



Government of Nepal

Ministry of Urban Development

Department of Urban Development and Building Construction

Regional Urban Development Project

Project Coordination Office

Babarmahal, Kathmandu

STRUCTURAL DRAWINGS of TERMINAL BUILDING

LUMBINI SANSKRITIK MUNICIPALITY

GENERAL NOTES

GENERAL

- General notes and typical structural details shall apply to all drawings unless otherwise shown or noted.
- All works to be carried out in accordance with current practice, structure regulation, project specification,Nepalese Code and relevant Indian Standard and Codes of Practice. Materials and components to be appropriate for their intended use.
- The contractor shall be responsible for verifying the dimensions on site and ensuring that all the dimensions and levels shown on the drawings are correct and consistent with other relevant drawings. Any discrepancies are to be reported immediately to Engineer
- During construction, the contractor shall be responsible for maintain the structure in a stable condition and ensuring no par shall be damaged under construction activities.
- Workmanship and materials are to be in accordance with the relevant Indian Standards.
- The Engineer shall accept no responsibility for the works unless they are inspected and approved by the Engineer during the Construction. At least 48hours notice shall be provided for all engineering inspections.
- Any damage to the surface during construction/erection is to be made good.
- Before commencing the structural steel works, the shop drawings shall be provided to the Engineer.

DESIGN CRITERIA

1. LOADS

1.1. DEAD LOADS

- Unit Weight of PCC = 24 kN/m³
- Unit Weight of RCC = 25 kN/m³
- Unit Weight of Steel (Rebar) = 78.5 kN/m³
- Unit Weight of Brick = 19 kN/m³

1.2. LIVE LOADS

- Roof Live Load = 4 kN/m² (Restaurant)
- Staircase and Passage Live Load = 4 kN/m²
- Rooms =2kN/m² / 3 kN/m²

1.3. SEISMIC LOAD

- Code Followed = NBC 105:2020
 - Soil Type = C Type
 - Seismic Zoning Factor = 0.35
 - Importance Factor = 1.25
 - Over Strength Factor = 1.5 For ULS
 - Ductility Factor = 4.0 For ULS
 - Type of Structural System = RC Moment Resisting Frame System
- #### 1.4. SOIL PROPERTIES
- Unit Weight of Soil = 19 kN/m³
 - Bearing Capacity of Soil = 120 kN/m² (Geotechnical Report)

2. DESIGN AND CODE REFERENCE

Following references shall govern the design, fabrication and construction of project.

- IS 875(part I) Code of practice for design loads (dead) for buildings and structures.
- IS 875 (part II) Code of practice for design loads (live) for buildings and structures.
- IS 875 (part III) Code of practice for design loads (wind) for buildings and structures.
- NBC 105:2020 Seismic Design of Building in Nepal
- IS 13920:2016 Ductile Design and Detailing of Reinforced Concrete Structures Subjected to Seismic Forces
- SP 34 Handbook on Concrete Reinforcement and Detailing

MATERIAL

1. CONCRETE

- The cement used shall be Ordinary Portland cement conforming to IS 269:1976.
- All RCC work shall be continuously cured by moist jute sheets or any means.
- The concrete strength shall be measured on (150x150x150) mm³ cube at 7, 14 and 28 days for various structural elements.
- Unless indicated otherwise on plans, the concrete class and strength shall be as follows:

Block Name: Bus Terminal Block			
SN	Structural Member	Concrete Grade	Remarks
1	Footing,	M25	
2	Tie Beam	M25	
3	RC Column	M25	
4	RC Main Beam, Slab	M25	
5	PCC	M15	

2. REINFORCING STEEL

- Reinforcement steel shall be TMT having yield strength of 500 N/mm².
- Cover to main reinforcing steel shall be in accordance with IS 456:2000.
- Clear Cover of Concrete shall be:
 - Footing = 50 mm
 - Column = 40 mm
 - Beam = 25 mm
 - Slab = 20 mm

- Details of reinforcing steel fabrication and placement shall conform to SP 34-1987.
- Bar bending schedule shall be submitted for approval before the reinforcement work and contractor shall corresponds to the Engineer in case of any discrepancies.

3. STRUCTURAL STEEL BOLTS/WELD (Applicable for Steel Structure)

- Structural steel shall have a yield strength of 250 N/mm².
- Requirements of welds and welding shall conforms to IS 816 and IS9595, as appropriate.
- The electrodes required for metal or welding shall be covered and shall conform to IS814: 1991
- Metal Surface shall be properly cleaned
- Nomenclature of structural steel is as per Indian Standard Steel Section.
- Welds and welding shall be applied as per drawing.
- Application of metal primes and finishing coat of paint shall be in accordance with IS1477:1971 (Part-I and Part-II).
- Anchor Bolt:
 - Bolt shall be of grade as per specified in the drawing if not specified 8.8 grade shall be considered.
 - Bolts shall be galvanize as per IS 5358:1969 provision.
 - Anchor bolts shall confirm to IS 5624:1995. As an alternate for anchor bolts of 8.8 grade threaded steel rebar of 500 N/mm² of length as per design shall be used.

CLIENT:



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Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

General Notes-1
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:
Reviewed By: Er. Ajay Shrestha	
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav	
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DATE: Feb. 2024	SHEET NO ST- 01

CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
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and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

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CONSTRUCTION

1. SETTING OUT

The setting out and the elevations of the different components of the structure shall be approved by the engineer prior to the start of any construction work.

2. REINFORCED CONCRETE

A. CONCRETE MIX AND PLACING

- a. Concrete mix shall meet the design concrete strength given under material.
- b. Concrete shall be deposited, vibrated and cured in accordance with the specifications.
- c. The contractor shall submit to the engineer for approval the pouring sequences for the concrete work.
- d. The contractor shall notify the engineer 48 hours prior to the pouring of any structural concrete, so an inspection can be made on all the forms and reinforcing
- e. Use of the admixture is permitted to produce proper slump and workability but subjected to the engineer approval addition of concrete at job site is not allowed.
- f. For two or more layers of reinforcing bars, use separator spacing @ 900 mm o/c and in no case shall be less than 2 separator. Clear distance between layers should not be less than 25 mm or larger bar diameters.
- g. Location of all the constructions or cold joints must be approved by the engineer/Architect.
- h. Pipes or duct exceeding one third the slab or wall thickness shall not be placed in structural concrete unless specifically detailed. Pipes may pass through structural concrete in sleeves but shall not be embedded therein
- i. Reinforcing bars, anchorage bolts, and other inserts shall be secured in place before pouring concrete bar placement and support wall be in accordance with recommend Indian standard practice.
- j. In general, the latest edition of the manual of standard for detailing concrete structure unless shown otherwise.

B. BAR BENDING, SPLICING AND PLACING

- a. The contractor shall submit to the engineer for approval all shop drawing indicating the bending, cutting, splicing and installation of all reinforcing bars.
- b. Bar splicing not indicated on drawing shall be subjected to the approval of engineer.
- c. Lapped splices shall be staggered where possible.
- d. Anchorage bolts, dowels and other embedded items are to be securely tied in place before concrete is poured.
- e. Typical standard hook details. (Refer Typical Drawing)
- f. Typical lap splice details. (Refer Refer Typical Drawing))

C. FORM WORK

- a. Forms shall be provided for all concrete indicated unless specified otherwise, forms shall be set true to line and grade and maintained so as to ensure competent work within the allowable tolerances specified and shall be mortar tight.
- b. Forms and their supports shall be designed so as not to damage previously placed structure.
- c. No construction load shall be supported on, nor any shoring removed from any part of structure in combination with the remaining forming and shoring systems has sufficient strength to support safely its weight and additional imposed load.
- d. Forms shall be removed in such manner as not to impair safely and serviceability of the structure.
- e. Schedule of stripping of forms will be as table: stripping time as per clause 11.3 of IS456:2000.

D. PROTECTION AND CURING OF CONCRETE

Concrete surfaces shall be protected from harmful effects of sun, wind and running water and shall be kept damp for at least 7 days.

Table : Stripping Time As per clause 11.3 of IS456:2000			
SN	Type of Formwork	Minimum Period Before Striking	Remake
1	Sides of Walls, Columns and Vertical Faces of beam	16 to 24 hours	
2	Soffit formwork of slabs (Props Left Under)	3 days	
3	Soffit formwork of beams (Props Left Under)	7 days	
4	Removal of Props of Slabs:		
	a. Slabs spanning uot 4.5m	7 days	
	b. Slabs spanning over 4.5m	14 days	
5	Removal of props for beams and arches		
	a. Span up to 6m	14days	
	b. Span voer 6m	21 days	

3. STRUCTURAL STEEL

- a. Hole size for anchorage bars
- b. Welded connections between members of moment frames shall be tested by non-destructive test method.
- c. Comply with Indian Standard for bearing, adequacy of temporary connection and alignment.
- d. Fabricator shall submit shop drawing for approval by the engineer and the owner prior to fabrication.

4. FOOTINGS

- a. All footing shall be on the natural soil.
- b. All engineered fill beneath slab and over footing shall be compacted to a dry density of at least 90% of the Modified Proctor maximum dry density.
- c. Foundation shall be inspected to ensure that loose soft or otherwise undesirable material (such as organic materials) is removed, and that the foundation will bear on the natural soil.

5. LIMITATION FOR FOOTING

- a. Foundations in areas under infill soil may require special design considerations, such as deeper foundations, reinforced foundation systems, or soil stabilization techniques
- b. Areas with infill soil must be assessed for differential settlement and localized instability. Differential settlements between blocks on solid ground and those over infill should be minimized.

UNITS

- 1. Do not scale drawings. Any missing dimension shall be furnished upon request.
- 2. All dimensions are in millimeter unless otherwise noted.

LIMITATION

The construction design has been done assuming quality materials and steel sections are available. Therefore, the design needs to be verified with the actual situation when the work progress and may require some changes during the implementation.

SYMBOL

- ϕ = Diameter of Rebar

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General Notes-2
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AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:
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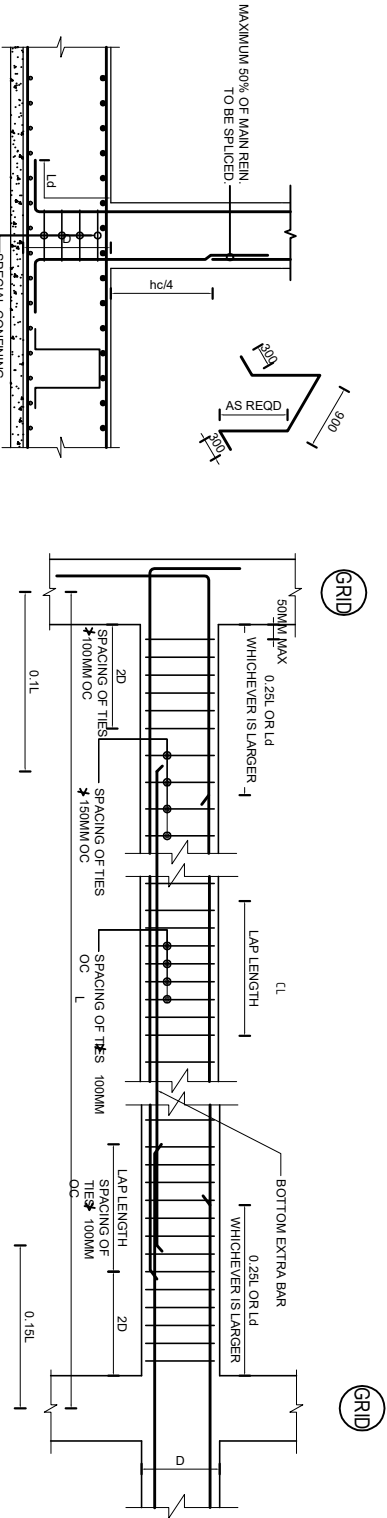
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Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

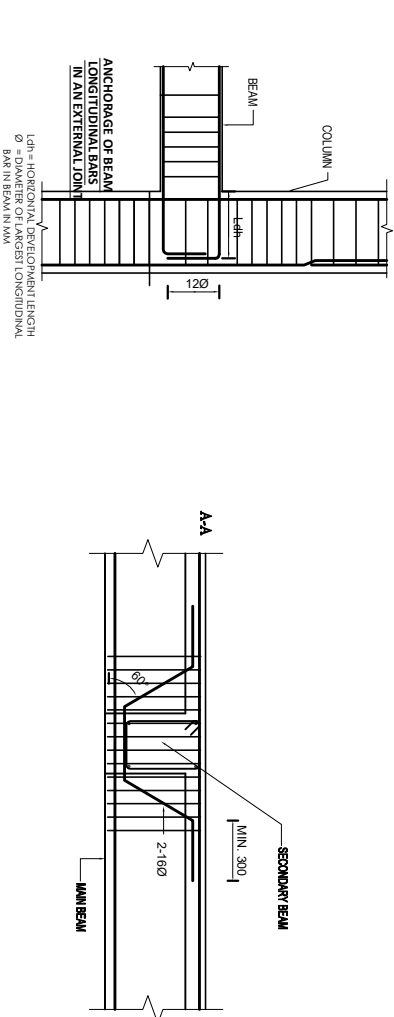
Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

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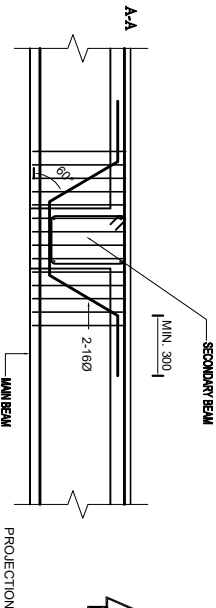
- LAPPING NOTES FOR BEAM**
- Lap length shall not be less than bar development length in tension
 - Not more than 50% of the bars shall be spliced at one section
 - Lap splice shall not be provided:
 - Within the joint
 - Within the distance of 2d from joint face
 - within the quarter length of the member



1 TYP. FOUNDATION CHAIR DETAIL
NTS

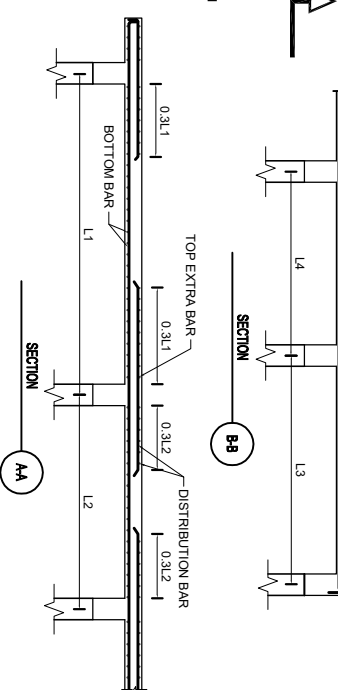


3 TYP DETAIL LAPPING FOR BEAM BAR
NTS



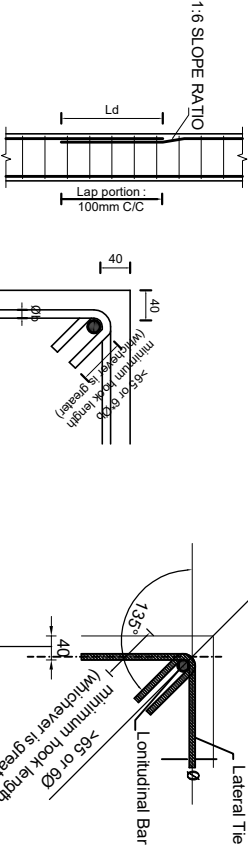
4 TYP. BEAM COLUMN JOINT
NTS

5 TYP. JUNCTION DETAIL OF MAIN & SECONDARY BEAM
NTS



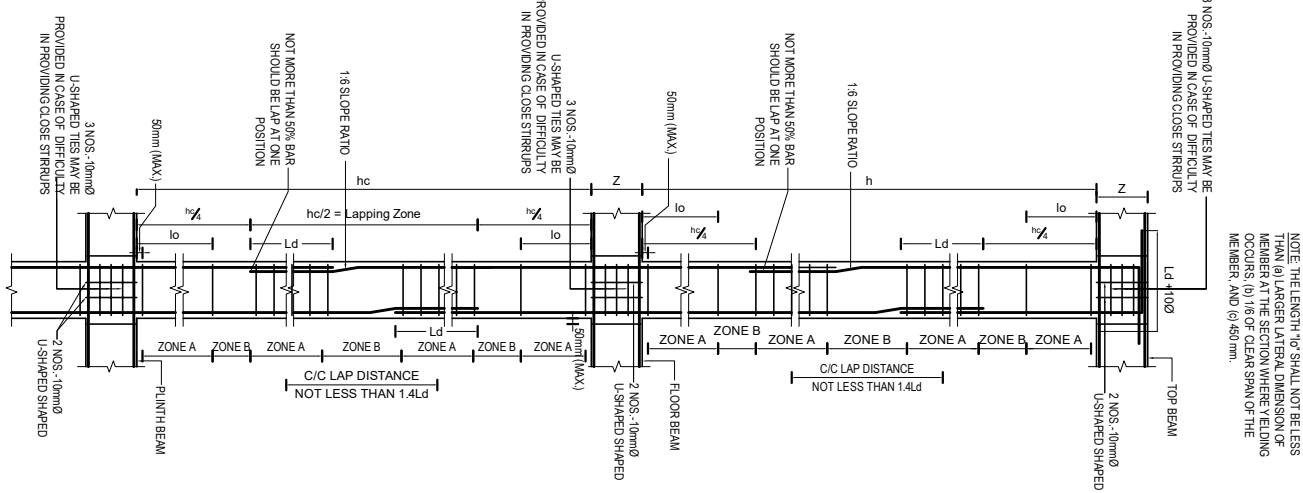
6 TYPICAL DETAILS
NTS

LAP PORTION DETAIL OF HOOK

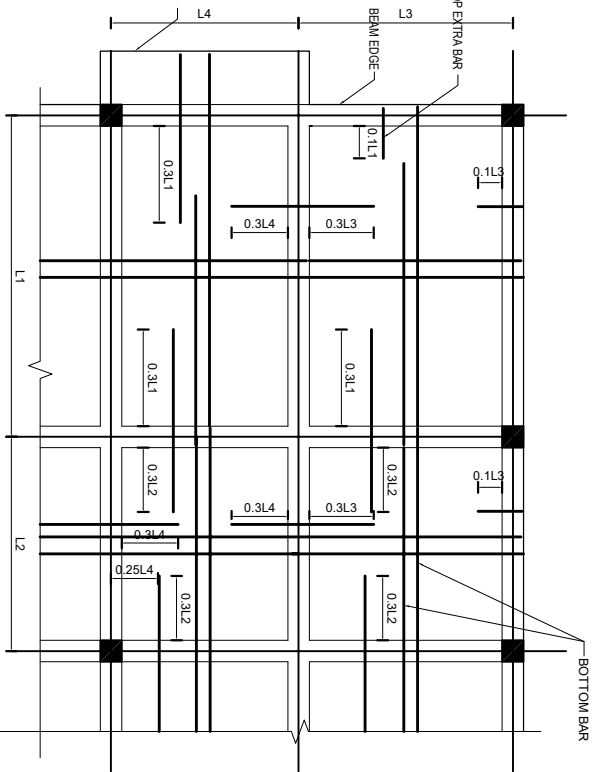


2 TYP. COLUMN SHEAR REINFORCEMENT DETAIL & SPLICING DETAIL
NTS

7 TYPICAL DETAILS OF CANTILEVER BEAM PROJECTING FROM A COLUMN
NTS



8 TYP. SLAB PLAN
NTS



9 TYP. JUNCTION DETAIL OF MAIN & SECONDARY BEAM
NTS

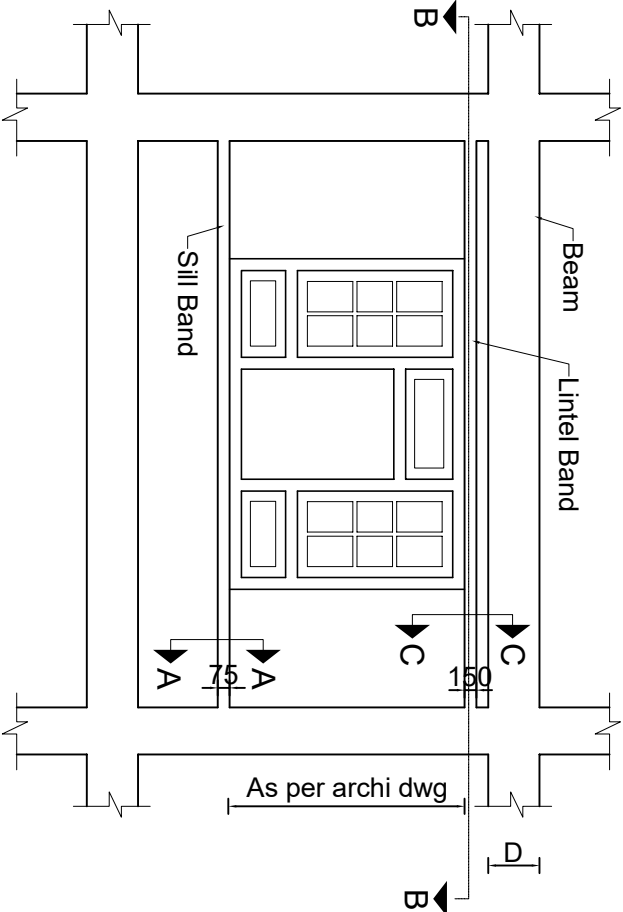
SHEET TITLE: Typical Drawing-1 TERMINAL BUILDING BLOCK	
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Building Design Authority(P) Ltd.- BN- UDAYA JV



HORIZONTAL DEVELOPMENT LENGTH (Ldh)		
Ldh For Grade Of Steel, fy = 500 MPa in mm		
Bar Diameter	Grade of Concrete, fck	
	M20	M25
12	277	247
16	369	330
20	461	412
25	576	515



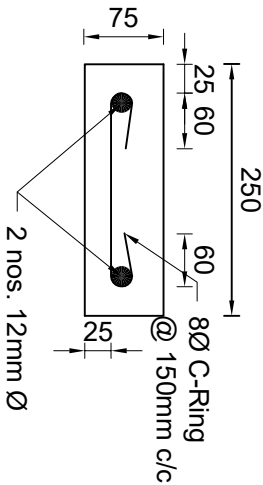
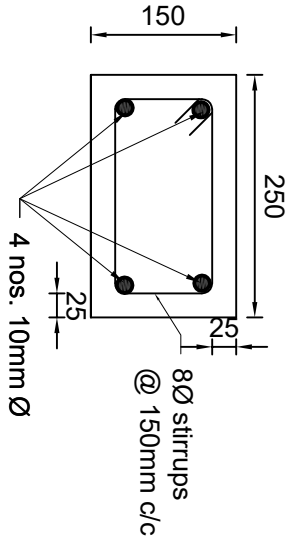
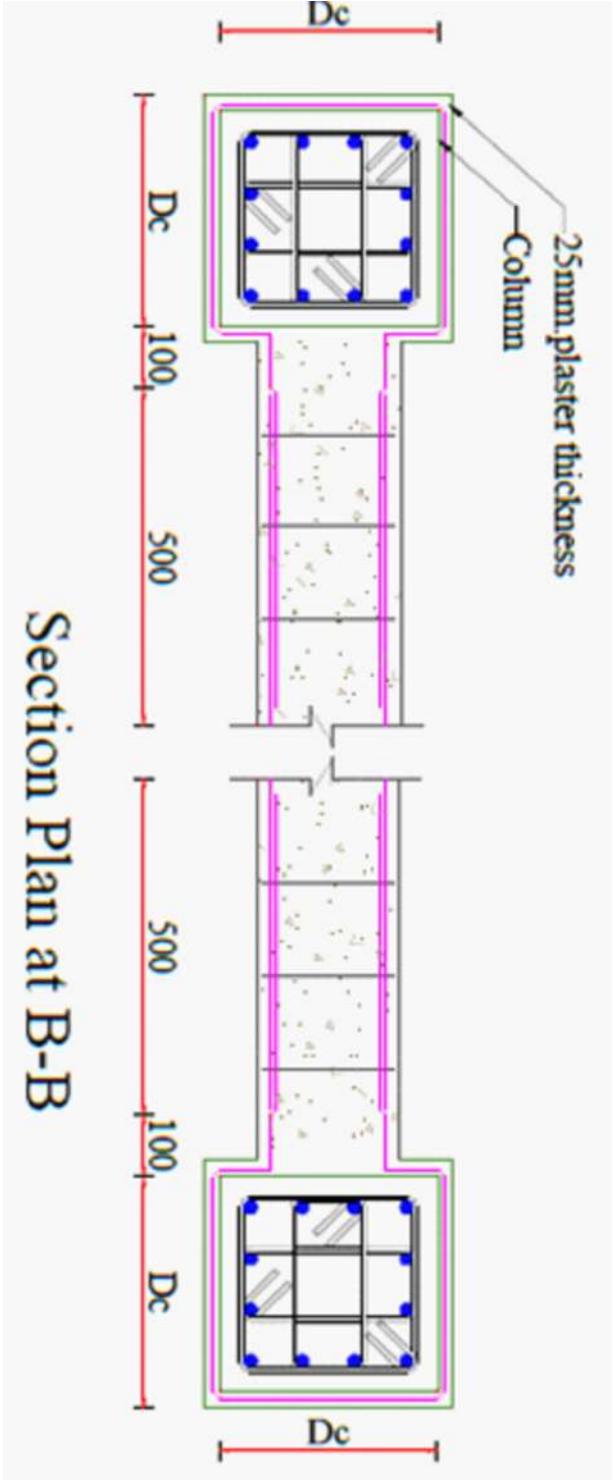
BEAM JOINT AND LAP DETAILS

(SCALE 1:50)

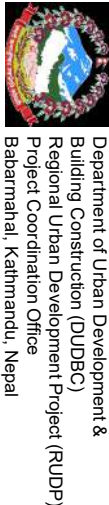
DEVELOPMENT LENGTH (ld)		
Grade of Steel, fy	Grade of Concrete, fck	In tension
500	20	57Ø
	25	49Ø

NOTES:

1. L_{dh} = HORIZONTAL DEVELOPMENT LENGTH, L_d = DEVELOPMENT LENGTH, LAP LENGTH
2. "TOP" BARS ARE HORIZONTAL WITH MORE THAN 300mm [12"] OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "BOT" BARS.
3. SPLICE LENGTHS SHOWN ARE FOR CLEAR SPACING NOT LESS THAN 2Ø, CONCRETE COVER NOT LESS THAN Ø.
4. ALL THE REINFORCEMENT DETAILING SHALL COMPLY WITH THE REQUIREMENT OF IS 13920:2016 (DUCTILE DETAILING OF REINFORCED CONCRETE STRUCTURES SUBJECTED TO SEISMIC FORCES-CODE FOR PRACTICE)



CLIENT:



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SHEET TITLE:

Typical Drawing-2

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader: Approved By:

Reviewed By: Er. Ajay Shrestha

Designed By: Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

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DATE: Feb. 2024

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Mid Baneshwor, Kathmandu

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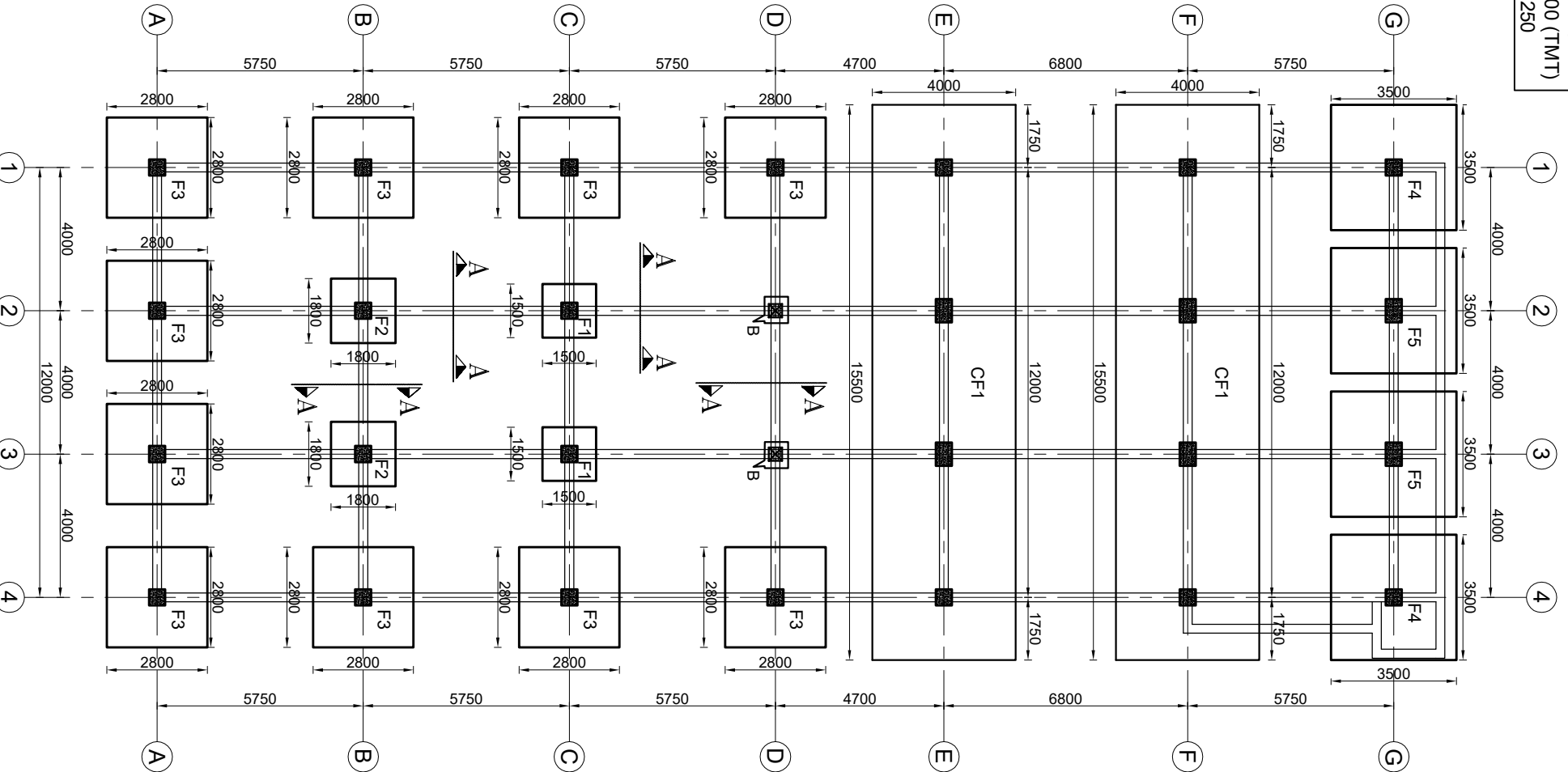
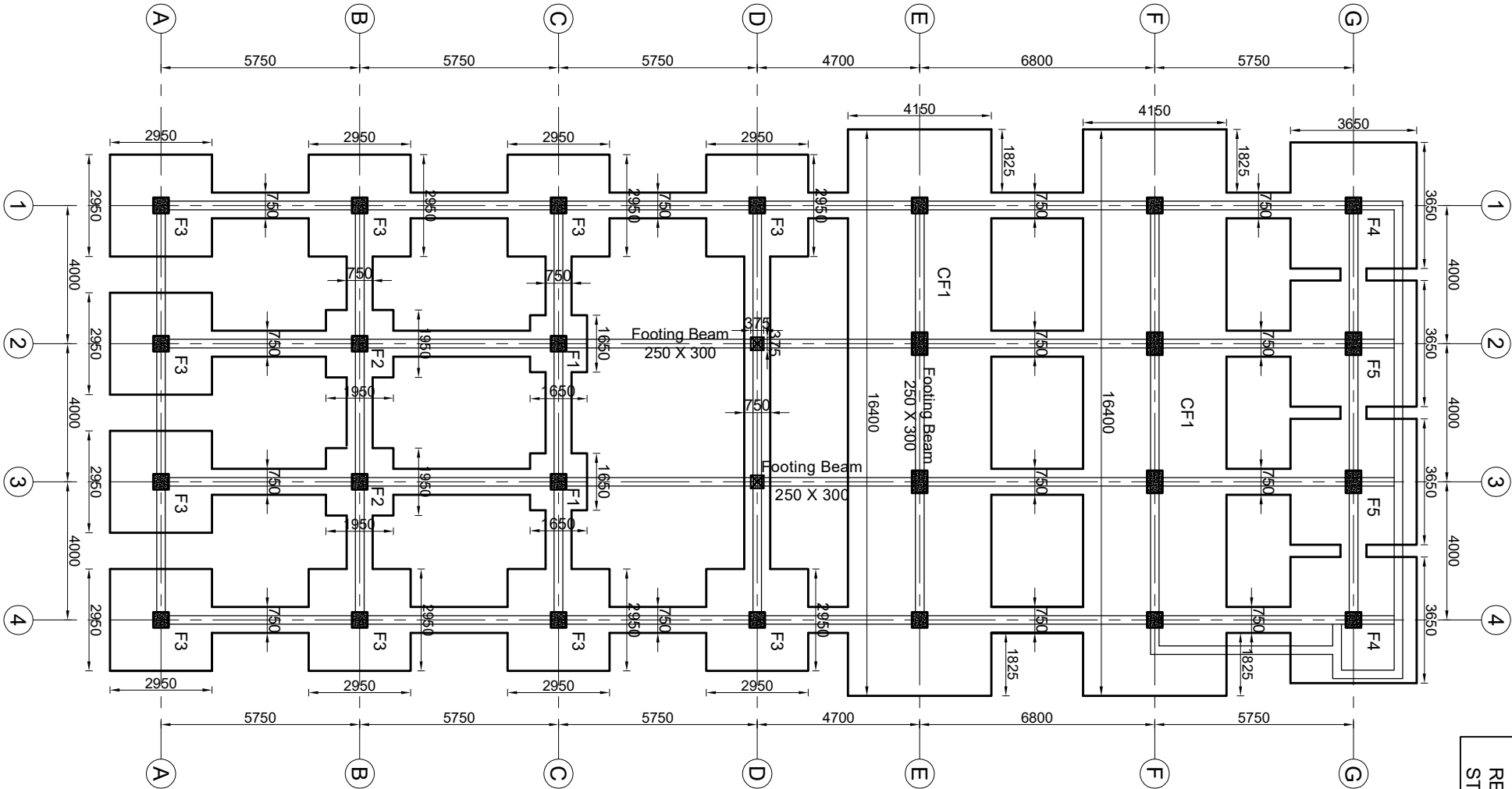
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250



CLIENT:



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SHEET TITLE:

Footing Layout Plan
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

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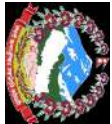
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Footing Details
TERMINAL BUILDING BLOCK

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NAME: Bus Terminal
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CONSULTANT

Team Leader:

