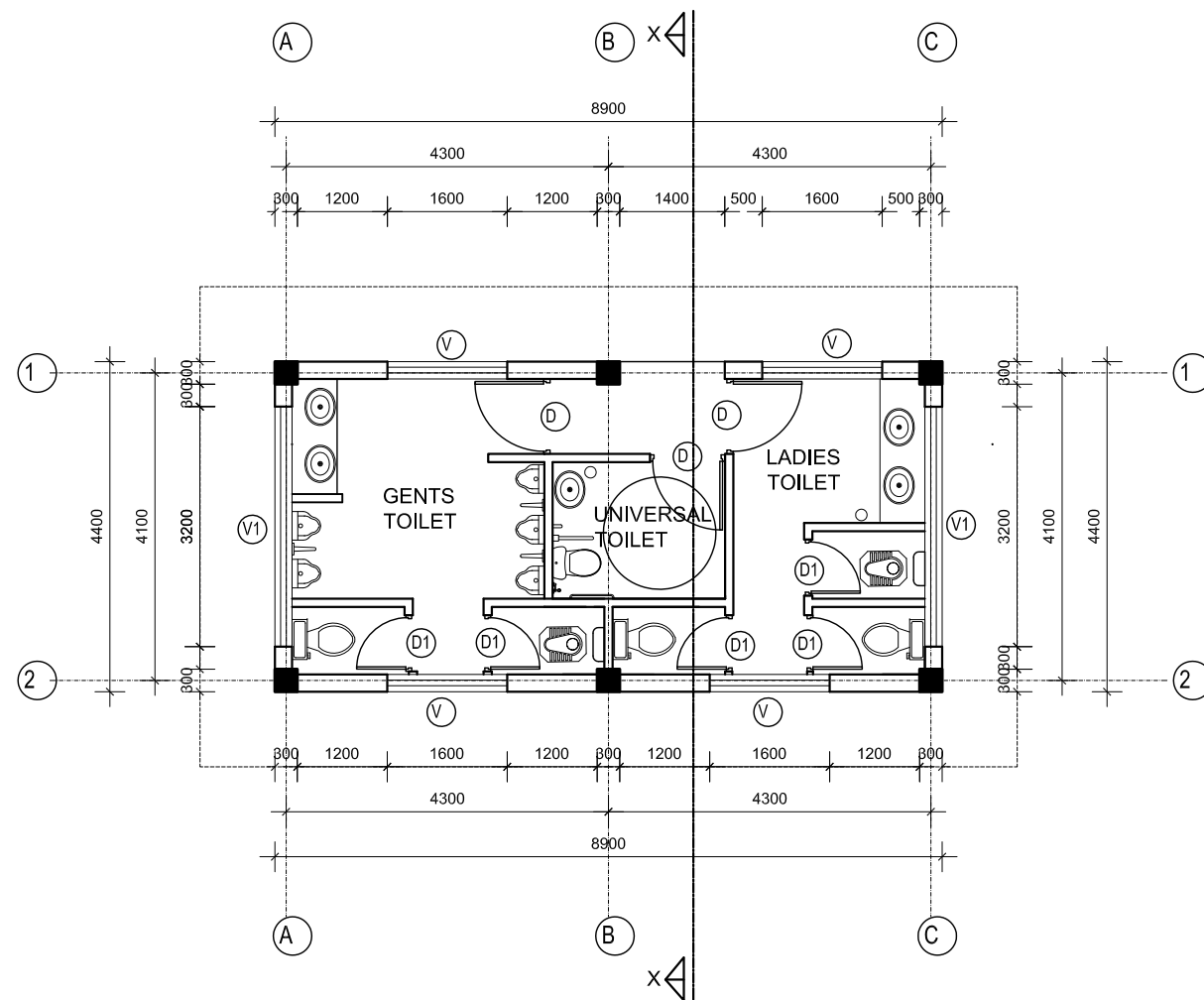
SIDE ELEVATION



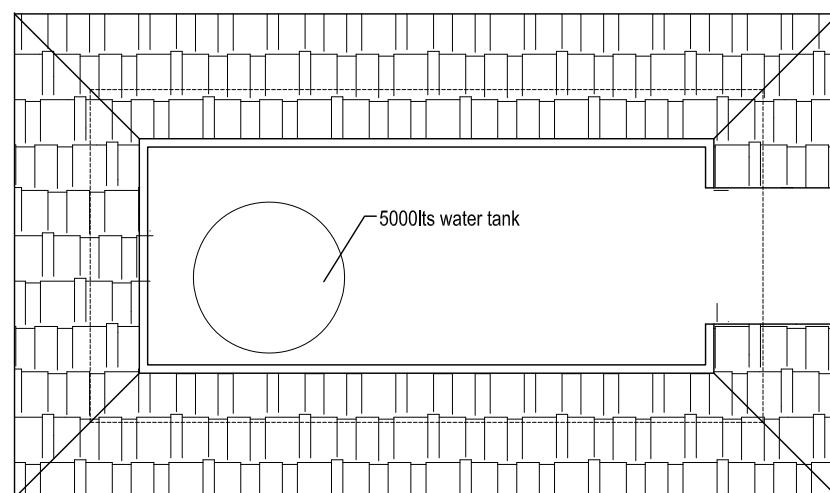
BACK ELEVATION



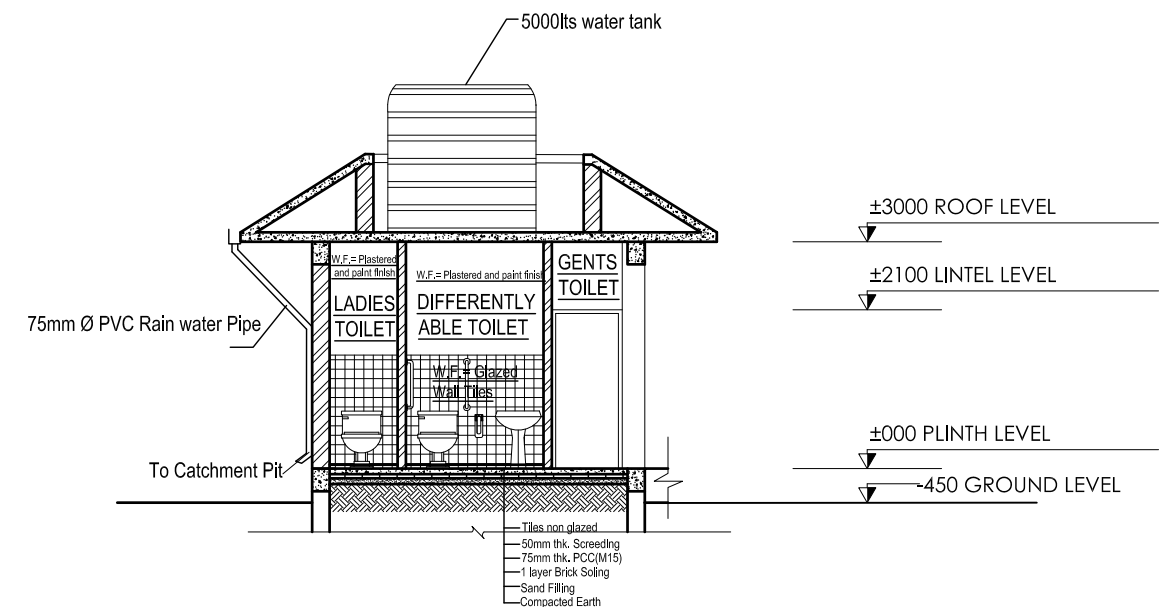
SIDE ELEVATION



COMMON TOILET BLOCK PLAN
(Area: 39.18 sq.m.)



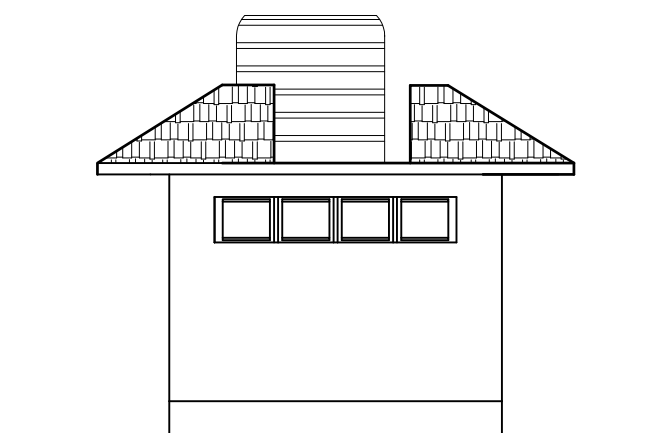
COMMON TOILET BLOCK ROOF PLAN



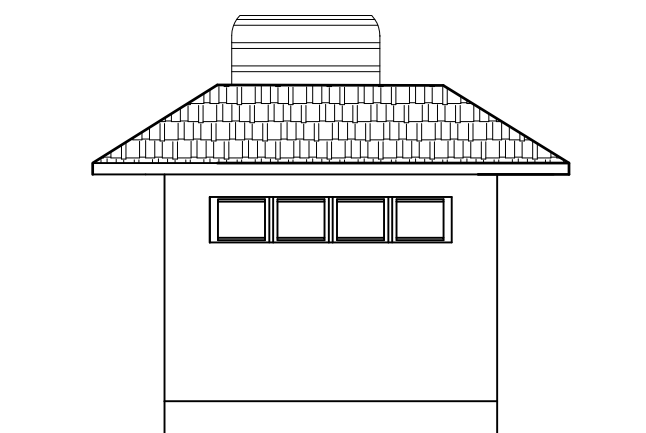
SECTION X-X

DOORS & WINDOWS SCHEDULE:

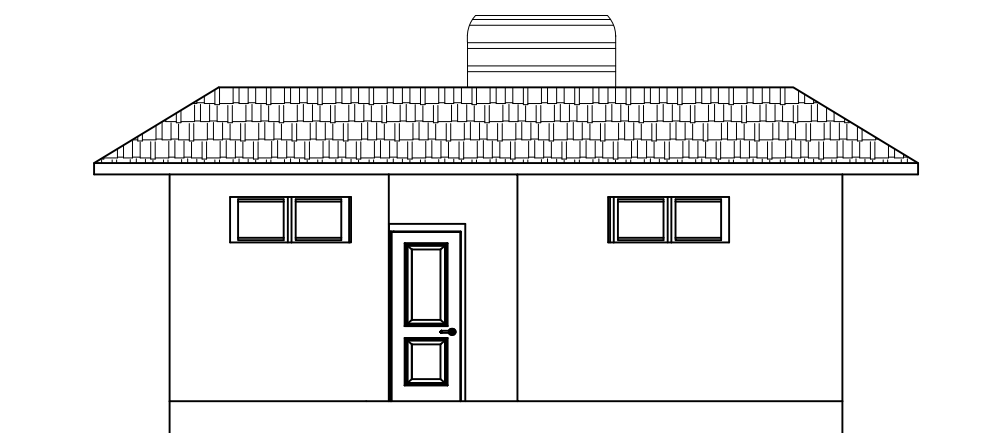
S.N.	SYMBOL	SIZES	No.	REMARKS
1	V	1600x600	4	
2	V1	3200x600	2	
3	D	1000x2350	3	
4	D1	750x2350	5	