CLIENT

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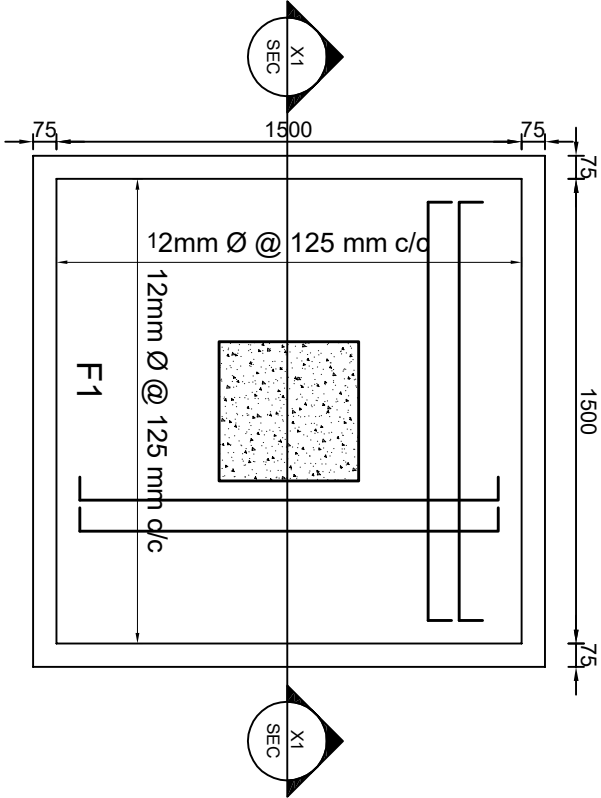
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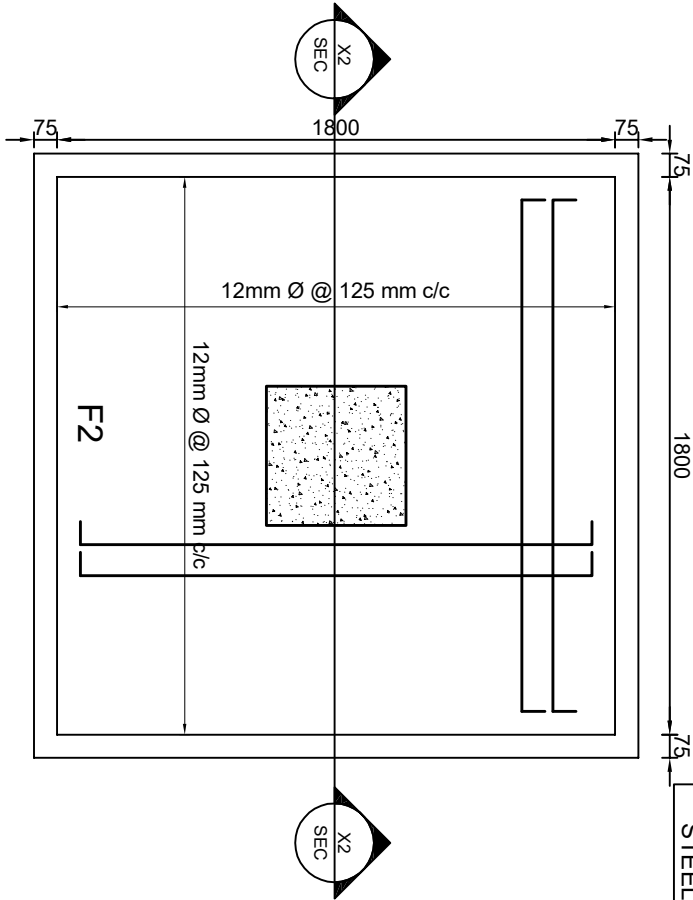
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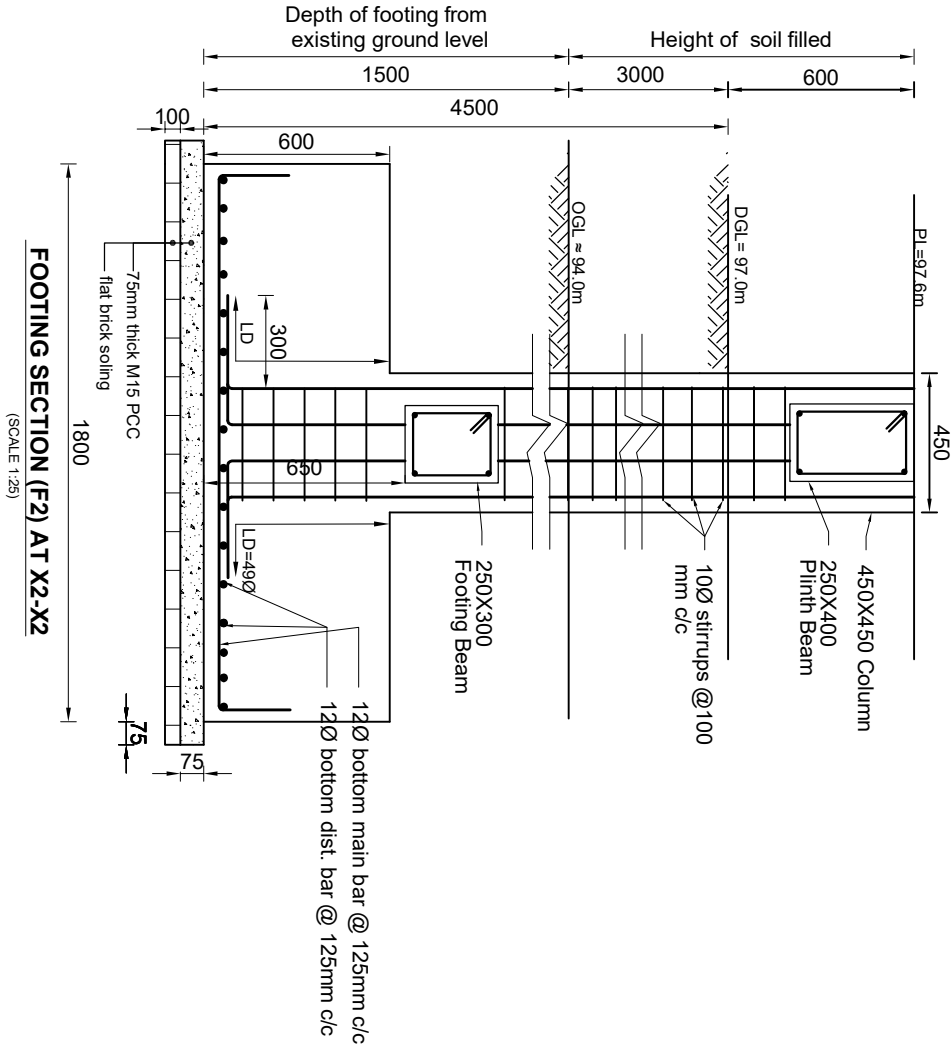
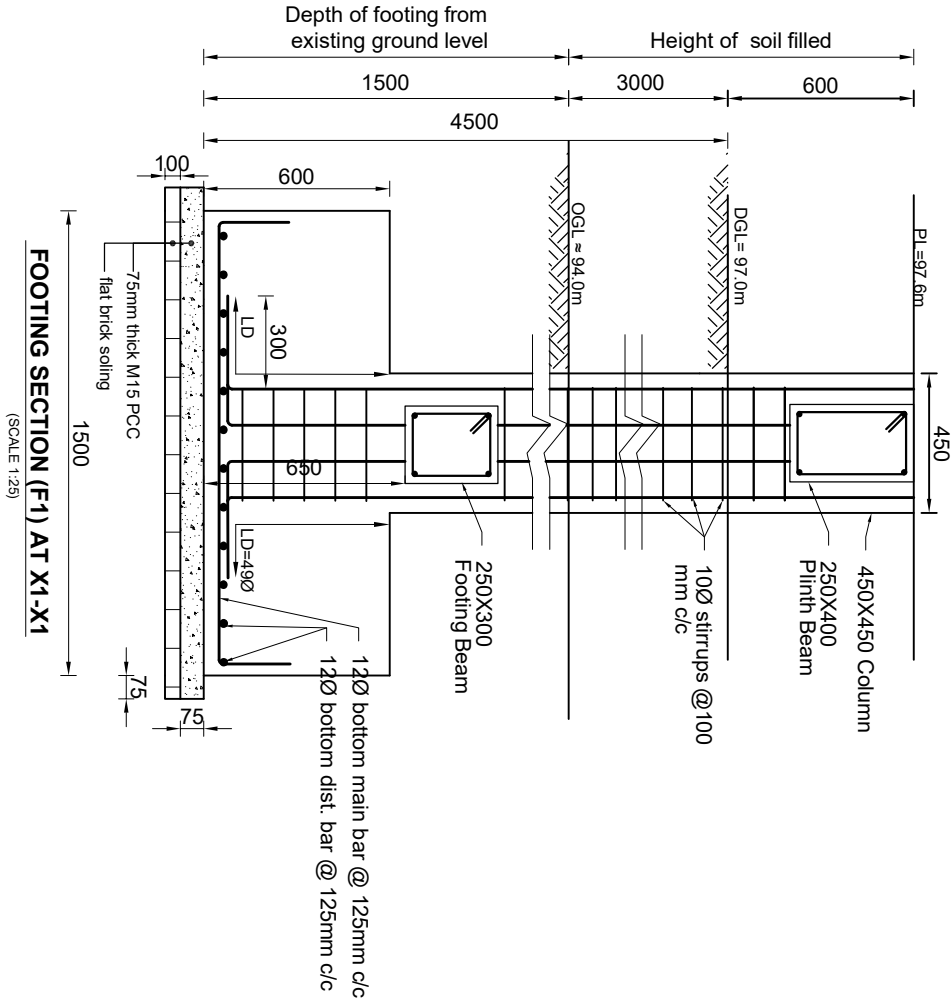
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FOOTING PLAN (F1)
(SCALE 1:25)



FOOTING PLAN (F2)
(SCALE 1:25)



NOTE:

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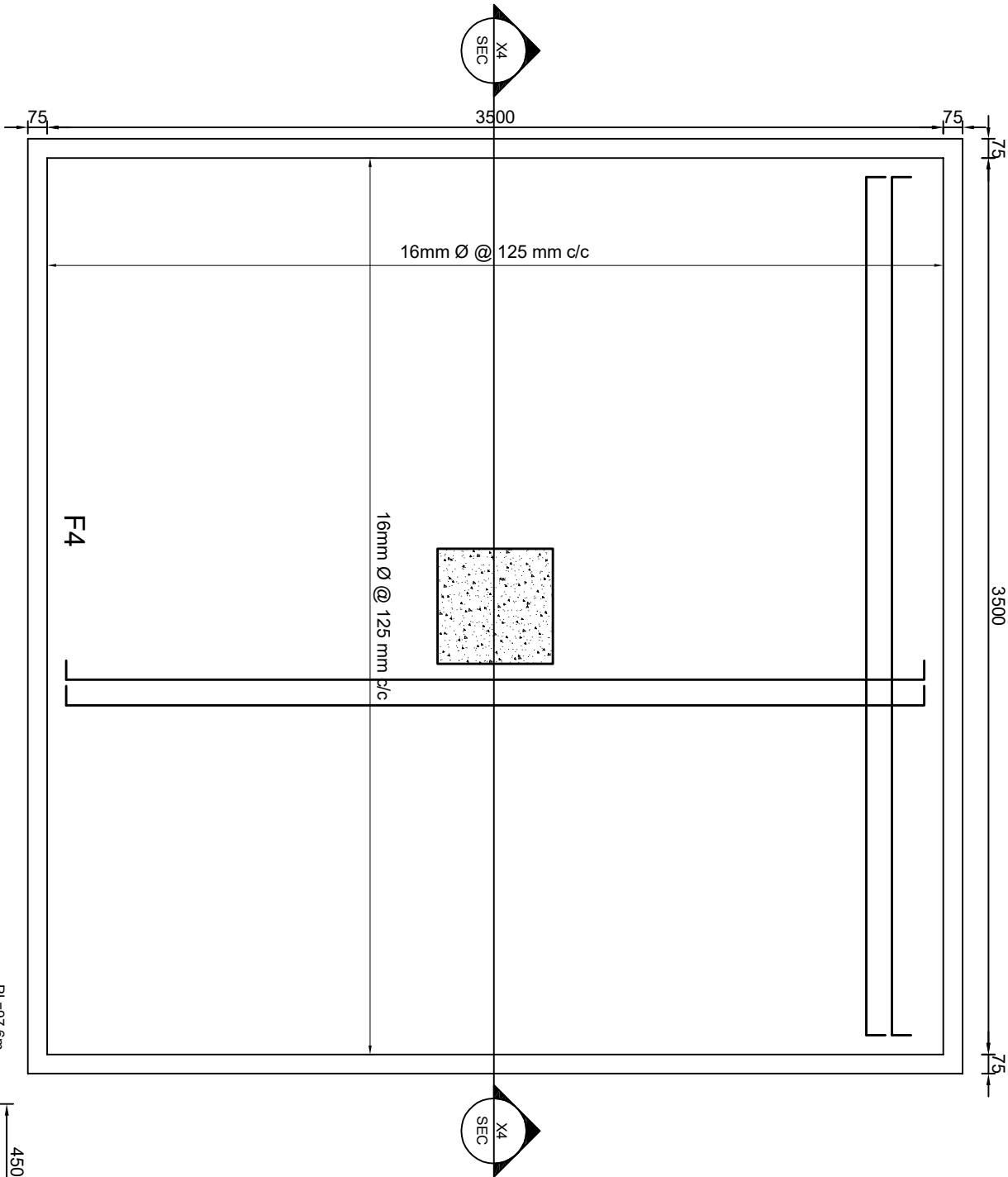
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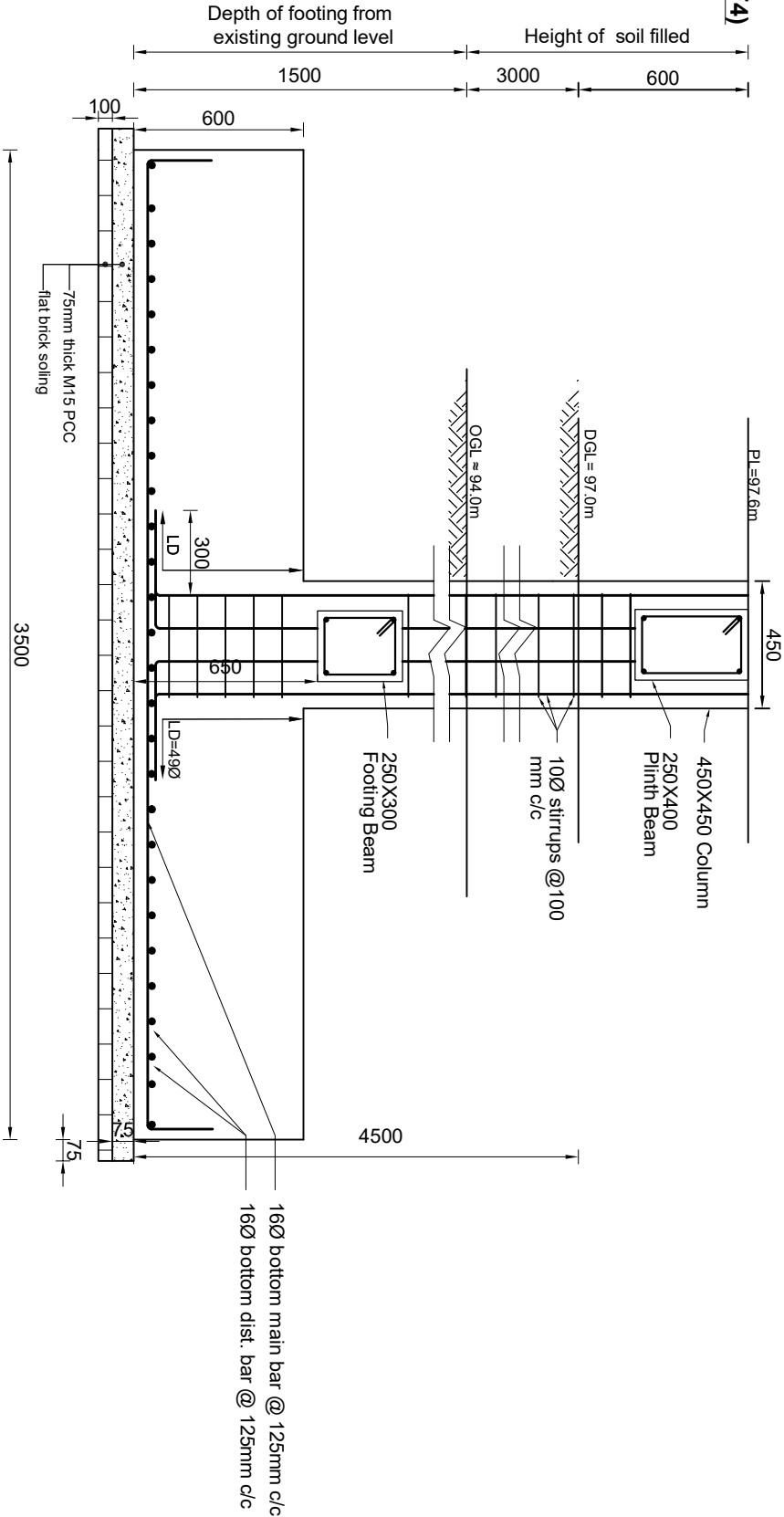
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FOOTING PLAN (F4)
(SCALE 1:25)



FOOTING SECTION (F4) AT X4-X4
(SCALE 1:25)

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DATE: Feb. 2024

SHEET NO ST- 09

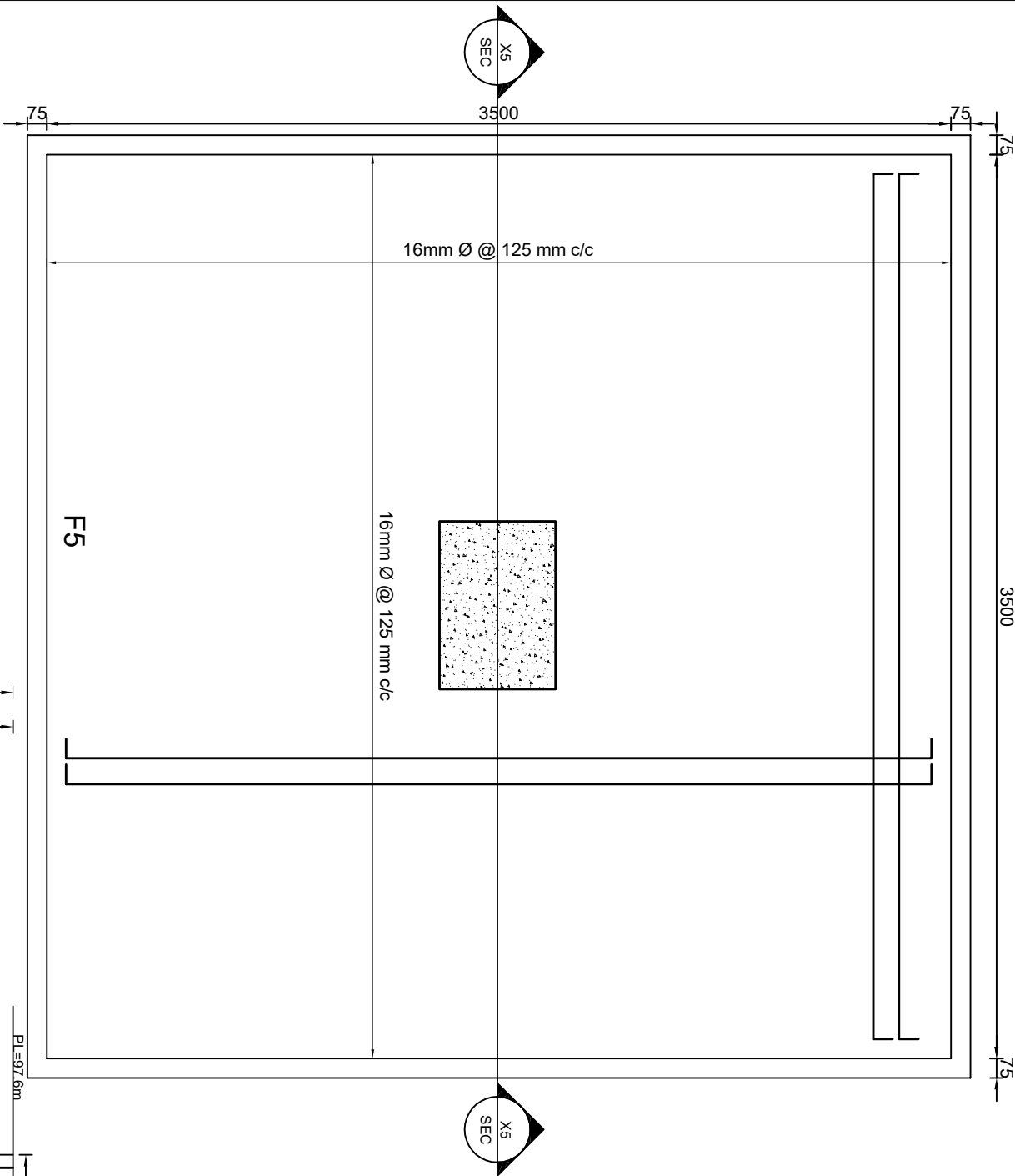
CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

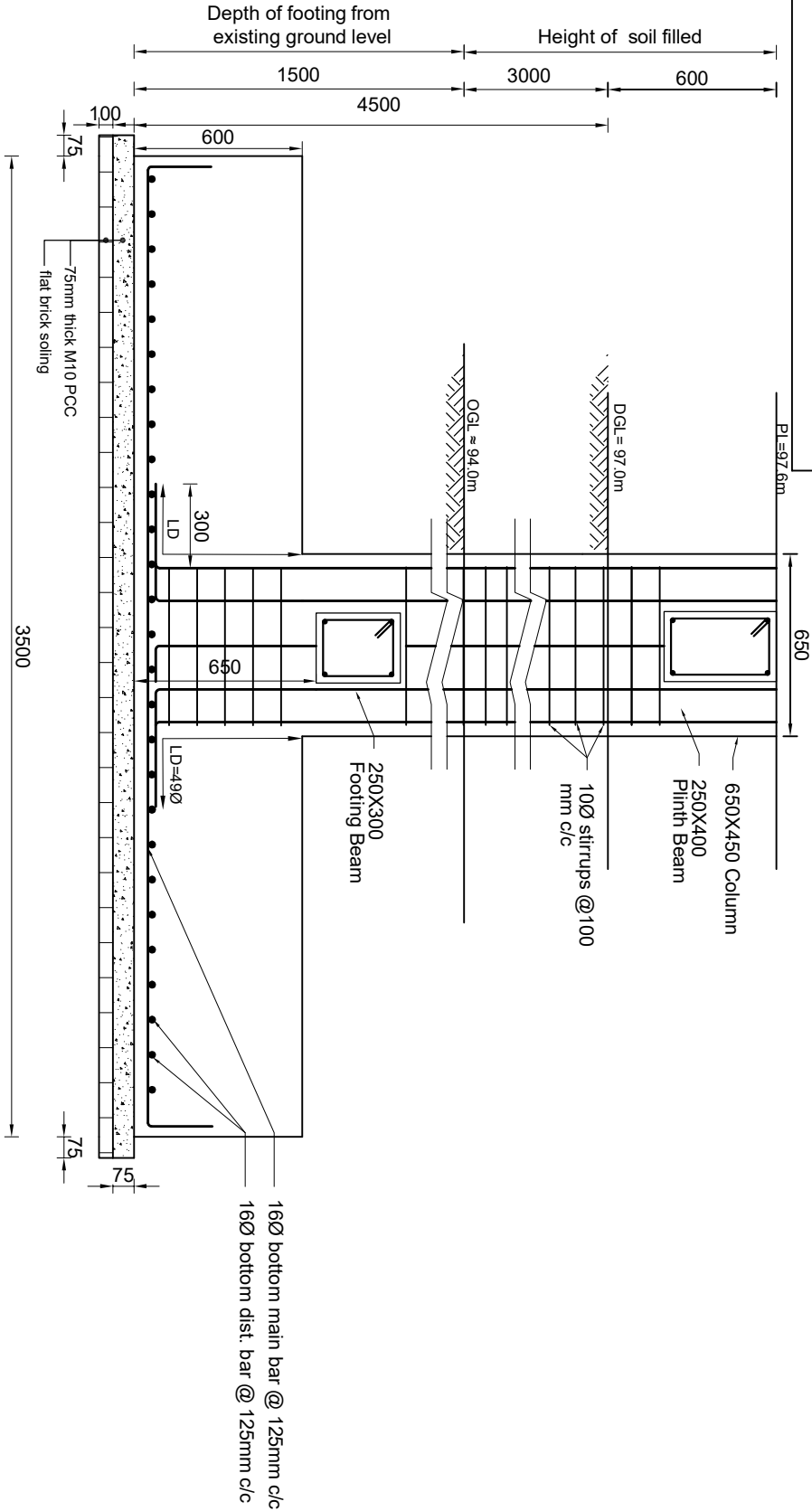
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



FOOTING PLAN (F5)

(SCALE 1:25)



FOOTING SECTION (F5) AT X5-X5

(SCALE 1:25)

NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

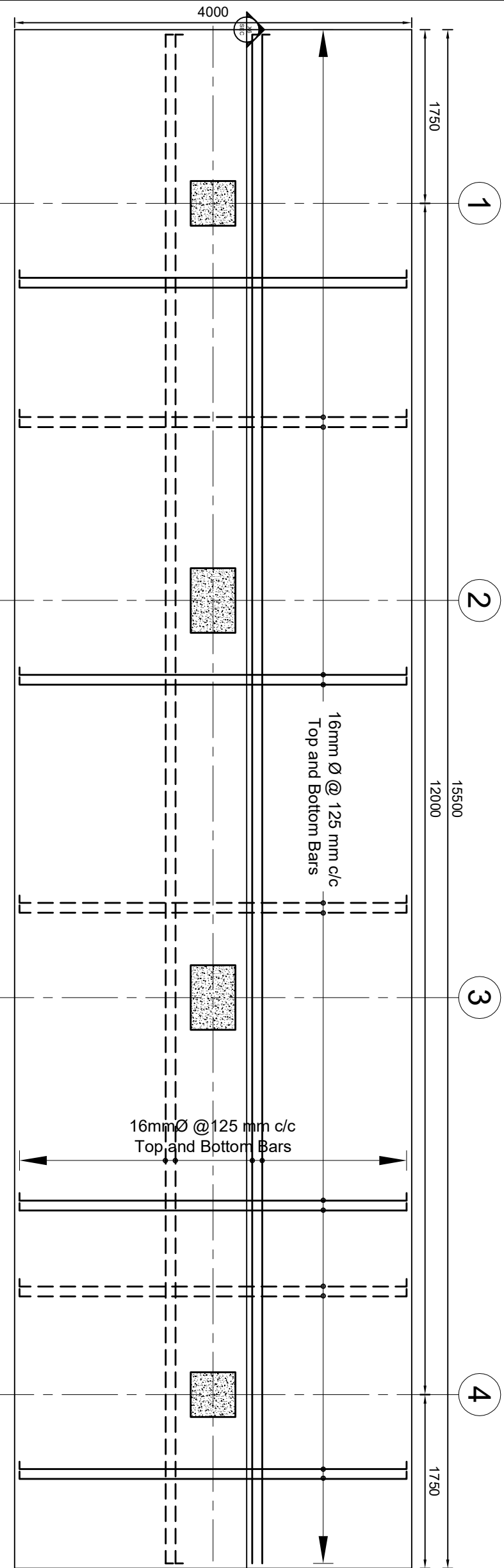
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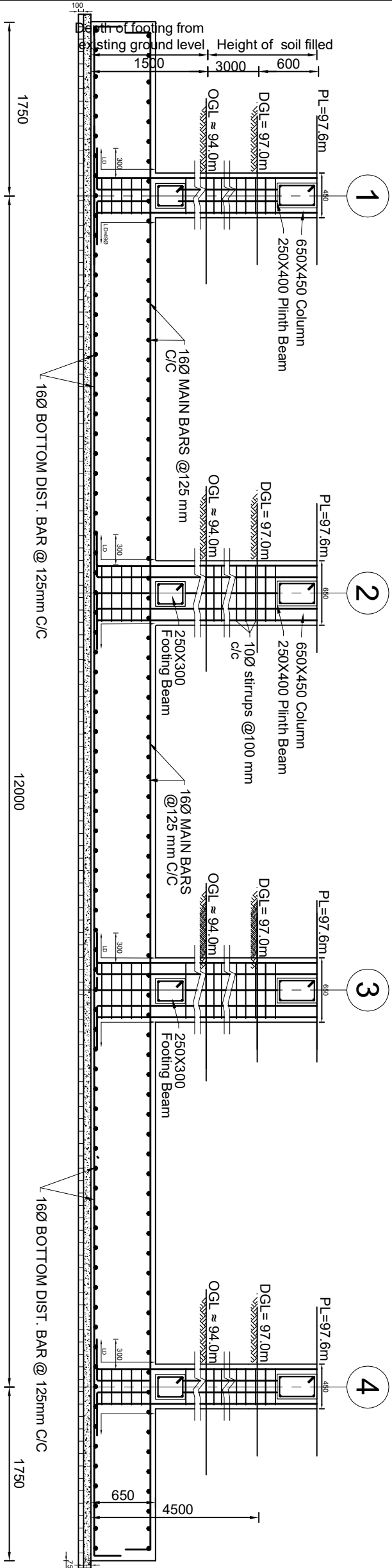
Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project



FOOTING PLAN (CF1)
(SCALE 1:50)



COMBINED FOOTING SECTION (CF1)
(SCALE 1:50)

SHEET TITLE:

Footing Details
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN-UDAYA JV



NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

CLIENT:



Department of Urban Development &
Regional Construction (DUDRC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Column Layout Plan
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb, 2024

SHEET NO ST- 11

CONSULTANT:

DOHWA Engineering Co. Ltd.

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ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,

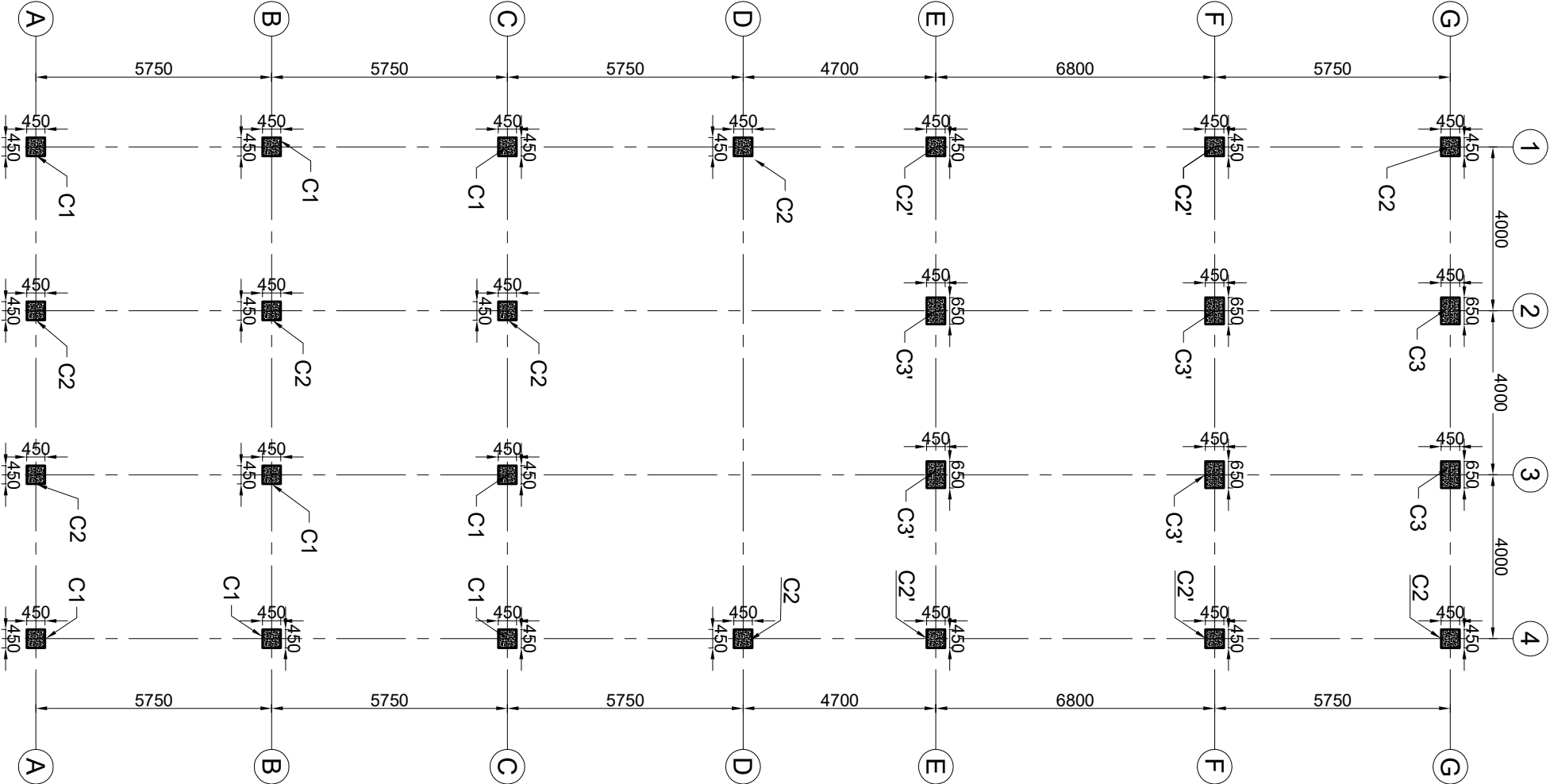
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



CONCRETE GRADE = M25		STEEL = (Fe500)		TYPES OF STIRRUPS	
POSITION OF BAR	COLUMN NAME	GROUND FLOOR	FIRST FLOOR	SECOND FLOOR	10 mm Ø Bar @ 100 mm c/c Full height
	C1	8-20Ø+4-16Ø	8-20Ø+4-16Ø		
	C2	12-20Ø	12-20Ø		
	C2'	12-20Ø	12-20Ø	8-20Ø+4-16Ø	
	C3	16-20Ø	16-20Ø		
	C3'	16-20Ø	16-20Ø	8-20Ø+8-12Ø	

COLUMN REINFORCEMENT DETAILS

COLUMN LAYOUT PLAN

(SCALE 1:150)



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Footing Beam Layout Plan and Details
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

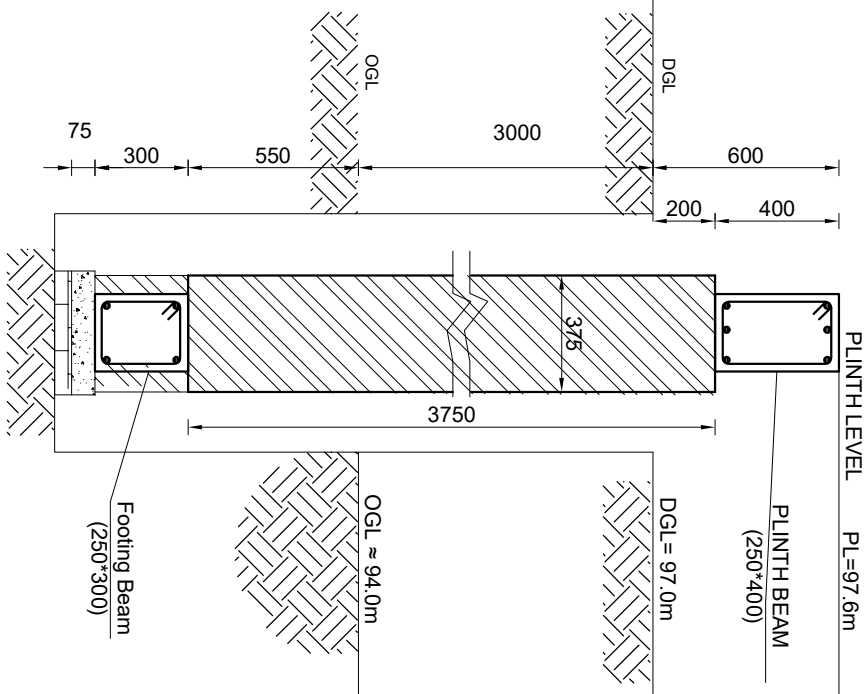
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DATE: Feb. 2024	SHEET NO ST- 12

CONSULTANT:
DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

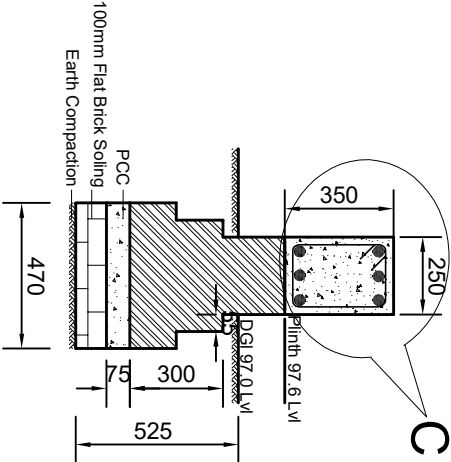
Building Design Authority(P) Ltd.- BN- UDAYA JV



BRICK COLUMN

Section B

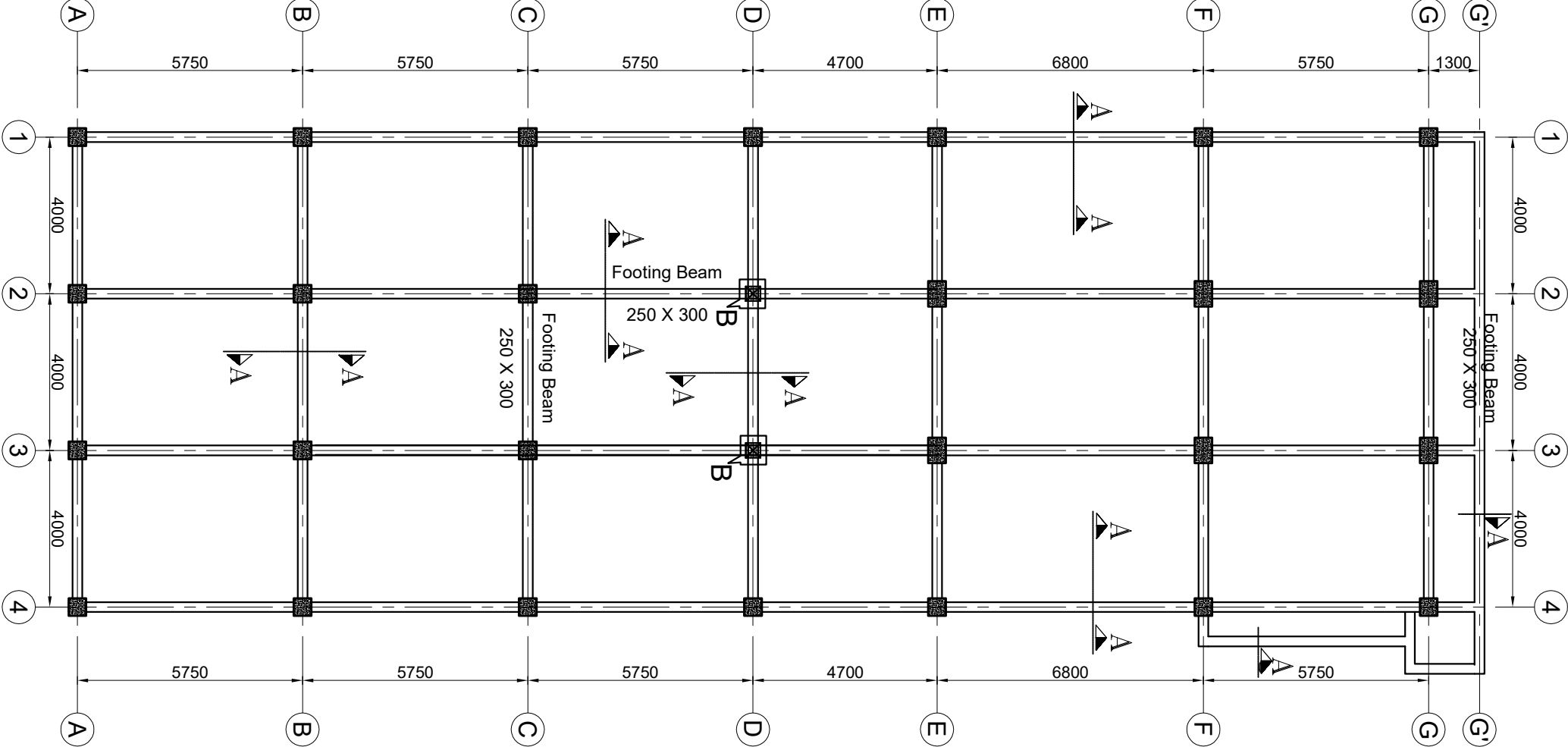
Scale(1:25)



TOE WALL UNDER SECONDARY BEAM

Section C-C

Scale(1:25)



FOOTING BEAM LAYOUT PLAN

(SCALE 1:150)

NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Plinth Beam Layout Plan and Details

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with

ERMC (P.) Ltd., SILT Consultants (P.) Ltd.,

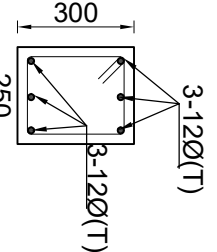
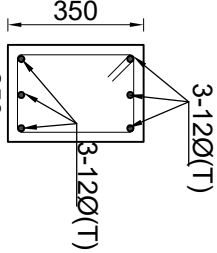
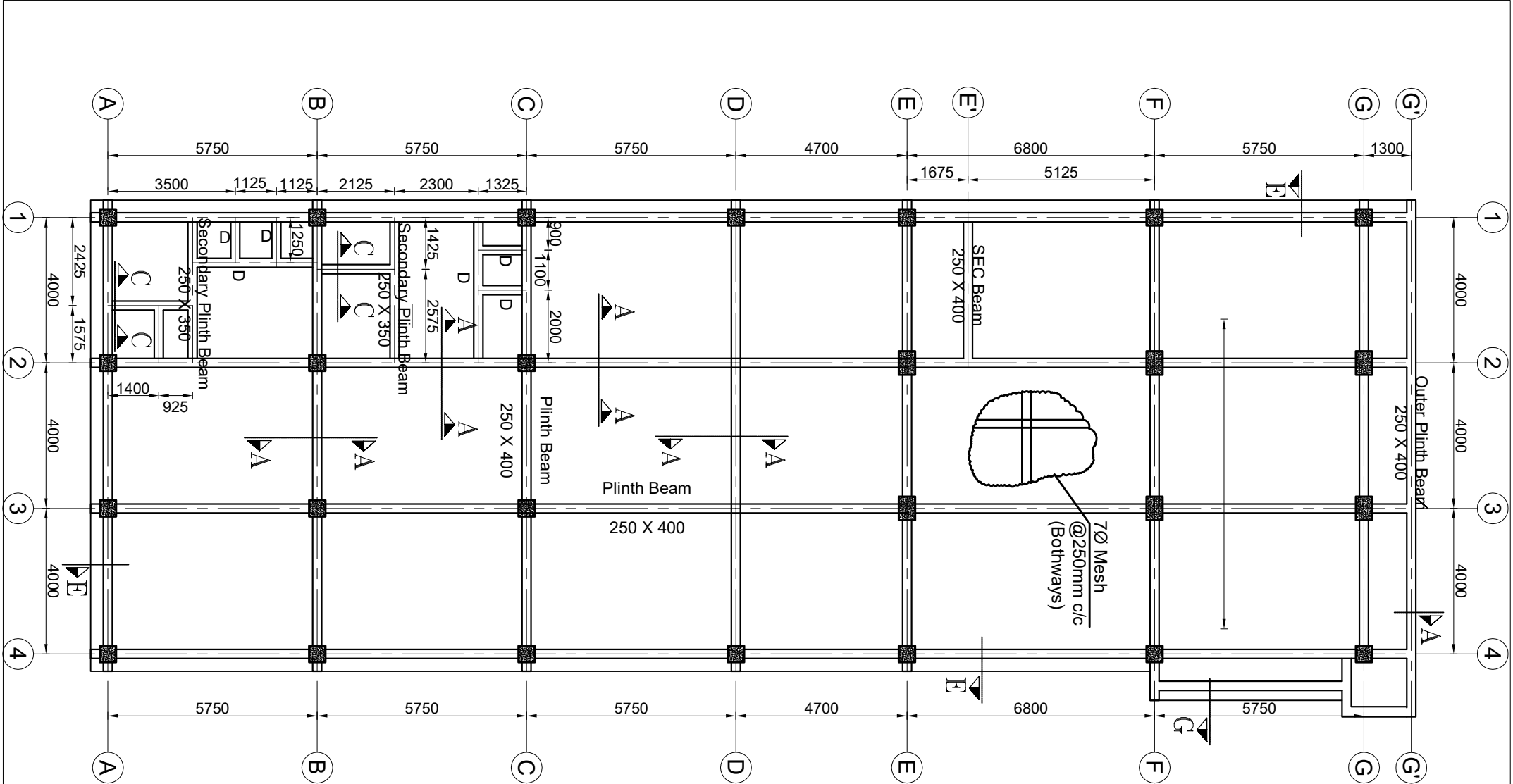
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

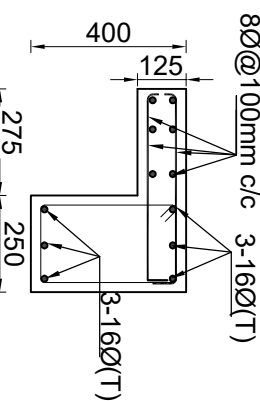
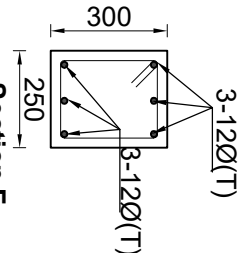
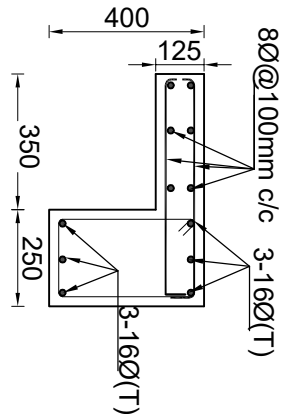
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



Section C
Secondary Plinth beam
Stirrup 8Ø@ 100 at Ends. &
8Ø@ 125 at mid.
Scale 1:20

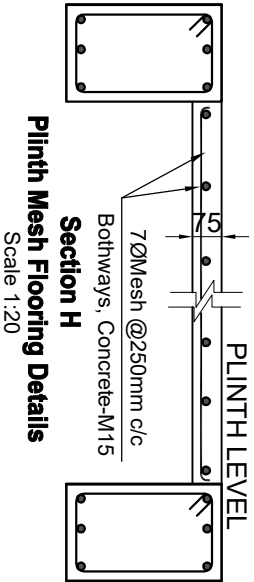
Section D
Secondary Plinth beam
Stirrup 8Ø@ 100 at Ends. &
8Ø@ 125 at mid.
Scale 1:20



Section E
(Plinth Beam)
Stirrup 8Ø@ 100 at Ends. &
8Ø@ 125 at mid.
Scale 1:20

Section F
Footing beam
Stirrup 8Ø@ 100 at Ends. &
8Ø@ 125 at mid.
Scale 1:20

Section G
(Plinth Beam)
Stirrup 8Ø@ 100 at Ends. &
8Ø@ 125 at mid.
Scale 1:20



PLINTH BEAM LAYOUT PLAN

(SCALE 1:150)

NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

CLIENT:



Department of Urban Development & Building Construction (DUBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

[illegible]

SHEET TITLE

Footings Section and Details

SITE INFORMATION

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:
Reviewed By: Er. Ajay Shrestha	
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav	
PAPER SIZE: A3	SCALE: AS SHOWN
DATE: Feb, 2024	SHEET NO ST- 14

CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and **DIGICON (P.) Ltd.**
Mid Baneswor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JW



NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

First and Second Floor Beam Plan

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb, 2024

SHEET NO ST-15

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with

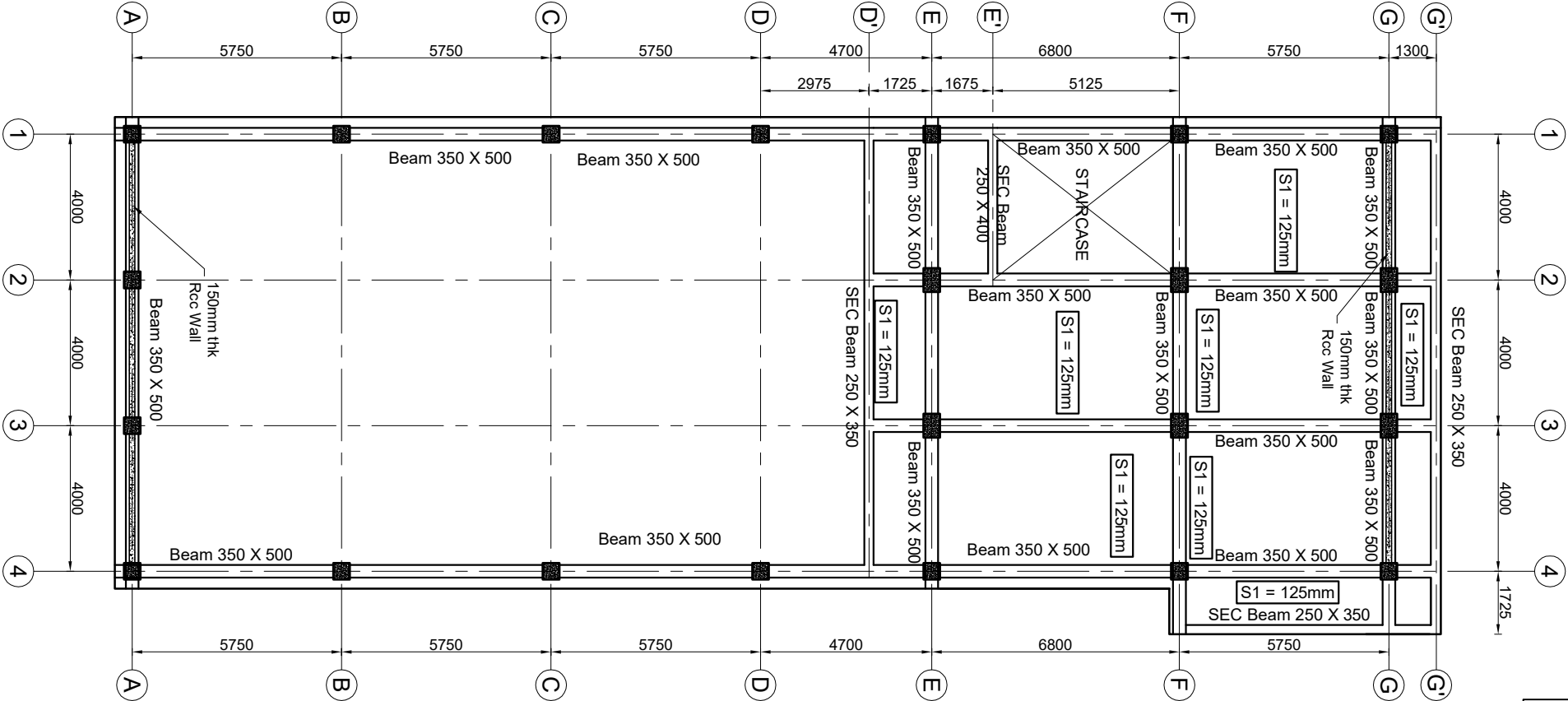
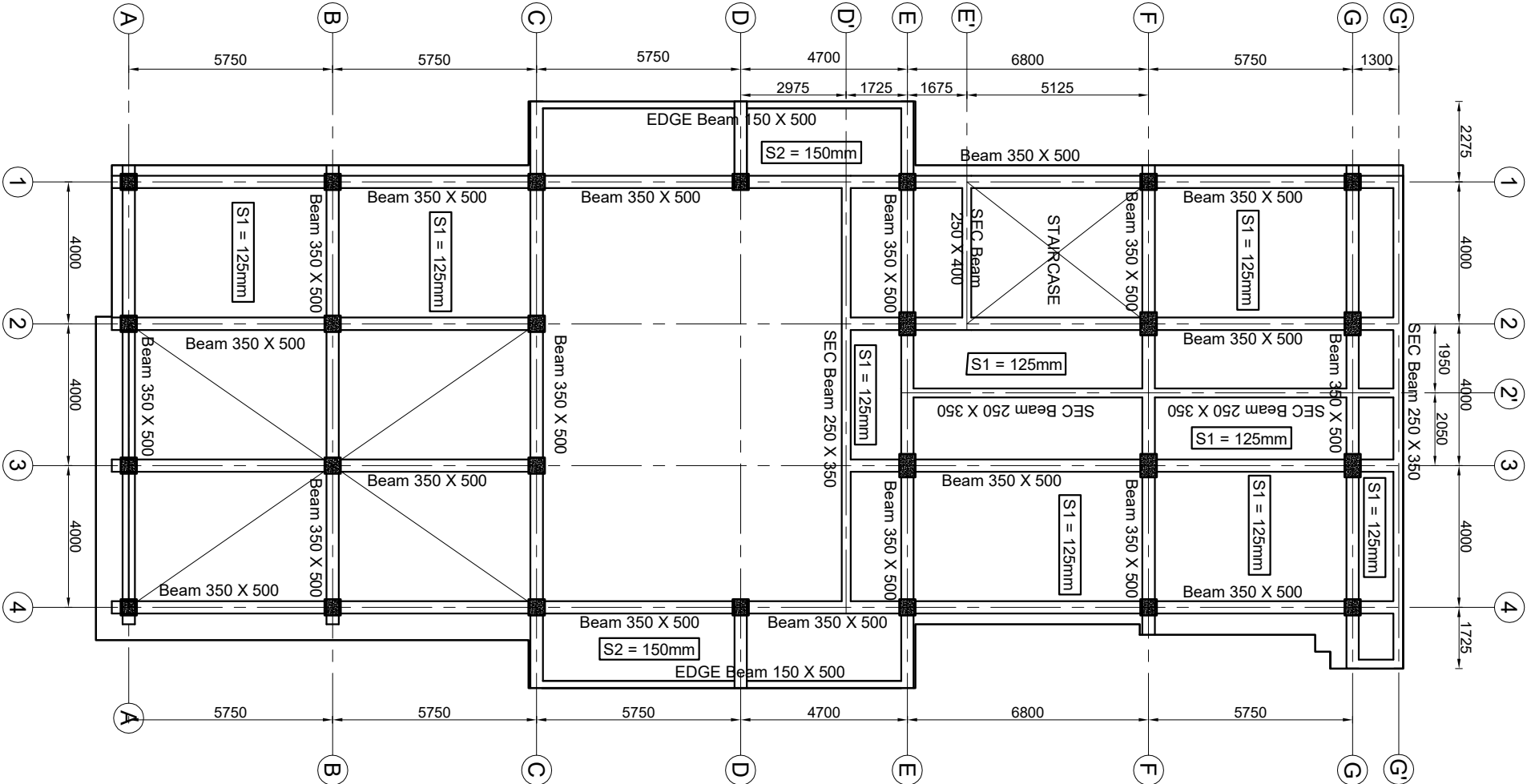
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
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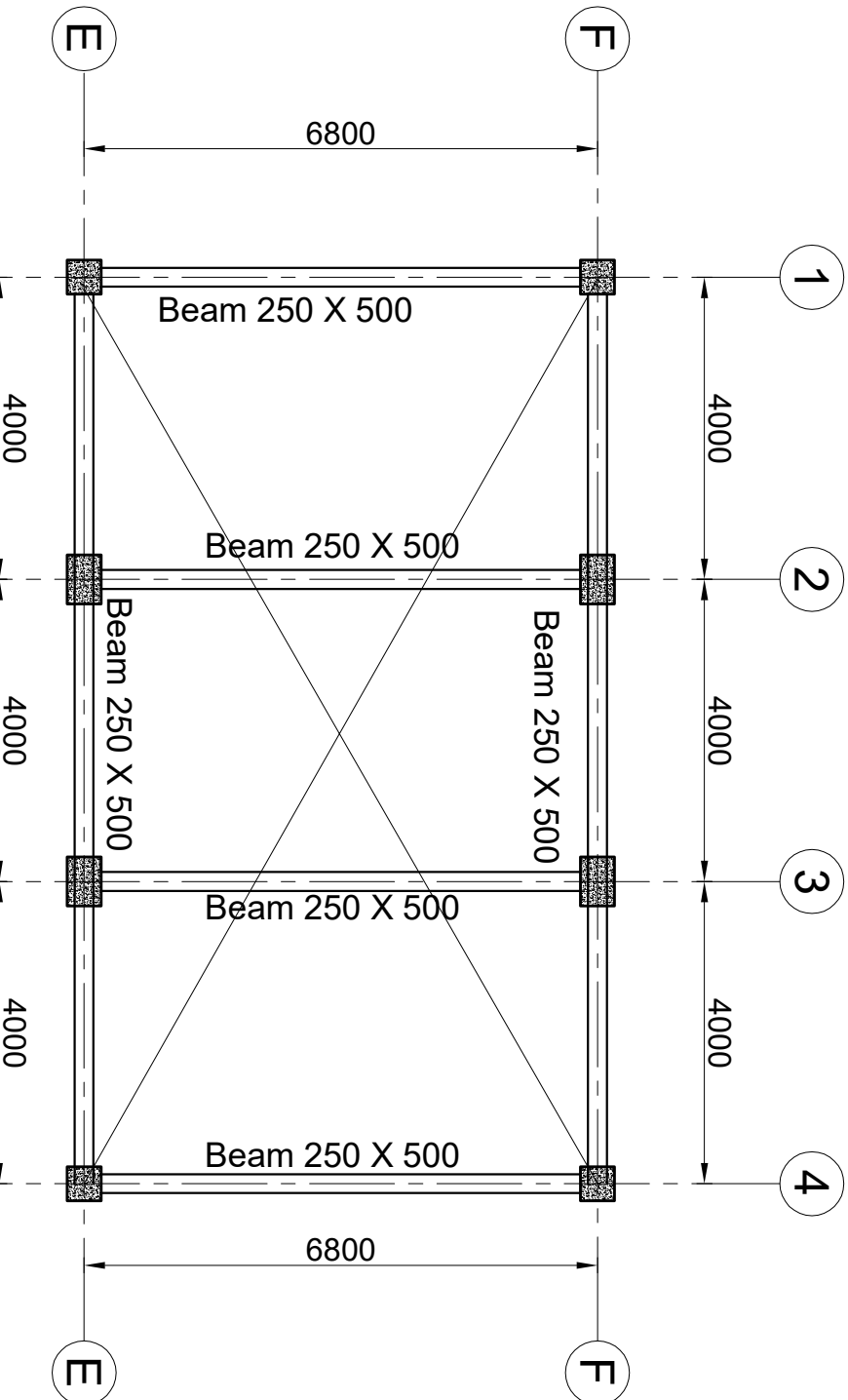
Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

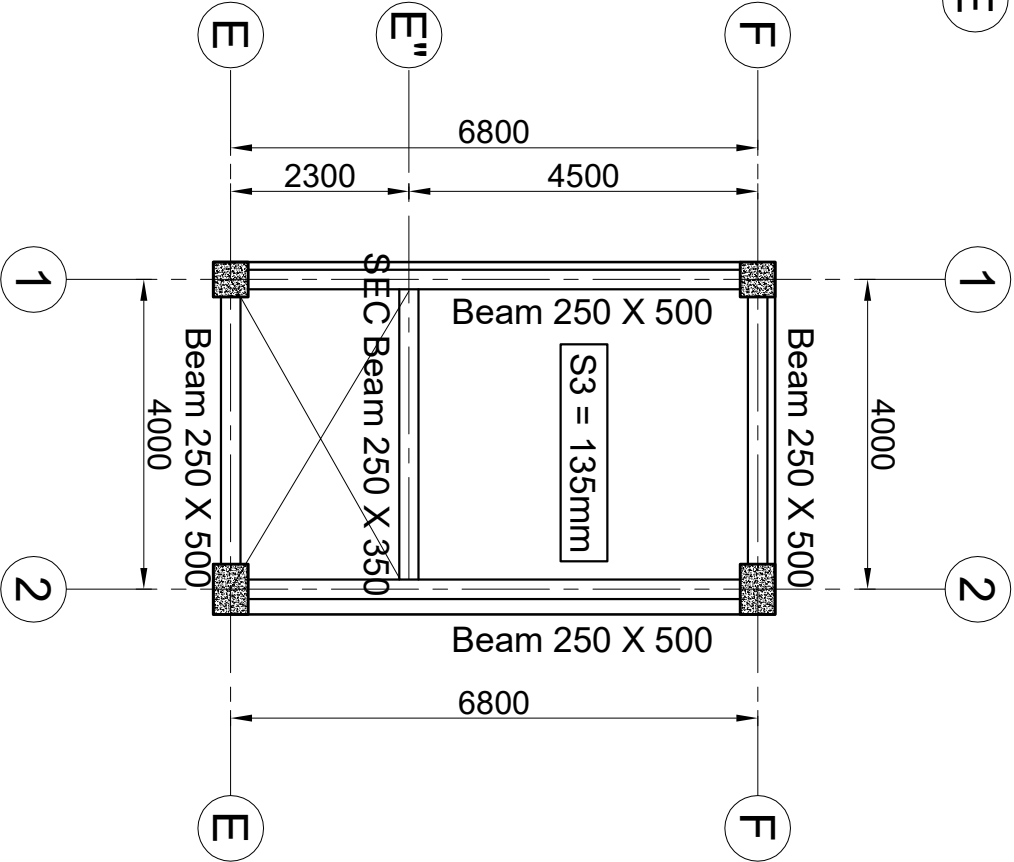
Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250



TOP FLOOR BEAM LAYOUT PLAN
(SCALE 1:100)



WATER TANK PLAN
(SCALE 1:100)

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

First and Second Floor Beam Plan
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT
Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST. 16

CONSULTANT:

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In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu



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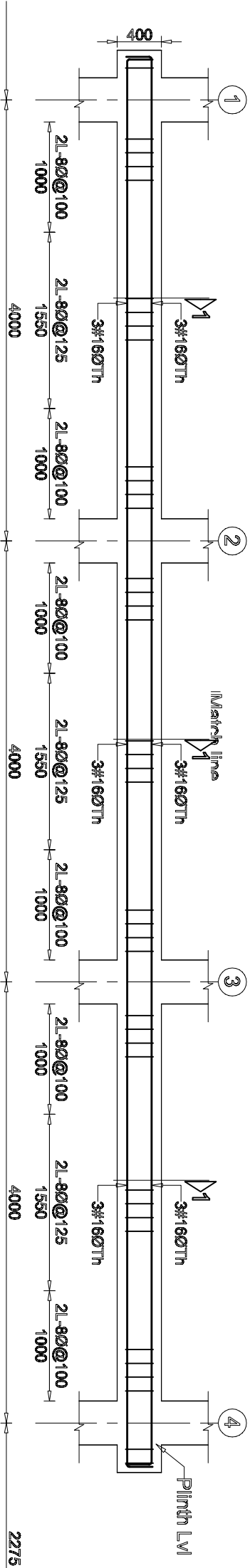
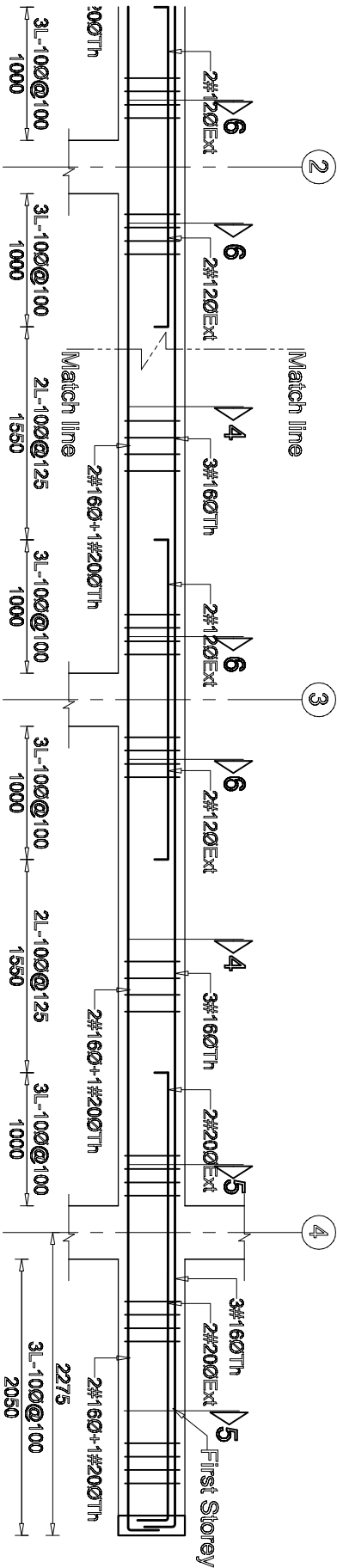
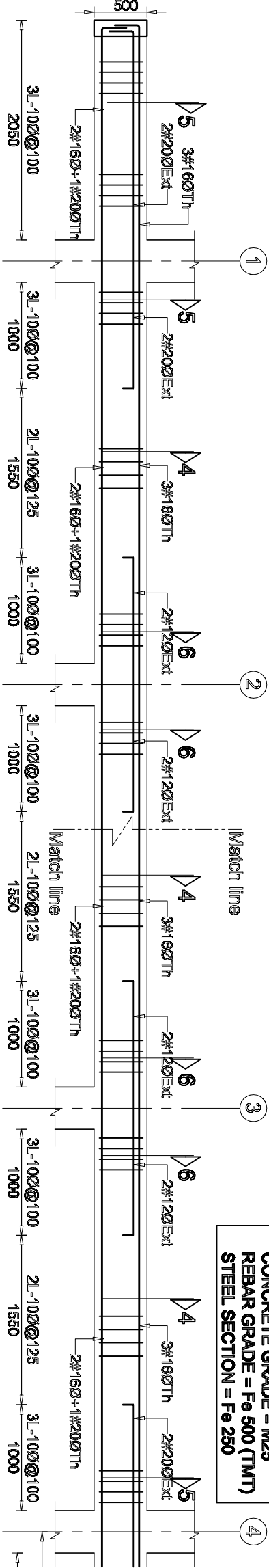
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV

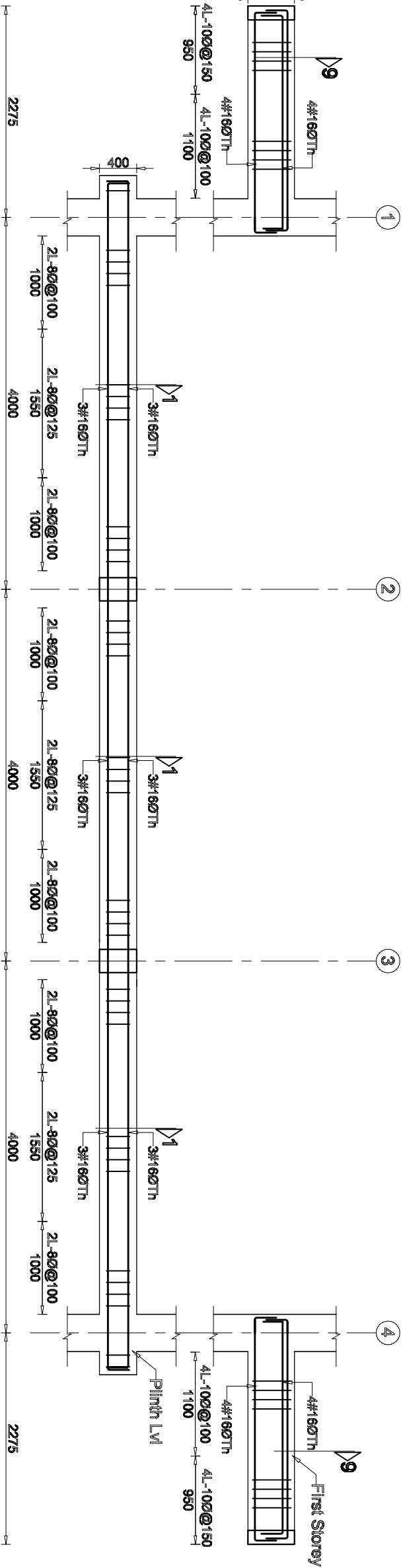


NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250



LONGITUDINAL REINFORCEMENT OF BEAM ALONG GRID C-C
SCALE 1:50



LONGITUDINAL REINFORCEMENT OF BEAM ALONG GRID D-D
SCALE 1:50

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

L-Section Beam Details
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

CLIENT

Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 18

CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERM (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

L-Section Beam Details
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader: Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

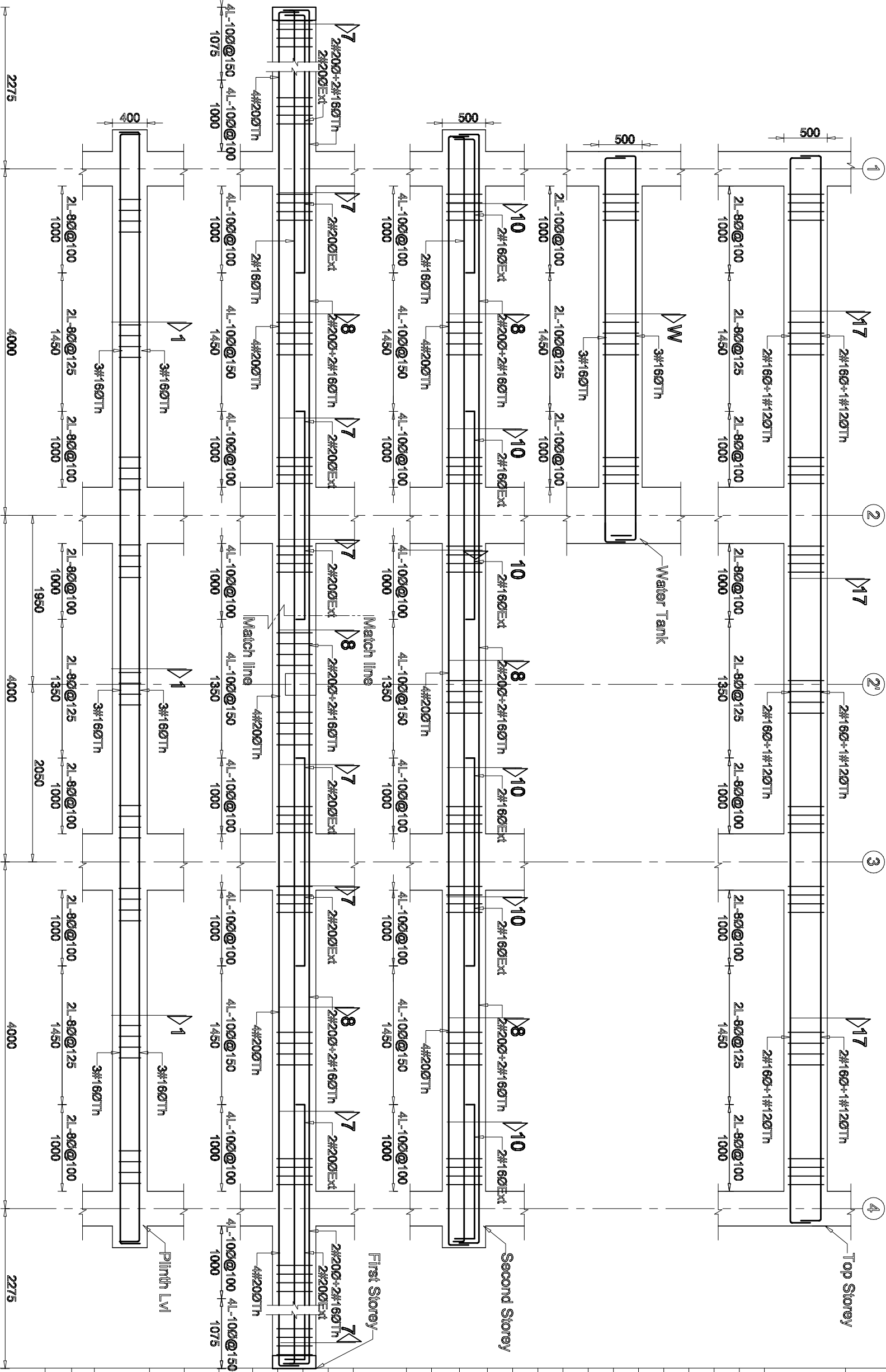
CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERMW (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



LONGITUDINAL REINFORCEMENT OF BEAM ALONG GRID E-E

SCALE 1:50

NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

CLIENT:

Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

[illegible]

SHEET TITLE: L-Section Beam Details

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT	
Team Leader:		Approved By:	
Reviewed By: Er. Ajay Shrestha			
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav			
PAPER SIZE: A3	SCALE: AS SHOWN		
DATE: Feb, 2024	SHEET NO ST-20		

CONSULTANT:
DOHWA Engineering Co. Ltd

In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV





CLIENT:
Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS	
NO	DATE
1	18 th DEC 2024
2	14 th JAN 2026

SHEET TITLE: L-Section and X-Sectional Beam Details
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

SHEET NO ST- 21

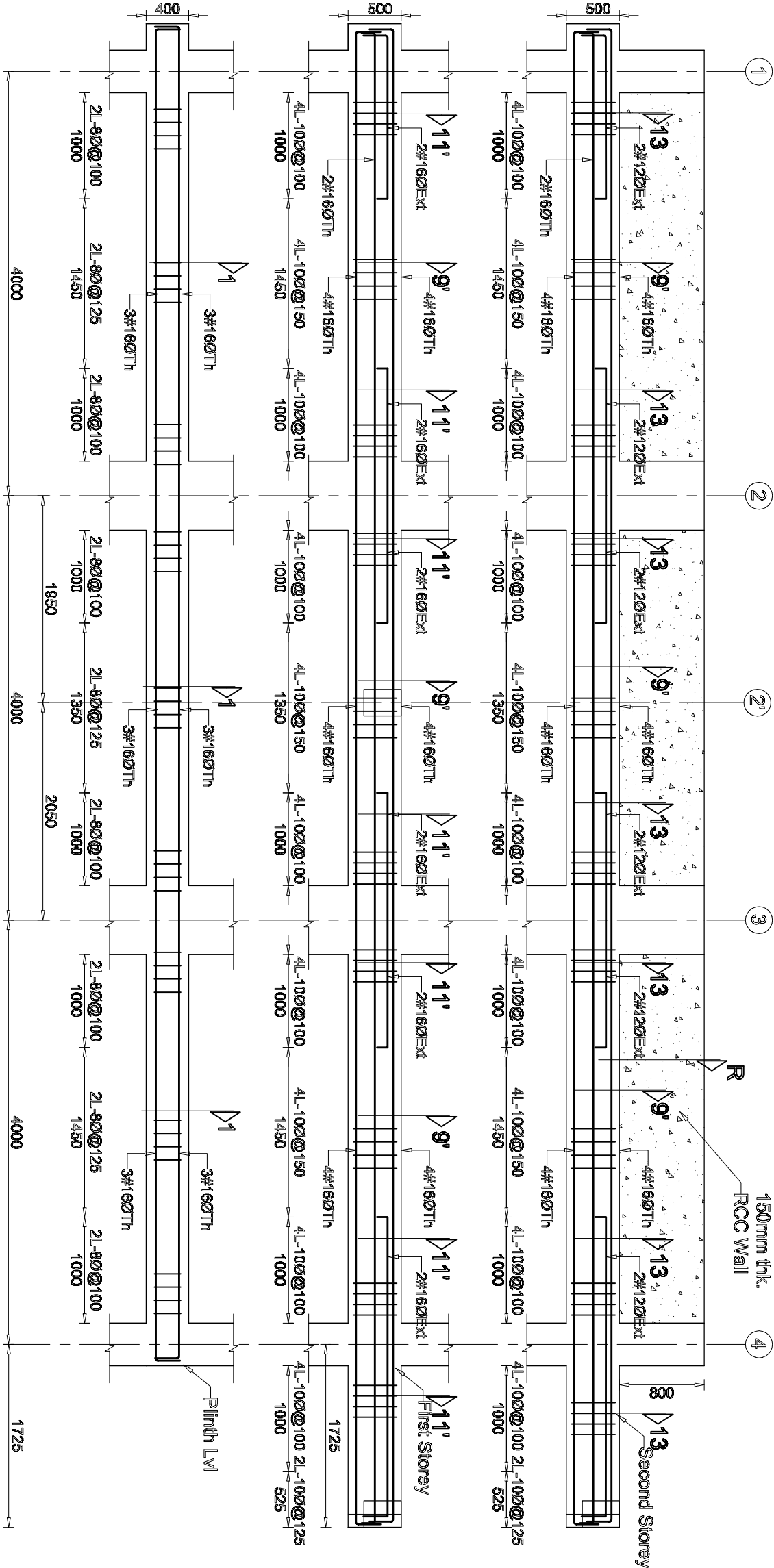
CONSULTANT:
DOHWA Engineering Co. Ltd.
In association with
ERMW (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

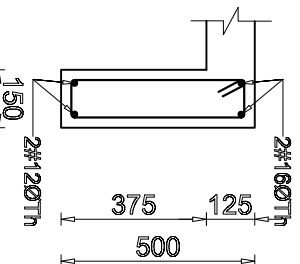
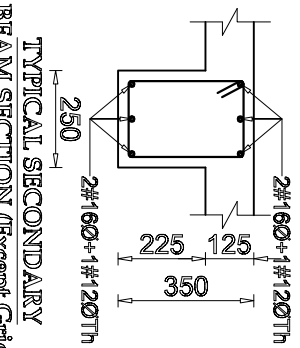
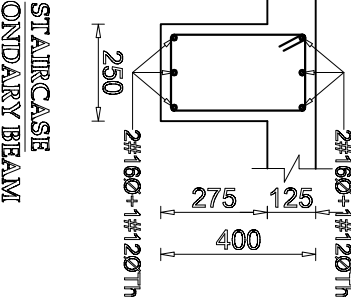
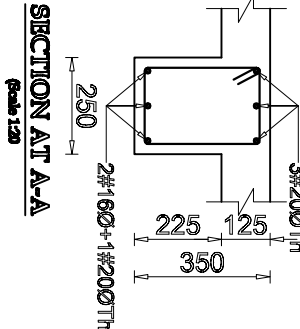
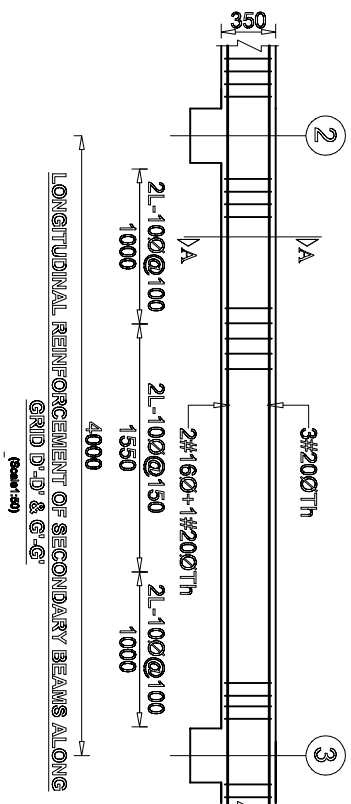
SUPERVISION & DESIGN CONSULTANT (SDC)
Building Design Authority(P) Ltd.- BN- UDAYA JV