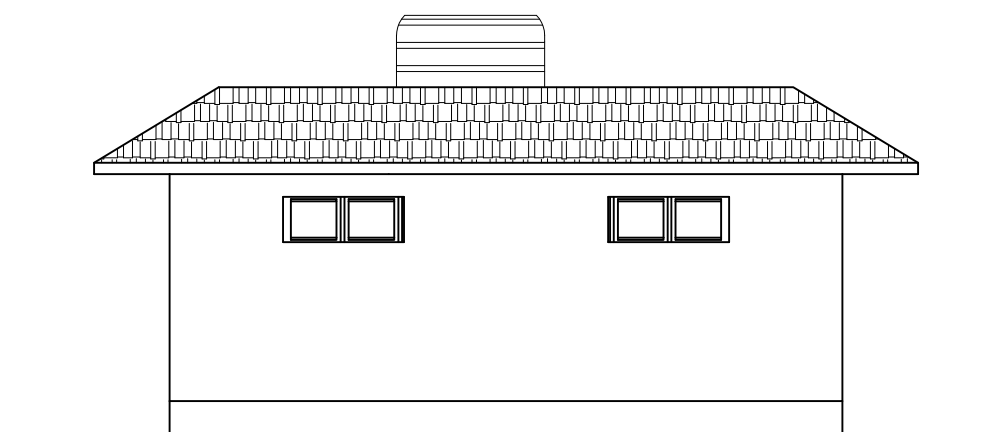
EAST SIDE ELEVATION



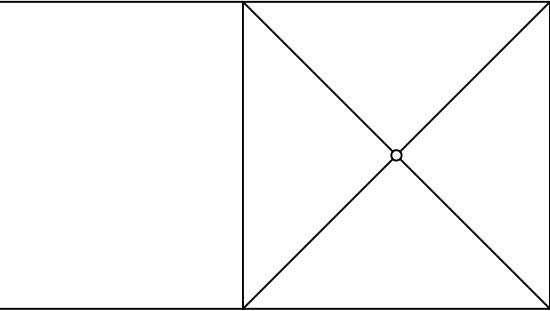
WEST SIDE ELEVATION



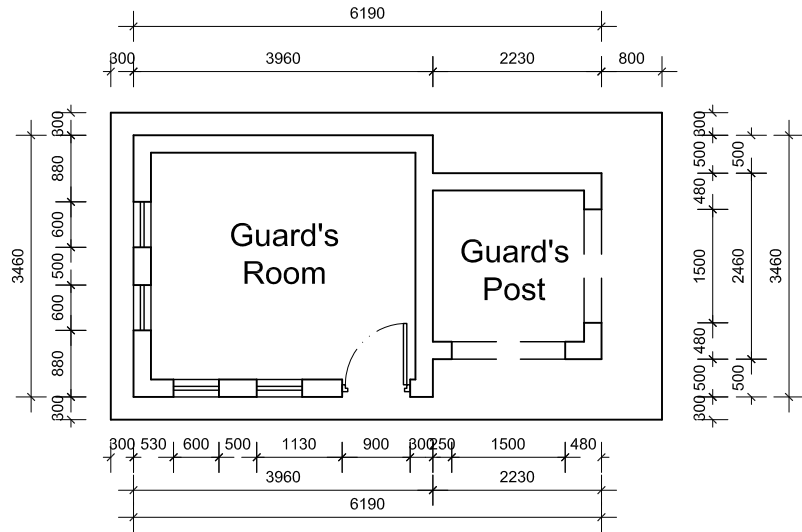
NORTH SIDE ELEVATION



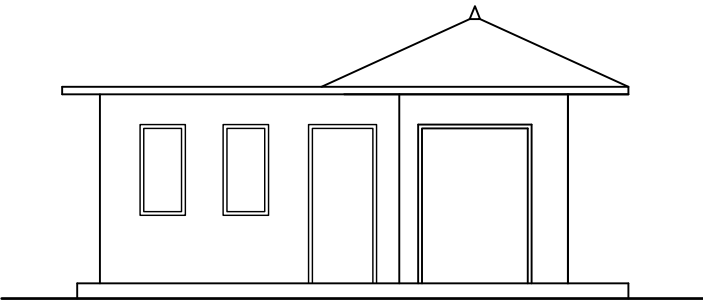
SOUTH SIDE ELEVATION



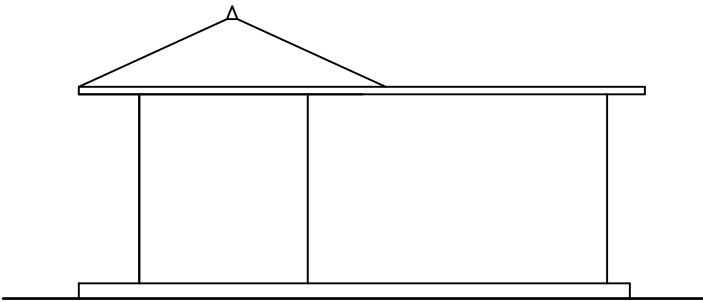
ROOF PLAN



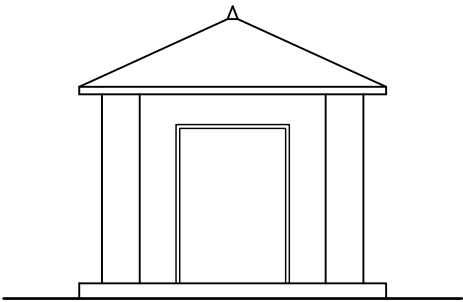
PLAN



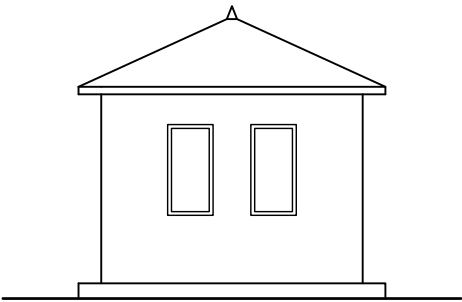
FRONT ELEVATION



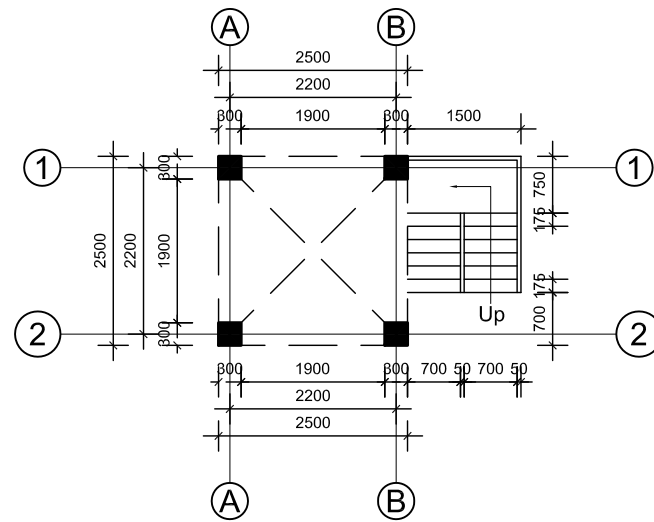
BACK ELEVATION



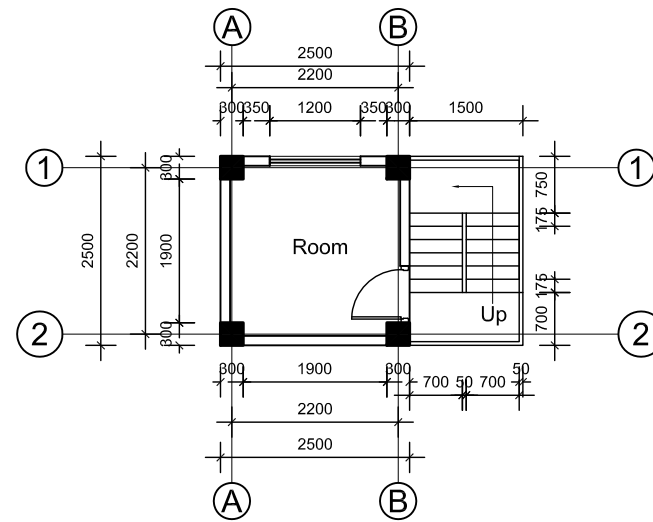
SIDE ELEVATION



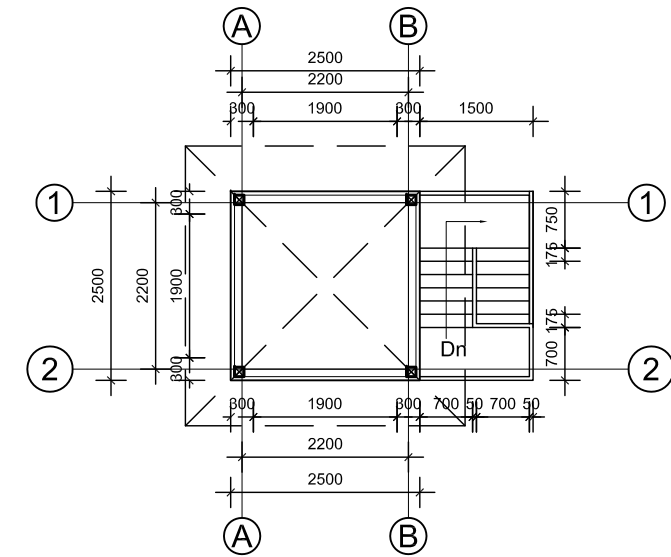
SIDE ELEVATION



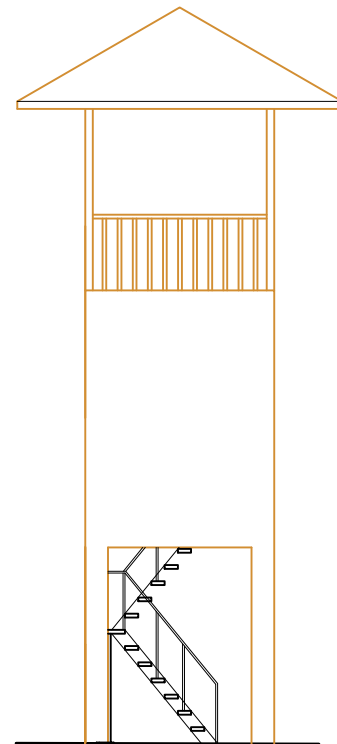
GROUND FLOOR PLAN
SENTRY POST
Coverage = 6.25 sq.m.



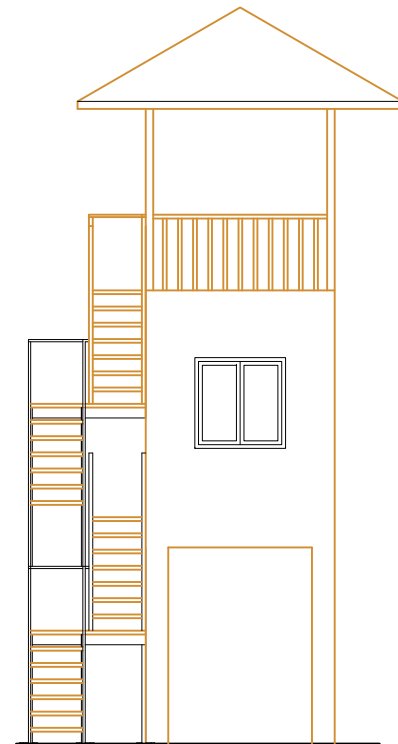
FIRST FLOOR PLAN
SENTRY POST
Coverage = 6.25 sq.m.



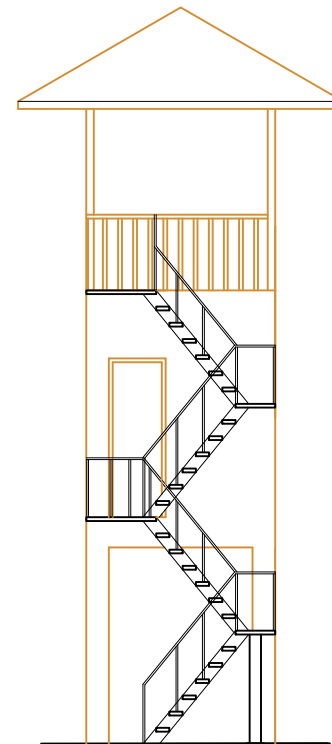
TOP FLOOR PLAN
SENTRY POST
Coverage = 6.25 sq.m.



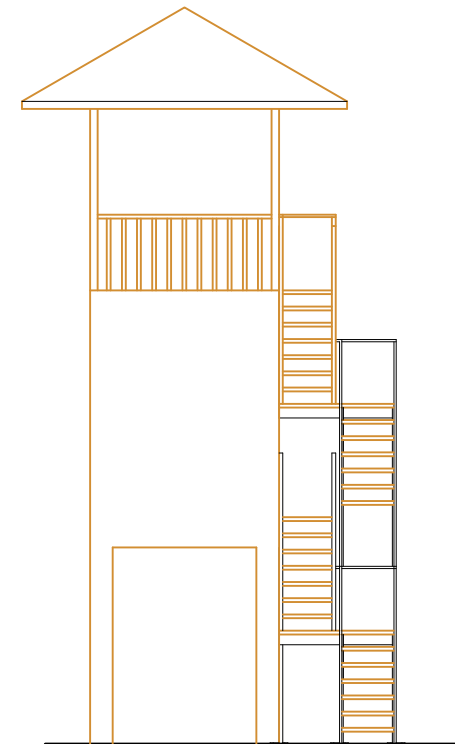
BACK ELEVATION



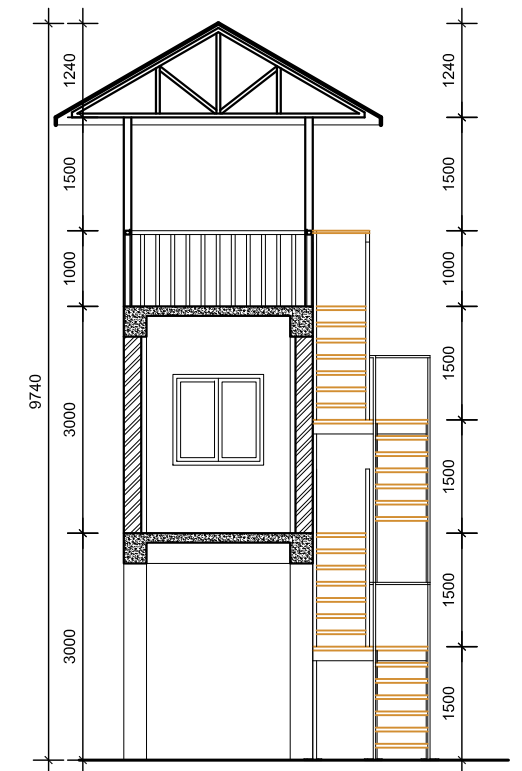
RIGHT SIDE ELEVATION



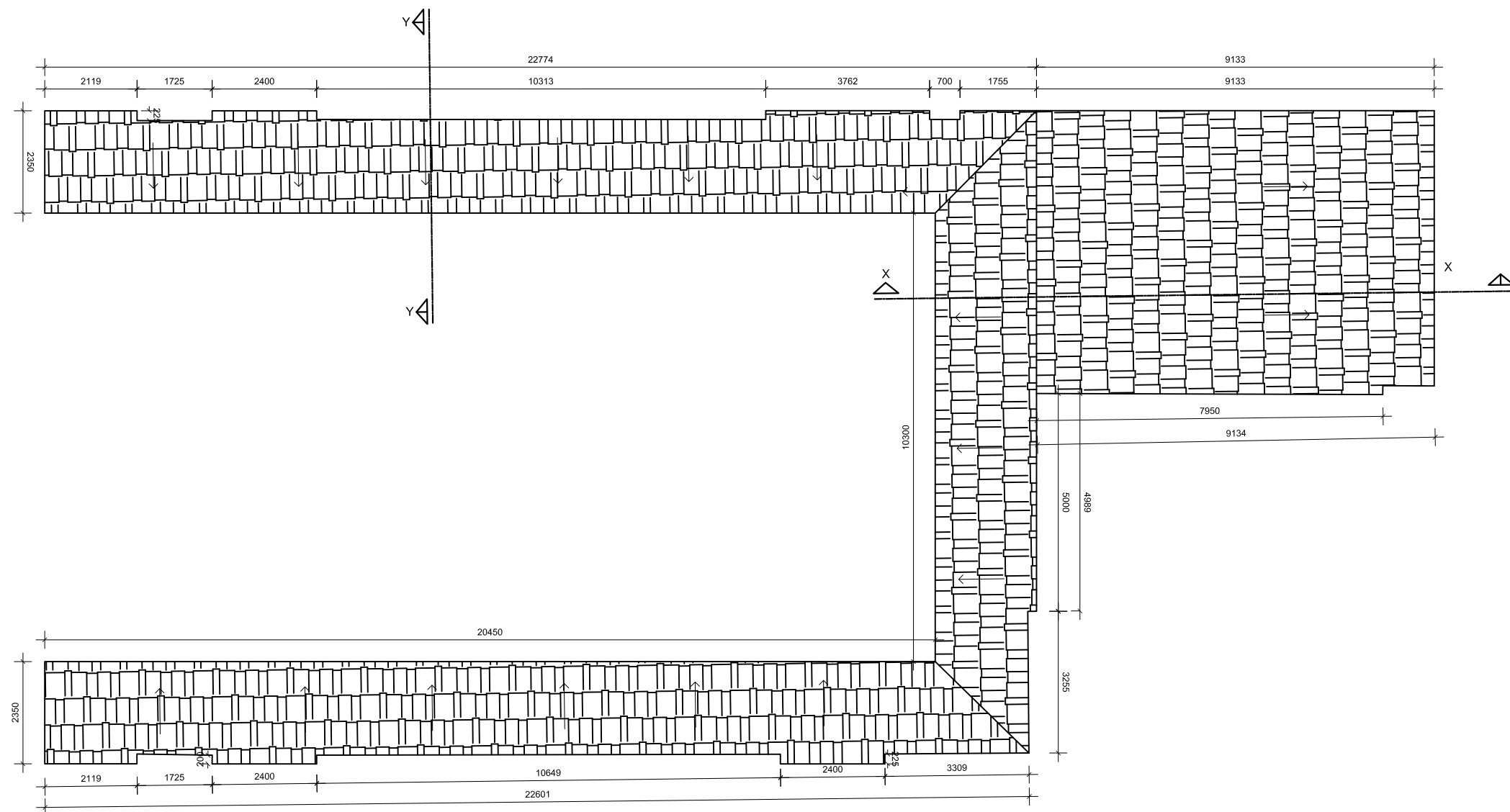
FRONT ELEVATION



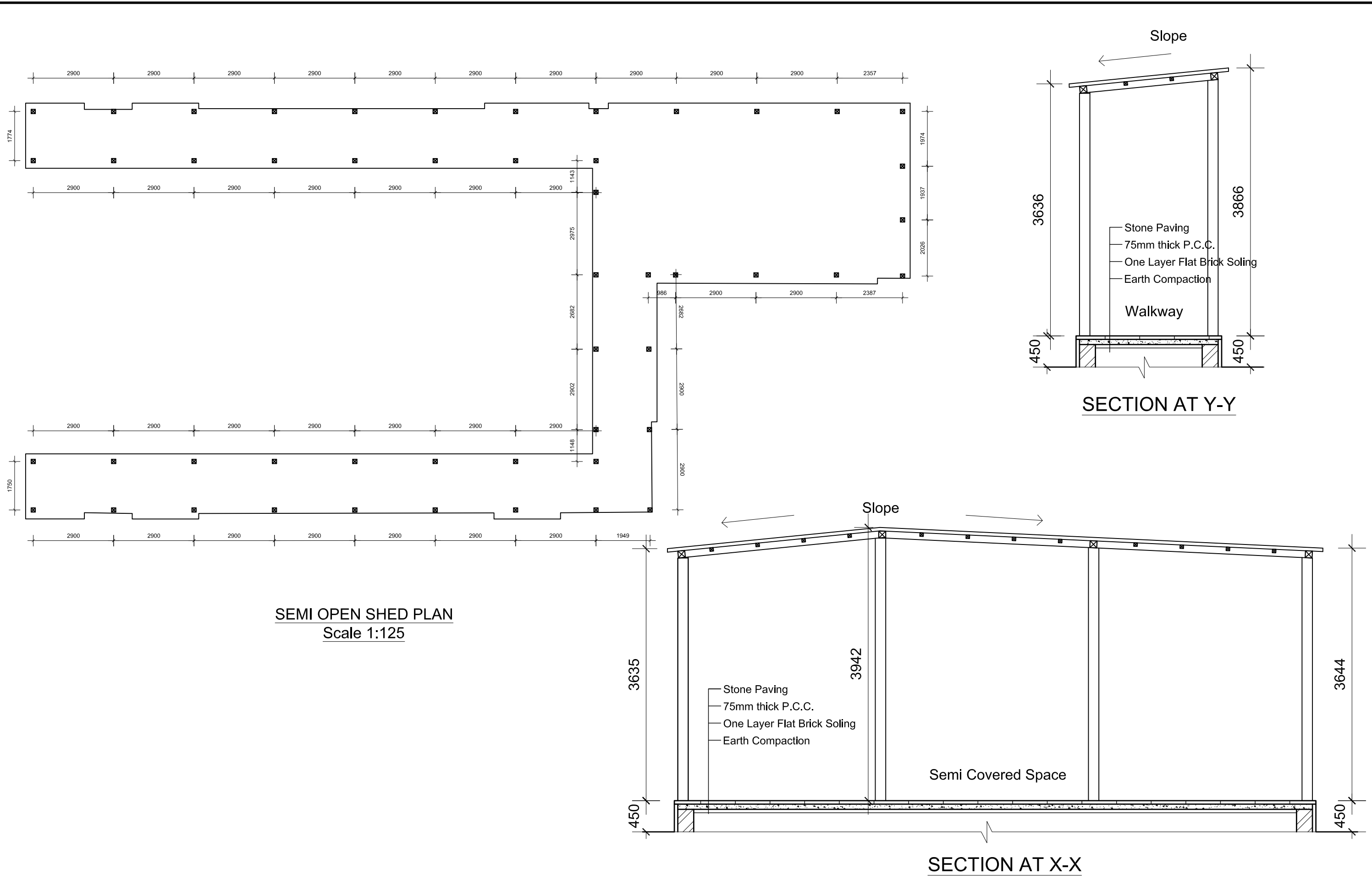
LEFT SIDE ELEVATION

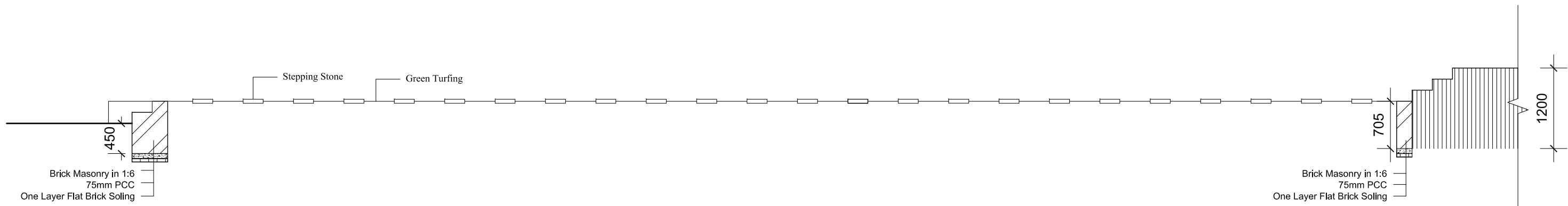


SECTION



SEMI OPEN SHED ROOF PLAN
Scale 1:125





SECTION AT A-A



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
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Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal



DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

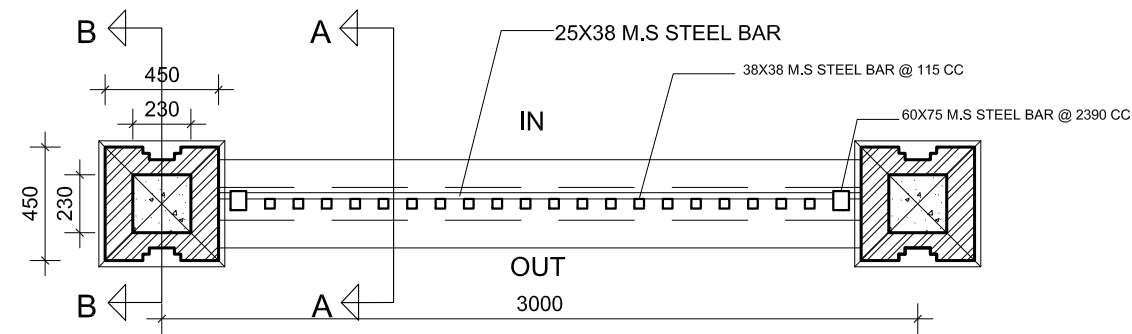
SCALE :
1:125

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Lawn Section

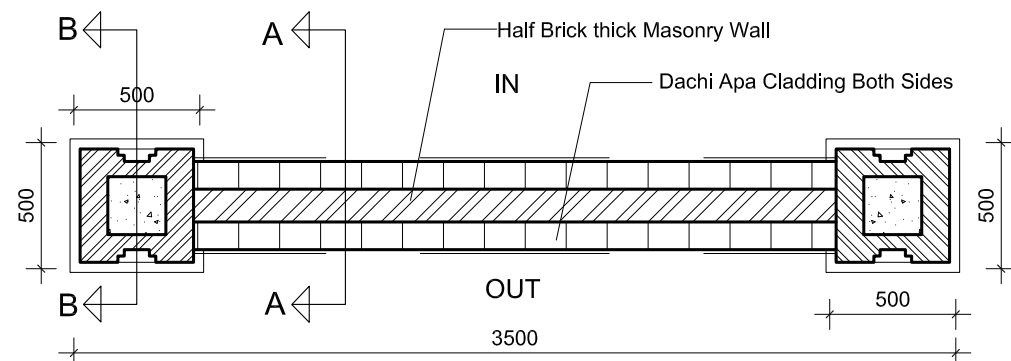
DATE : 2026
DWG NO : 3H
SHEET NO : 1 of 1



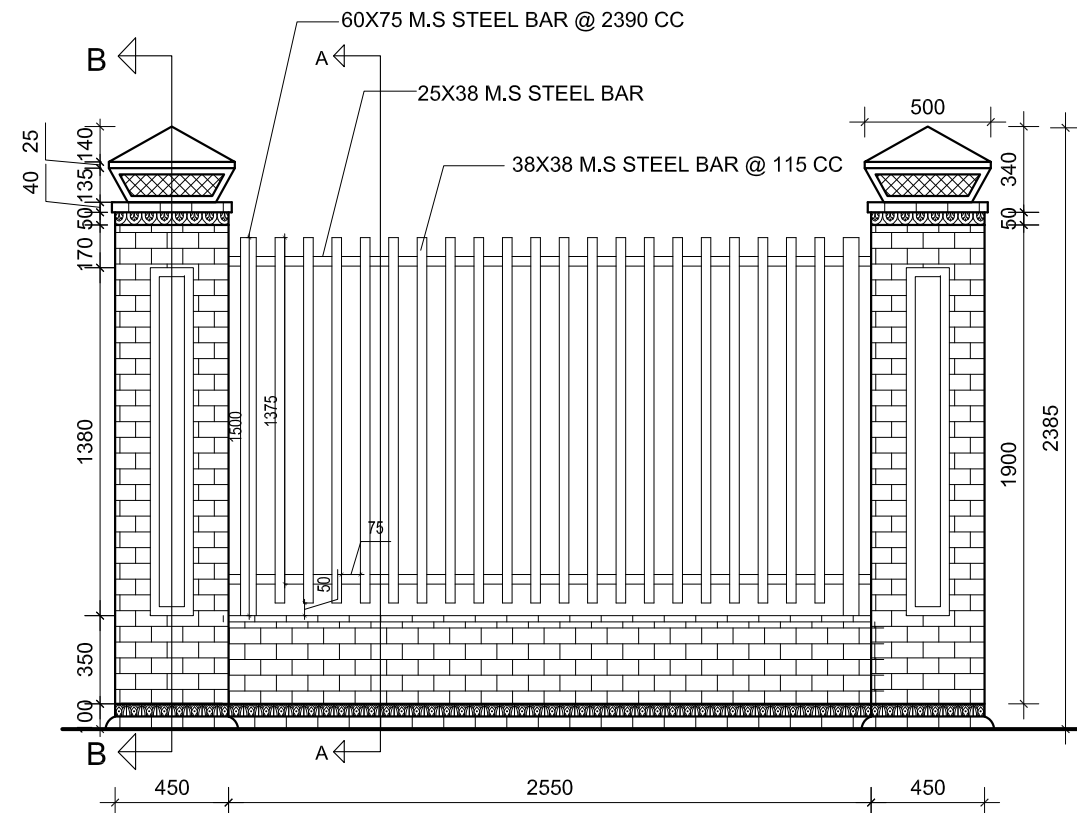




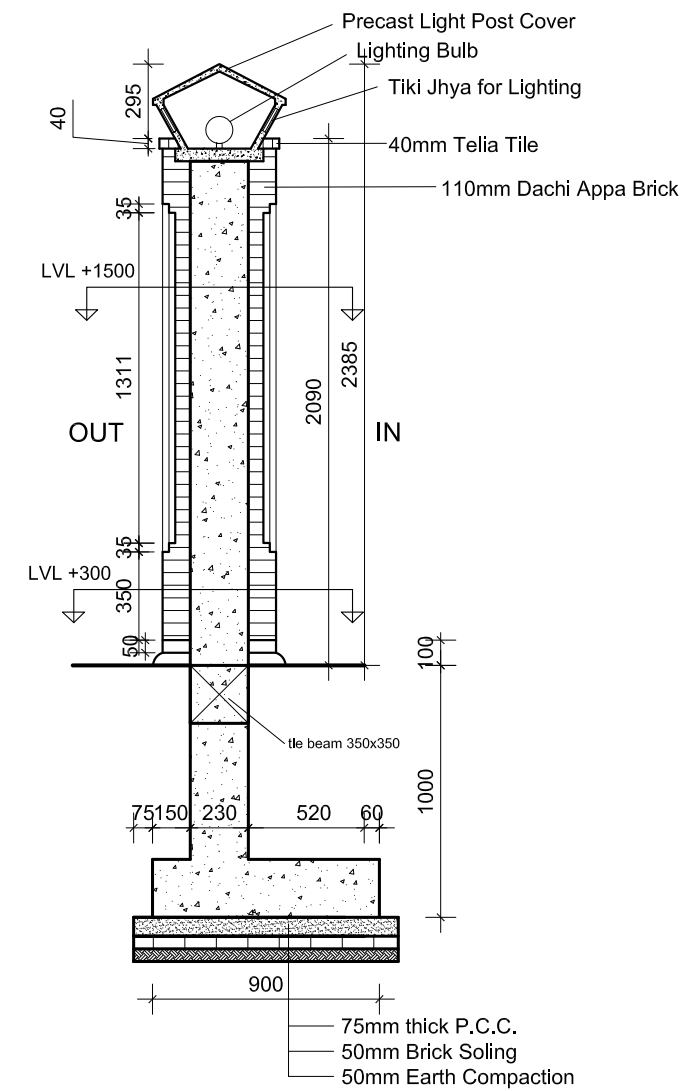
TYPICAL PLAN OF BOUNDARY WALL @ Lvl 1500



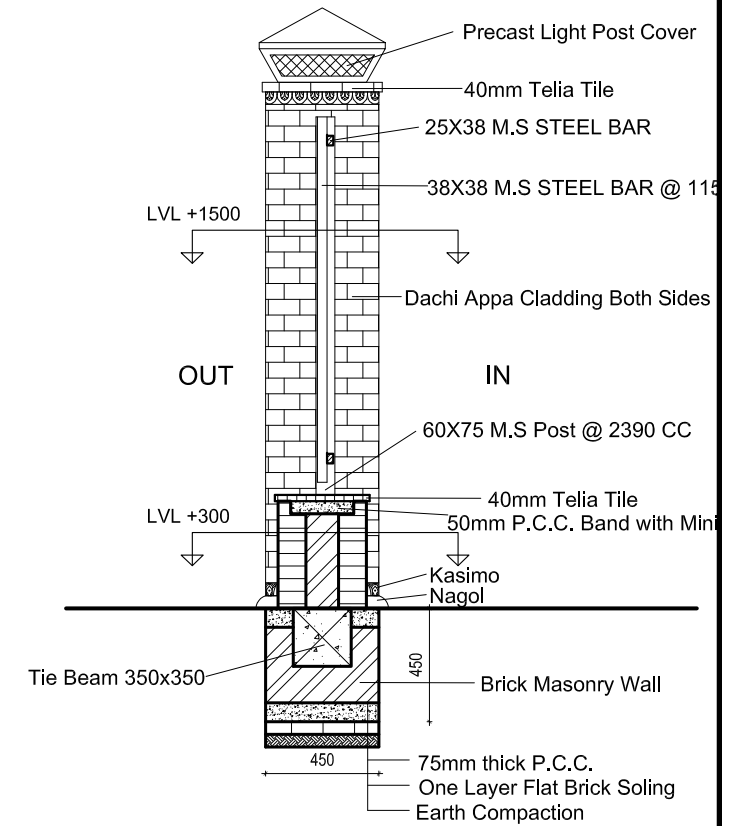
TYPICAL PLAN OF BOUNDARY WALL @ Lvl 300



TYPICAL ELEVATION OF BOUNDARY WALL

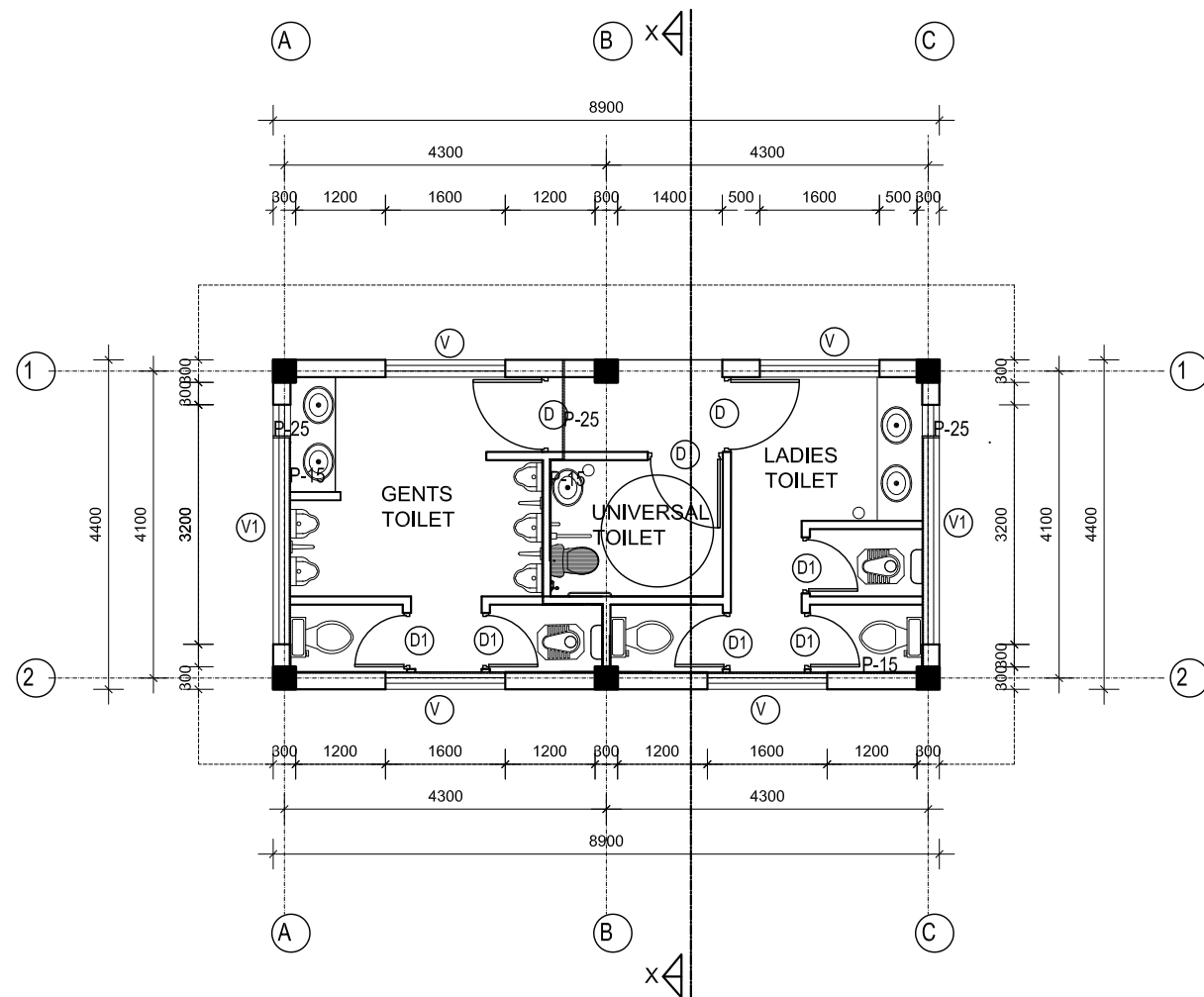


SECTION AT B-B

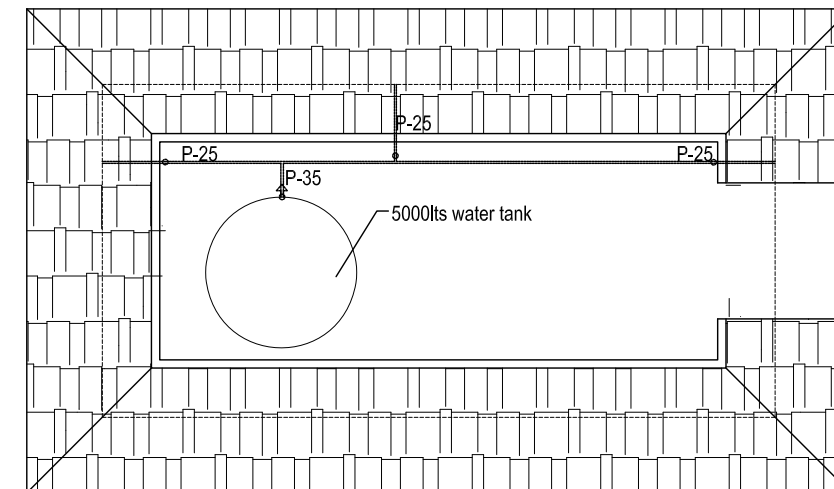


SECTION AT A-A

4. WATER SUPPLY PIPELINE



COMMON TOILET BLOCK PLAN
(Area: 39.18 sq.m.)



COMMON TOILET BLOCK ROOF PLAN

Legends

- - Isolation Valve
- ⚡ - Vent
- P-35 - 35mm dia cpvc pipe
- P-25 - 25mm dia cpvc pipe
- P-15 - 15mm dia cpvc pipe



Government of Nepal
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Kathmandu, Nepal

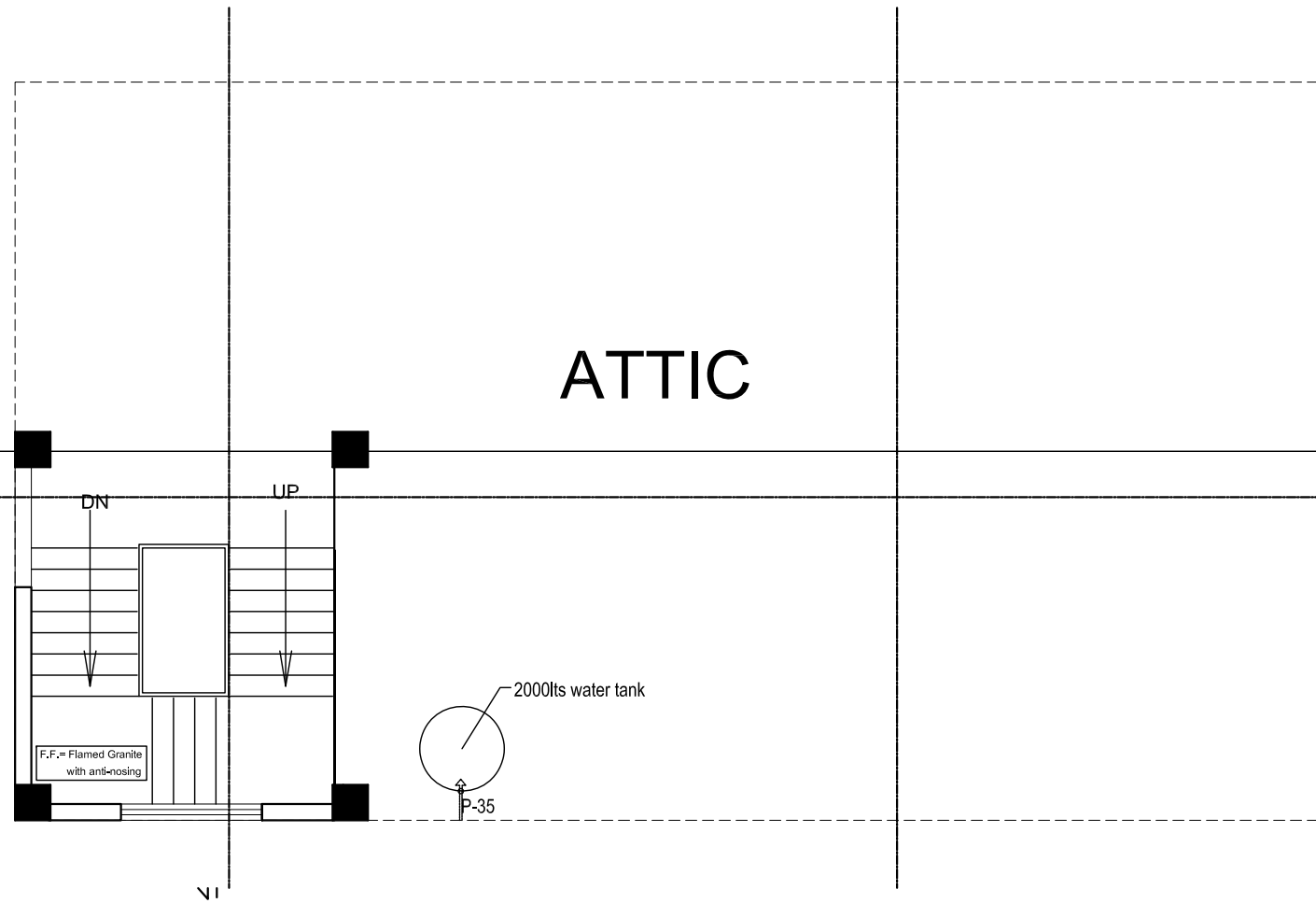


DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

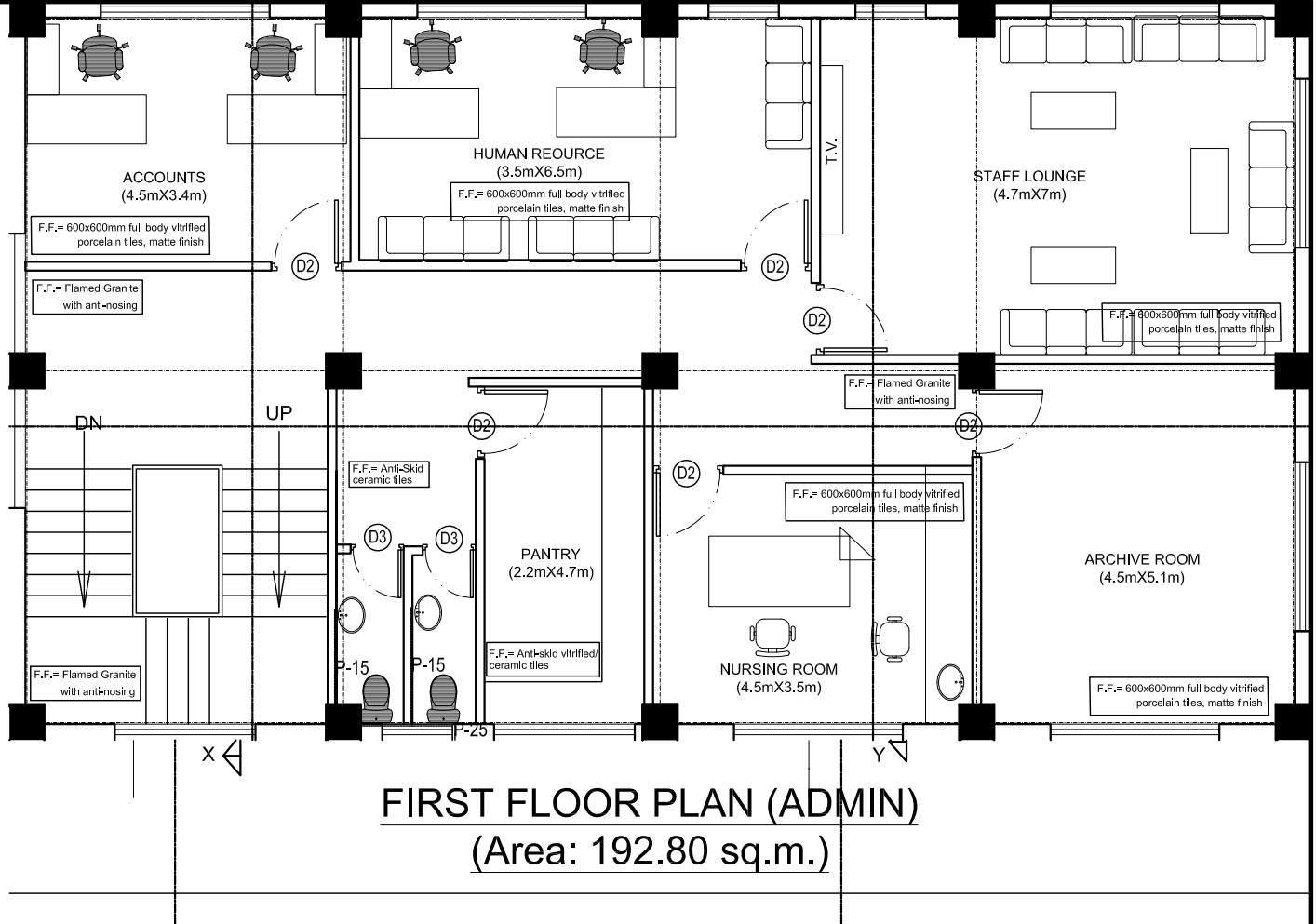
SCALE :
1:100

PROJECT : Urban Resilience and Livability Improvement
Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)
Water Supply pipeline

DATE :2026
DWG NO : 4A
SHEET NO : 1 of 5



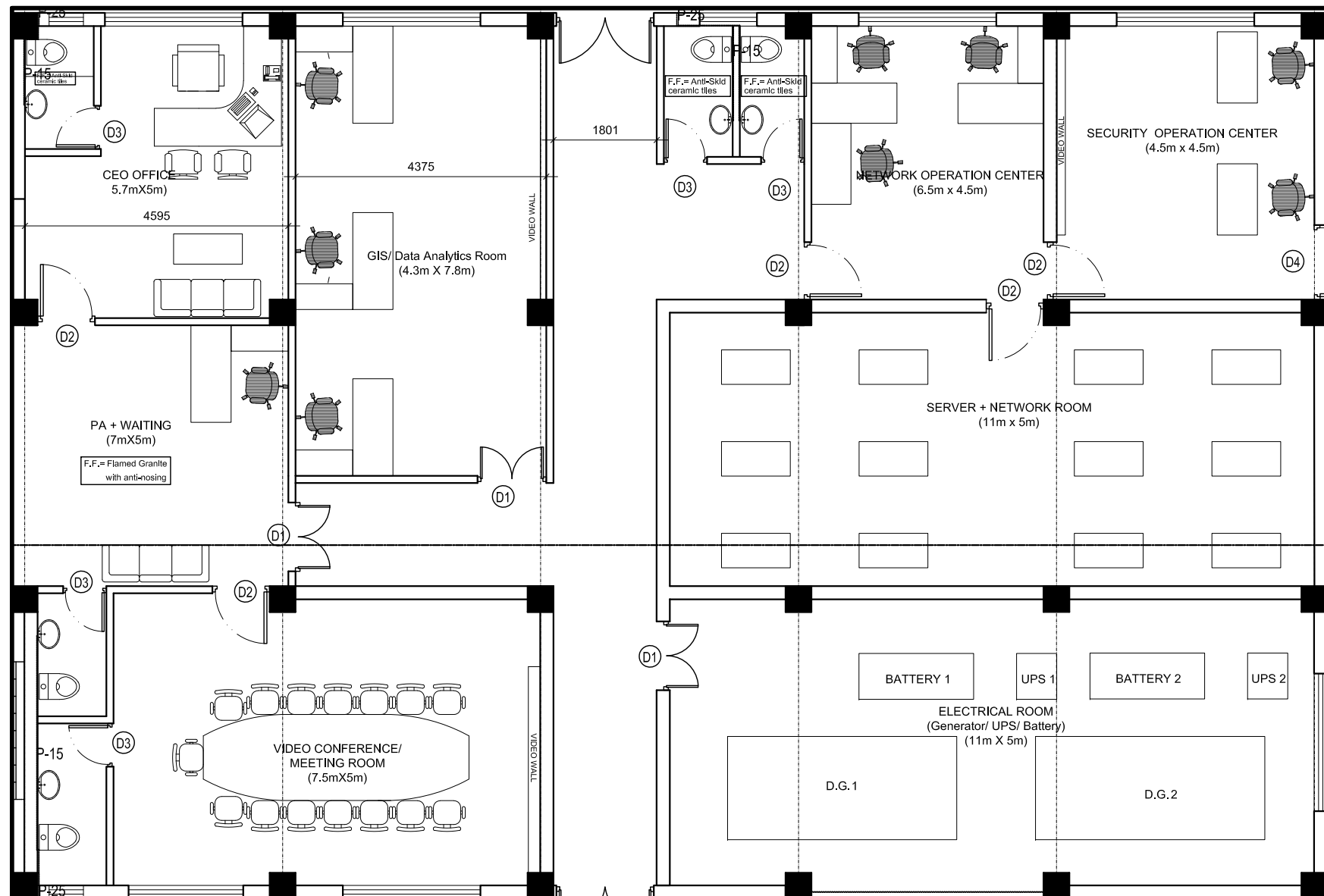
TOP FLOOR PLAN (ADMIN)
(Area: 26.97 sq.m.)



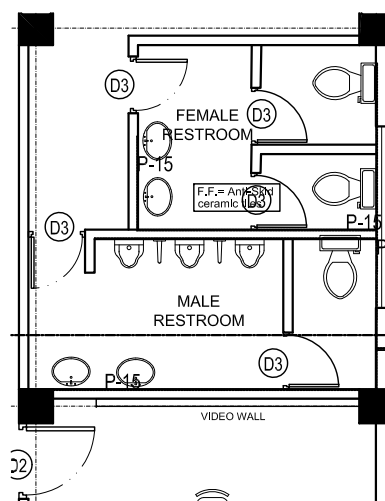
FIRST FLOOR PLAN (ADMIN)
(Area: 192.80 sq.m.)

Legends

- - Isolation Valve
- ⬆ - Vent
- P-35 - 35mm dia cpvc pipe
- P-25 - 25mm dia cpvc pipe
- P-15 - 15mm dia cpvc pipe



GROUND FLOOR PLAN (EOC/ ICC)
(Area: 424.10 sq.m.)



FIRST FLOOR PLAN (EOC/ ICC)
(Area: 424.10 sq.m.)

Legends

- - Isolation Valve
- ⬆ - Vent
- P-35 - 35mm dia cpvc pipe
- P-25 - 25mm dia cpvc pipe
- P-15 - 15mm dia cpvc pipe



Government of Nepal
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Project Implementation Unit
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Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal



DESIGNED BY :
DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
1:100

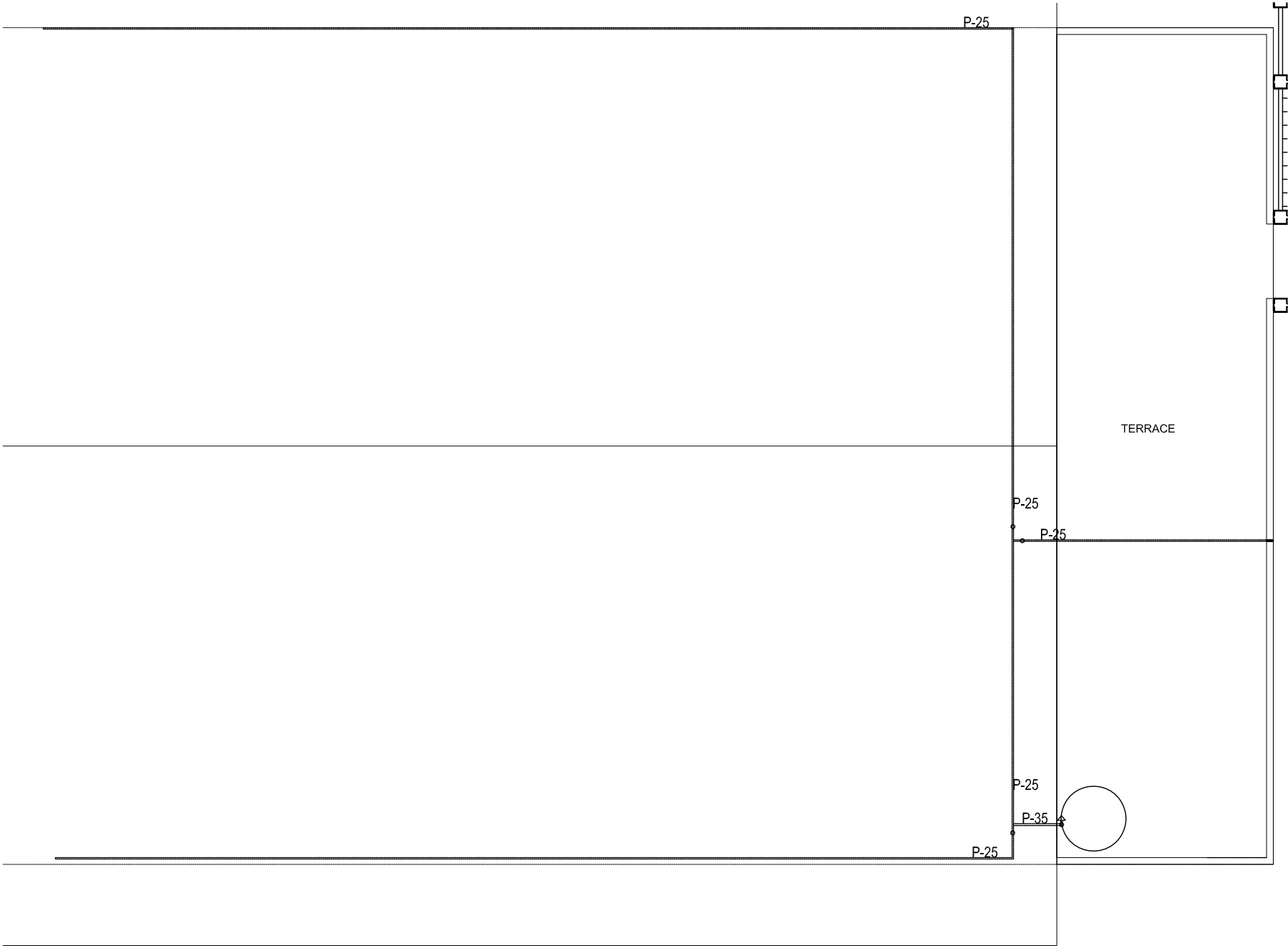
PROJECT : Urban Resilience and Livability Improvement
Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