NOTE:
CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250



LONGITUDINAL REINFORCEMENT OF BEAM ALONG GRID G-G
SCALE 1:50



NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

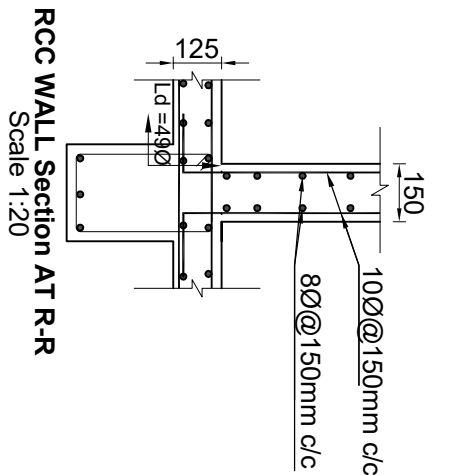
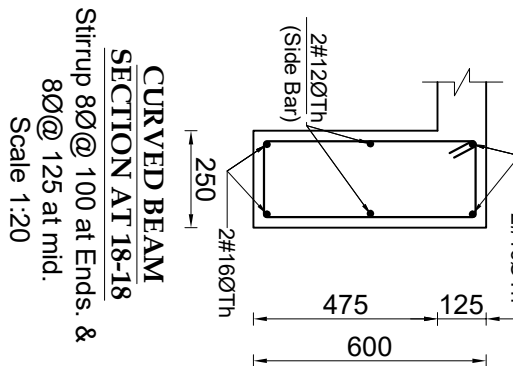
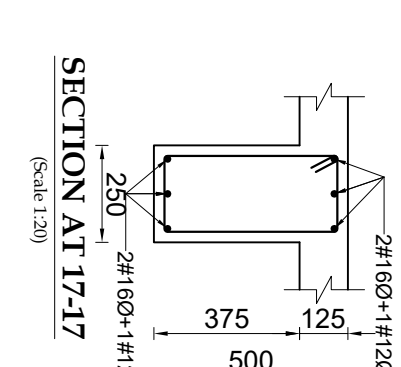
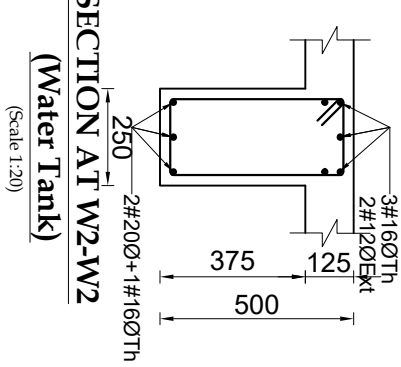
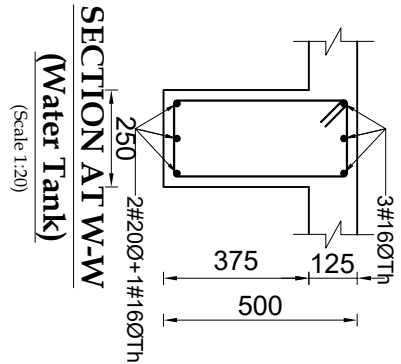
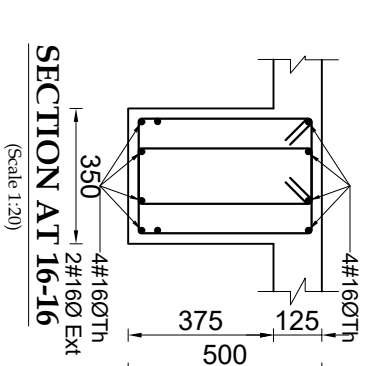
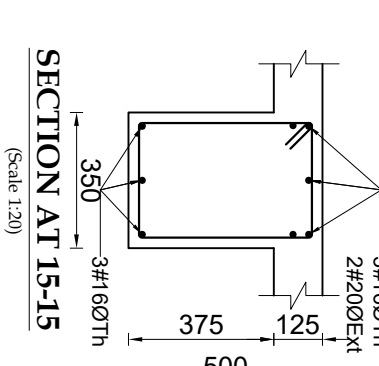
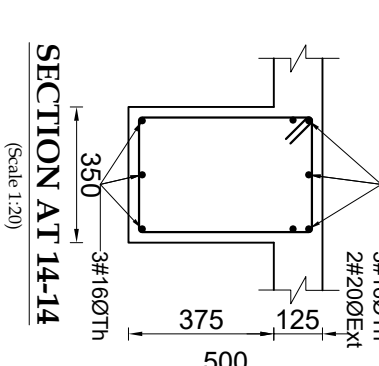
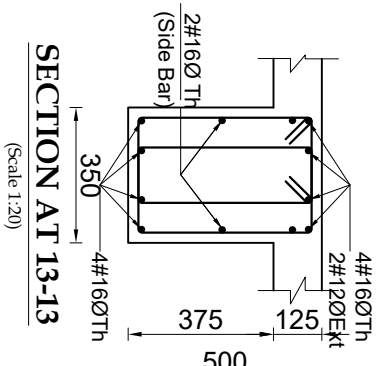
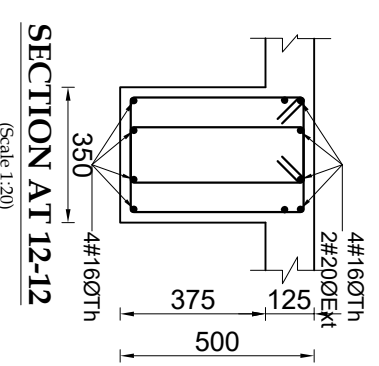
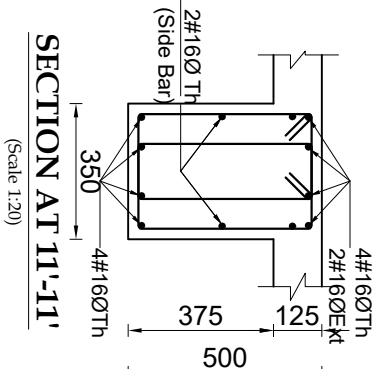
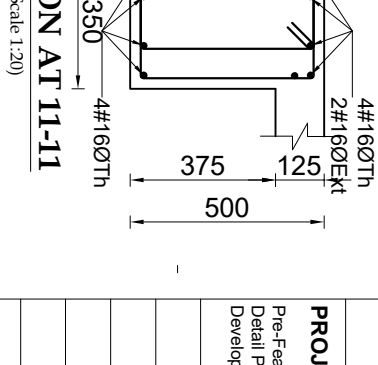
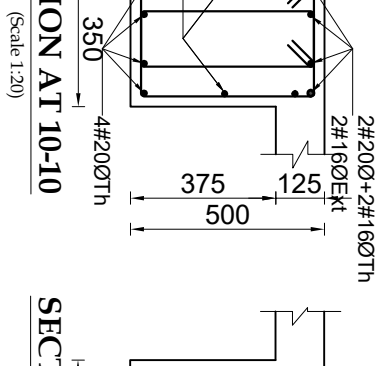
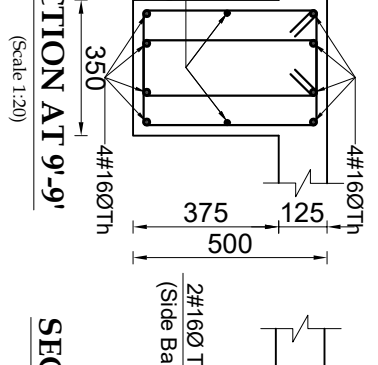
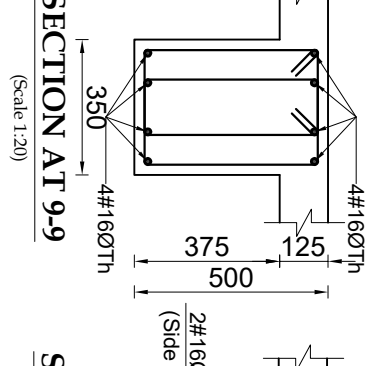
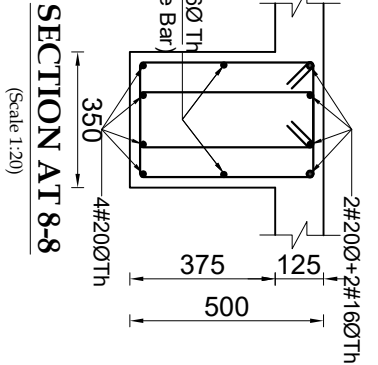
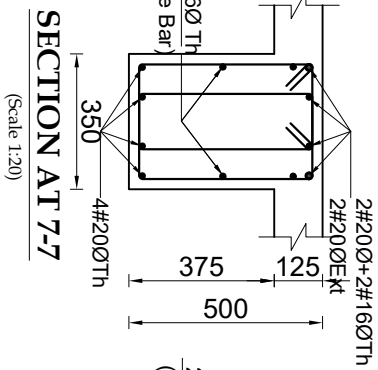
CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project



SHEET TITLE: Beam Sections

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Reviewed By:

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with

ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,

and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

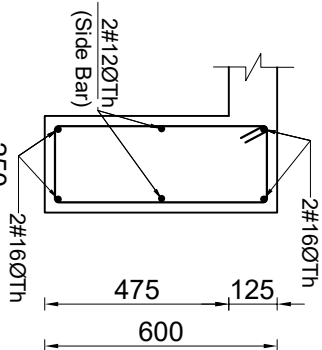
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV

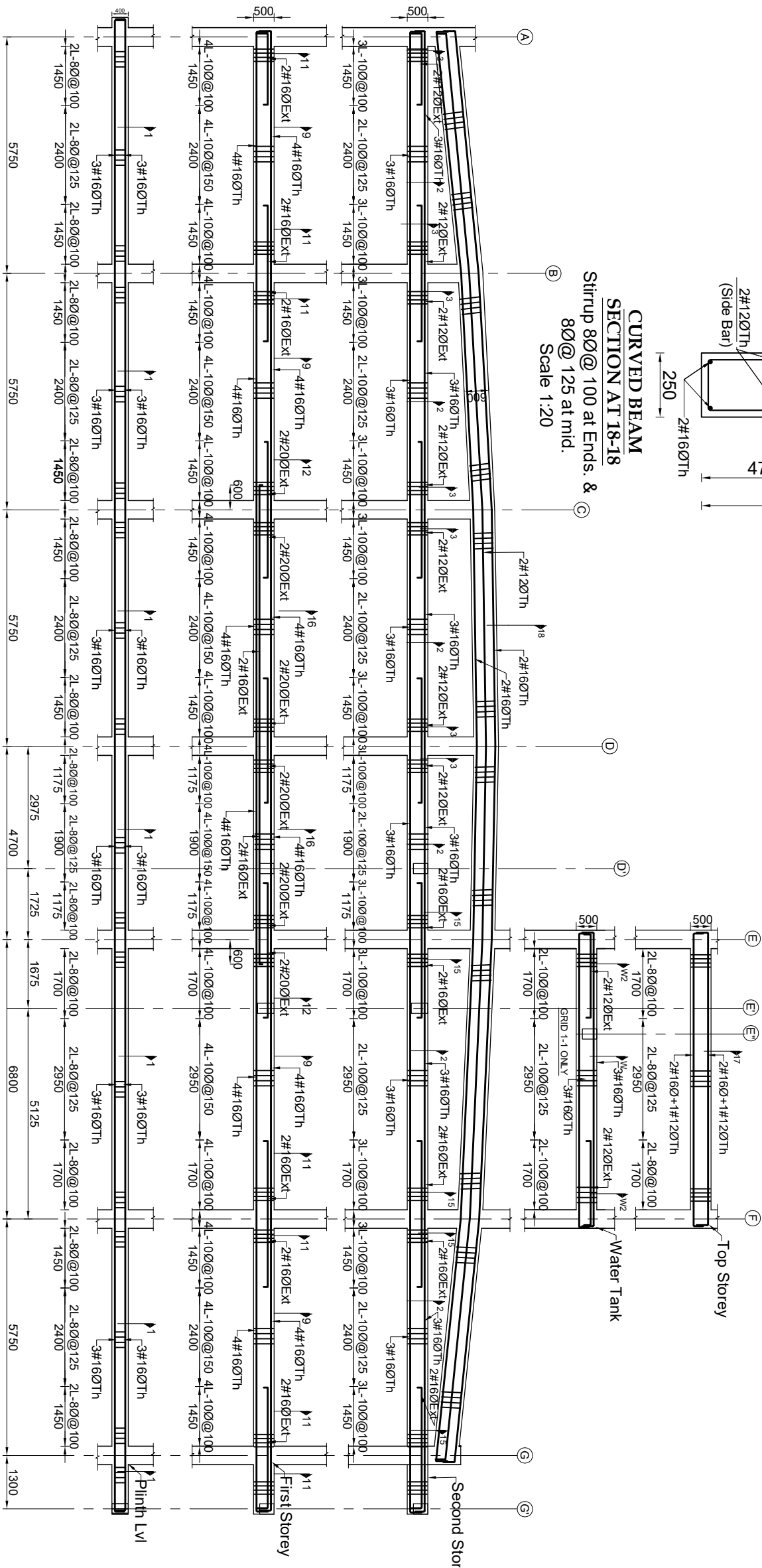


NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

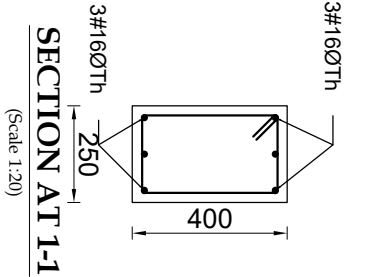


CURVED BEAM
SECTION AT 18-18
Stirrup 8Ø@ 100 at Ends, &
8Ø@ 125 at mid.
Scale 1:20

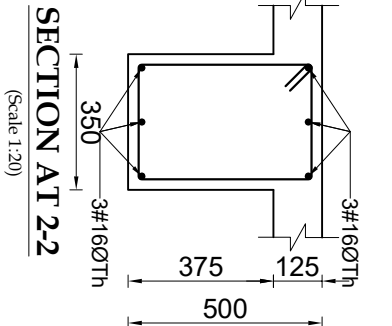


LONGITUDINAL REINFORCEMENT OF BEAM ALONG GRID 1-1 AND 4-4

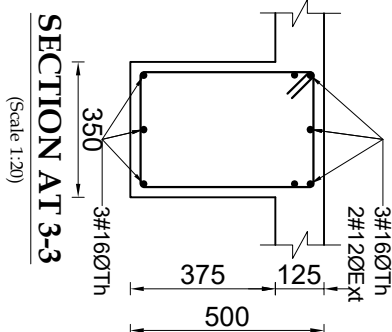
SCALE 1:125



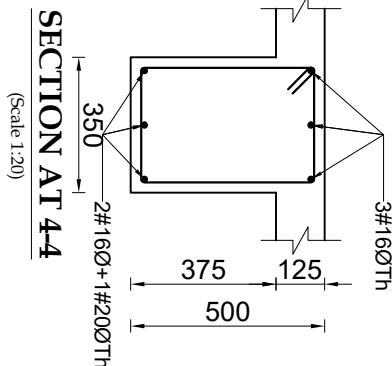
SECTION AT 1-1
(Scale 1:20)



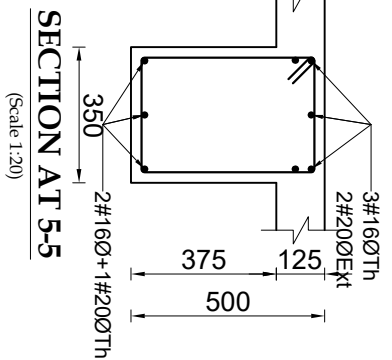
SECTION AT 2-2
(Scale 1:20)



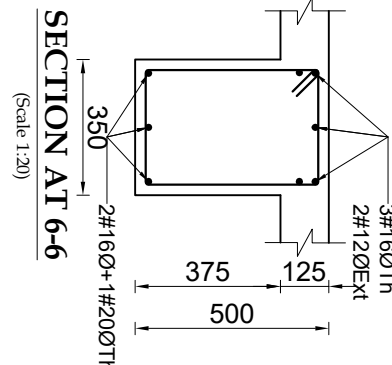
SECTION AT 3-3
(Scale 1:20)



SECTION AT 4-4
(Scale 1:20)



SECTION AT 5-5
(Scale 1:20)



SECTION AT 6-6
(Scale 1:20)

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

L Section and X-sectional Beam Details
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with

ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV





Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

CLIENT:

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

First Floor Slab Reinforcement Plan

SITE INFORMATION:

TERMINAL BUILDING BLOCK

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 26

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with

ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,

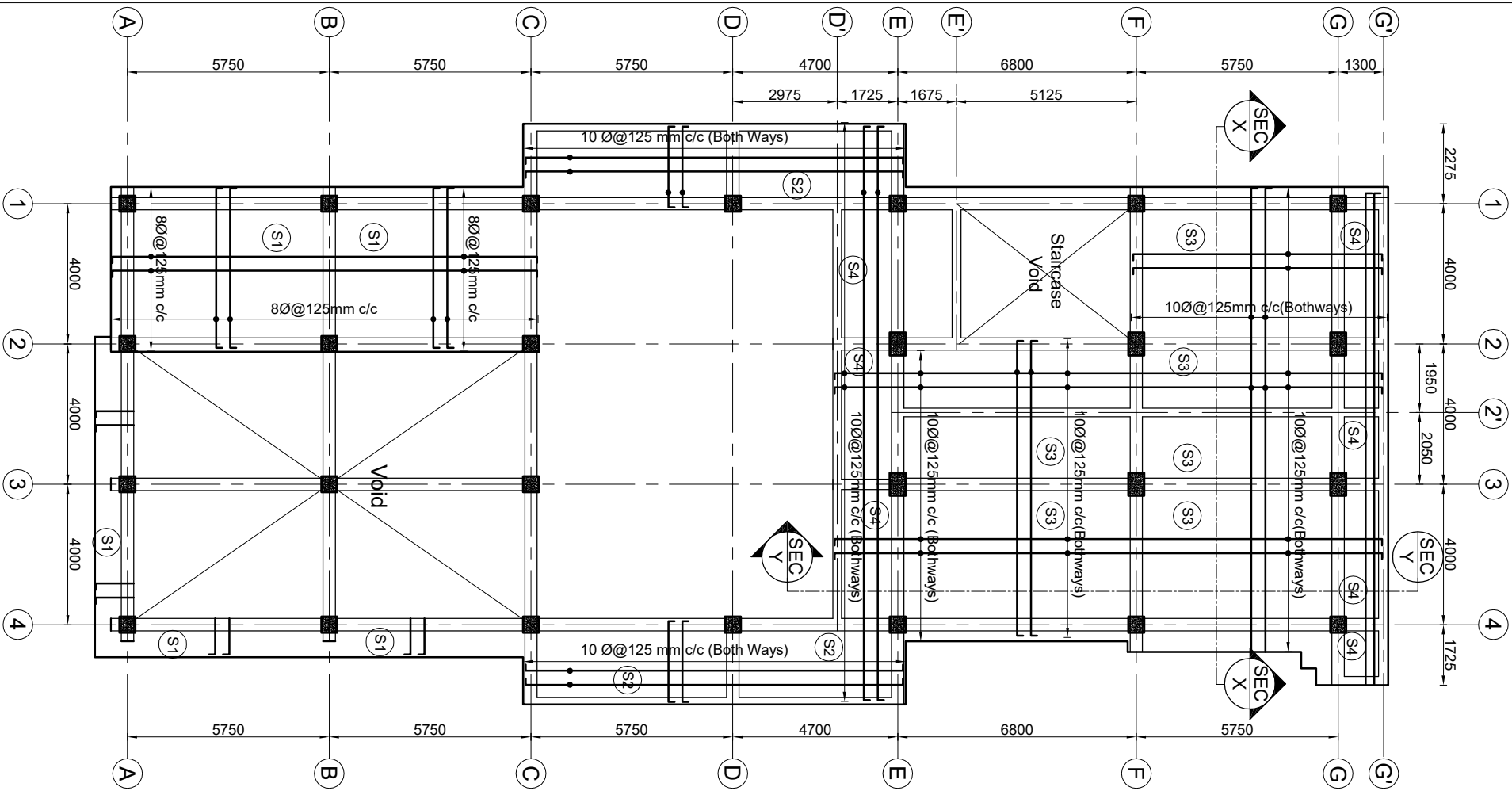
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



NOTE:
CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

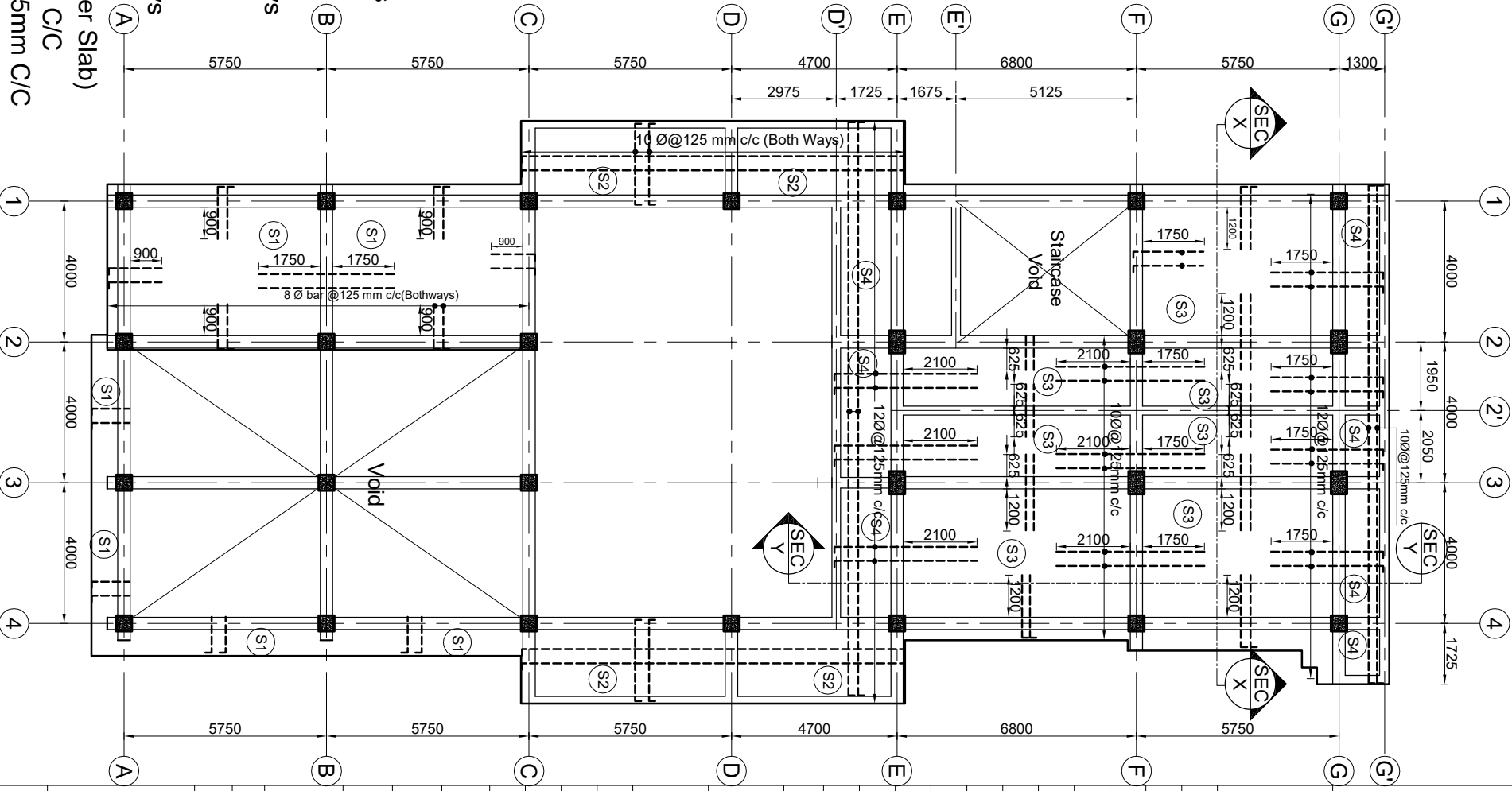
NOTE:

1. SLAB S1=125mm
8Ø@125mm C/C Bothways
(TOP & BOTTOM BARS)
2. SLAB S2=150mm
10Ø@125mm C/C Bothways
(TOP & BOTTOM BARS)
3. SLAB S3=125mm
10Ø@125mm C/C Bothways
(TOP & BOTTOM BARS)
4. SLAB S4=125mm (Cantilever Slab)
TOP BARS =12Ø@125mm C/C
BOTTOM BARS = 10Ø@125mm C/C

BOTTOM REINFORCEMENT PLAN OF FIRST FLOOR SLAB

Distribution Bar = 8Ø@150mm c/c where necessary)

(SCALE 1:175)



TOP REINFORCEMENT PLAN OF FIRST FLOOR SLAB

Distribution Bar = 8Ø@150mm c/c where necessary)

(SCALE 1:175)



CLIENT:
Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Second Floor Slab Reinforcement Plan
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

SCALE: AS SHOWN

SHEET NO ST- 27

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with

ERMIC (P.) Ltd., SILT Consultants (P.) Ltd., and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

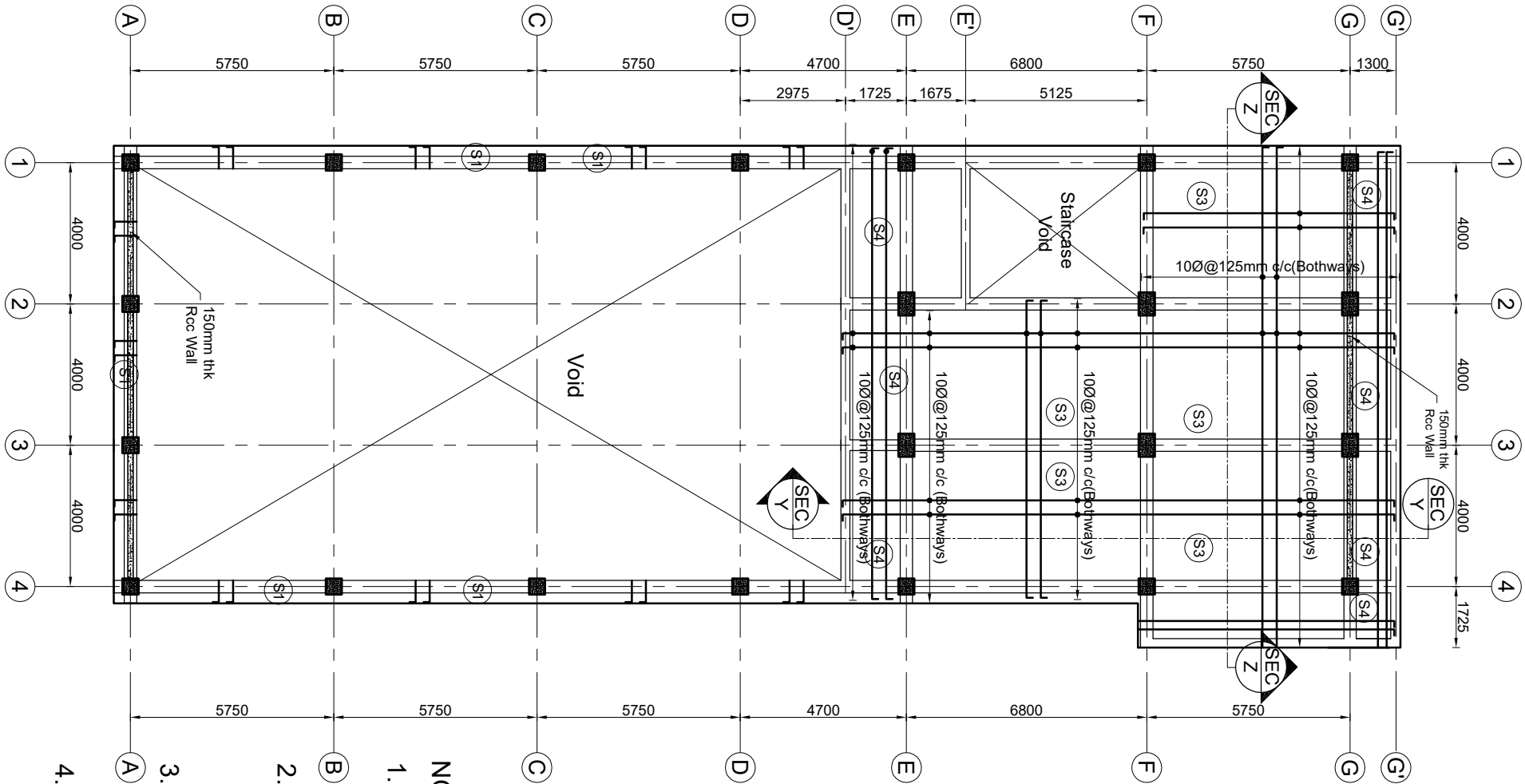
REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



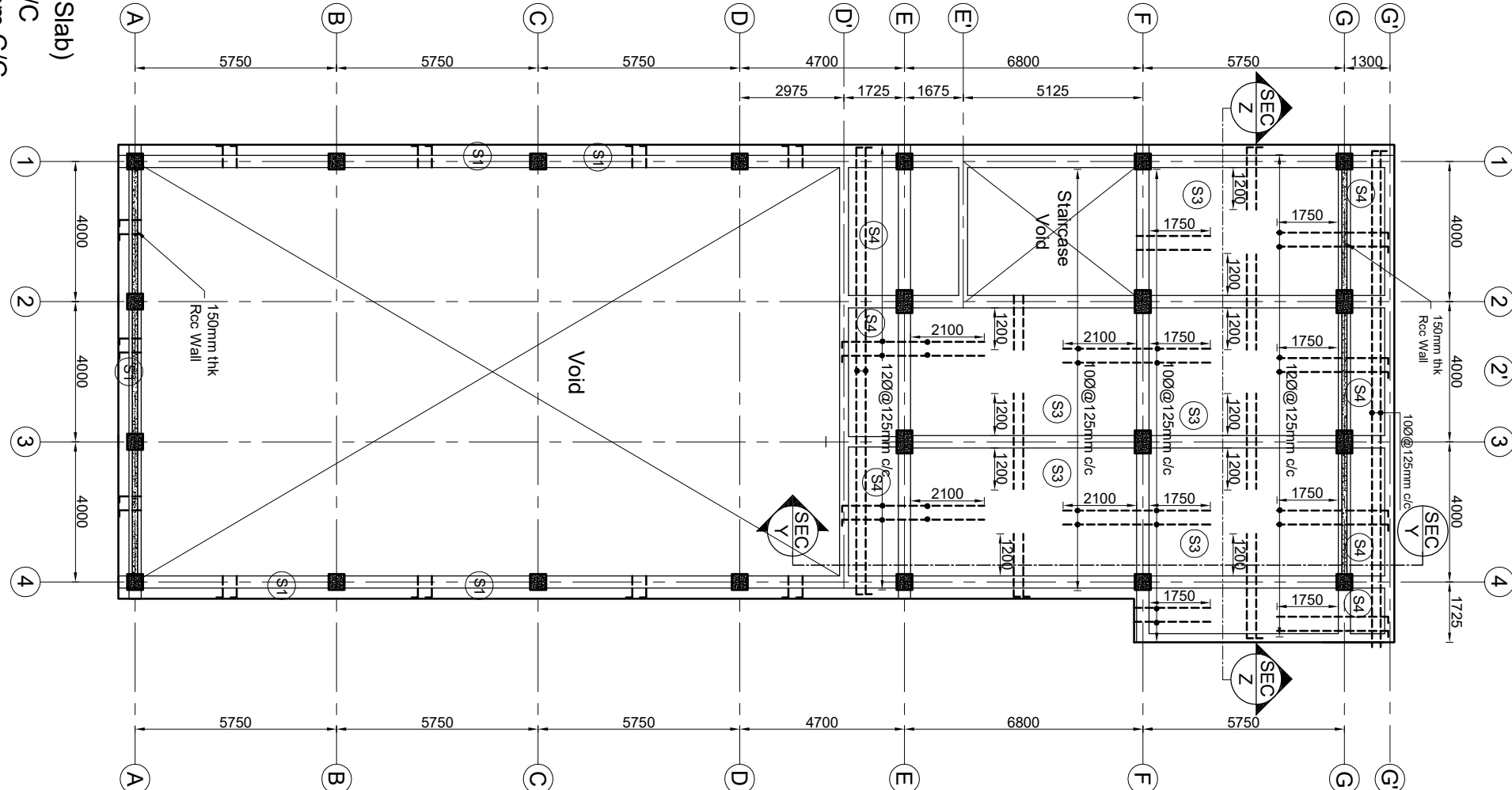
NOTE:
CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250



- NOTE:**
- SLAB S1=125mm
8Ø @125mm C/C Bothways
(TOP & BOTTOM BARS)
 - SLAB S2=150mm
10Ø @125mm C/C Bothways
(TOP & BOTTOM BARS)
 - SLAB S3=125mm
10Ø @125mm C/C Bothways
(TOP & BOTTOM BARS)
 - SLAB S4=125mm (Cantilever Slab)
TOP BARS =12Ø @125mm C/C
BOTTOM BARS = 10Ø@125mm C/C

BOTTOM REINFORCEMENT PLAN OF SECOND FLOOR SLAB

(SCALE 1:175)



TOP REINFORCEMENT PLAN OF SECOND FLOOR SLAB

(SCALE 1:175)

NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Water Tank Slab Reinforcement Plan

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 28

CONSULTANT:

DOHWA Engineering Co. Ltd.