Water Supply pipeline

DATE : 2026

DWG NO : 4A

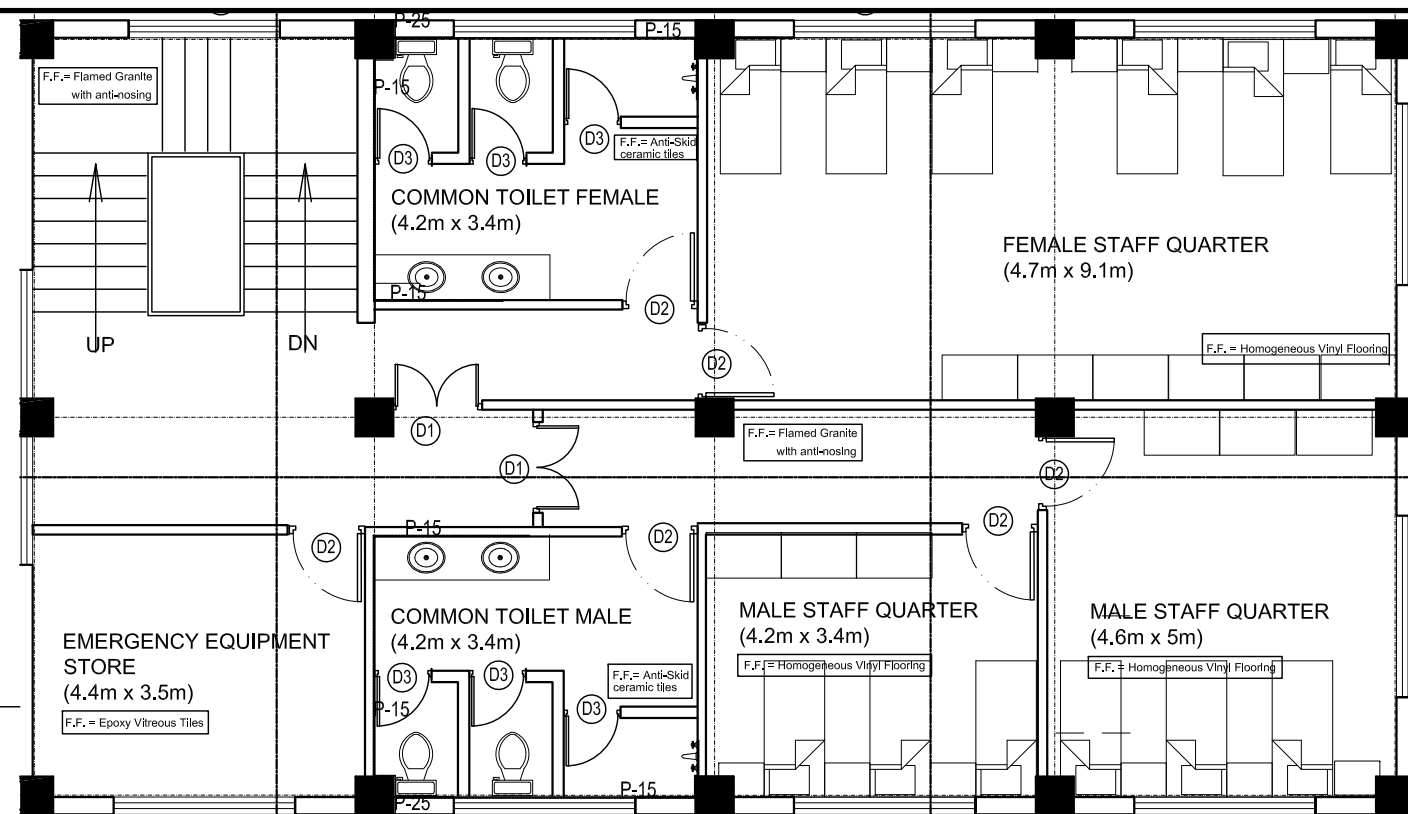
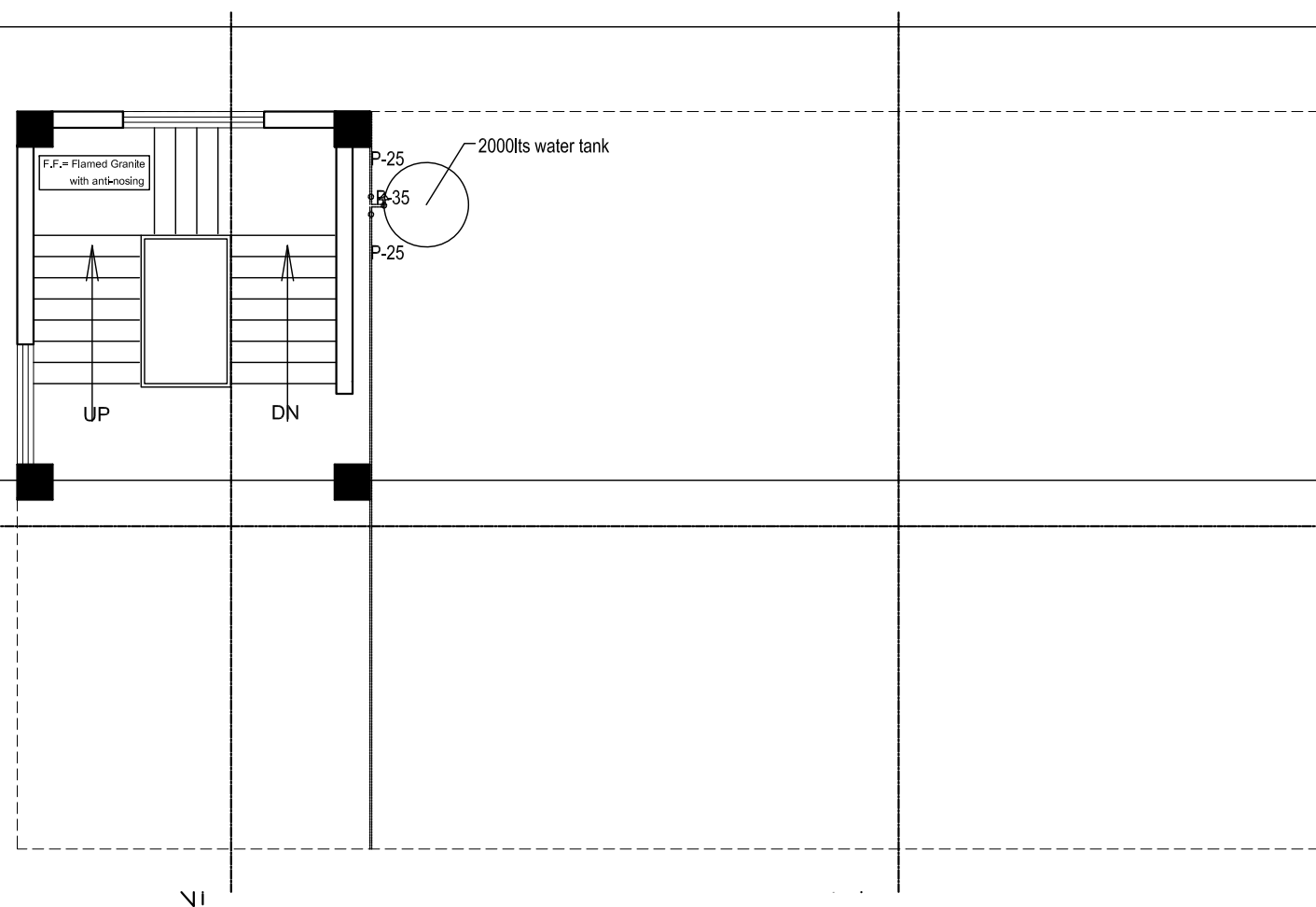
SHEET NO : 3 of 5



ROOF PLAN (EOC/ ICCC)

Legends

- - Isolation Valve
- ⊕ - Vent
- P-35 - 35mm dia cpvc pipe
- P-25 - 25mm dia cpvc pipe
- P-15 - 15mm dia cpvc pipe



Legends

- - Isolation Valve
- ⬆ - Vent
- P-35 - 35mm dia cpvc pipe
- P-25 - 25mm dia cpvc pipe
- P-15 - 15mm dia cpvc pipe

E1. ELECTRICAL DRAWING

LEGEND

SYMBOL	DESCRIPTION
LA 	34 /40W LED linear type panel light
LB 	19/24W LED downlight light
LC 	12W LED downlight light
LD 	12W waterproof bulkhead light light
LE 	90W street light pole
LF 	80W Flood light
S1 	1 gang switch (6A)
S2 	2 gang switch (6A)
S3 	3 gang switch (6A)
S4 	4 gang switch (6A) with 6A power socket
S8 	8 gang switch (6A)
DB 	8 gang switch (6A)

SYMBOL	DESCRIPTION
	TELEPHONE OUTLET
	DATA OUTLET
	ACCESS POINT
	CCTV DOME CAMERA
	CCTV BULLET CAMERA
U-RACK	UNIT RACK

SYMBOL	DESCRIPTION
	SMOKE DETECTOR
	HEAT DETECTOR
	FIRE ALARM CONTROL PANEL
	HOOTER
	MANUAL CALL POINT

SYMBOL	DESCRIPTION
	16 A POWER SOCKET
	Fan Regulator for 70w fan
	Pull switch for Vent fan
	25W Vent Fan 8inch
	100W Vent Fan
	AC Outdoor unit 3000W
	AC Indoor unit
	Ceiling Fan 70W

LOAD

SYMBOL	POWER	DB-1	DB-2	DB-3	DB-4	DB-5	DB-6	DB-7	DB-8	DB-9	DB-10	DB-11
LA 	40W	20	52	30	33	15	30	19	24	12	0	4
LB 	24W	8	16	5	3	20	4	10	4	14	0	0
LC 	12W	3	2	6	6	0	0	3	0	10	14	
LD 	12W	21	2	2	2	2	26	3	0	3	0	
LE 	90W	0	0	0	0	0	10	0	0	0	0	
LF 	80W	6	0	0	0	0	6	0	6	0	0	
PS# 	1200W	8	14	6	9	6	7	10	7	7	2	4
EFS 	25W	2	2	0	0	0	0	2	0	4	6	
EFB 	100W	0	0	0	0	0	0	1	1	1	0	2
AC 	3000W	2	2	2	2	2	4	1	0	0	0	
F# 	70W	5	2	0	0	2	6	5	3	4	0	
MISCELLANEOUS	1500W	1	1	1	1	1	1	1	1	1	1	
PUMP and Other	5 kW											
DEMAND FACTOR		0.8	0.8	0.8	0.8	0.7	0.6	0.7	0.7	0.4	0.4	0.4

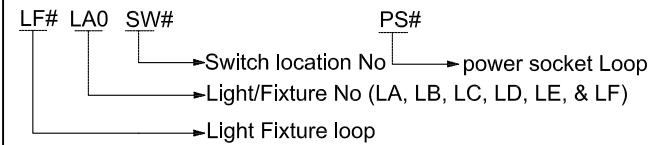
BUILDING LOAD CALCULATION

SYMBOL	POWER (W)	PUMP	PUMP Load	DB-1	DB1 LOAD	DB-2	DB2 LOAD	DB-3	DB3 LOAD	DB-4	DB4 LOAD	DB-5	DB5 LOAD	DB-6	DB6 LOAD	DB-7	DB7 LOAD	DB-8	DB8 LOAD	DB-9	DB9 LOAD	DB-10	DB10 LOAD	DB-11	DB11 LOAD
LA (Light)	40			20	800	52	2080	30	1200	33	1320	15	600	30	1200	19	760	24	960	12	480	0	0	4	160
LB (Light)	24			8	192	16	384	5	120	3	72	20	480	4	96	10	240	4	96	14	336	0	0	0	0
LC (Light)	12			3	36	2	24	6	72	6	72	0	0	0	0	3	36	0	0	10	120	14	168		0
LD (Light)	12			21	252	2	24	2	24	2	24	2	24	26	312	3	36	0	0	3	36	0	0		0
LE (Light)	90			0	0	0	0	0	0	0	0	0	0	10	900	0	0	0	0	0	0	0	0		0
LF (Light)	80			6	480	0	0	0	0	0	0	0	0	6	480	0	0	6	480	0	0	0	0		0
PS# (Power Socket)	1200			8	9600	14	16800	6	7200	9	10800	6	7200	7	8400	10	12000	7	8400	7	8400	2	2400	4	4800
EFS (Exhaust fan-Small)	25			2	50	2	50	0	0	0	0	0	0	0	0	2	50	0	0	4	100	6	150		0
EFB (Exhaust fan-Big)	100			0	0	0	0	0	0	0	0	0	0	0	0	1	100	1	100	1	100	0	0	2	200
AC	3000			2	6000	2	6000	2	6000	2	6000	2	6000	4	12000	1	3000	0	0	0	0	0	0		0
F# (Ceiling fan)	70			5	350	2	140	0	0	0	0	2	140	6	420	5	350	3	210	4	280	0	0		0
MISCELLANEOUS	1500			1	1500	1	1500	1	1500	1	1500	1	1500	1	1500	1	1500	1	1500	1	1500	1	1500		0
Pump	5000	1	5000																						
TOTAL LOAD (kW)	5.0				19.3		27.0		16.1		19.8		15.9		25.3		18.1		11.7		11.4		4.2		5.2
DEMAND FACTOR	0.5				0.8		0.8		0.8		0.8		0.7		0.6		0.7		0.7		0.4		0.4		0.4
DEMAND LOAD	2.50				15.41		21.60		12.89		15.83		11.16		15.18		12.65		8.22		4.54		1.69		2.06
TOTAL DEMAND LOAD	123.74																								
COMMON UTILITY LOAD (kW)	8																								
DEMAND FACTOR	0.9																								
DEMAND LOAD OF COMMON UTILITY	7.2																								
TOTAL DEMAND LOAD OF BUILDING	130.94																								
TRANSFORMER SIZE CALCULATION																									
Load With PF=0.8 (KVA)	163.68																								
With 20% SAFETY MARGIN (KVA)	196.41																								
STANDER TRANSFORMER SIZE (KVA)	200																								

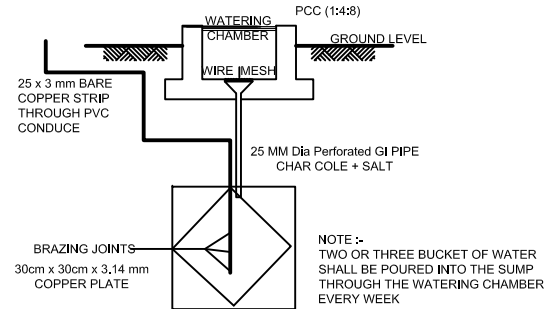
LEGEND

	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
	THREE POLE MCB (TP MCB)
	4Pole MCCB with Overcurrent Protection (OCP)
	VOLT METER
	AMP METER
	MULTIFUNCTION METER
	INDICATORS
	EARTHING
LF#	LIGHT CIRCUIT
PS#	POWER CIRCUIT
ACPS#	AIRCON CIRCUIT
CU	COPPER CONDUCTOR
AL	ALUMINIUM CONDUCTOR
AR	ARMOURED
PVC	POLY VINYLE CHOLRIDE

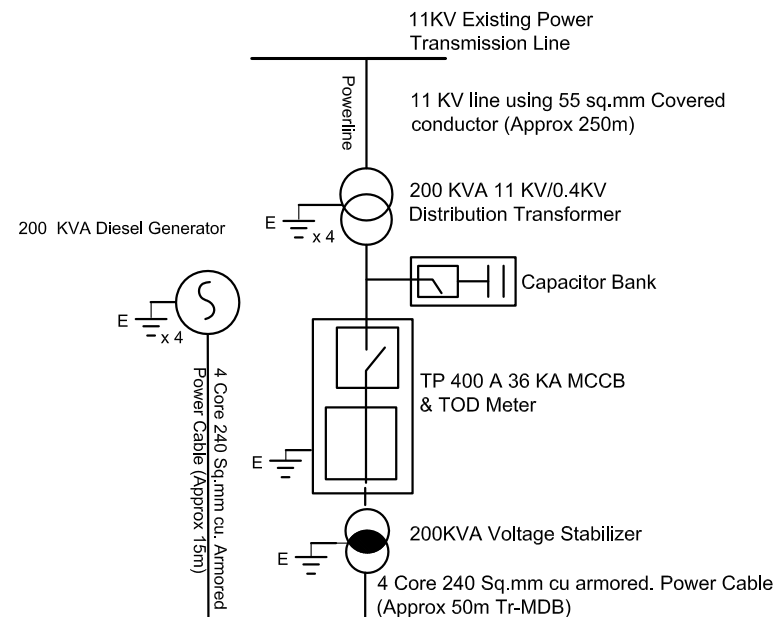
FIXTURE IDENTIFICATION



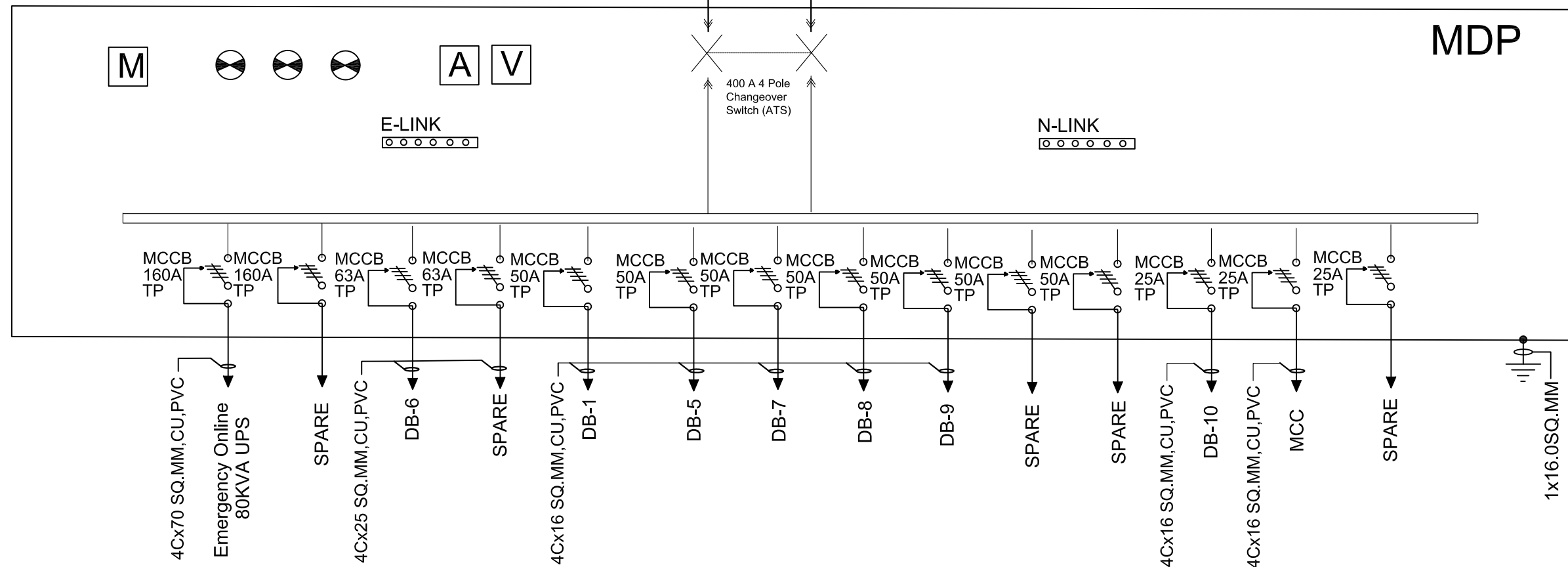
SLD UPTO MDB



DETAIL OF EARTH ELECTRODE INSTALLATION



LEGEND	
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	THREE POLE MCB (TP MCB)
	4Pole MCCB with Overcurrent Protection (OCP)
	VOLT METER
	AMP METER
	MULTIFUNCTION METER
	INDICATORS
	EARTHING
	LIGHT CIRCUIT
	POWER CIRCUIT
	AIRCON CIRCUIT
	COPPER CONDUCTOR
	ALUMINIUM CONDUCTOR
	ARMOURED
	POLY VINYLE CHOLRIDE



Government of Nepal
Ministry of Infrastructure Development
Department of Urban Development and Building Construction
Urban Resilience and Livability Improvement Project (URLIP)
Project Implementation Unit
Pokhara Metropolitan City



CONSULTANT:
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Building Design Authority Pvt. Ltd.(BDA)
Udaya Consultancy Pvt. Ltd.
(BN-BDA-Udaya JV)
Kathmandu, Nepal



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DRAWN BY :
CHECKED BY : Indra Kumar Paudyal
APPROVED BY :

SCALE :
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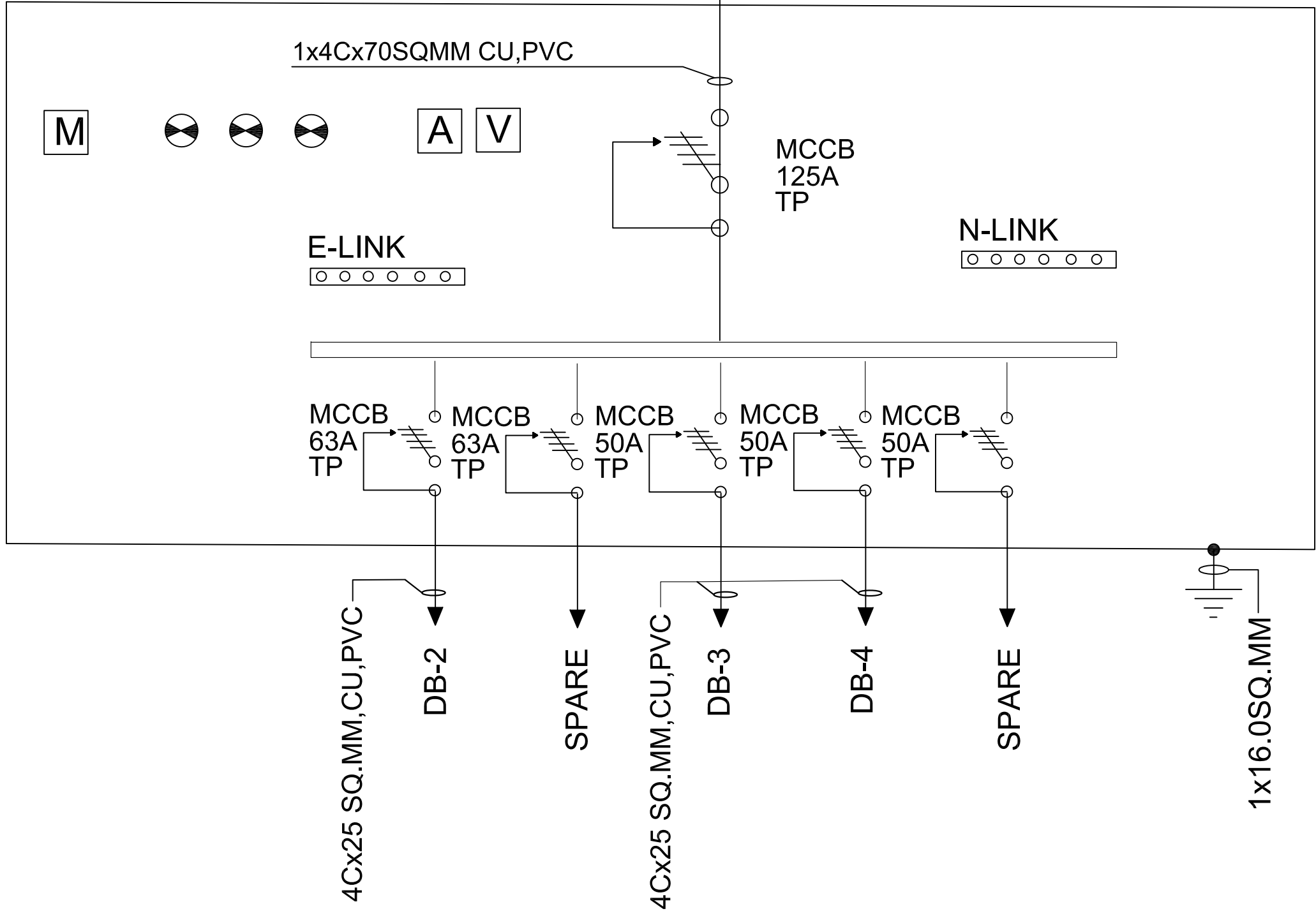
PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

Electrical SLD Details

DATE : 2026
DWG NO : E1
SHEET NO : 2 of 18

From Emergency Online
80KVA UPS

SLD for UPS MDB



LEGEND	
	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
	THREE POLE MCB (TP MCB)
	4Pole MCB with Overcurrent Protection (OCP)
	VOLT METER
	AMP METER
	MULTIFUNCTION METER
	INDICATORS
	EARTHING
	LF# LIGHT CIRCUIT
	PS# POWER CIRCUIT
	ACPS# AIRCON CIRCUIT
	CU COPPER CONDUCTOR
	AL ALUMINIUM CONDUCTOR
	AR ARMoured
	PVC POLY VINYLE CHOLRIDE



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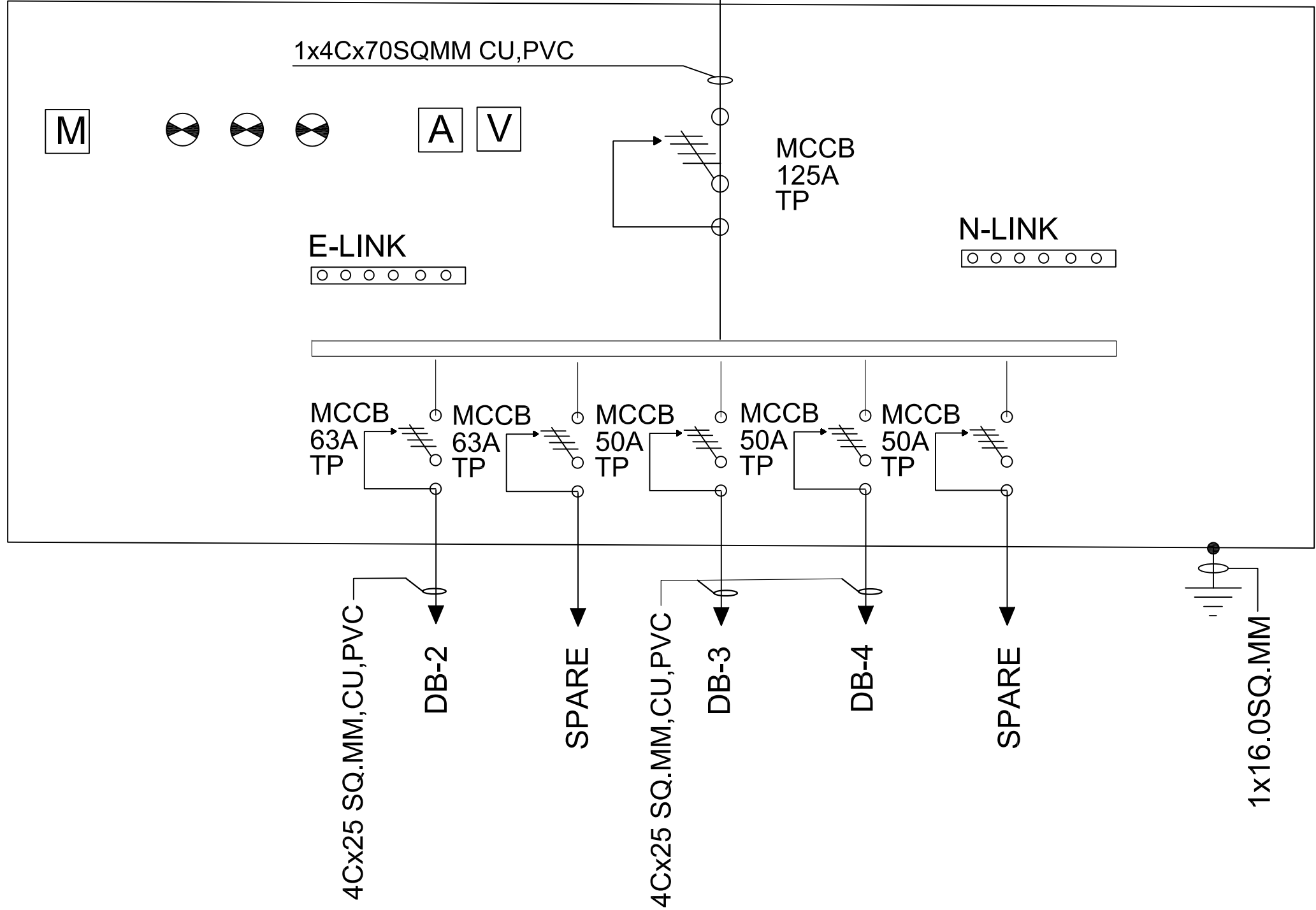
PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