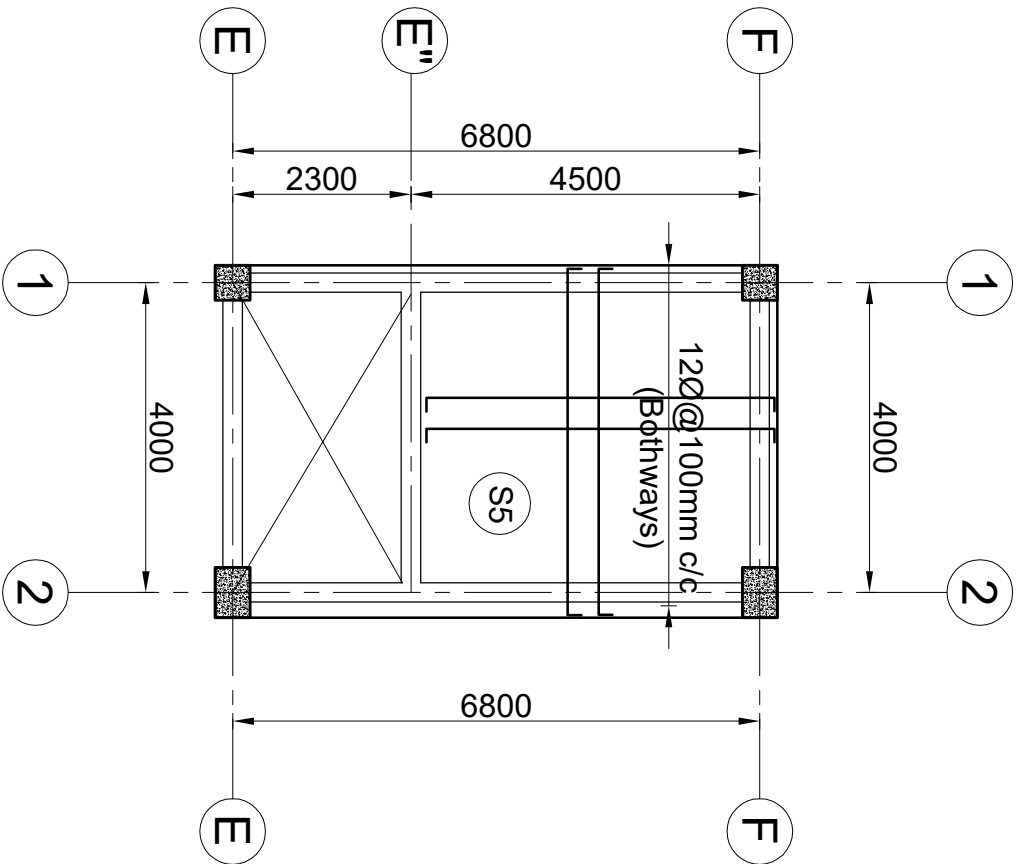
In association with
ERMC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV

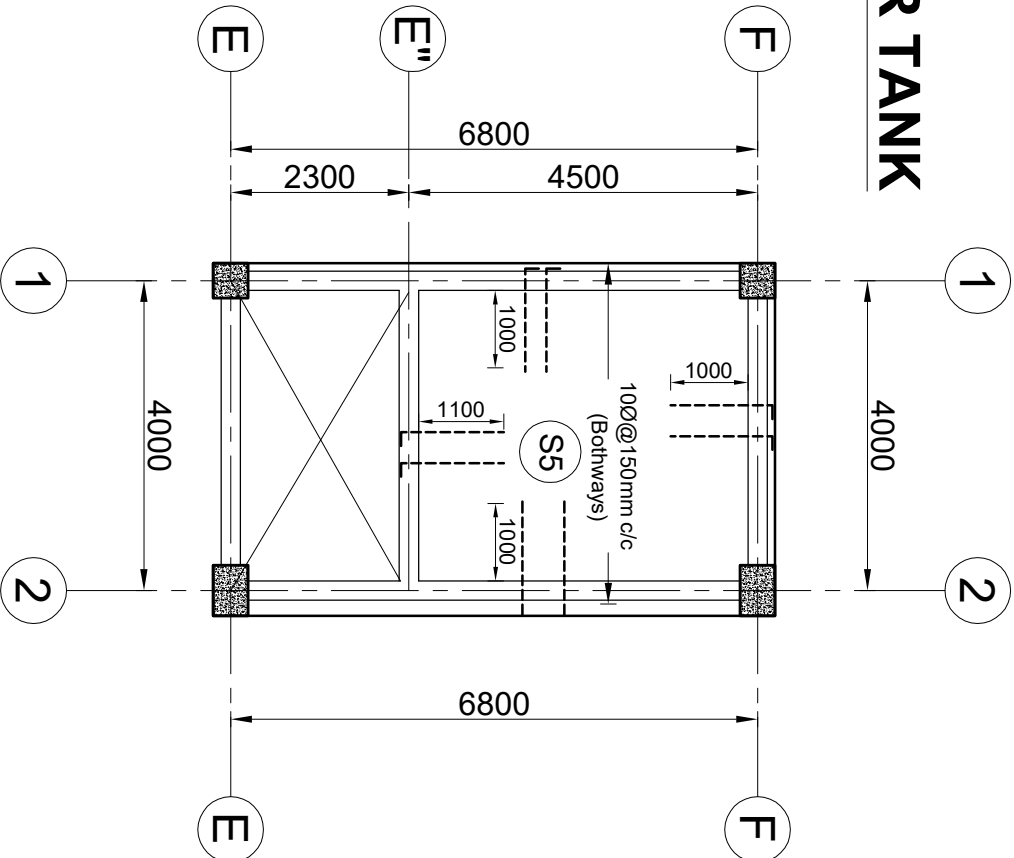


BOTTOM REINFORCEMENT PLAN OF WATER TANK

(SCALE 1:100)

NOTE:

- SLAB S5=135mm
TOP BARS =10Ø @150mm C/C
BOTTOM BARS = 12Ø@100mm C/C
BOTHWAYS



TOP REINFORCEMENT PLAN OF WATER TANK

(SCALE 1:100)

CLIENT:



Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS	
NO	REVISION
1	18 th DEC 2024
2	14 th JAN 2026

SHEET TITLE: Slab Section

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT
Team Leader:		Approved By:
Reviewed By: Er. Ajay Shrestha		
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav		

PAPER SIZE: A3	SCALE: AS SHOWN
DATE: Feb. 2024	SHEET NO ST- 29

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with

ERMIC (P.) Ltd., SILT Consultants (P.) Ltd., and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu



REVIEWED BY:

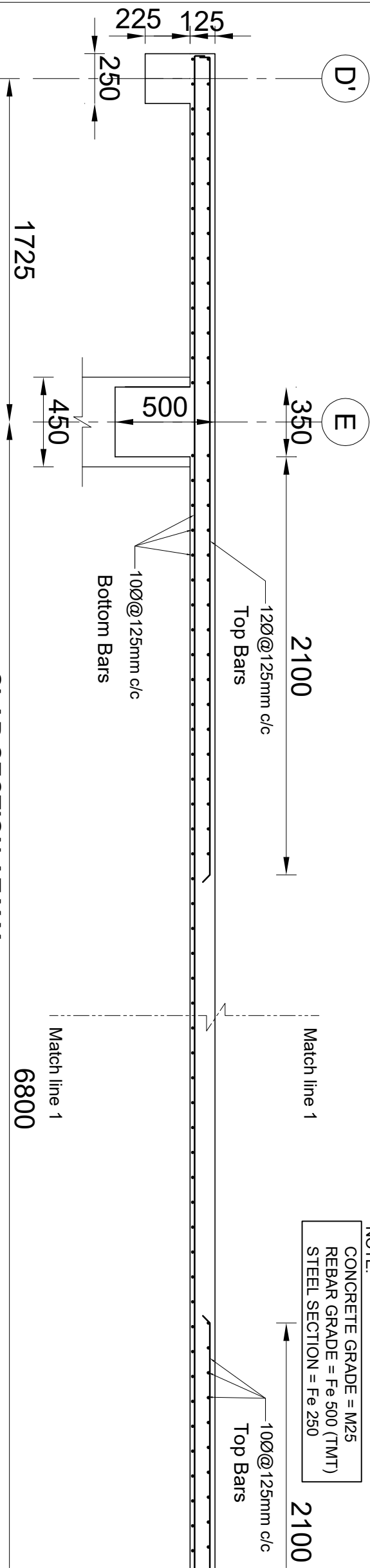
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



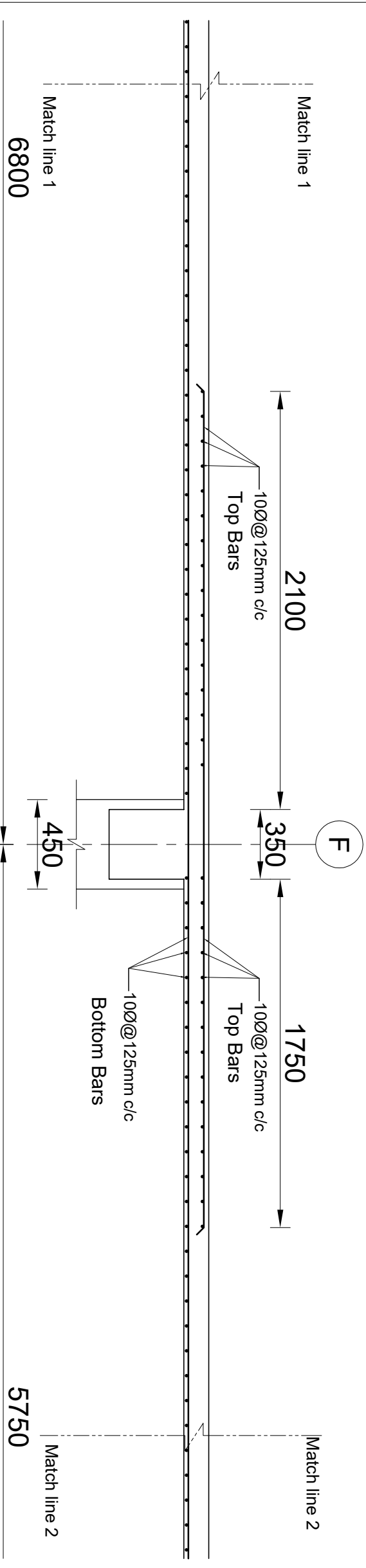
NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250



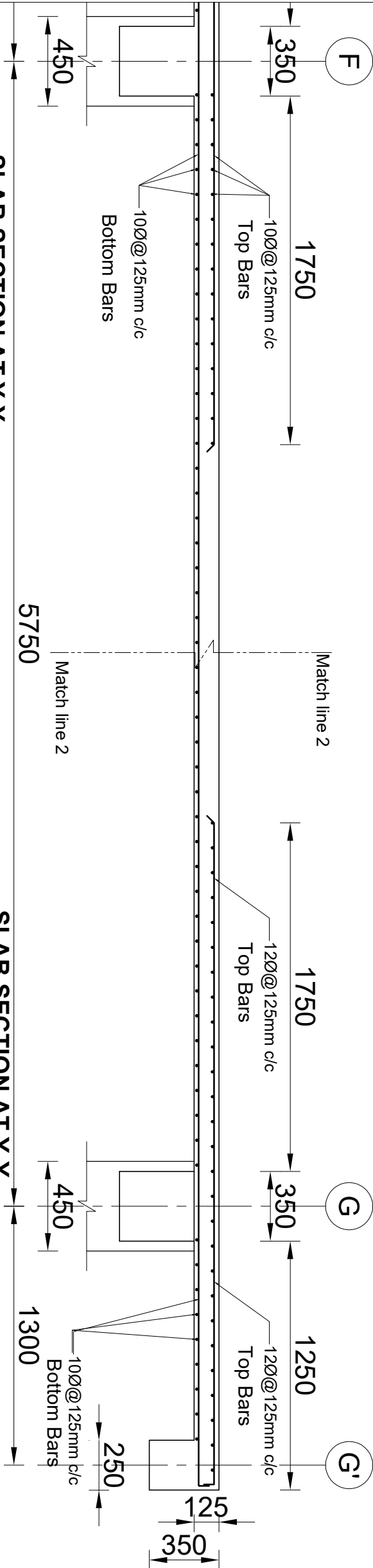
SLAB SECTION AT Y-Y

(SCALE 1:25)



SLAB SECTION AT Y-Y

(SCALE 1:25)



SLAB SECTION AT Y-Y

(SCALE 1:25)

CLIENT:



Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Slab Section

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb, 2024

SHEET NO ST- 31

CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERM (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

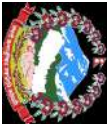
Building Design Authority(P) Ltd.- BN- UDAYA JV



NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE: Staircase Plan

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with

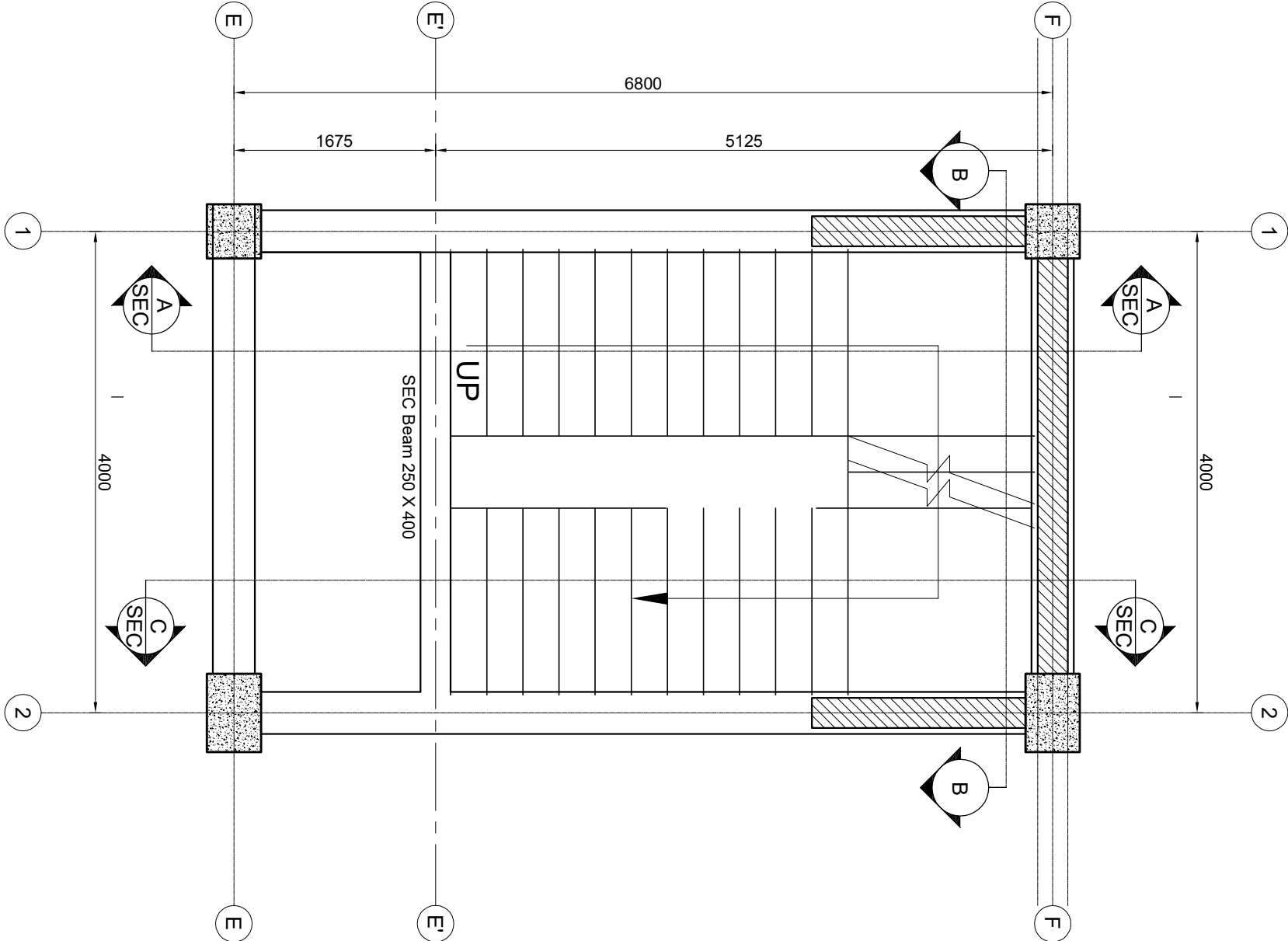
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

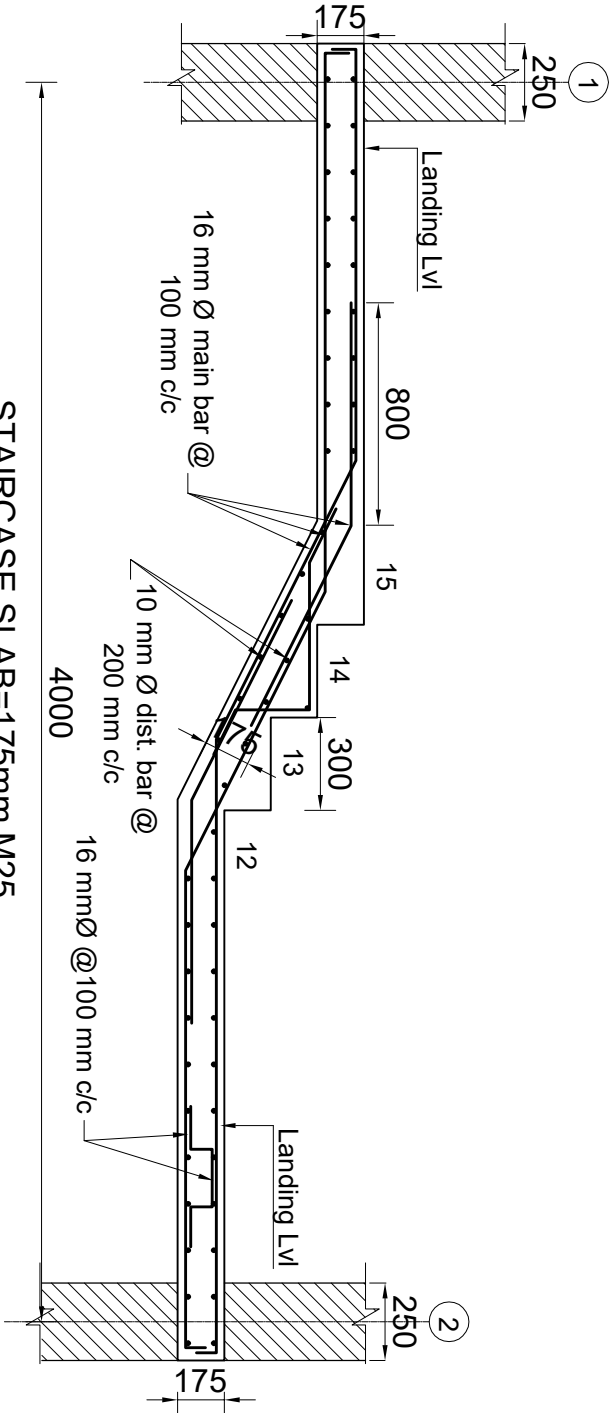
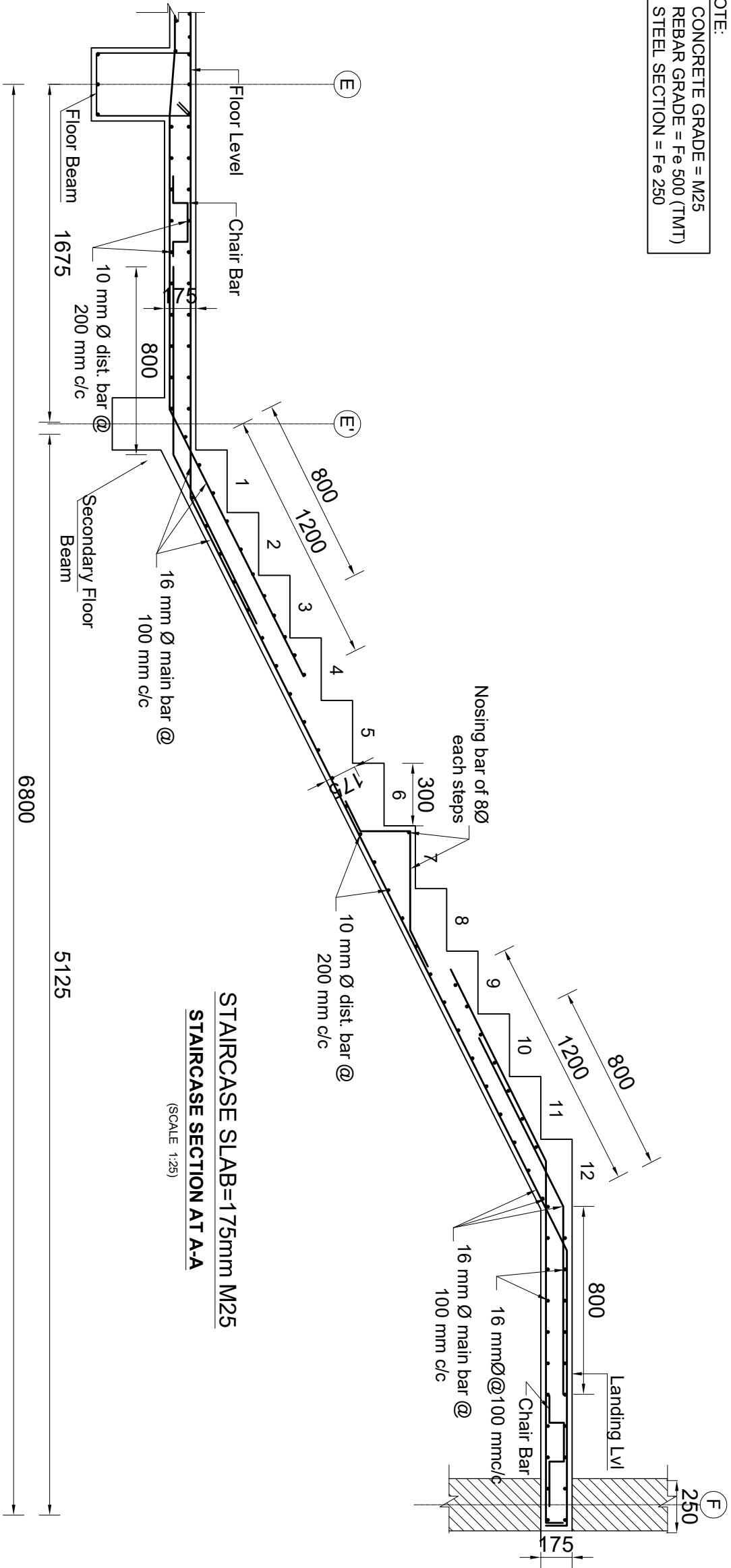
Building Design Authority(P) Ltd.- BN- UDAYA JV



STAIRCASE PLAN

(SCALE 1:50)

NOTE:
CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250



CLIENT:
Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE: Staircase Section

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader: Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

SCALE: AS SHOWN

SHEET NO

ST- 33

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with
ERMC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



NOTE:

CONCRETE GRADE = M25
REBAR GRADE = Fe 500 (TMT)
STEEL SECTION = Fe 250

CLIENT:

Department of Urban Development & Building Construction (DUBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

[illegible]

SHEET TITLE: Staircase Section

TERMINAL BUILDING BLOCK

SITE INFORMATION

NAME: Bus Termina

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Approved By:	
--------------	--

Reviewed By:
Er. Ajay Shrestha

Designed By:

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

SHEET NO ST-3

DATE: Feb, 2024

CONSULTANT

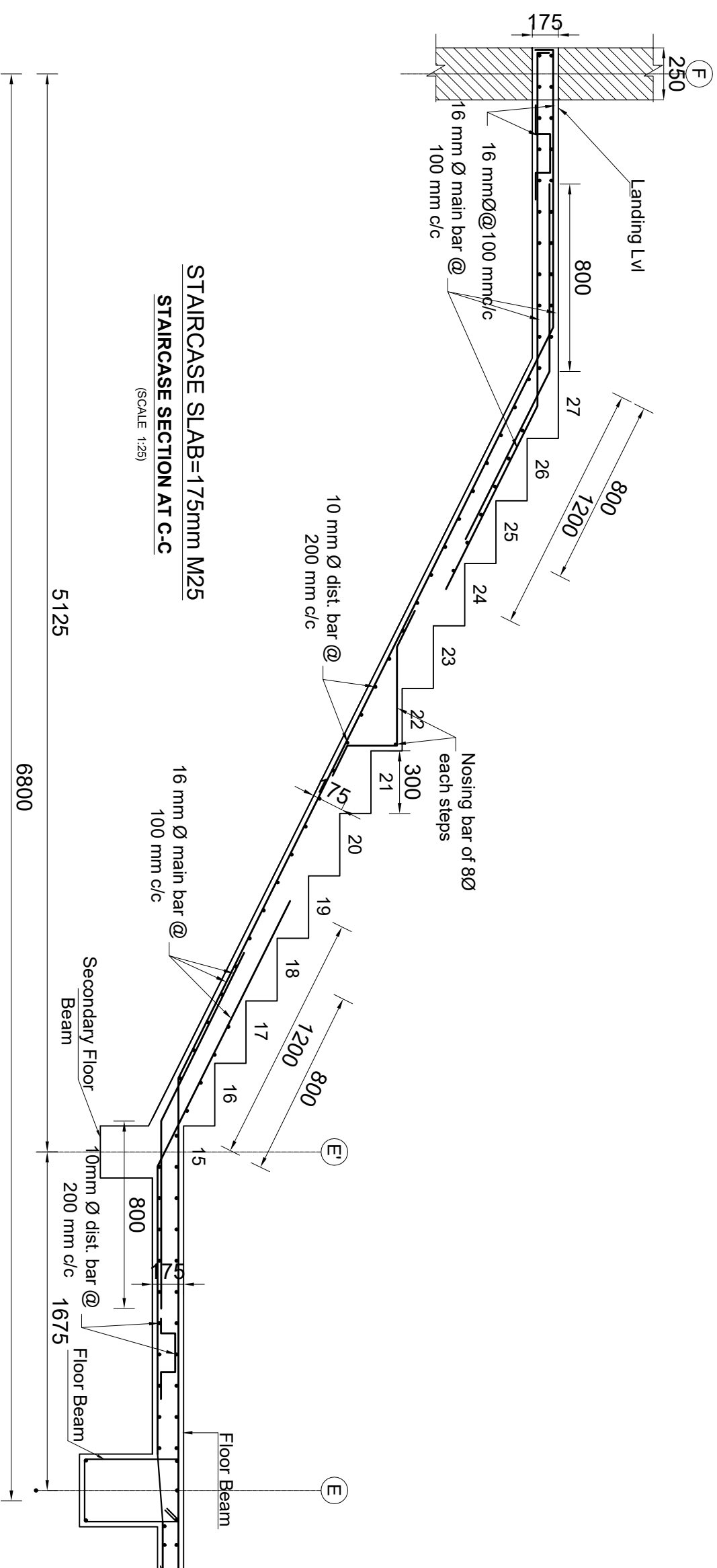
DOHWA
ENGINEERING

DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

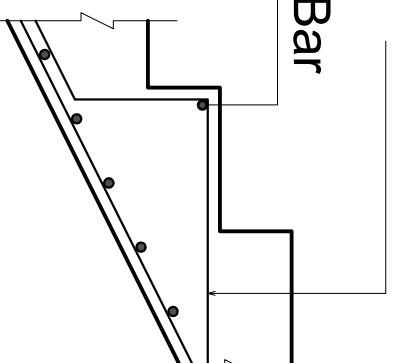
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN-UDAYA JV



8mmØ Nosing tie bar @ 150mm c/c

8mmØ Nosing Bar



NOSING BAR DETAILS



CLIENT: Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Truss Layout Plan
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

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DATE: Feb. 2024

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CONSULTANT:

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Building Design Authority(P) Ltd.- BN- UDAYA JV



CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

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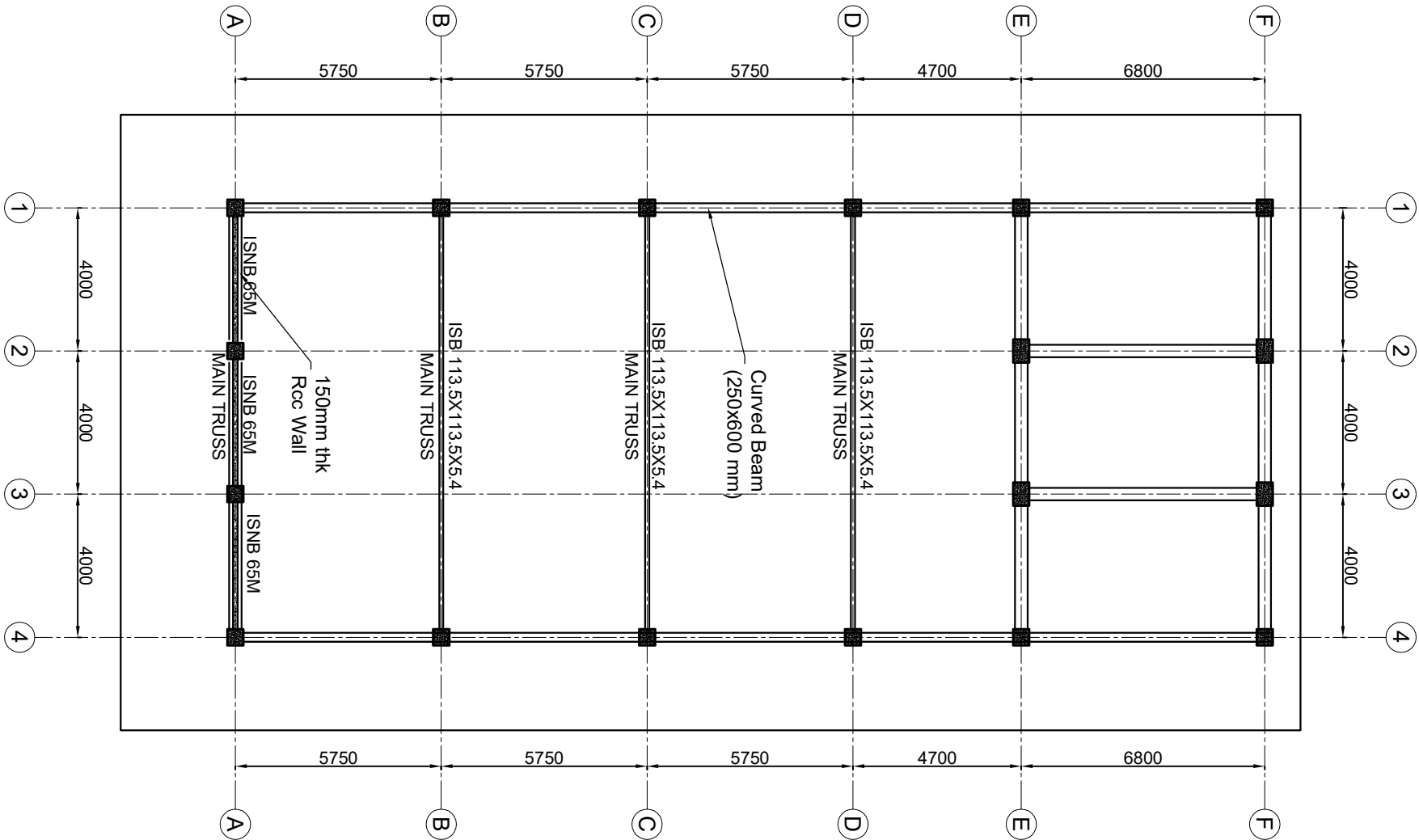
CONSULTANT:

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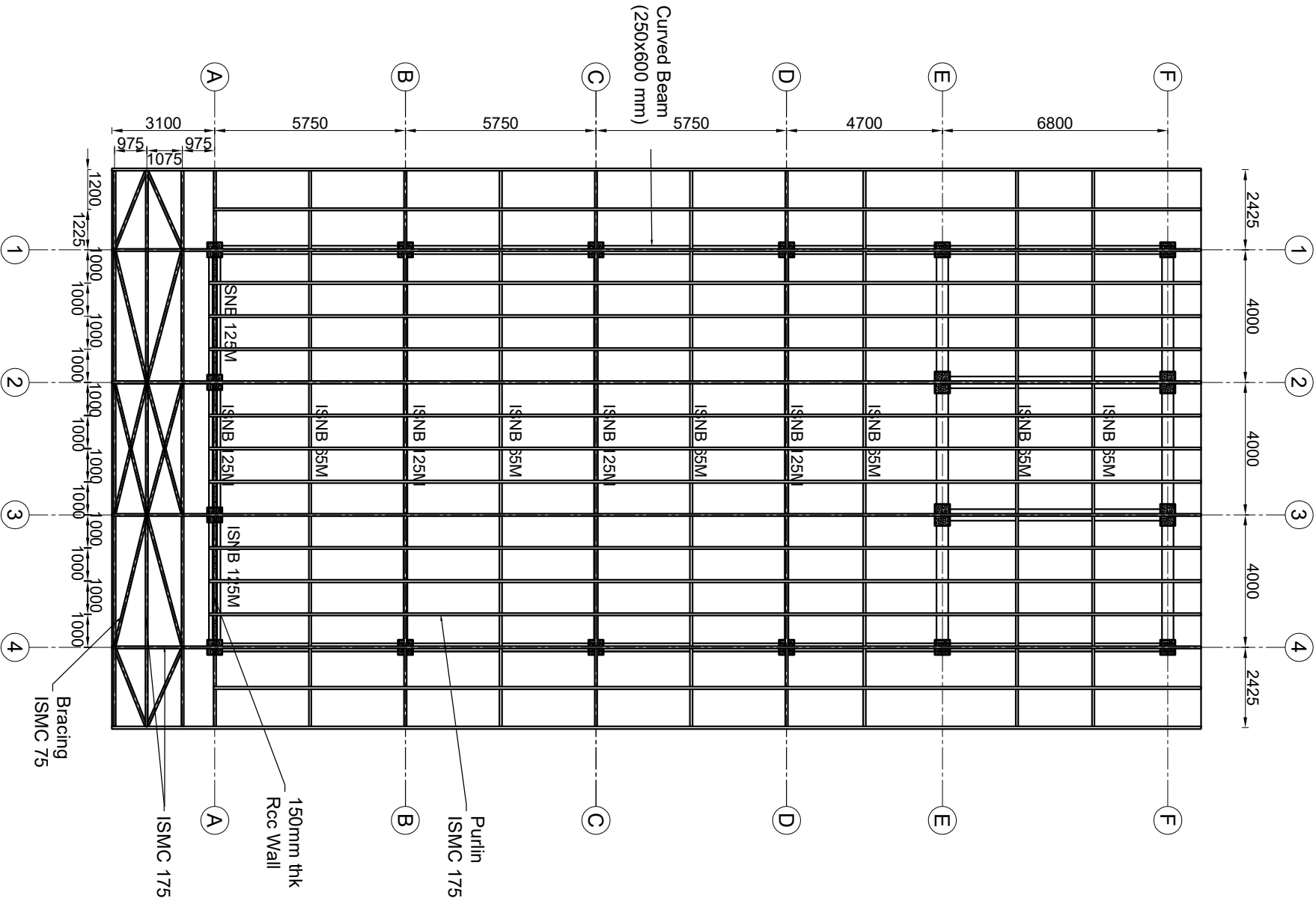
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MAIN TRUSS LOWER
LAYOUT PLAN

(SCALE 1:175)



MAIN TRUSS TOP
LAYOUT PLAN

(SCALE 1:175)

CLIENT:



PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

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SHEET TITLE

TERMINAL BUILDING BLOCK

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Team Leader:	Approved By:		
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Department of Urban Development &
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Pedestal and Steel Column Plan
TERMINAL BUILDING BLOCK

SITE INFORMATION:

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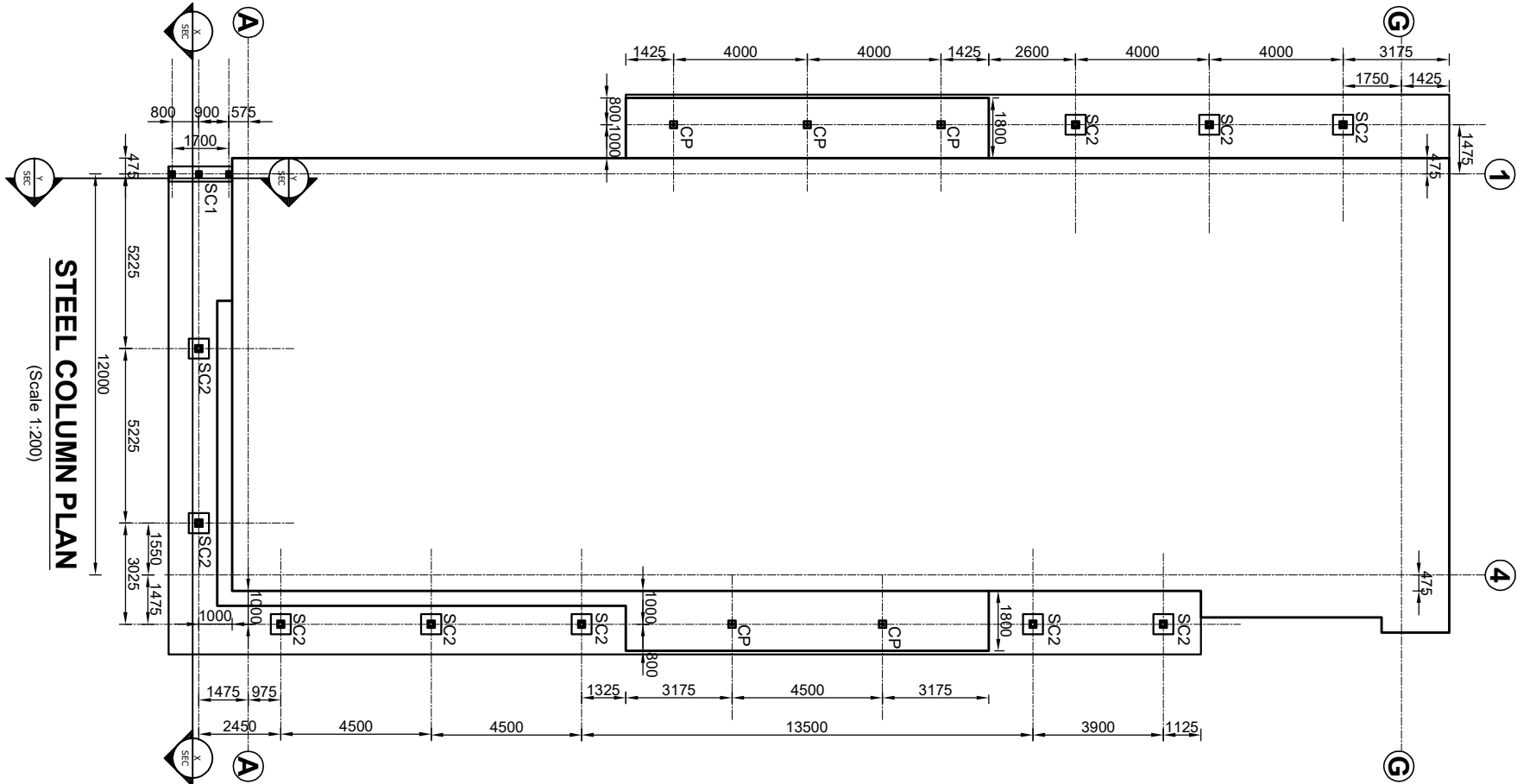
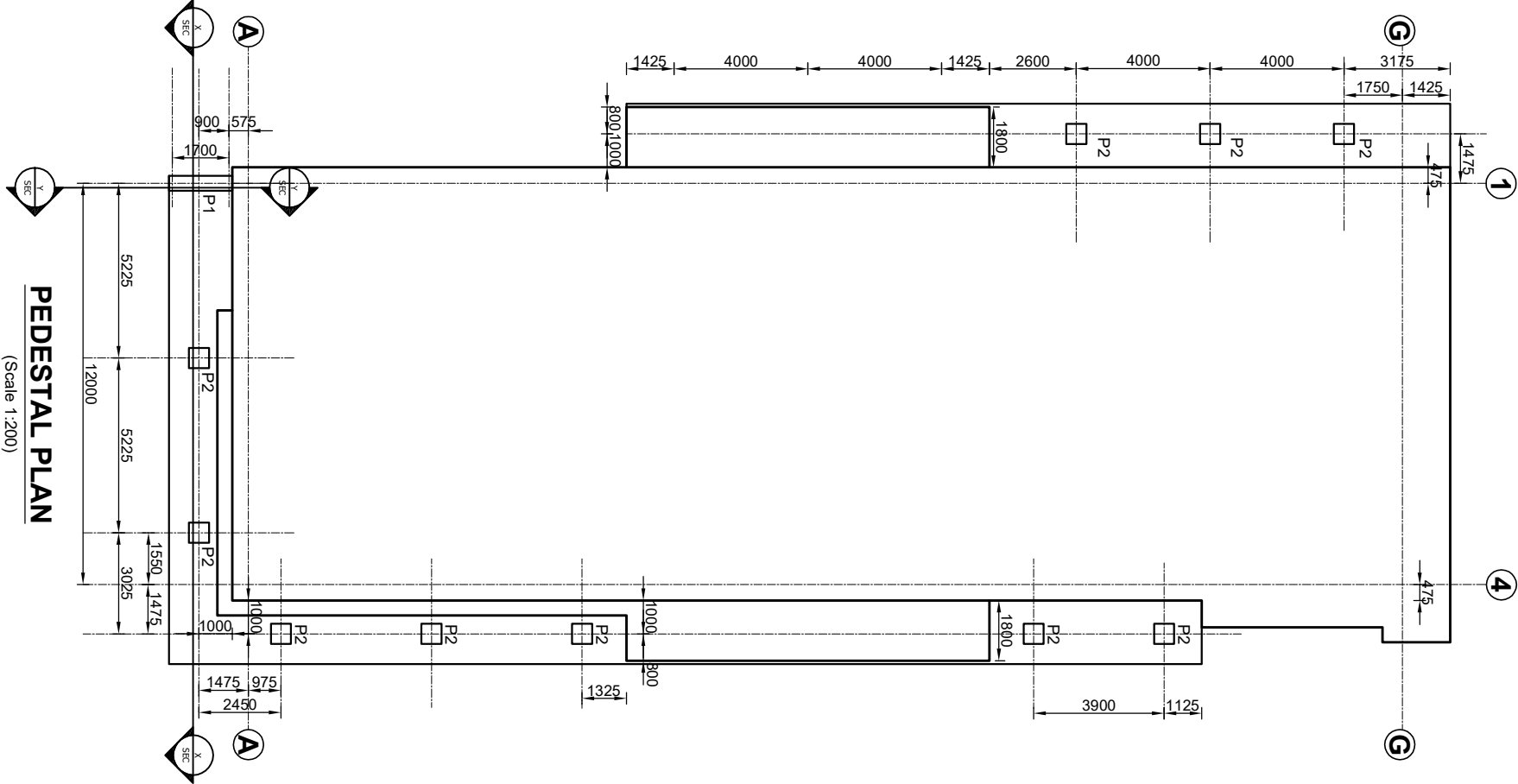
CONSULTANT:

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Mid Baneshwor, Kathmandu

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Polycarbonate Sheet Plan
TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
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Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
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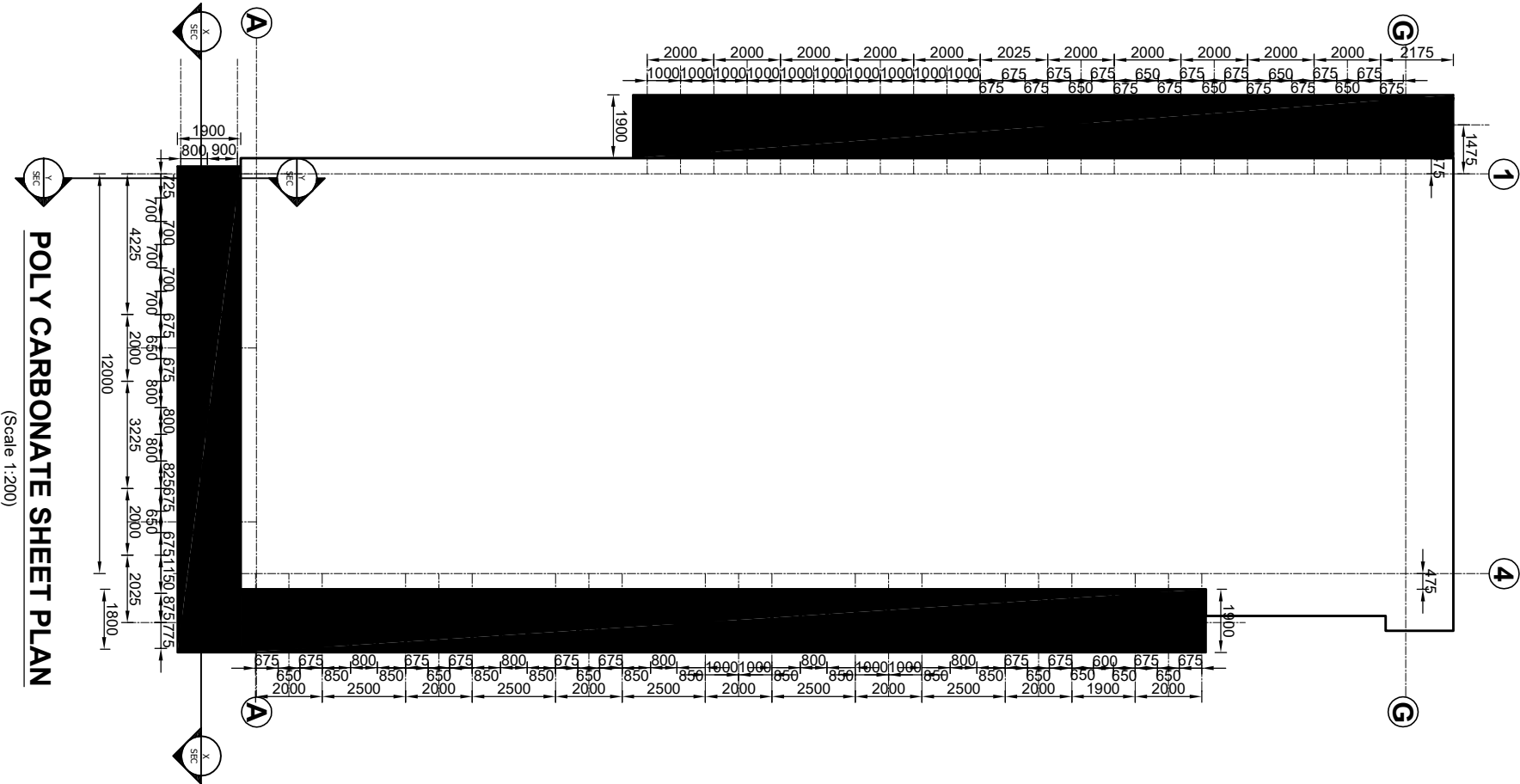
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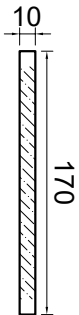
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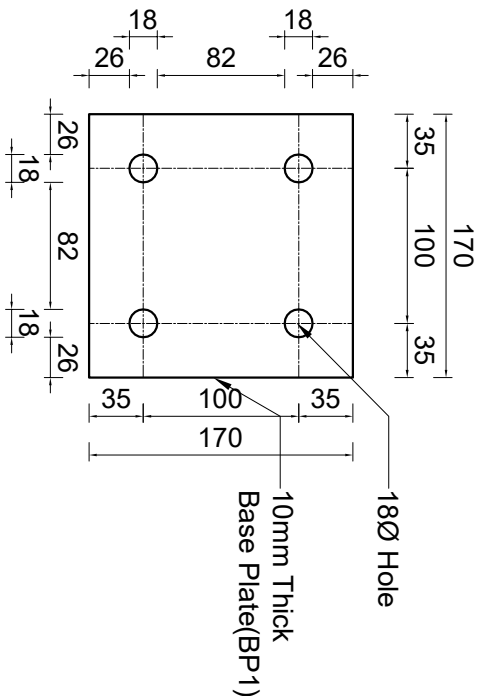
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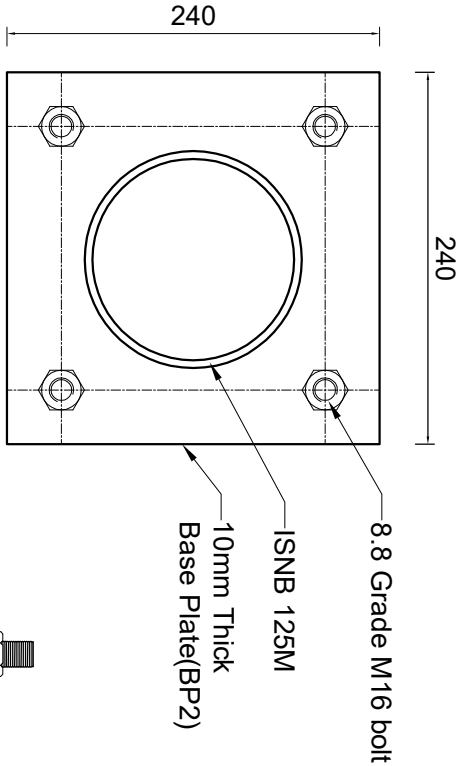
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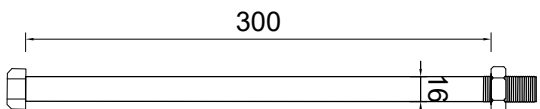
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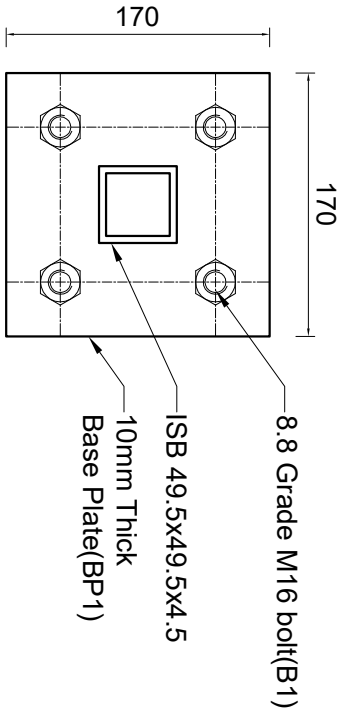
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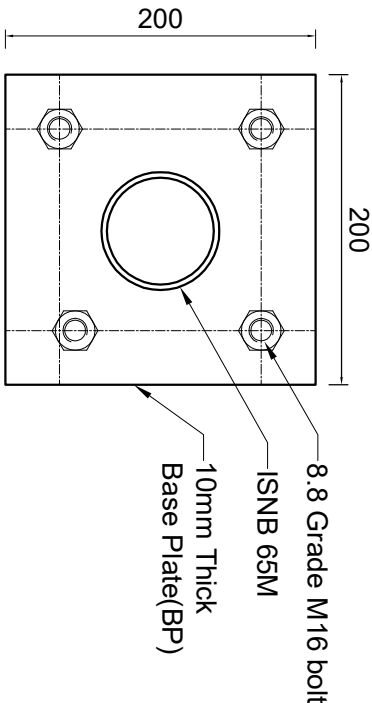
M16 BOLT DETAIL

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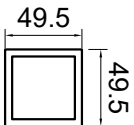
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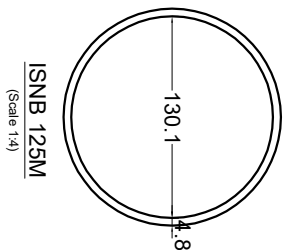
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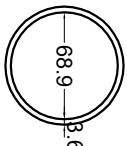
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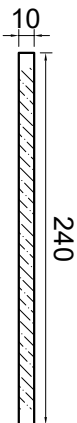
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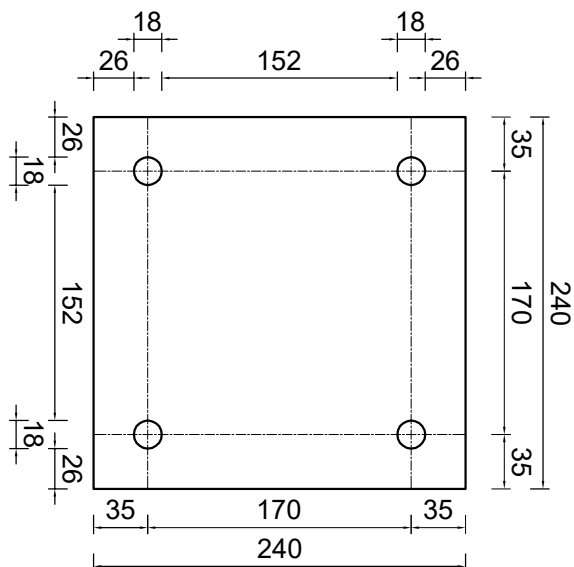
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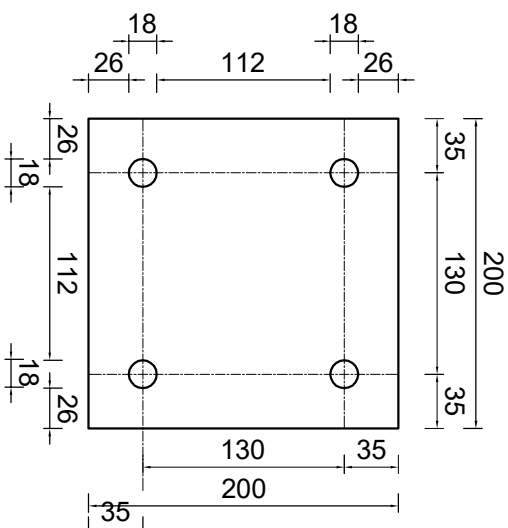
2-BASE PLATE (BP2)

(Scale 1:5)



BASE PLATE DETAIL (BP2)

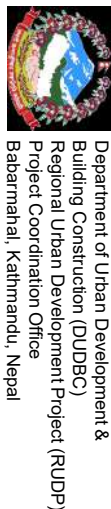
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BASE PLATE DETAIL (BP)

(Scale 1:5)

CLIENT:



Department of Urban Development & Regional Construction (DUDRC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

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1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Connection Details-1

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

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Designed By:

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DATE: Feb. 2024

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CONSULTANT:

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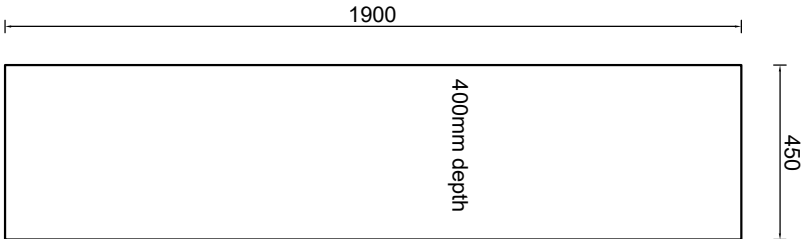
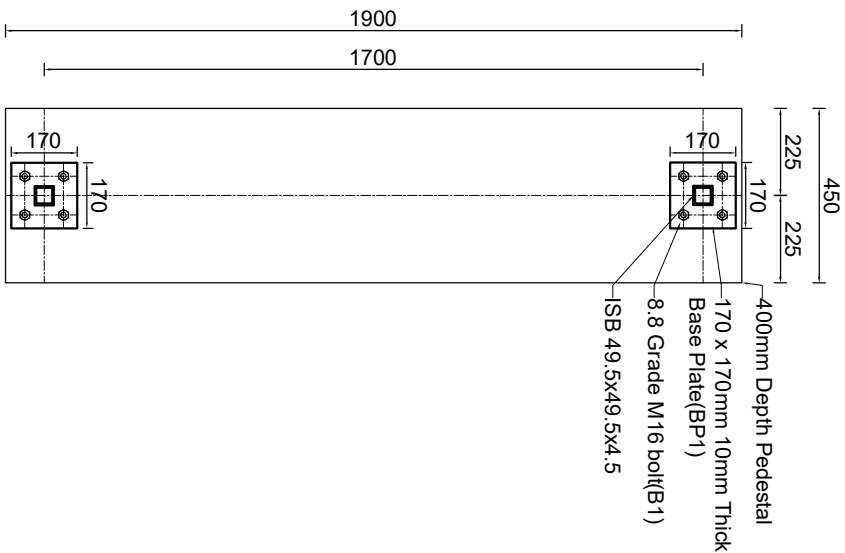
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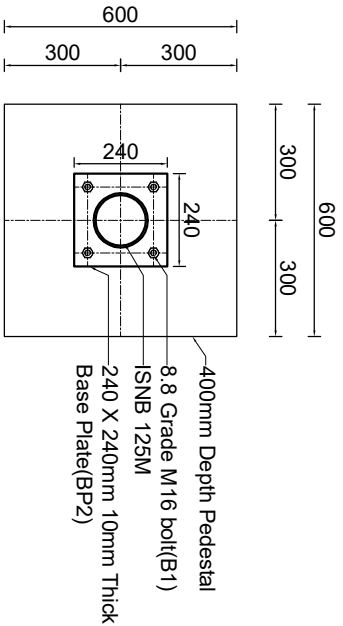
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PEDESTAL- (P2)
(Scale 1:20)

PEDESTAL-(P1)
(Scale 1:20)



BASE PLATE AND ISNB 125M PLAN (SC2)
(Scale 1:20)

BASE PLATE AND ISB 49.5X49.5X4.5 PLAN (SC1)
(Scale 1:20)



CLIENT:
Department of Urban Development &
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Regional Urban Development Project (RUDP)
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1	18 th DEC 2024	1st
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SHEET TITLE: Connection Details-2

TERMINAL BUILDING BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader: Approved By:

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Government of Nepal
Ministry of Urban Development
Department of Urban Development and Building Construction
Regional Urban Development Project
Project Coordination Office
Babarmahal, Kathmandu

STRUCTURAL DRAWINGS of STAFF ACCOMMODATION BLOCK LUMBINI SANSKRITIK MUNICIPALITY

Structural Drawing	
Name of Sheet	Sheet Number
STAFF ACCOMMODATION BLOCK	
Cover Page	C0
Table of Contents	00
General Notes-1	01
General Notes-2	02
Typical Drawing-1	03
Typical Drawing-1	04
Trench Layout Plan	05
Footing Layout Plan	06
Footing Details	07
Footing Beam and Column Layout Plan	08
Plinth Beam and Roof Beam Plan	09
L-Section Beam Details	10
L-Section Beam Details	11
L-Section Beam Details	12
L-Section Beam Details	13
Slab Reinforcement Plan	14
Slab Reinforcement Plan	15
Slab Section Details	16
Slab Section Details	17
Slab Section Details	18

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SHEET TITLE: Table of Contents

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CONSULTANT:
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SUPERVISION & DESIGN CONSULTANT (SDC)

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GENERAL NOTES

GENERAL

- General notes and typical structural details shall apply to all drawings unless otherwise shown or noted.
- All works to be carried out in accordance with current practice, structure regulation, project specification, Nepalese Code and relevant Indian Standard and Codes of Practice. Materials and components to be appropriate for their intended use.
- The contractor shall be responsible for verifying the dimensions on site and ensuring that all the dimensions and levels shown on the drawings are correct and consistent with other relevant drawings. Any discrepancies are to be reported immediately to Engineer
- During construction, the contractor shall be responsible for maintain the structure in a stable condition and ensuring no par shall be damaged under construction activities.
- Workmanship and materials are to be in accordance with the relevant Indian Standards.
- The Engineer shall accept no responsibility for the works unless they are inspected and approved by the Engineer during the Construction. At least 48hours notice shall be provided for all engineering inspections.
- Any damage to the surface during construction/erection is to be made good.
- Before commencing the structural steel works, the shop drawings shall be provided to the Engineer.

DESIGN CRITERIA

1. LOADS

1.1. DEAD LOADS

- Unit Weight of PCC = 24 kN/m³
- Unit Weight of RCC = 25 kN/m³
- Unit Weight of Steel (Rebar) = 78.5 kN/m³
- Unit Weight of Brick = 19 kN/m³

1.2. LIVE LOADS

- Roof Live Load = 1.5 kN/m²
- Staircase and Passage Live Load = 4 kN/m²
- Rooms =2kN/m² / 3 kN/m²

1.3. SEISMIC LOAD

- Code Followed = NBC 105:2020
- Soil Type = C Type
- Seismic Zoning Factor = 0.35
- Importance Factor = 1.0
- Over Strength Factor = 1.5 For ULS
- Ductility Factor = 4.0 For ULS
- Type of Structural System = RC Moment Resisting Frame System

1.4. SOIL PROPERTIES

- Unit Weight of Soil = 19 kN/m³
- Bearing Capacity of Soil = 120 kN/m² (Geotechnical Report)

2. DESIGN AND CODE REFERENCE

Following references shall govern the design, fabrication and construction of project.

- IS 875(part I) Code of practice for design loads (dead) for buildings and structures.
- IS 875 (part II) Code of practice for design loads (live) for buildings and structures.
- IS 875 (part III) Code of practice for design loads (live) for buildings and structures.
- NBC 105:2020 Seismic Design of Building in Nepal
- IS 13920:2016 Ductile Design and Detailing of Reinforced Concrete Structures Subjected to Seismic Forces
- SP 34 Handbook on Concrete Reinforcement and Detailing

MATERIAL

1. CONCRETE

- The cement used shall be Ordinary Portland cement conforming to IS 269:1976.
- All RCC work shall be continuously cured by moist jute sheets or any means.
- The concrete strength shall be measured on (150X150X150) mm³ cube at 7, 14 and 28 days for various structural elements.
- Unless indicated otherwise on plans, the concrete class and strength shall be as follows:

Block Name: Staff Block	
SN	Structural Member
1	Footing,
2	Tie Beam
3	RC Column
4	RC Main Beam, Slab
5	PCC

2. REINFORCING STEEL

- Reinforcement steel shall be TMT having yield strength of 500 N/mm².
- Cover to main reinforcing steel shall be in accordance with IS 456:2000.
- Clear Cover of Concrete shall be:
 - Footing = 50 mm
 - Column = 40 mm
 - Beam = 25 mm
 - Slab = 20 mm

- Details of reinforcing steel fabrication and placement shall conform to SP 34--1987.
- Bar bending schedule shall be submitted for approval before the reinforcement work and contractor shall corresponds to the Engineer in case of any discrepancies.

3. STRUCTURAL STEEL BOLTS/WELD (Applicable for Steel Structure)

- Structural steel shall have a yield strength of 250 N/mm².
- Requirements of welds and welding shall conforms to IS 816 and IS9595, as appropriate.
- The electrodes required for metal or welding shall be covered and shall conform to IS814: 1991
- Metal Surface shall be properly cleaned
- Nomenclature of structural steel is as per Indian Standard Steel Section.
- Welds and welding shall be applied as per drawing.
- Application of metal primes and finishing coat of paint shall be in accordance with IS1477:1971 (Part-I and Part-II).
- Anchor Bolt:
 - Bolt shall be of grade as per specified in the drawing if not specified 8.8 grade shall be considered.
 - Bolts shall be galvanize as per IS 5358:1969 provision.
 - Anchor bolts shall confirm to IS 5624:1995. As an alternate for anchor bolts of 8.8 grade threaded steel rebar of 500 N/mm² of length as per design shall be used.

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General Notes-1
STAFF BLOCK

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REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

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CONSTRUCTION

1. SETTING OUT

The setting out and the elevations of the different components of the structure shall be approved by the engineer prior to the start of any construction work.

2. REINFORCED CONCRETE

A. CONCRETE MIX AND PLACING

- a. Concrete mix shall meet the design concrete strength given under material.
- b. Concrete shall be deposited, vibrated and cured in accordance with the specifications.
- c. The contractor shall submit to the engineer for approval the pouring sequences for the concrete work.
- d. The contractor shall notify the engineer 48 hours prior to the pouring of any structural concrete, so an inspection can be made on all the forms and reinforcing
- e. Use of the admixture is permitted to produce proper slump and workability but subjected to the engineer approval addition of concrete at job site is not allowed.
- f. For two or more layers of reinforcing bars, use separator spacing @ 900 mm o/c and in no case shall be less than 2 separator. Clear distance between layers should not be less than 25 mm or larger bar diameters.
- g. Location of all the constructions or cold joints must be approved by the engineer/Architect.
- h. Pipes or duct exceeding one third the slab or wall thickness shall not be placed in structural concrete unless specifically detailed. Pipes may pass through structural concrete in sleeves but shall not be embedded therein
- i. Reinforcing bars, anchorage bolts, and other inserts shall be secured in place before pouring concrete bar placement and support wall be in accordance with recommend Indian standard practice.
- j. In general, the latest edition of the manual of standard for detailing concrete structure unless shown otherwise.

B. BAR BENDING, SPLICING AND PLACING

- a. The contractor shall submit to the engineer for approval all shop drawing indicating the bending, cutting, splicing and installation of all reinforcing bars.
- b. Bar splicing not indicated on drawing shall be subjected to the approval of engineer.
- c. Lapped splices shall be staggered where possible.
- d. Anchorage bolts, dowels and other embedded items are to be securely tied in place before concrete is poured.
- e. Typical standard hook details. (Refer Typical Drawing)
- f. Typical lap splice details. (Refer Refer Typical Drawing))

C. FORM WORK

- a. Forms shall be provided for all concrete indicated unless specified otherwise, forms shall be set true to line and grade and maintained so as to ensure competent work within the allowable tolerances specified and shall be mortar tight.
- b. Forms and their supports shall be designed so as not to damage previously placed structure.
- c. No construction load shall be supported on, nor any shoring removed from any part of structure in combination with the remaining forming and shoring systems has sufficient strength to support safely its weight and additional imposed load.
- d. Forms shall be removed in such manner as not to impair safety and serviceability of the structure.
- e. Schedule of stripping of forms will be as table: stripping time as per clause 11.3 of IS456:2000.

D. PROTECTION AND CURING OF CONCRETE

Concrete surfaces shall be protected from harmful effects of sun, wind and running water and shall be kept damp for at least 7 days.

Table : Stripping Time As per clause 11.3 of IS456:2000			
SN	Type of Formwork	Minimum Period Before Striking	Remake
1	Sides of Walls, Columns and Vertical Faces of beam	16 to 24 hours	
2	Soffit formwork of slabs (Props Left Under)	3 days	
3	Soffit formwork of beams (Props Left Under)	7 days	
4	Removal of Props of Slabs:		
	a. Slabs spanning uot 4.5m	7 days	
	b. Slabs spanning over 4.5m	14 days	
5	Removal of props for beams and arches		
	a. Span up to 6m	14days	
	b. Span voer 6m	21 days	

3. STRUCTURAL STEEL

- a. Hole size for anchorage bars
- b. Welded connections between members of moment frames shall be tested by non-destructive test method.
- c. Comply with Indian Standard for bearing, adequacy of temporary connection and alignment.
- d. Fabricator shall submit shop drawing for approval by the engineer and the owner prior to fabrication.

4. FOOTINGS

- a. All footing shall be on the natural soil.
- b. All engineered fill beneath slab and over footing shall be compacted to a dry density of at least 90% of the Modified Proctor maximum dry density.
- c. Foundation shall be inspected to ensure that loose soft or otherwise undesirable material (such as organic materials) is removed, and that the foundation will bear on the natural soil.

5. LIMITATION FOR FOOTING

- a. Foundations in areas under infill soil may require special design considerations, such as deeper foundations, reinforced foundation systems, or soil stabilization techniques
- b. Areas with infill soil must be assessed for differential settlement and localized instability. Differential settlements between blocks on solid ground and those over infill should be minimized.

UNITS

- 1. Do not scale drawings. Any missing dimension shall be furnished upon request.
- 2. All dimensions are in millimeter unless otherwise noted.

LIMITATION

The construction design has been done assuming quality materials and steel sections are available. Therefore, the design needs to be verified with the actual situation when the work progress and may require some changes during the implementation.

SYMBOL

- ϕ = Diameter of Rebar

CLIENT:



Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

General Notes-2
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT
Team Leader:		Approved By:
Reviewed By: Er. Ajay Shrestha		
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav		
PAPER SIZE: A3		SCALE: AS SHOWN
DATE: Feb. 2024		SHEET NO ST- 02

CONSULTANT: DOHWA Engineering Co. Ltd. In association with ERMIC (P.) Ltd., SILT Consultants (P.) Ltd., and DIGICON (P.) Ltd. Mid Baneshwor, Kathmandu	DOHWA ENGINEERING
--	-----------------------------

REVIEWED BY: SUPERVISION & DESIGN CONSULTANT (SDC) Building Design Authority(P) Ltd.- BN- UDAYA JV
--



CLIENT:

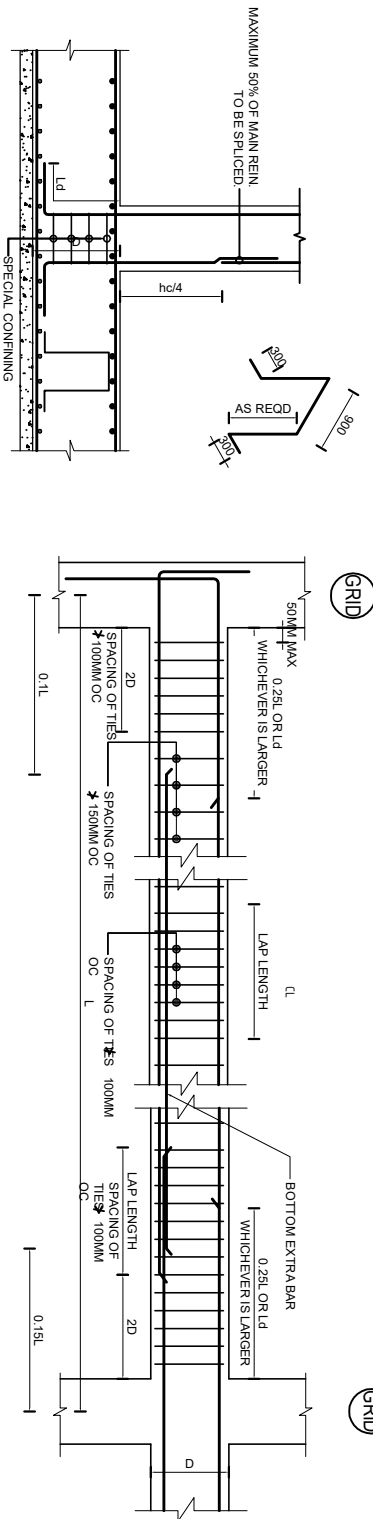


Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

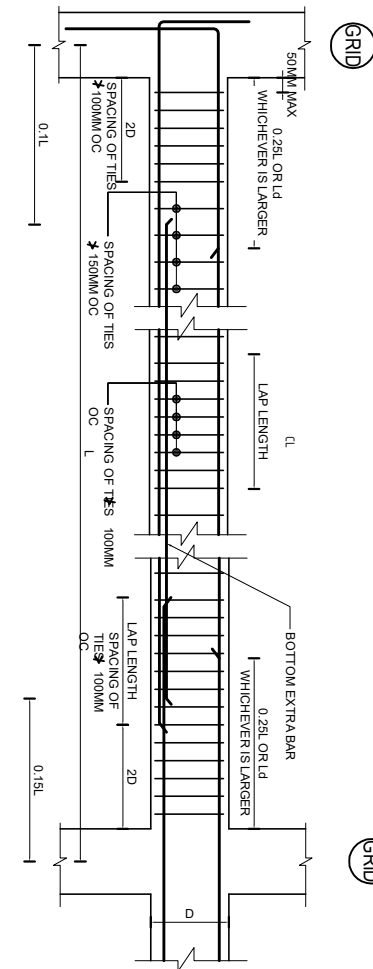
PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

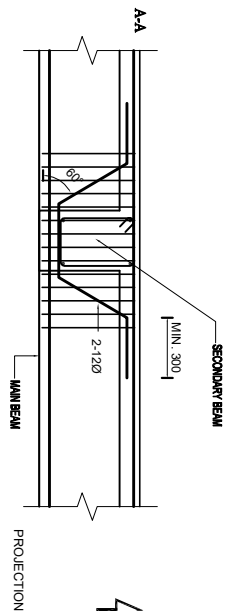
- ### LAPPING NOTES FOR BEAM
- 1) Lap length shall not be less than bar development length in tension
 - 2) Not more than 50% of the bars shall be spliced at one section
 - 3) Lap splice shall not be provided:
 - a. Within the joint
 - b. Within the distance of 2d from joint face
 - c. within the quarter length of the member



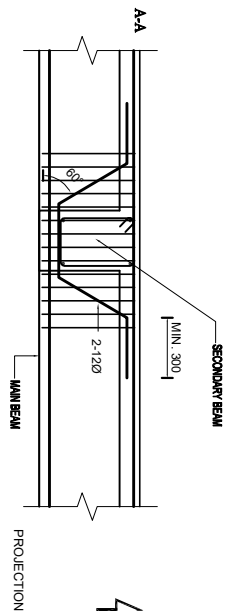
1 TYP. FOUNDATION CHAIR DETAIL
NTS



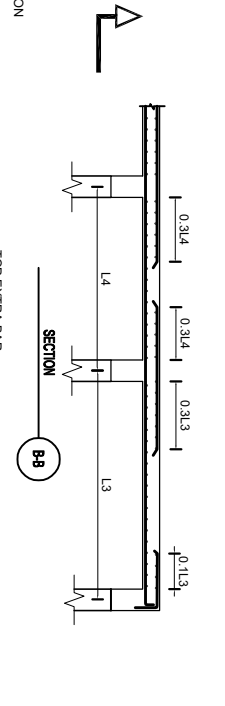
3 TYP. DETAIL LAPPING FOR BEAM BAR
NTS



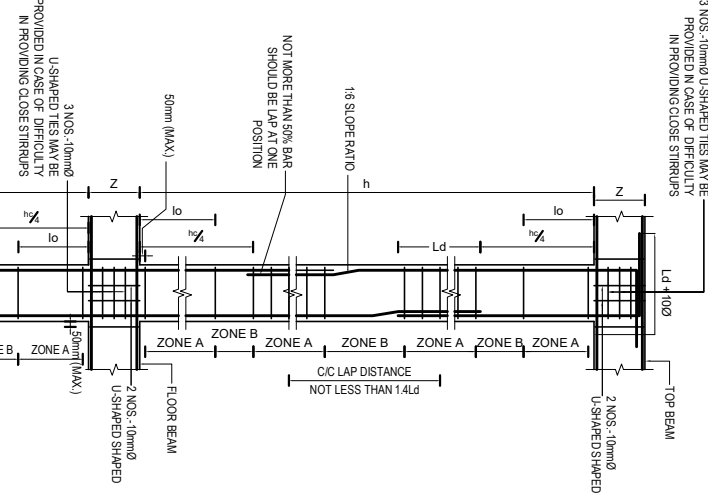
4 TYP. BEAM COLUMN JOINT
NTS



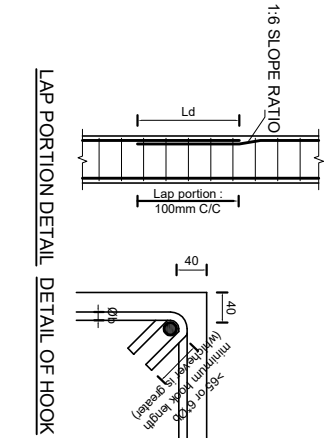
5 TYP. JUNCTION DETAIL OF MAIN & SECONDARY BEAM
NTS



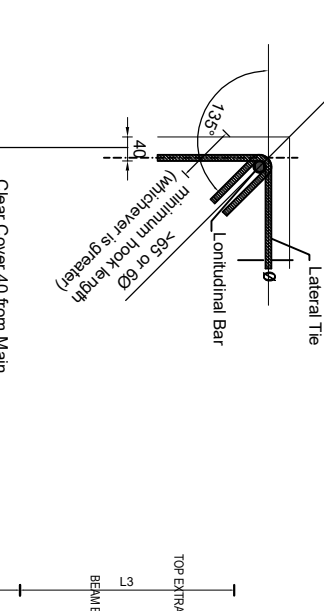
6 TYP. DETAIL LAPPING FOR BEAM BAR
NTS



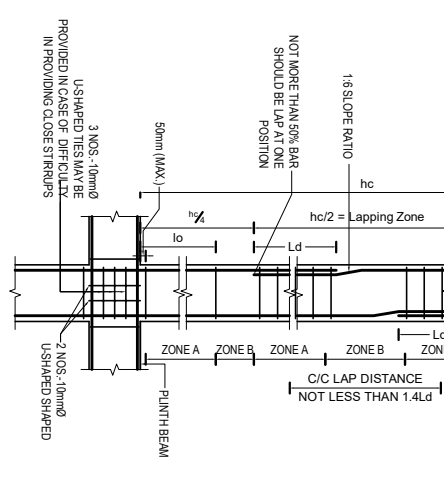
2 TYP. COLUMN SHEAR REINFORCEMENT DETAIL & SPLICING DETAIL
NTS



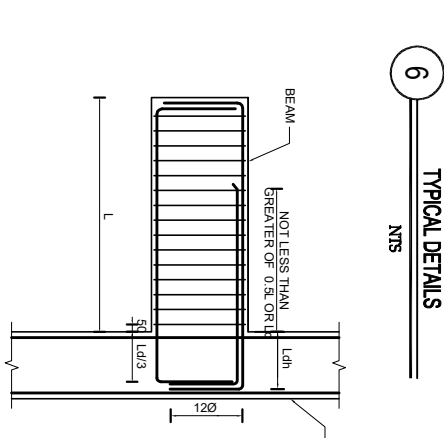
3 TYP. DETAIL LAPPING FOR BEAM BAR
NTS



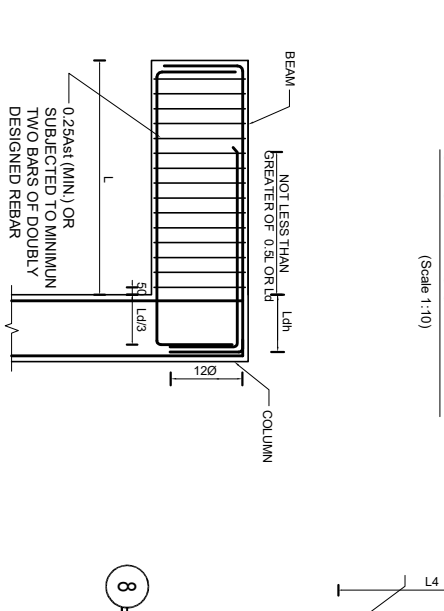
4 TYP. DETAIL LAPPING FOR BEAM BAR
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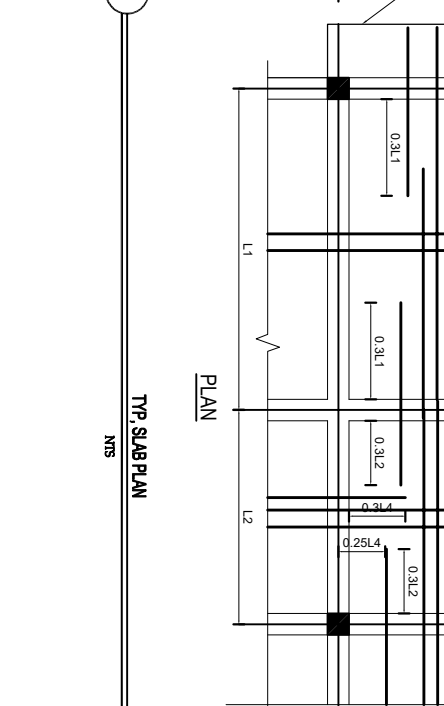
5 TYP. DETAIL LAPPING FOR BEAM BAR
NTS



6 TYP. DETAIL LAPPING FOR BEAM BAR
NTS



7 TYP. DETAIL LAPPING FOR BEAM BAR
NTS



8 TYP. DETAIL LAPPING FOR BEAM BAR
NTS

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE: Typical Drawings-1

STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST-03

CONSULTANT: DOHWA Engineering Co. Ltd.