Electrical SLD Details

DATE : 2026
DWG NO : E1
SHEET NO : 3 of 18

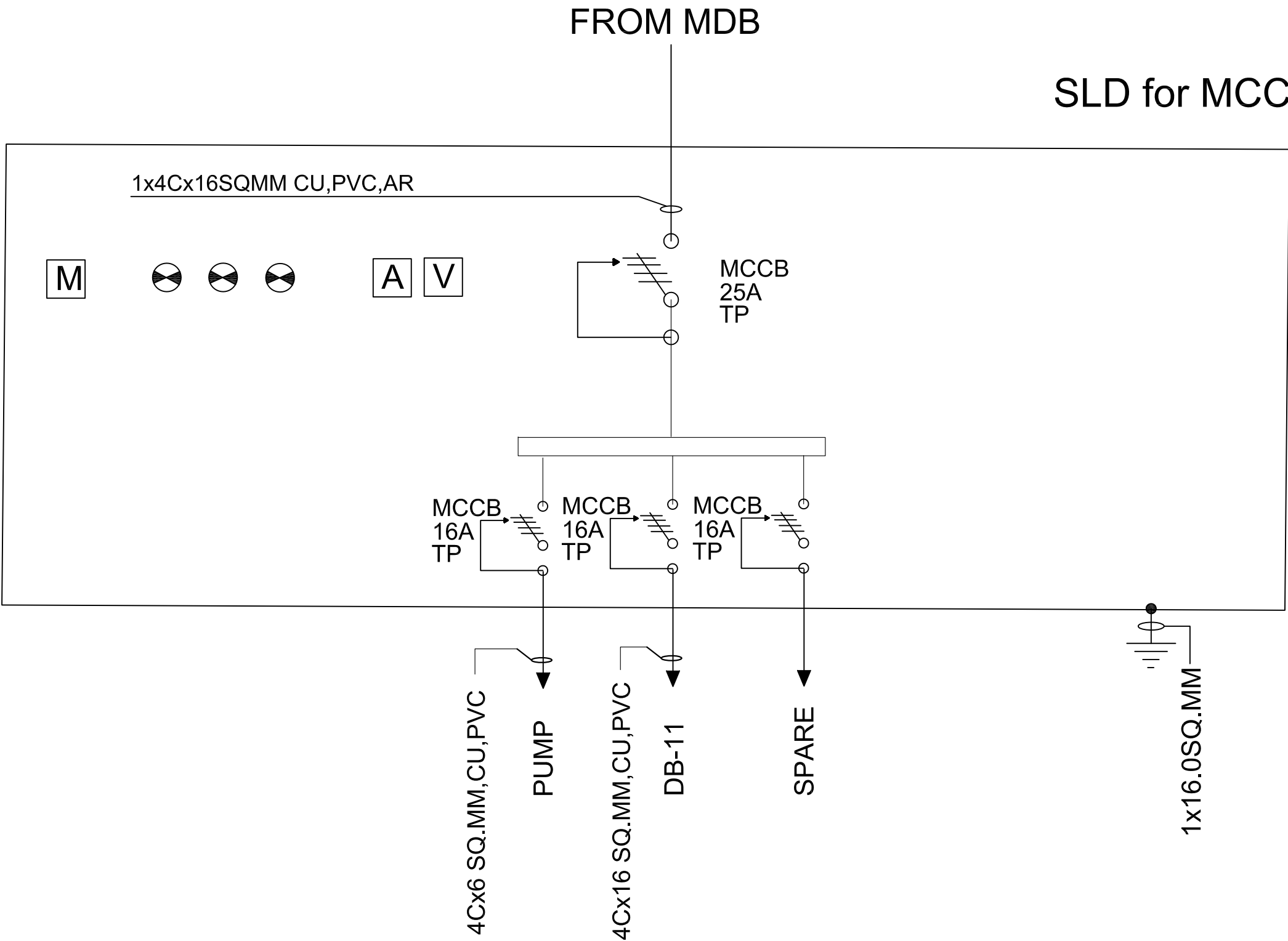
From Emergency Online
80KVA UPS

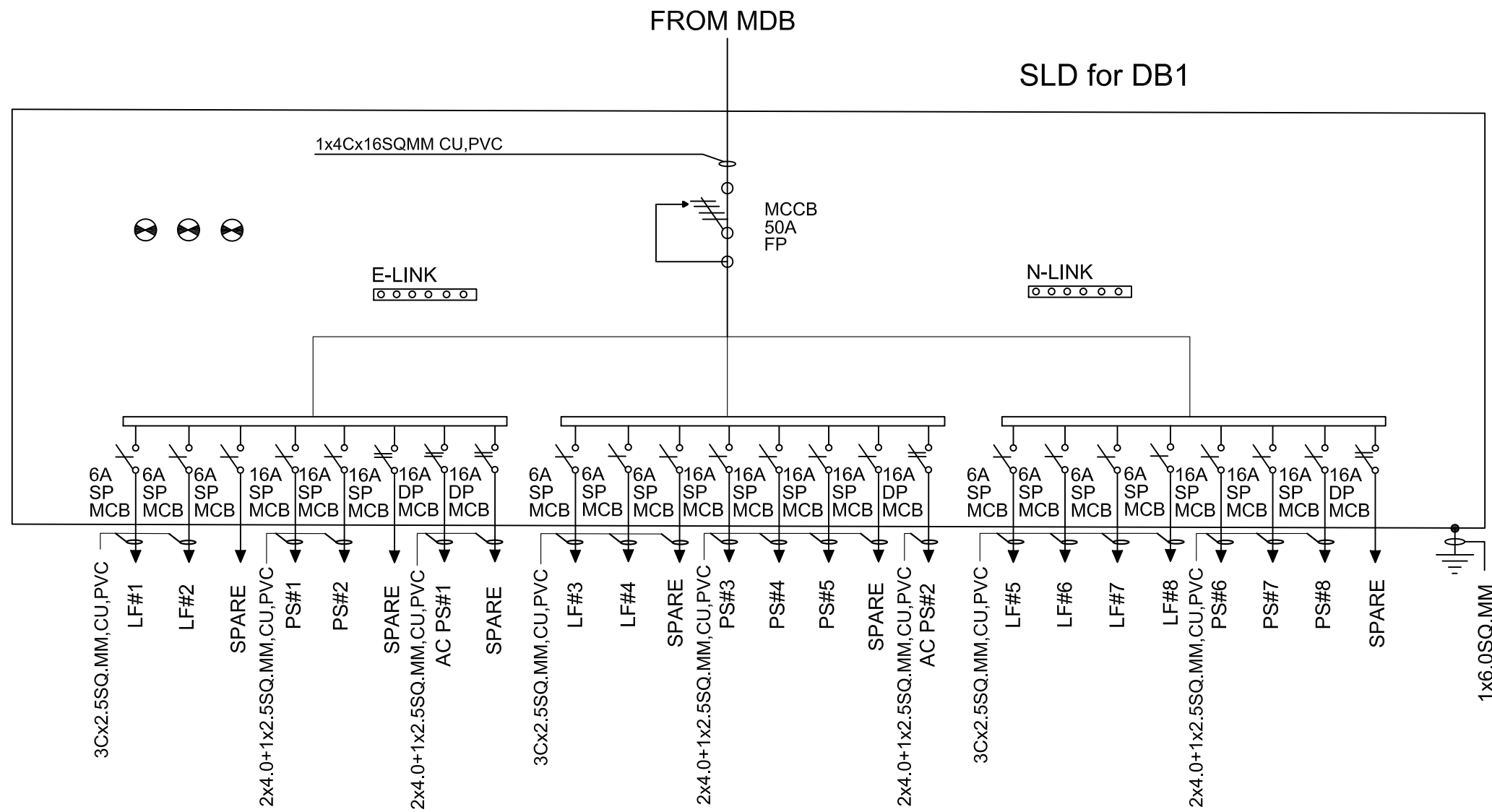
SLD for UPS MDB



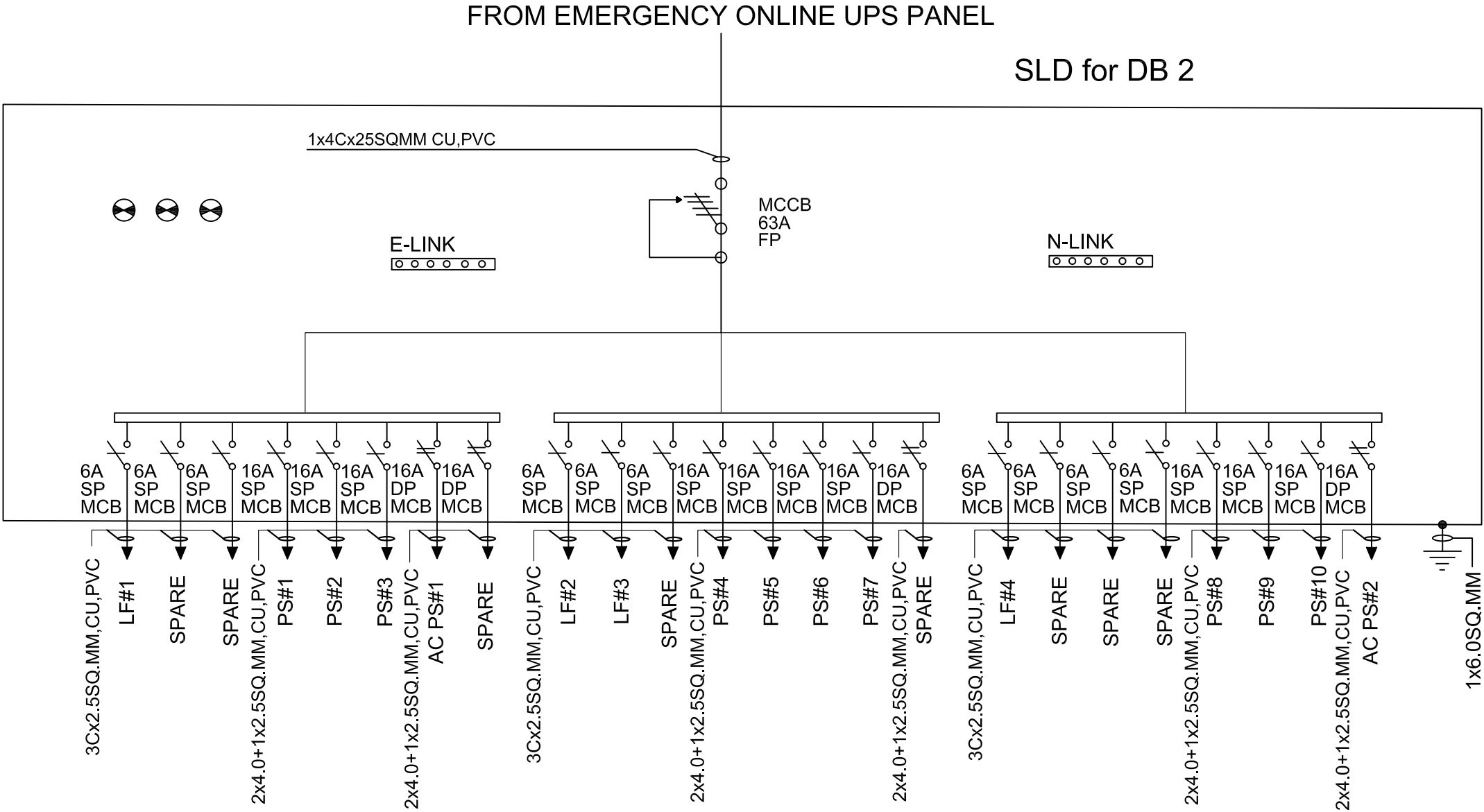
LEGEND	
	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
	THREE POLE MCB (TP MCB)
	4Pole MCCB with Overcurrent Protection (OCP)
	VOLT METER
	AMP METER
	MULTIFUNCTION METER
	INDICATORS
	EARTHING
	LIGHT CIRCUIT
	POWER CIRCUIT
	AIRCON CIRCUIT
	COPPER CONDUCTOR
	ALUMINIUM CONDUCTOR
	ARMOURED
	POLY VINYLE CHOLRIDE

LEGEND	
	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
	THREE POLE MCB (TP MCB)
	4Pole MCCB with Overcurrent Protection (OCP)
	VOLT METER
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	INDICATORS
	EARTHING
	LIGHT CIRCUIT
	POWER CIRCUIT
	AIRCON CIRCUIT
	CU COPPER CONDUCTOR
	AL ALUMINIUM CONDUCTOR
	AR ARMOURED
	PVC POLY VINYLE CHOLRIDE





LEGEND	
	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
	THREE POLE MCB (TP MCB)
	4Pole MCCB with Overcurrent Protection (OCP)
	VOLT METER
	AMP METER
	MULTIFUNCTION METER
	INDICATORS
	EARTHING
	LF#
	PS#
	ACPS#
	CU COPPER CONDUCTOR
	AL ALUMINIUM CONDUCTOR
	AR ARMoured
	PVC POLY VINYLE CHOLRIDE



LEGEND	
	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
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	VOLT METER
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	MULTIFUNCTION METER
	INDICATORS
	EARTHING
	LF#
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	CU
	AL
	AR
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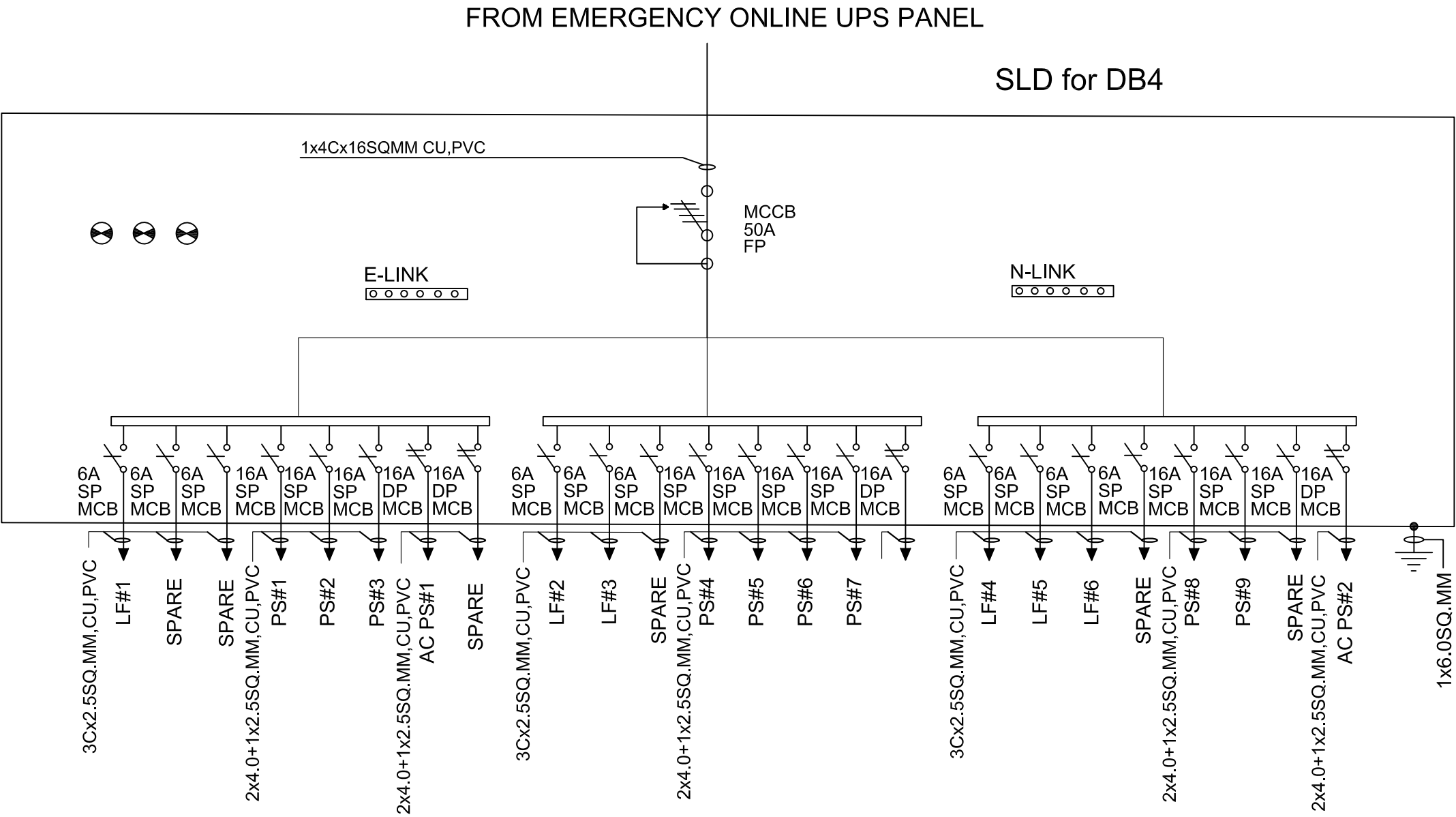
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APPROVED BY :

SCALE :
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PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

Electrical SLD Details

DATE : 2026
DWG NO : E1
SHEET NO : 7 of 18



LEGEND	
	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
	THREE POLE MCB (TP MCB)
	4Pole MCCB with Overcurrent Protection (OCP)
	VOLT METER
	AMP METER
	MULTIFUNCTION METER
	INDICATORS
	EARTHING
	LF#
	PS#
	ACPS#
	CU COPPER CONDUCTOR
	AL ALUMINIUM CONDUCTOR
	AR ARMoured
	PVC POLY VINYLE CHOLRIDE



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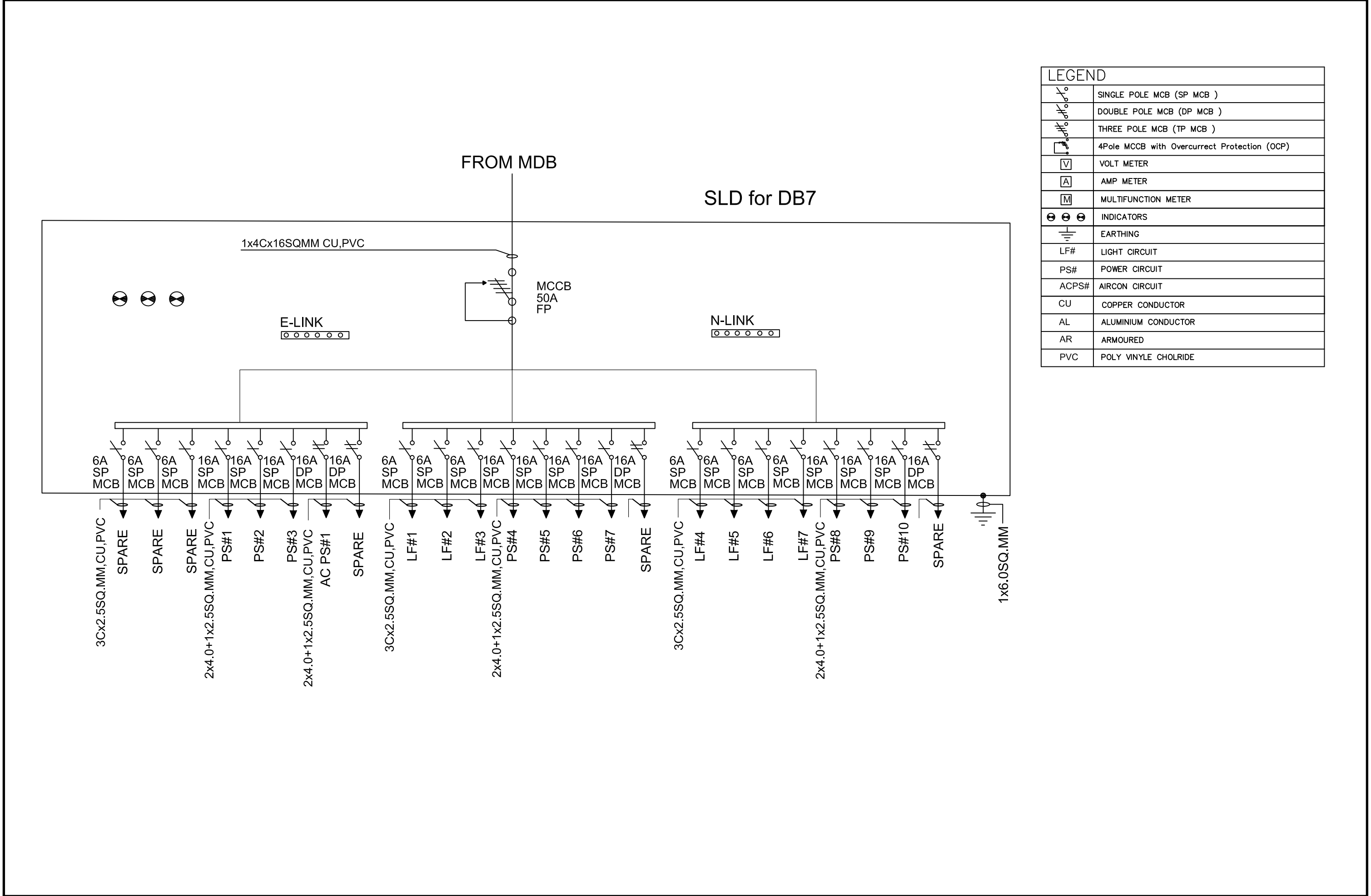
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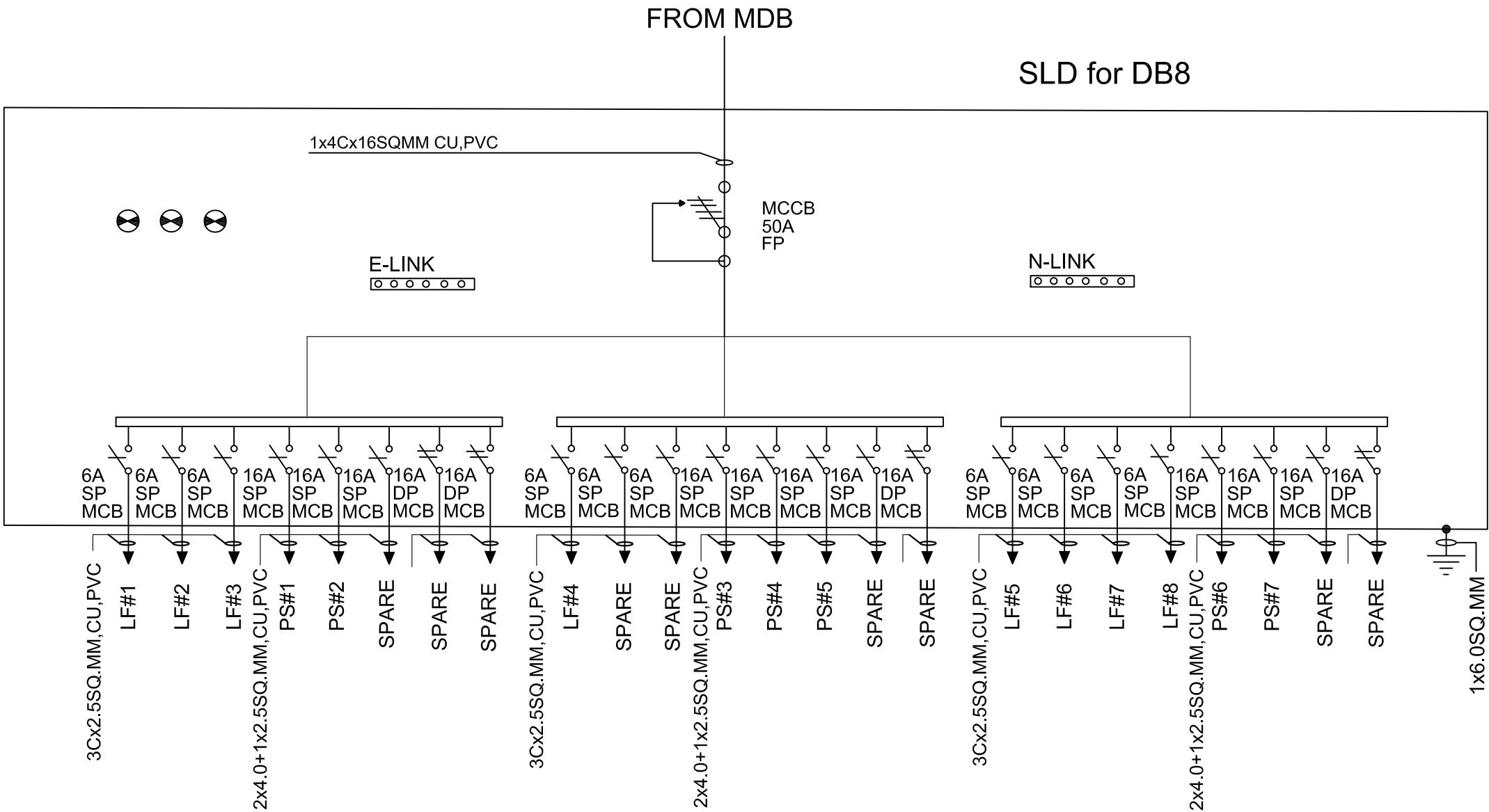
PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
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Electrical SLD Details

DATE : 2026
DWG NO : E1
SHEET NO : 9 of 18



LEGEND	
	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
	THREE POLE MCB (TP MCB)
	4Pole MCCB with Overcurrent Protection (OCP)
	VOLT METER
	AMP METER
	MULTIFUNCTION METER
	INDICATORS
	EARTHING
	LF#
	PS#
	ACPS#
	CU
	AL
	AR
	PVC



LEGEND	
	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
	THREE POLE MCB (TP MCB)
	4Pole MCCB with Overcurrent Protection (OCP)
	VOLT METER
	AMP METER
	MULTIFUNCTION METER
	INDICATORS
	EARTHING
LF#	LIGHT CIRCUIT
PS#	POWER CIRCUIT
ACPS#	AIRCON CIRCUIT
CU	COPPER CONDUCTOR
AL	ALUMINIUM CONDUCTOR
AR	ARMOURED
PVC	POLY VINYLE CHOLRIDE



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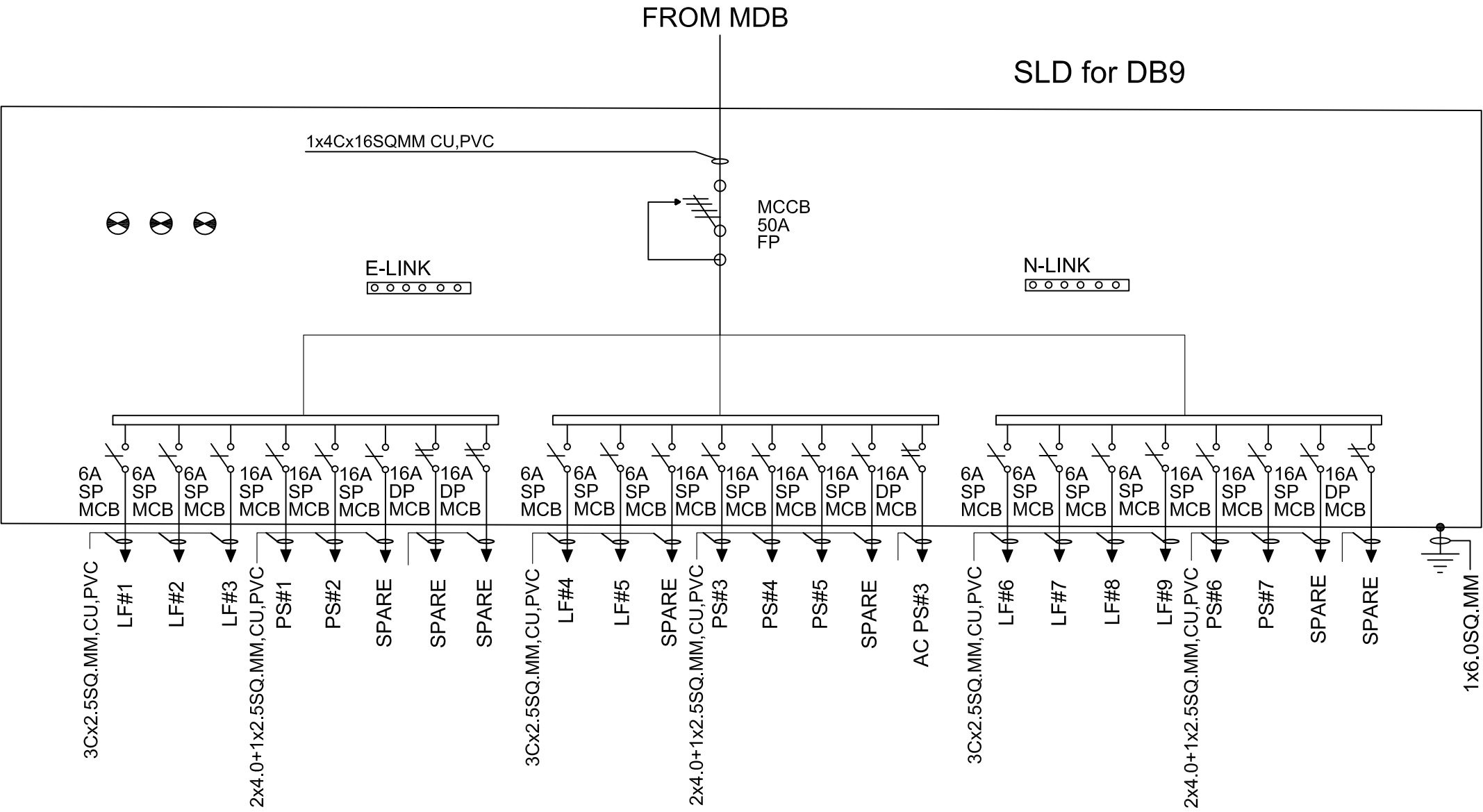
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APPROVED BY :

SCALE :
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PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

Electrical SLD Details

DATE : 2026
DWG NO : E1
SHEET NO : 13 of 18



LEGEND	
	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
	THREE POLE MCB (TP MCB)
	4Pole MCCB with Overcurrent Protection (OCP)
	VOLT METER
	AMP METER
	MULTIFUNCTION METER
	INDICATORS
	EARTHING
	LF#
	PS#
	ACPS#
	CU
	AL
	AR
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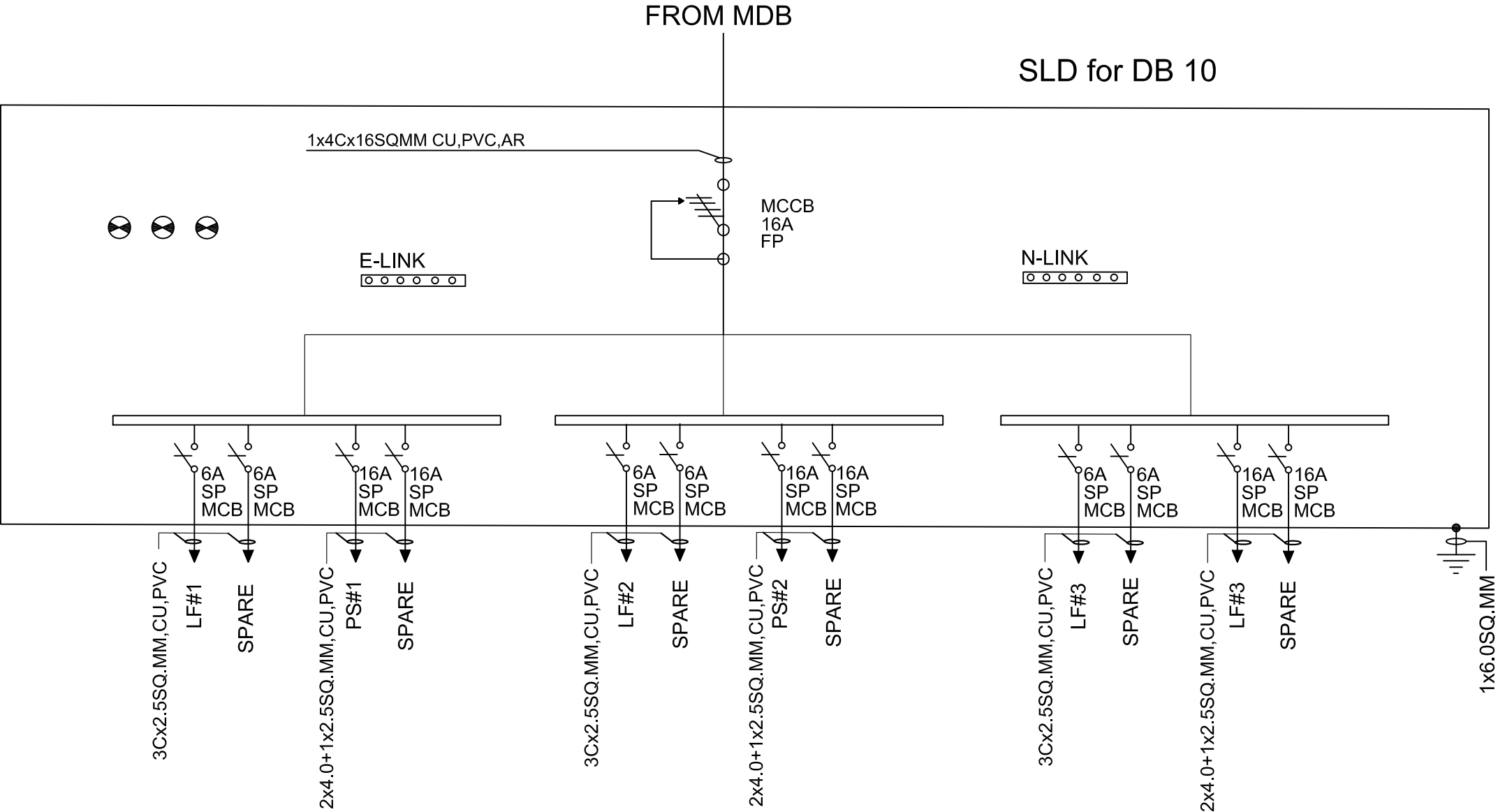
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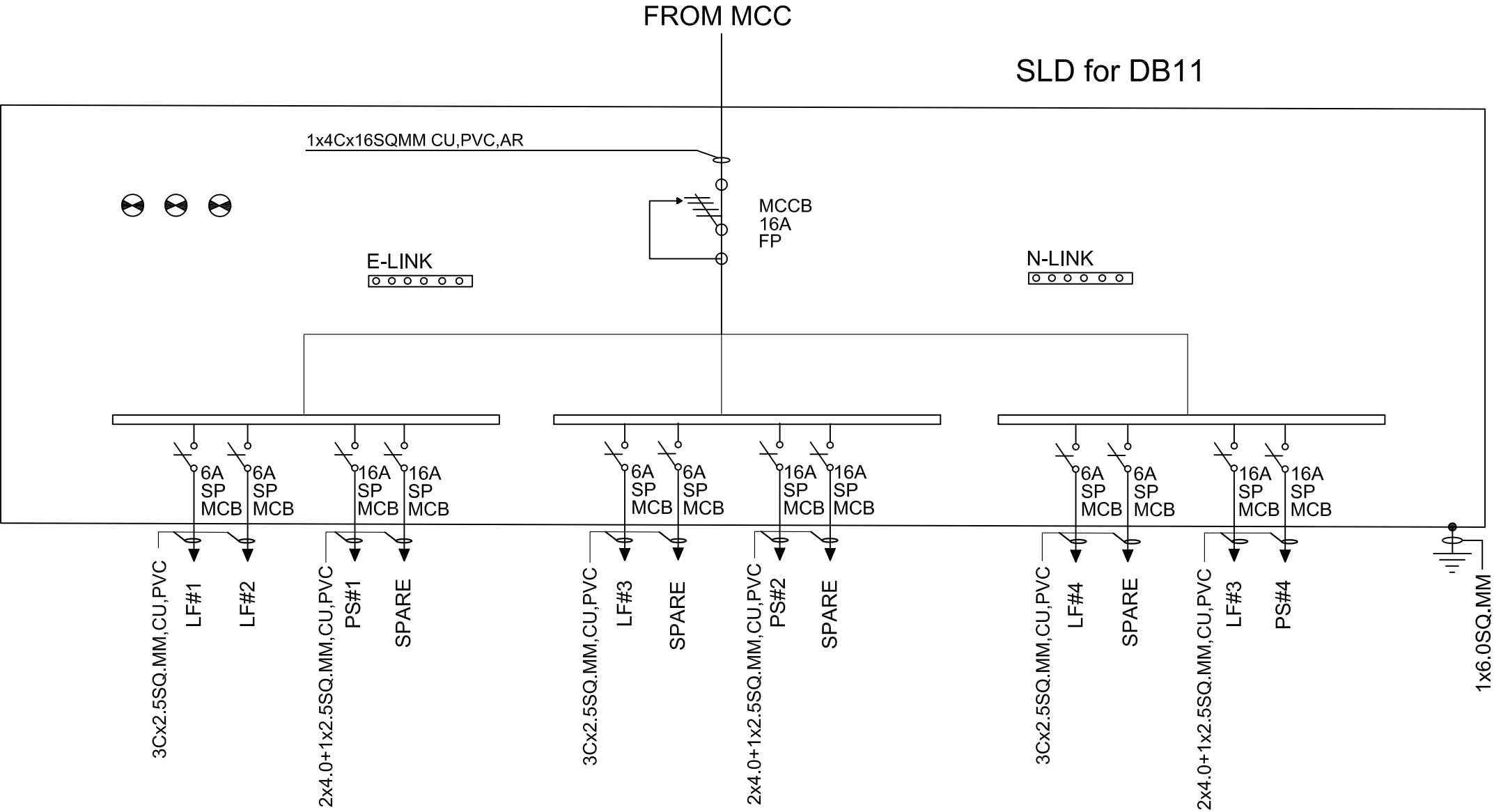
PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

Electrical SLD Details

DATE : 2026
DWG NO : E1
SHEET NO : 14 of 18



LEGEND	
	SINGLE POLE MCB (SP MCB)
	DOUBLE POLE MCB (DP MCB)
	THREE POLE MCB (TP MCB)
	4Pole MCCB with Overcurrent Protection (OCP)
	VOLT METER
	AMP METER
	MULTIFUNCTION METER
	INDICATORS
	EARTHING
	LF#
	PS#
	ACPS#
	CU
	AL
	AR
	PVC



LEGEND	
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	VOLT METER
	AMP METER
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	INDICATORS
	EARTHING
	LIGHT CIRCUIT
	POWER CIRCUIT
	AIRCON CIRCUIT
	CU COPPER CONDUCTOR
	AL ALUMINIUM CONDUCTOR
	AR ARMoured
	PVC POLY VINYLE CHOLRIDE



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DESIGNED BY :
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APPROVED BY :

SCALE :
1:300

PROJECT : Urban Resilience and Livability Improvement Project (URLIP)
Sub-PROJECT : 7. Emergency Operations Centre (SP7)

Electrical SLD Details

DATE : 2026
DWG NO : E1
SHEET NO : 16 of 18

BREAKER SIZE FOR FULL LOAD				
From → To	Line/Load (3φ) kW	Current (A)	Cable Size (Cu, XLPE)	Breaker Size (A) @ MDP
Transformer → MDB	180.5	326	4C × 240 mm ²	500 A ACB
MDB → MCC Panel	5	9	4C × 16 mm ²	25 A MCCB
MCC → Pump	5	9	4C × 6 mm ²	16 A MCCB
MDB → DB1	19.26	35	4C × 16 mm ²	50 A MCCB
MDB → DB2	27	49	4C × 25 mm ²	63 A MCCB
MDB → DB3	16.12	29	4C × 16 mm ²	50 A MCCB
MDB → DB4	19.79	36	4C × 16 mm ²	50 A MCCB
MDB → DB5	15.94	29	4C × 16 mm ²	50 A MCCB
MDB → DB6	25.31	46	4C × 25 mm ²	63 A MCCB
MDB → DB7	18.07	33	4C × 16 mm ²	50 A MCCB
MDB → DB8	11.75	21	4C × 16 mm ²	50 A MCCB
MDB → DB9	11.35	20	4C × 16 mm ²	50 A MCCB
MDB → DB10	4.22	8	4C × 16 mm ²	25 A MCCB
MDB → DB11	11.66	21	4C × 16 mm ²	50 A MCCB



CABLE SIZE & BREAKER SIZE OF DB					
From → To	Line Loop (Nos)	Current (A)	Cable Size (Cu, PVC)	Line/Load (1 ϕ)	Breaker Size (A)
DB1 → Room Light	9	6	2C × 1.5 mm ²	19.26	6 A MCB
DB1 → Room Power	10	16	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB
DB2 → Room Light	5	6A	2C × 1.5 mm ²	27	6 A MCB
DB2 → Room Power	14	16 A	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB
DB3 → Room Light	6	6A	2C × 1.5 mm ²	16.12	6 A MCB
DB3 → Room Power	5	16 A	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB
DB4 → Room Light	7	6A	2C × 1.5 mm ²	19.79	6 A MCB
DB4 → Room Power	7	16 A	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB
DB5 → Room Light	8	6A	2C × 1.5 mm ²	15.94	6 A MCB
DB5 → Room Power	9	16 A	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB
DB6 → Room Light	7	6A	2C × 1.5 mm ²	25.31	6 A MCB
DB6 → Room Power	7	16 A	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB
DB7 → Room Light	8	6A	2C × 1.5 mm ²	18.07	6 A MCB
DB7 → Room Power	11	16 A	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB
DB8 → Room Light	9	6A	2C × 1.5 mm ²	11.75	6 A MCB
DB8 → Room Power	7	16 A	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB
DB9 → Room Light	10	6A	2C × 1.5 mm ²	11.35	6 A MCB
DB9 → Room Power	11	16 A	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB
DB10 → Room Light	4	6A	2C × 1.5 mm ²	4.22	6 A MCB
DB10 → Room Power	3	16 A	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB
DB11 → Room Light	6	6A	2C × 1.5 mm ²	11.66	6 A MCB
DB11 → Room Power	6	16 A	2C × 2.5 mm ² and 1C × 1 mm ²		16 A MCB