In association with

ERMIC (P.) Ltd., SILT Consultants (P.) Ltd., and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

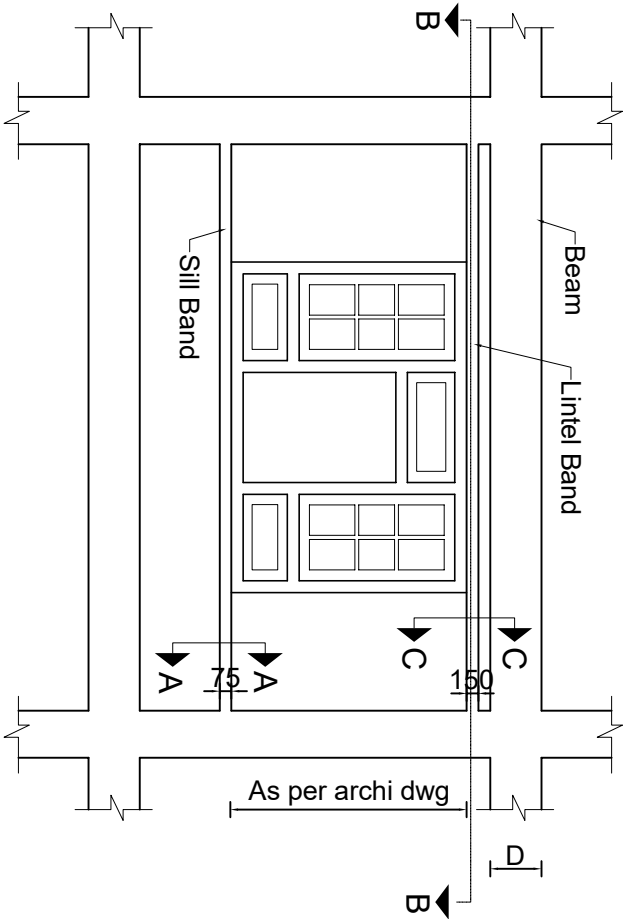
REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN-UDAYA JV



HORIZONTAL DEVELOPMENT LENGTH (Ldh)		
Ldh For Grade Of Steel, fy = 500 MPa in mm		
Bar Diameter	Grade of Concrete, fck	
	M20	M25
12	277	247
16	369	330
20	461	412
25	576	515



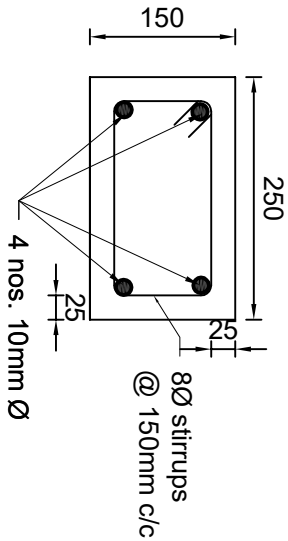
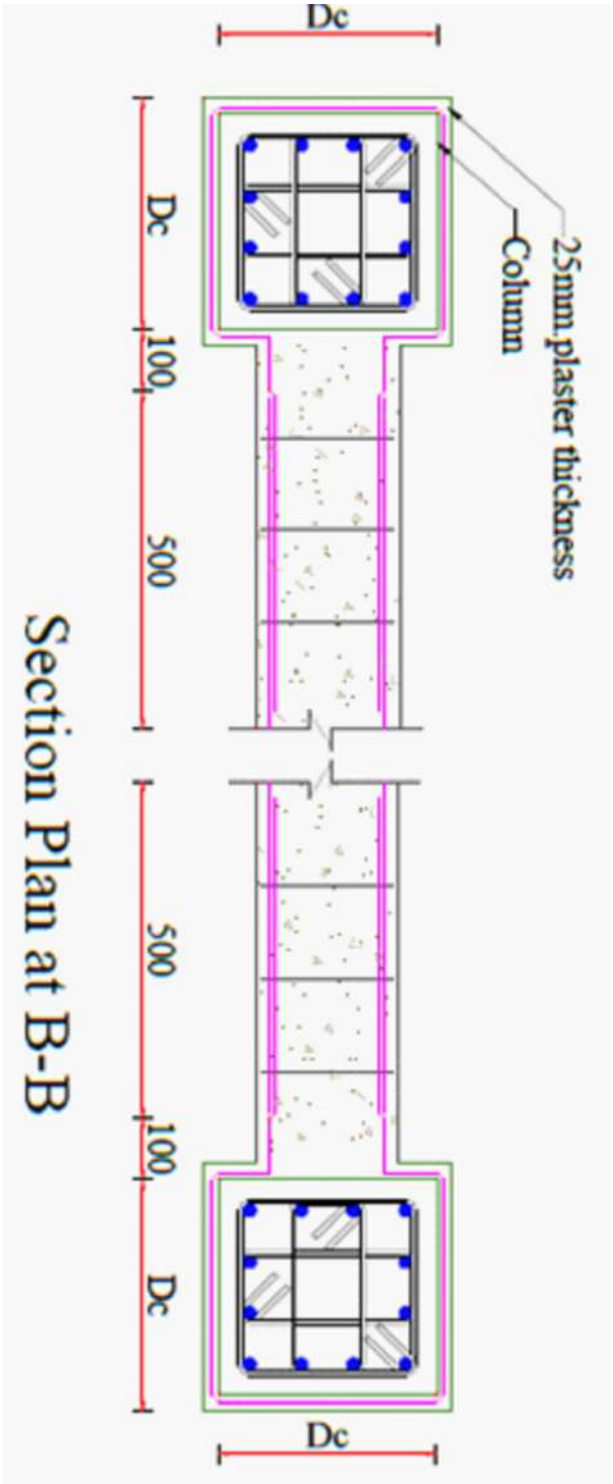
BEAM JOINT AND LAP DETAILS

(SCALE 1:50)

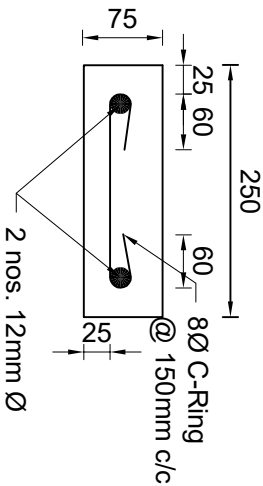
DEVELOPMENT LENGTH (ld)		
Grade of Steel, fy	Grade of Concrete, fck	In tension
500	20	57Ø
	25	49Ø

NOTES:

1. L_{dh} = HORIZONTAL DEVELOPMENT LENGTH, L_d = DEVELOPMENT LENGTH, LAP LENGTH
2. "TOP" BARS ARE HORIZONTAL WITH MORE THAN 300mm [12"] OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "BOT" BARS.
3. SPLICE LENGTHS SHOWN ARE FOR CLEAR SPACING NOT LESS THAN 2Ø, CONCRETE COVER NOT LESS THAN Ø.
4. ALL THE REINFORCEMENT DETAILING SHALL COMPLY WITH THE REQUIREMENT OF IS 13920:2016 (DUCTILE DETAILING OF REINFORCED CONCRETE STRUCTURES SUBJECTED TO SEISMIC FORCES-CODE FOR PRACTICE)



SCALE = 1:10



SCALE = 1:10

CLIENT:



Department of Urban Development & Regional Urban Development Project (RUDP)
Regional Urban Development Office
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Typical Drawings-2
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader: Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

SHEET NO ST- 04

CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERMW (P.) Ltd., SIL T Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



CLIENT:

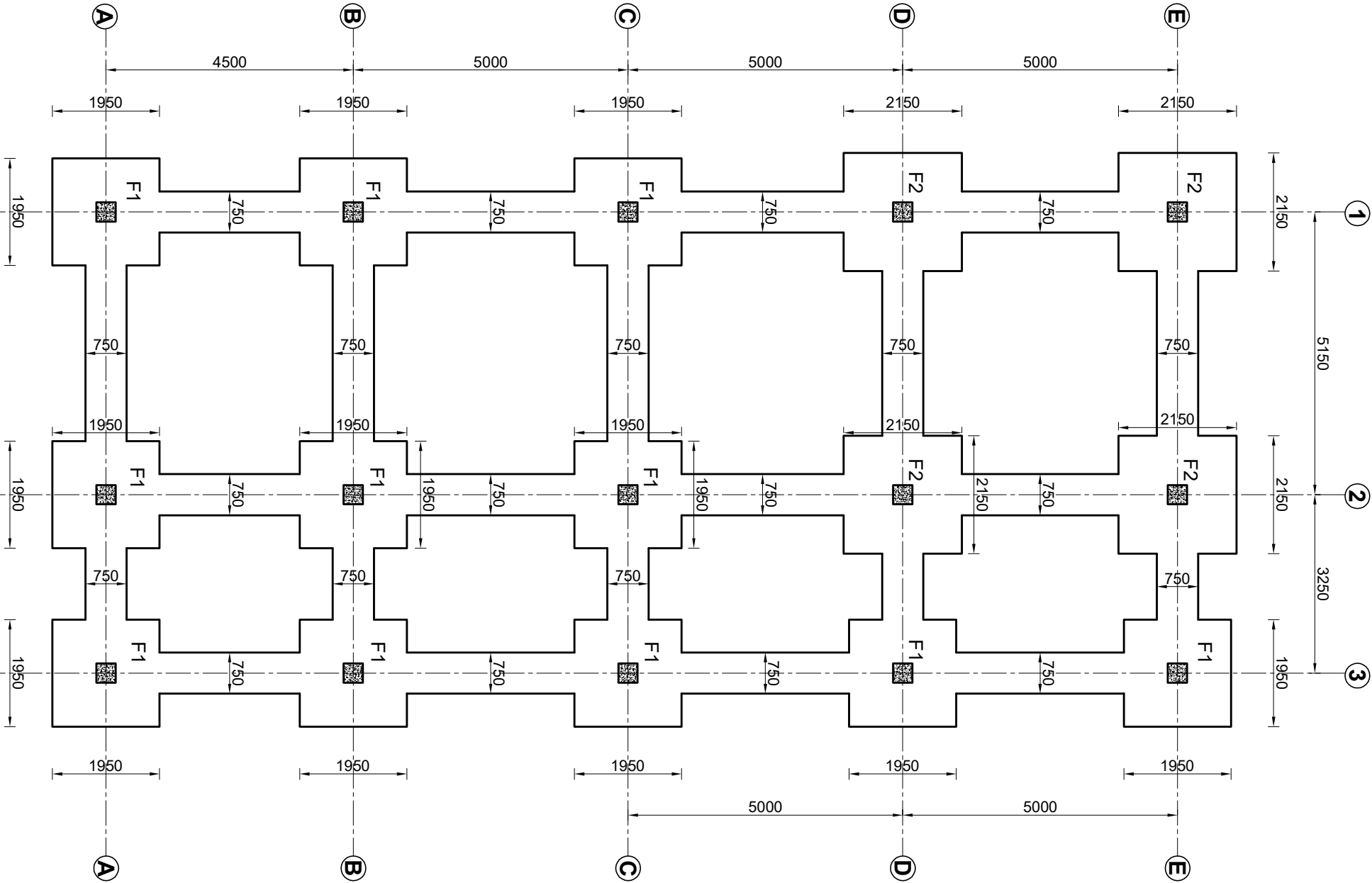


Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

NOTE:
CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



TRENCH LAYOUT PLAN

(SCALE 1:100)

ISSUES & REVISIONS	
NO	REVISION
1	18 th DEC 2024
2	14 th JAN 2026

SHEET TITLE: Trench Layout Plan
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:
Reviewed By: Er. Ajay Shrestha	
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav	
PAPER SIZE: A3	SCALE: AS SHOWN
DATE: Feb, 2024	SHEET NO ST- 05

CONSULTANT:
DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:
SUPERVISION & DESIGN CONSULTANT (SDC)
Building Design Authority(P) Ltd.- BN- UDAYA JV



NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Footing Layout Plan
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb, 2024

CONSULTANT:

DOHWA Engineering Co. Ltd.

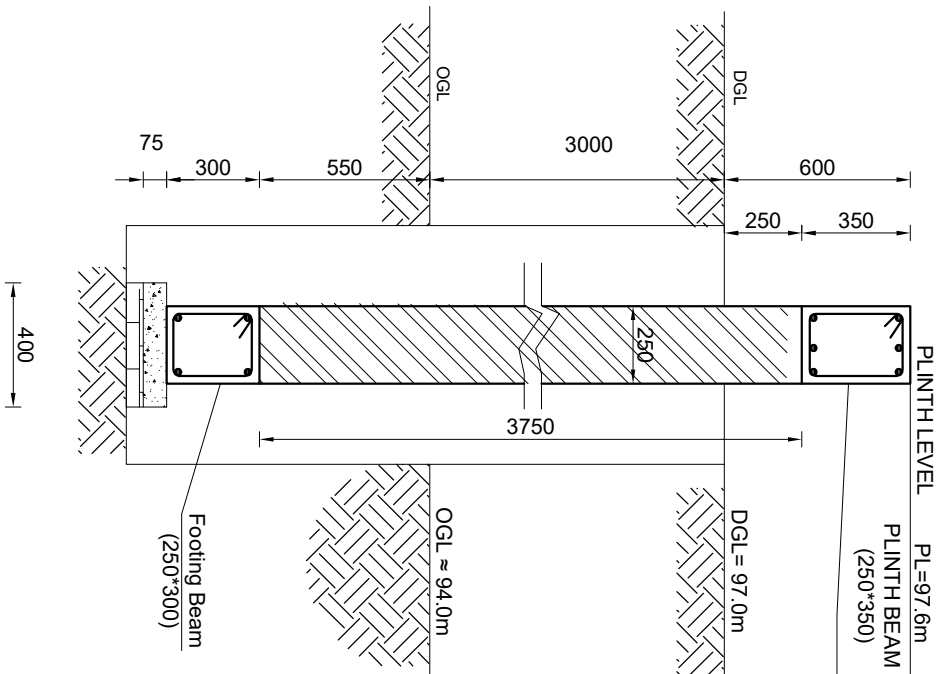
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

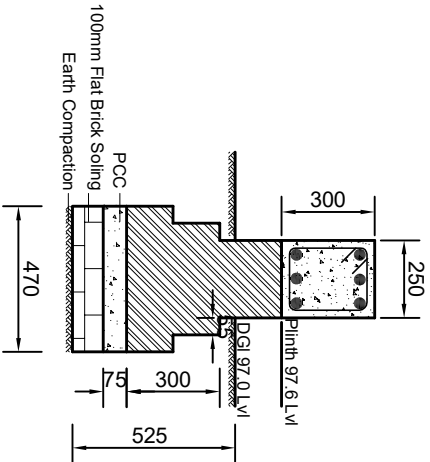
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



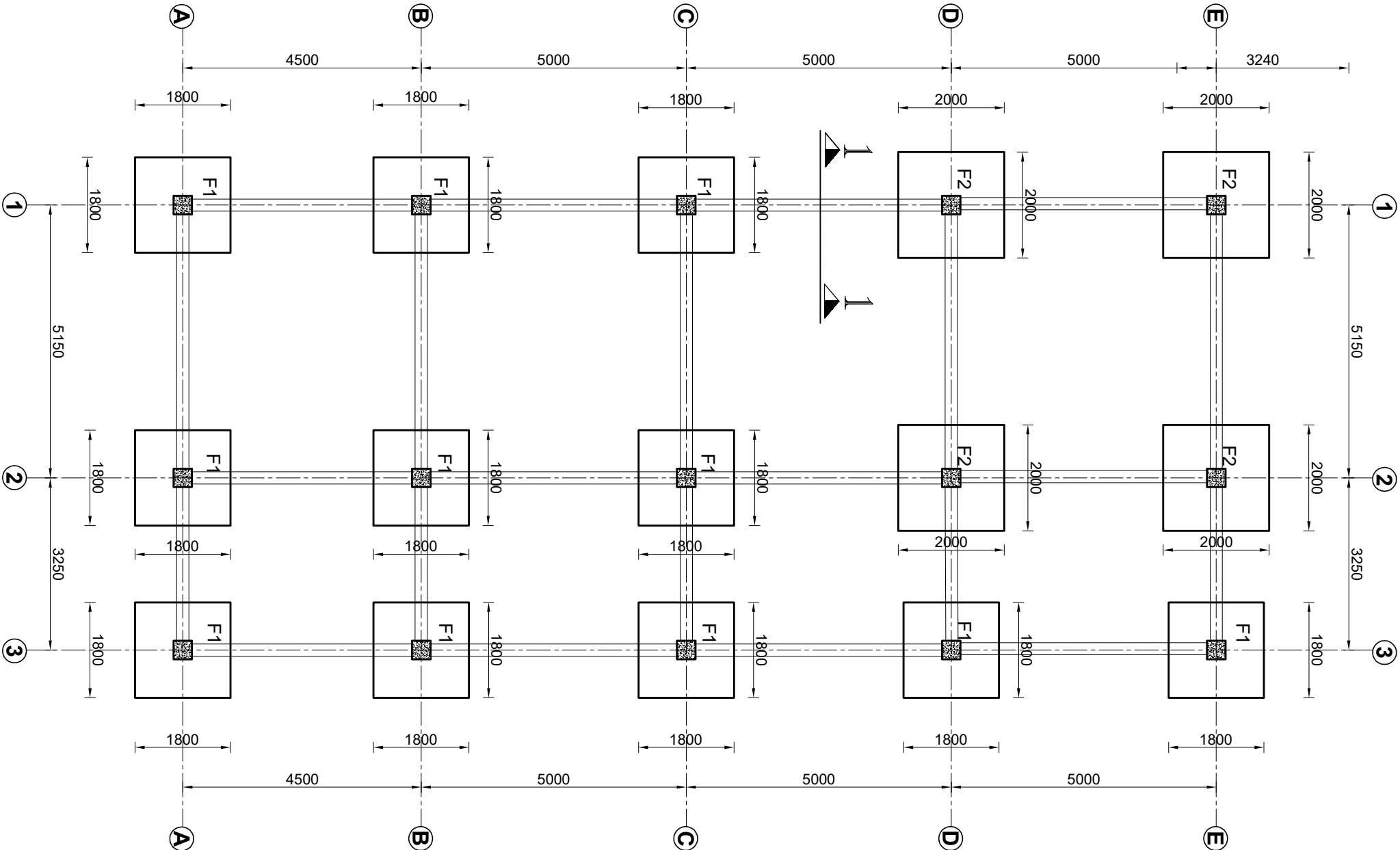
TOE WALL UNDER PLINTH BEAM

Section 1-1
(Scale 1:25)



TOE WALL UNDER SECONDARY BEAM

Section 2-2
(Scale 1:25)



FOOTING LAYOUT PLAN

(SCALE 1:100)

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Footing Details
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 07

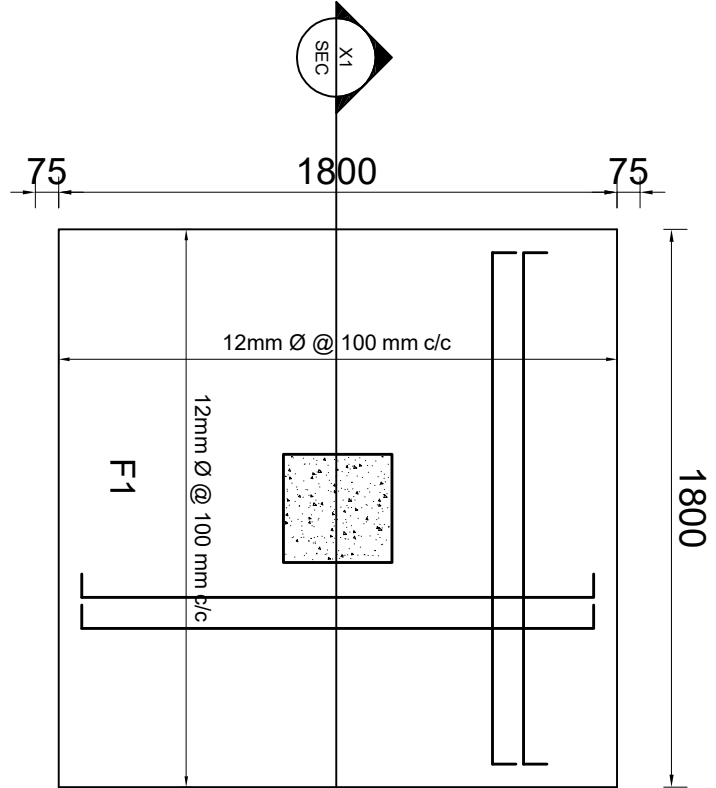
CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

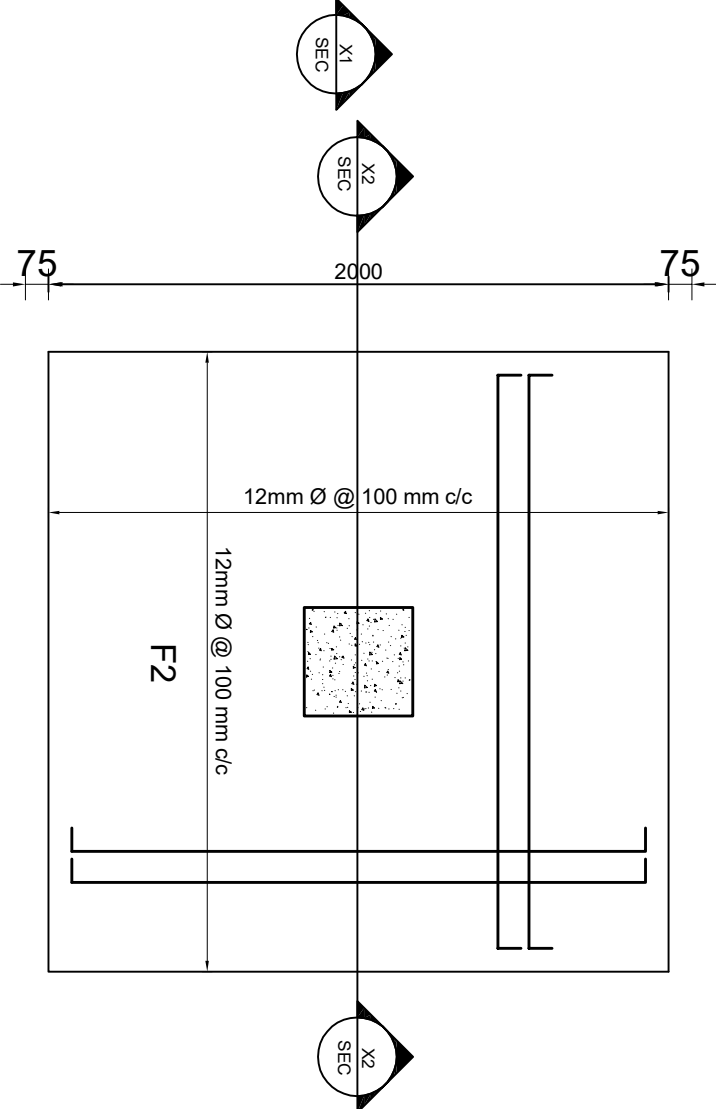
REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

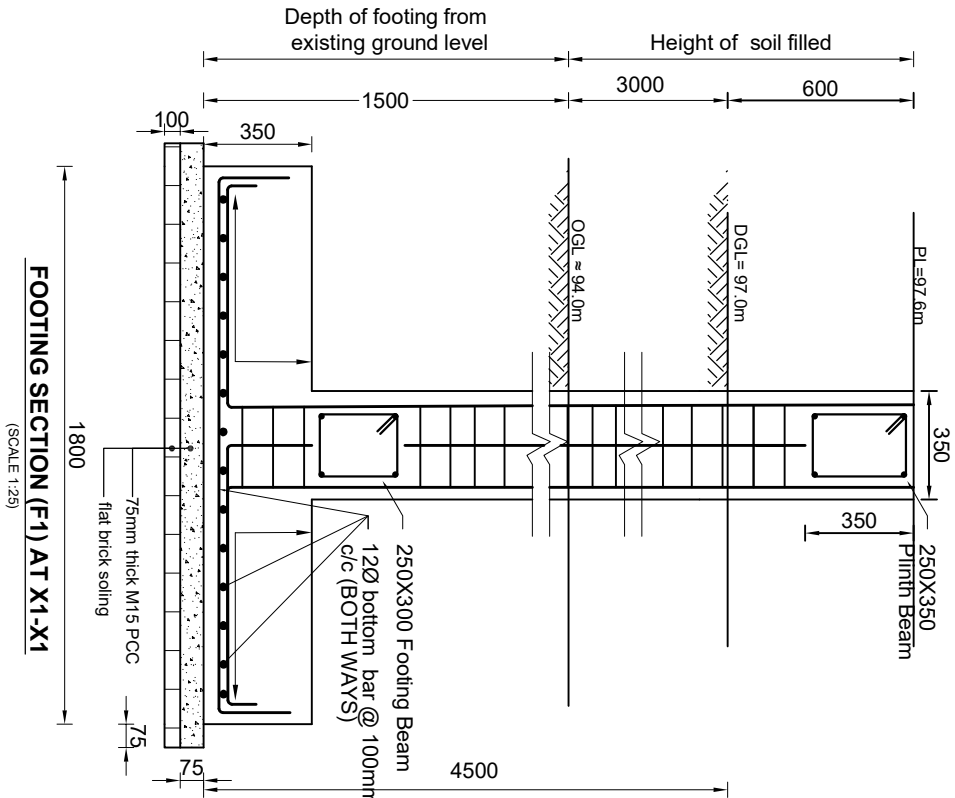
Building Design Authority(P) Ltd.- BN- UDAYA JV



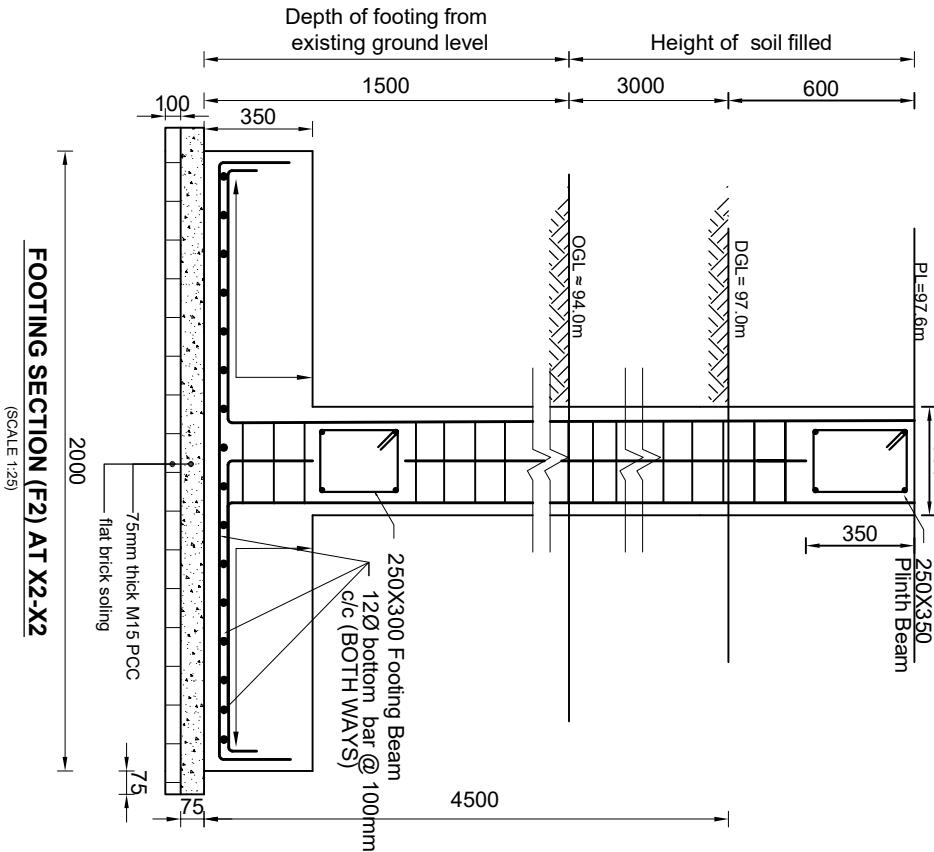
FOOTING PLAN (F1)
(SCALE 1:25)



FOOTING PLAN (F2)
(SCALE 1:25)



FOOTING SECTION (F1) AT X1-X1
(SCALE 1:25)



FOOTING SECTION (F2) AT X2-X2
(SCALE 1:25)

NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)

NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Plinth Beam and Roof Beam Plan
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 09

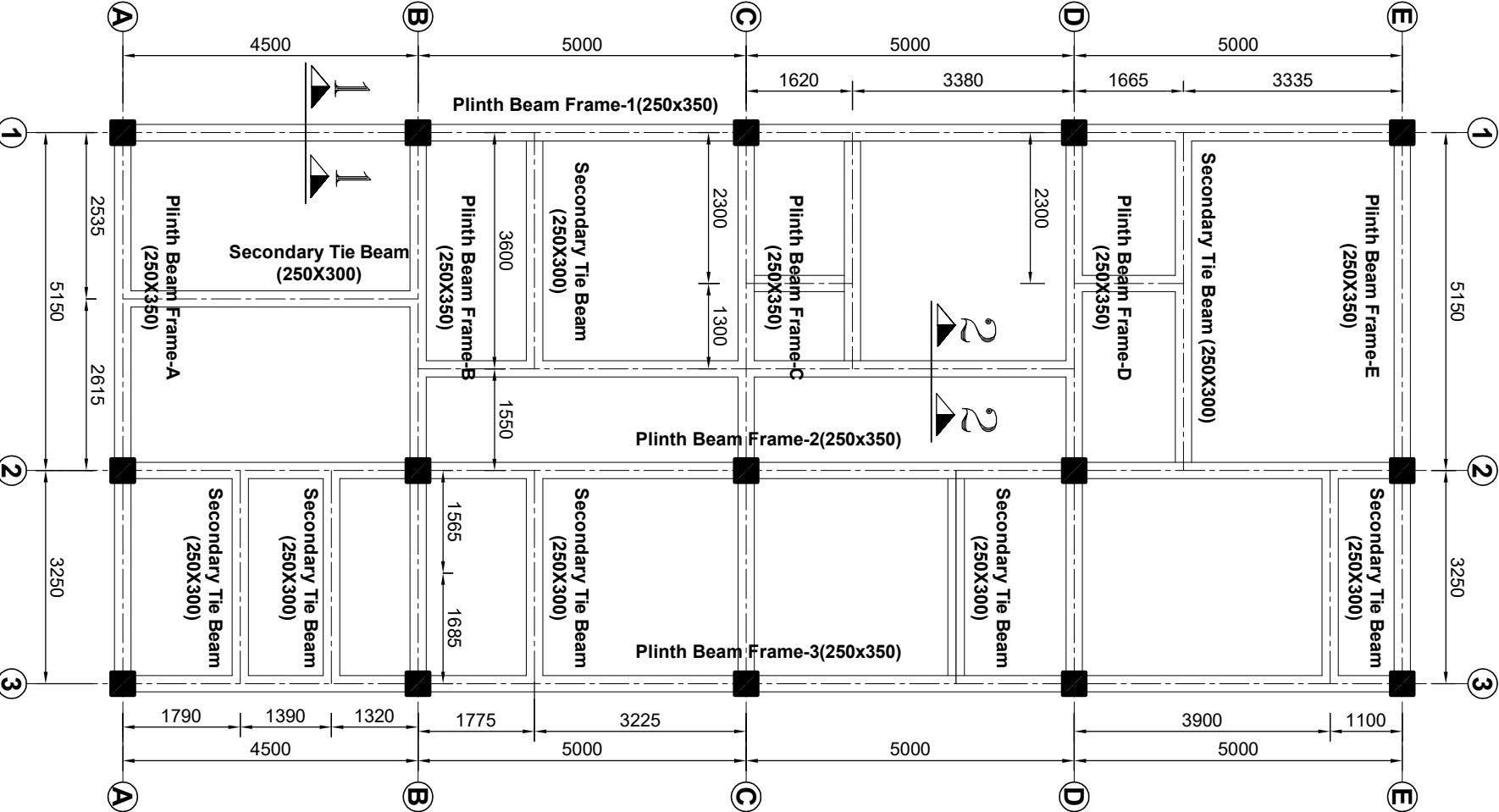
CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

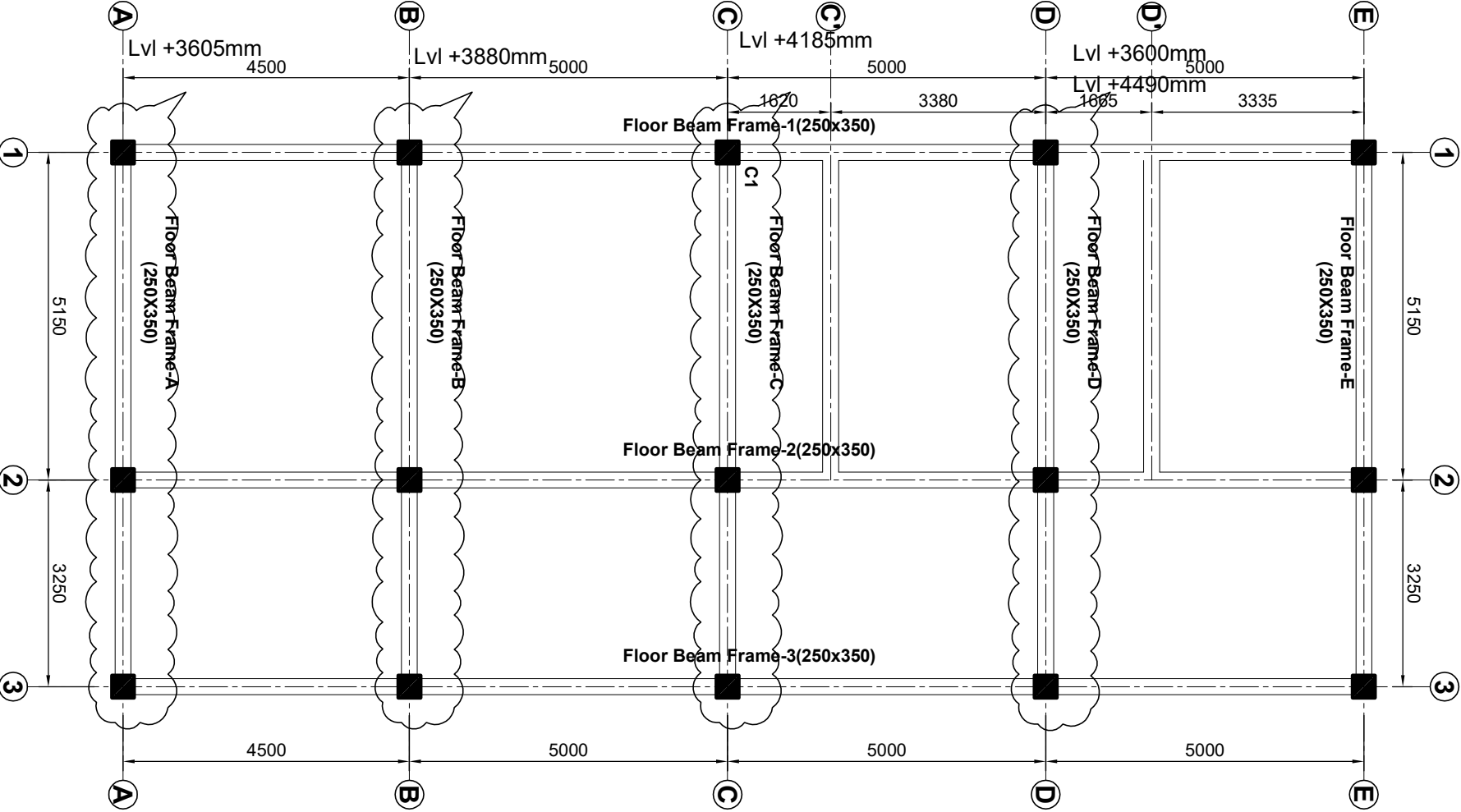
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



PLINTH BEAM PLAN SHOWING SECONDARY TIE BEAM

(SCALE 1:100)



ROOF BEAM PLAN

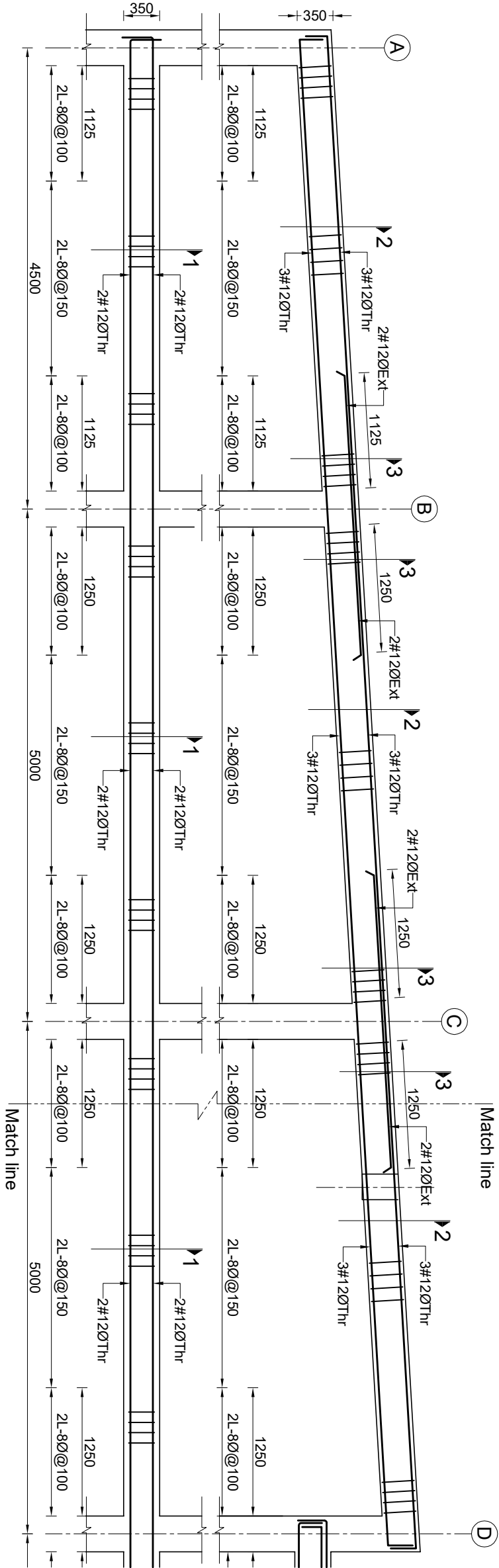
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NOTE

1- All Secondary Tie Beam 250X350

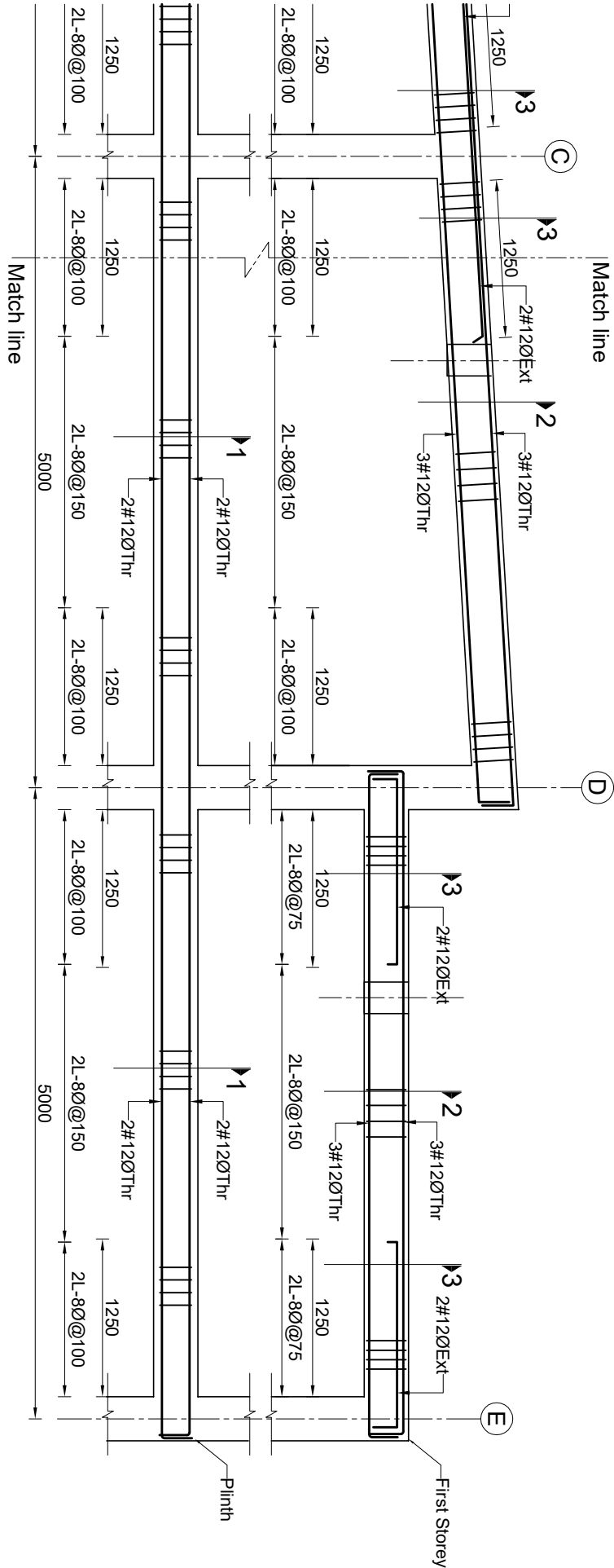
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CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



L-SECTION ALONG GRID AT (1-1)

(SCALE 1:50)



L-SECTION ALONG GRID AT (1-1)

(SCALE 1:50)

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

L-Section Beam Details
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST. 10

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with

ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)

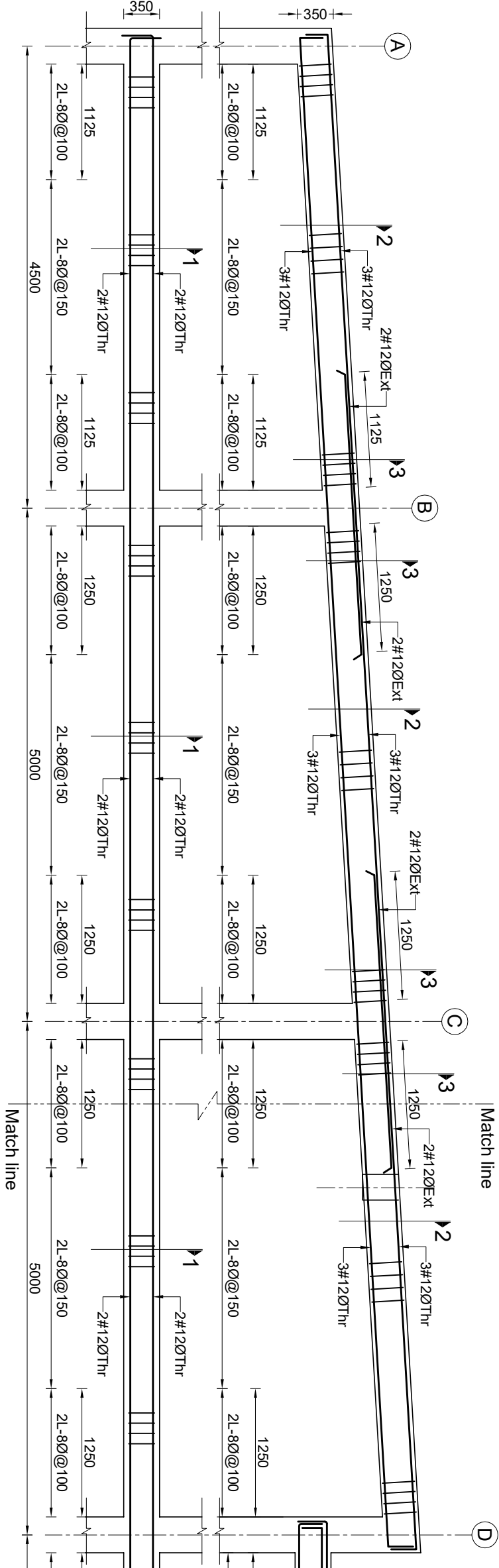
CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

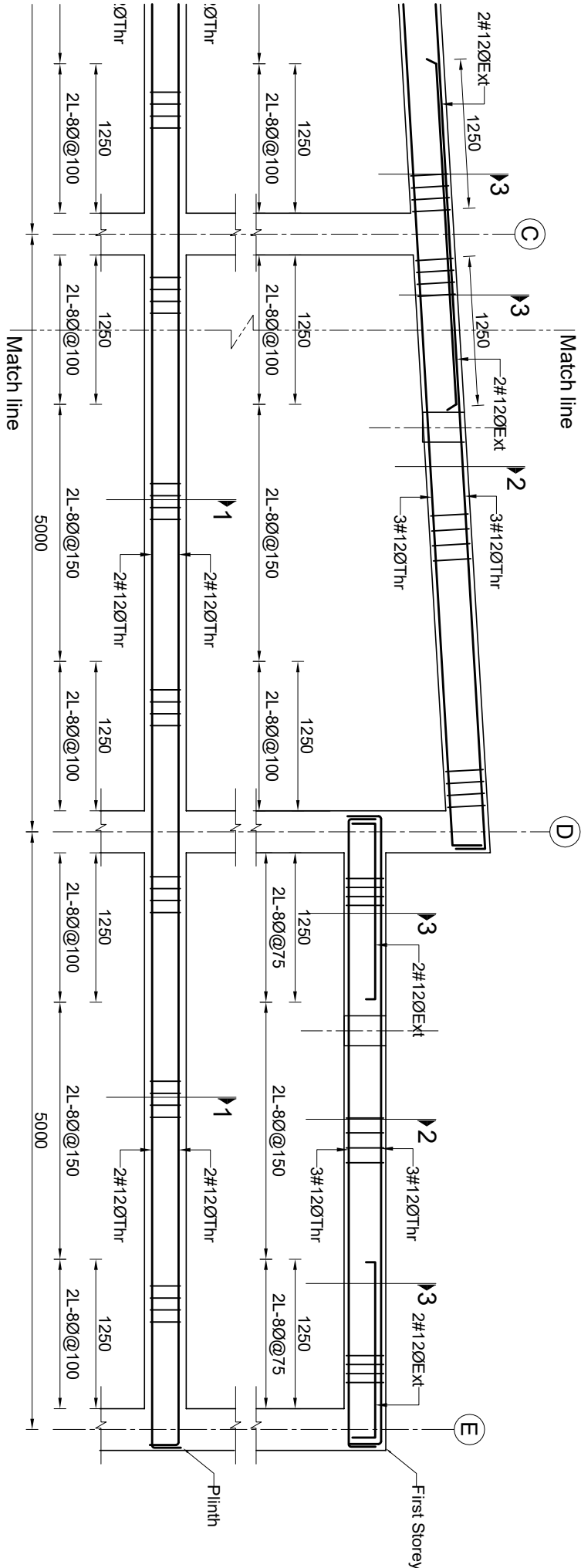
PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project



L-SECTION ALONG GRID AT (2-2) AND (3-3)

(SCALE 1:50)



L-SECTION ALONG GRID AT (2-2) AND (3-3)

(SCALE 1:50)

SHEET TITLE: L-Section Beam Details

STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

CONSULTANT:

DOHWA Engineering Co. Ltd.

In association with

ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,

and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



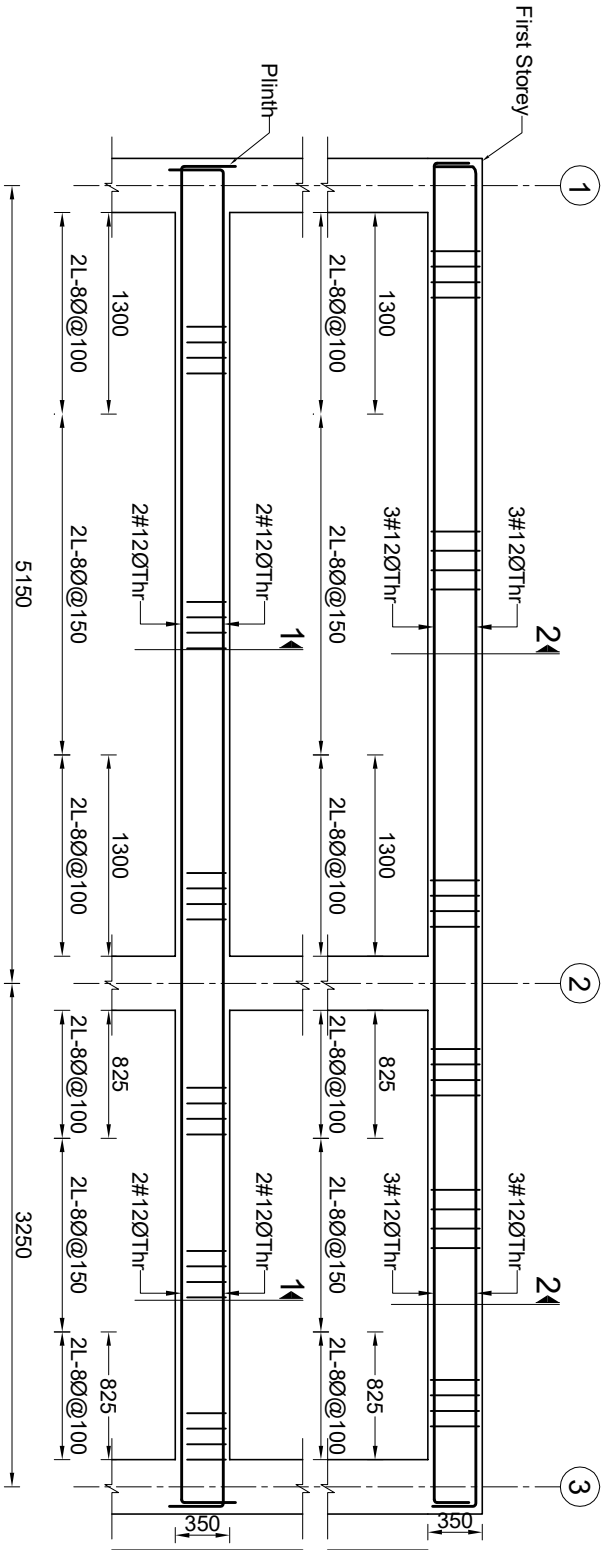
CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

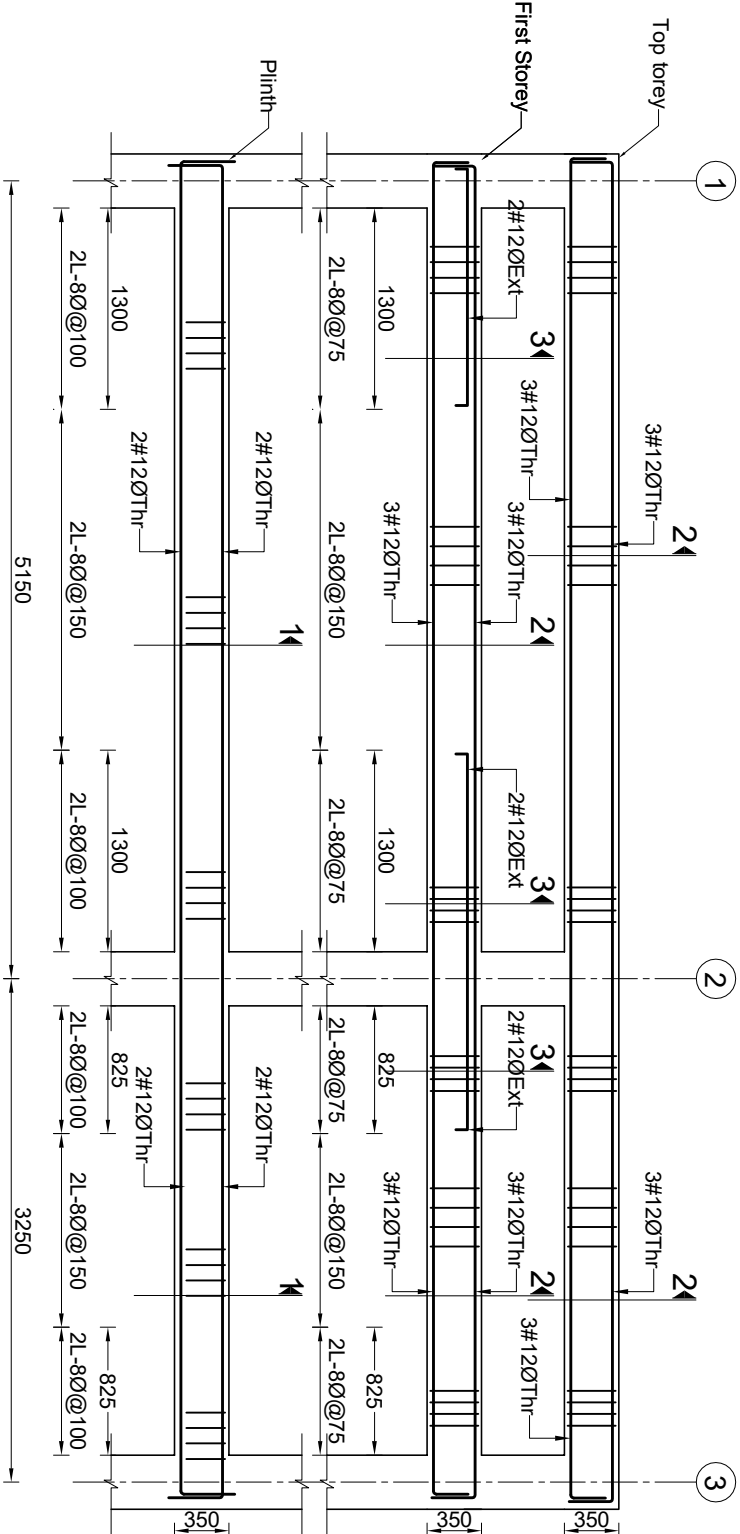
NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



L-SECTION ALONG GRID AT (A-A) ,(B-B)AND (C-C)

(SCALE 1:50)



L-SECTION ALONG GRID AT (D-D)

(SCALE 1:50)

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

L-Section Beam Details
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Approved By:

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST. 12

CONSULTANT:

DOHWA Engineering Co. Ltd.



In association with
ERMC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

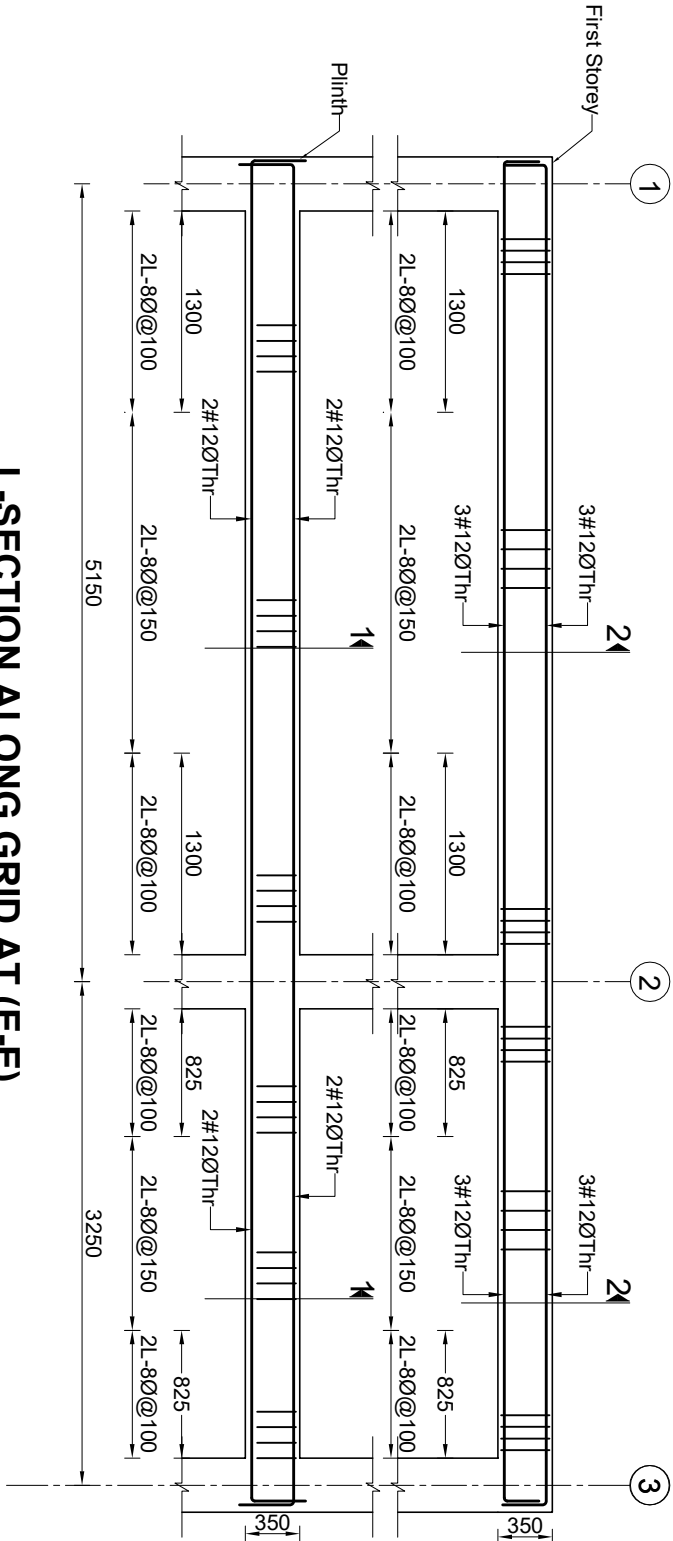
REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

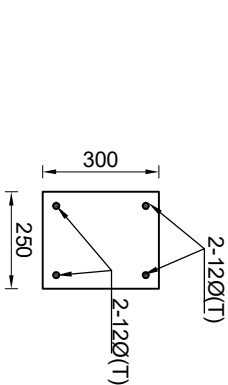
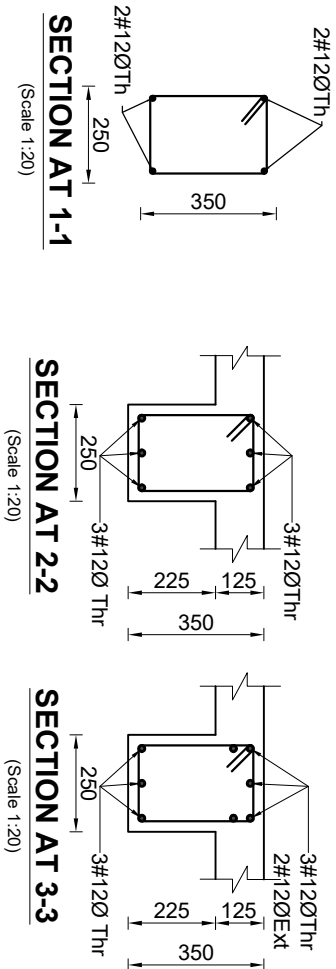
Building Design Authority(P) Ltd.- BN- UDAYA JV



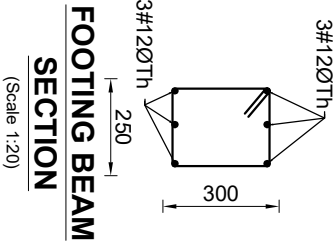
NOTE:
CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TM)



L-SECTION ALONG GRID AT (E-E)
(SCALE 1:50)



Secondary Plinth beam Section
stirrup 8Ø@ 100 at ends & 8Ø@ 150 at mid.
Scale 1:20



PROJECT TITLE
Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE: L-Section and X-Sectional Beam Details
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:
Reviewed By: Er. Ajay Shrestha	
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav	

PAPER SIZE: A3	SCALE: AS SHOWN
DATE: Feb, 2024	SHEET NO ST-13

CONSULTANT:
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In association with
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and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:
SUPERVISION & DESIGN CONSULTANT (SDC)
Building Design Authority(P) Ltd.- BN-UDAYA JV





Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

CLIENT:

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Slab Reinforcement Plan

STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Approved By:

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 14

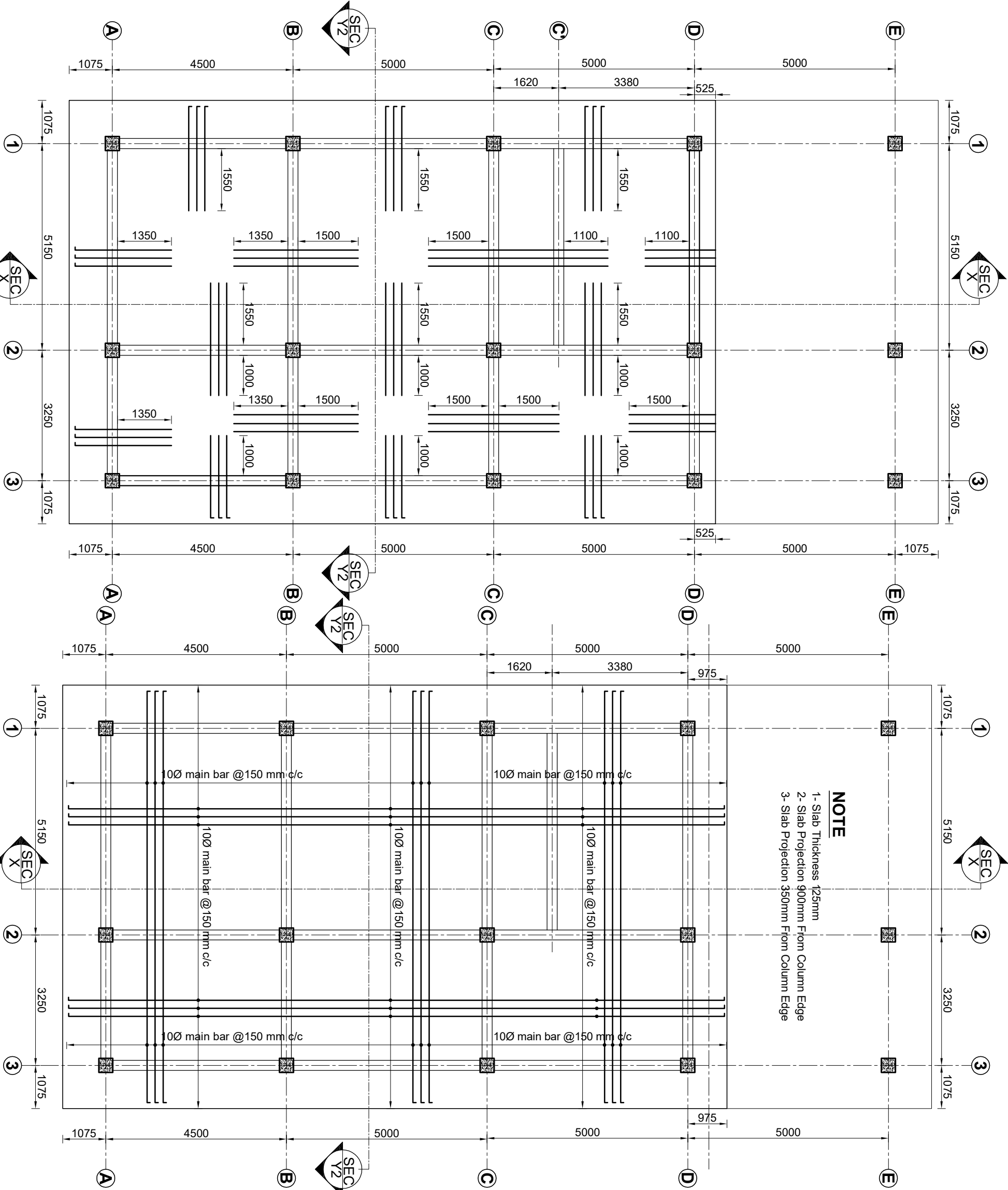
CONSULTANT:

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TOP EXTRA REINFORCEMENT PLAN OF SLAB (LVL+3600 TO +4490)

8Ø BAR @ 125 mm C/C

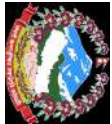
(SCALE 1:100)

BOTTOM REINFORCEMENT PLAN OF SLAB (LVL+3600 TO +4490)

8Ø BAR @ 125 mm C/C BOTH DIRECTION

(SCALE 1:100)

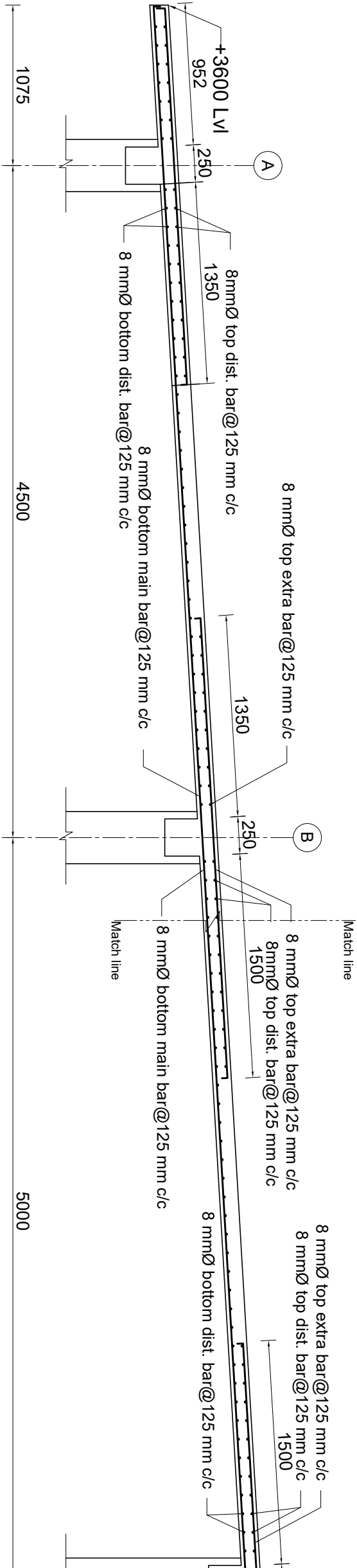
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Babarmahal, Kathmandu, Nepal

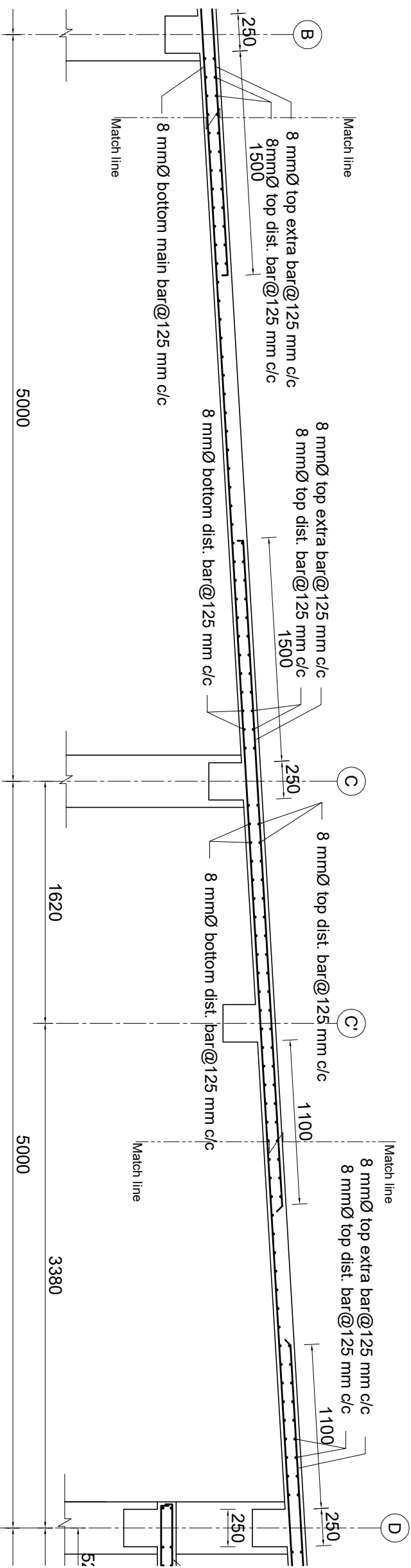
PROJECT TITLE

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Development Project

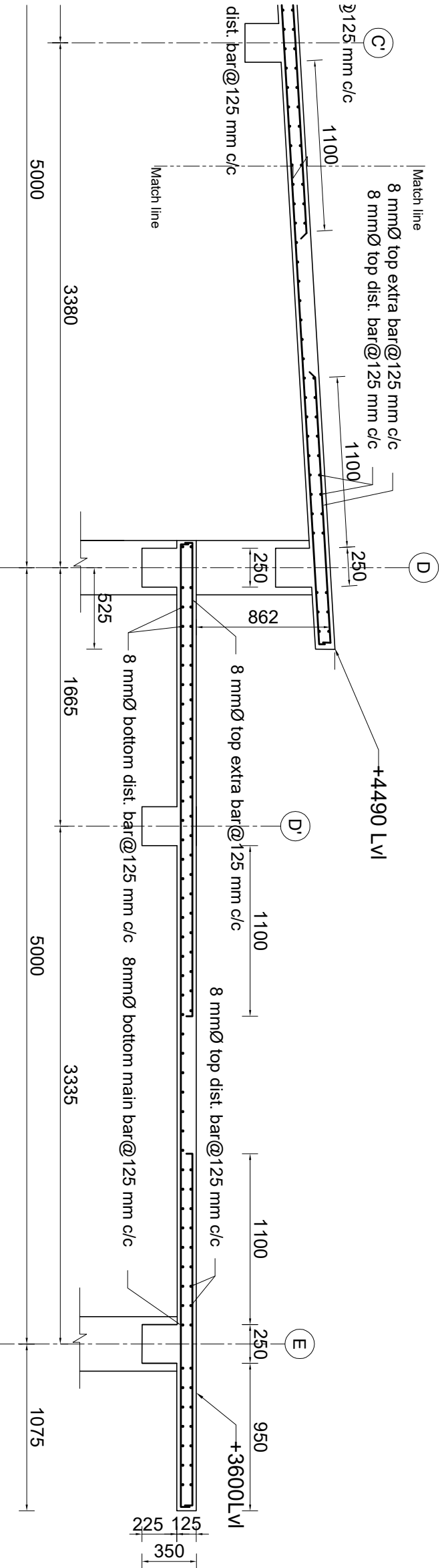


SLAB SECTION AT X-X

SLAB SECTION AT X-X



SLAB SECTION AT X-X



SLAB SECTION AT X-X

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Slab Section Details
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
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Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 16

CONSULTANT:

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NOTE:

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REBAR GRADE = Fe 500 (TMT)

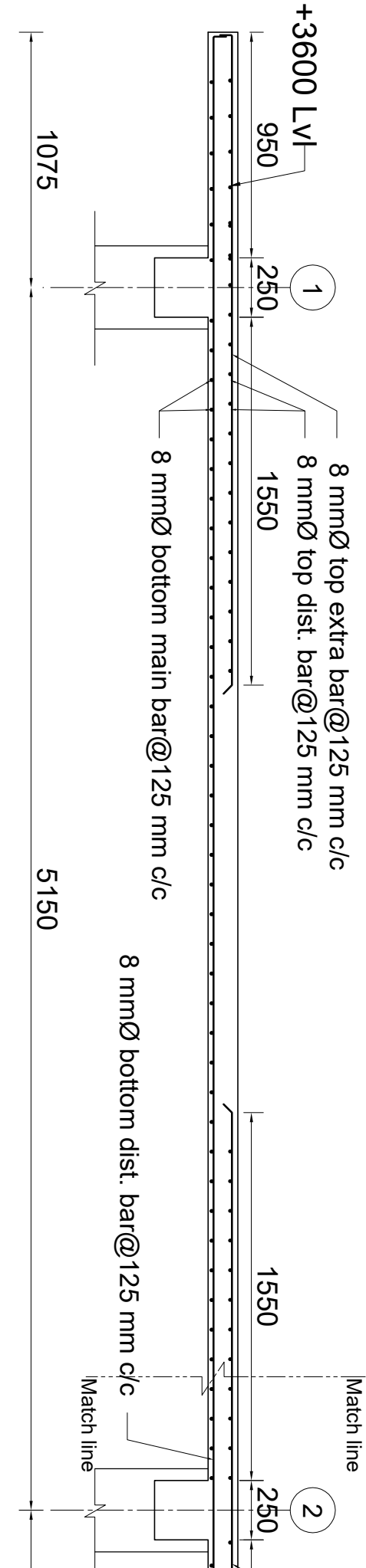
CLIENT:



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Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
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Development Project



NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)

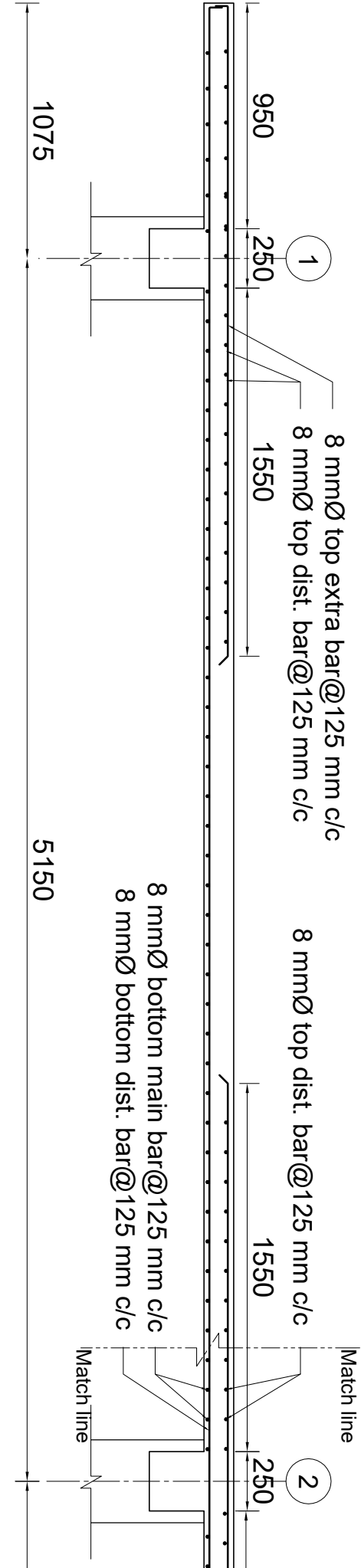
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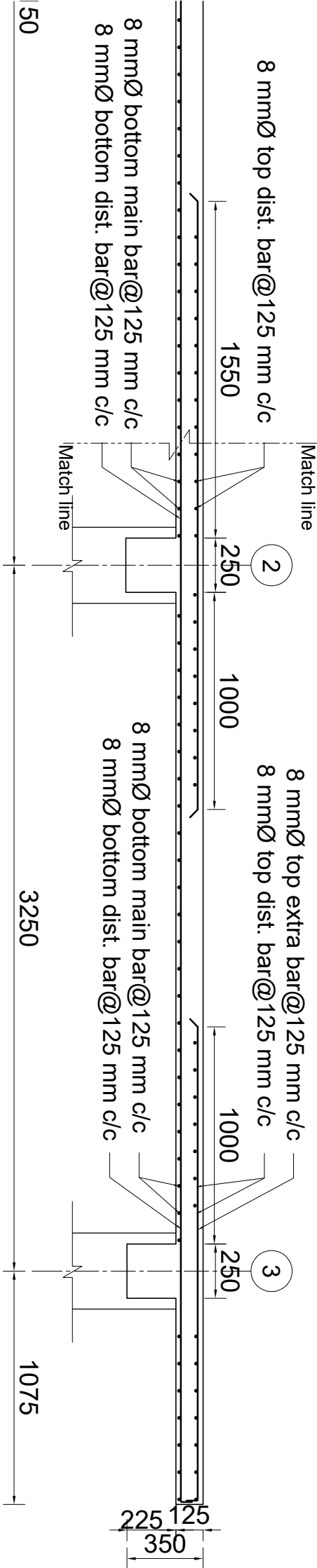
Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
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Development Project



SLAB SECTION AT Y2-Y2
(SCALE 1:50)



SLAB SECTION AT Y2-Y2
(SCALE 1:50)

ISSUES & REVISIONS	
NO	REVISION
1	18 th DEC 2024
2	14 th JAN 2026

SHEET TITLE: Slab Section Details
STAFF BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT
Team Leader:	Approved By:	
Reviewed By: Er. Ajay Shrestha		
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav		
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Building Design Authority(P) Ltd.- BN- UDAYA JV





Government of Nepal

Ministry of Urban Development

Department of Urban Development and Building Construction

Regional Urban Development Project

Project Coordination Office

Babarmahal, Kathmandu

STRUCTURAL DRAWINGS of STORAGE BLOCK

LUMBINI SANSKRITIK MUNICIPALITY

CONSTRUCTION

1. SETTING OUT

The setting out and the elevations of the different components of the structure shall be approved by the engineer prior to the start of any construction work.

2. REINFORCED CONCRETE

A. CONCRETE MIX AND PLACING

- a. Concrete mix shall meet the design concrete strength given under material.
- b. Concrete shall be deposited, vibrated and cured in accordance with the specifications.
- c. The contractor shall submit to the engineer for approval the pouring sequences for the concrete work.
- d. The contractor shall notify the engineer 48 hours prior to the pouring of any structural concrete, so an inspection can be made on all the forms and reinforcing
- e. Use of the admixture is permitted to produce proper slump and workability but subjected to the engineer approval addition of concrete at job site is not allowed.
- f. For two or more layers of reinforcing bars, use separator spacing @ 900 mm o/c and in no case shall be less than 2 separator. Clear distance between layers should not be less than 25 mm or larger bar diameters.
- g. Location of all the constructions or cold joints must be approved by the engineer/Architect.
- h. Pipes or duct exceeding one third the slab or wall thickness shall not be placed in structural concrete unless specifically detailed. Pipes may pass through structural concrete in sleeves but shall not be embedded therein
- i. Reinforcing bars, anchorage bolts, and other inserts shall be secured in place before pouring concrete bar placement and support wall be in accordance with recommend Indian standard practice.
- j. In general, the latest edition of the manual of standard for detailing concrete structure unless shown otherwise.

B. BAR BENDING, SPLICING AND PLACING

- a. The contractor shall submit to the engineer for approval all shop drawing indicating the bending, cutting, splicing and installation of all reinforcing bars.
- b. Bar splicing not indicated on drawing shall be subjected to the approval of engineer.
- c. Lapped splices shall be staggered where possible.
- d. Anchorage bolts, dowels and other embedded items are to be securely tied in place before concrete is poured.
- e. Typical standard hook details. (Refer Typical Drawing)
- f. Typical lap splice details. (Refer Refer Typical Drawing))

C. FORM WORK

- a. Forms shall be provided for all concrete indicated unless specified otherwise, forms shall be set true to line and grade and maintained so as to ensure competent work within the allowable tolerances specified and shall be mortar tight.
- b. Forms and their supports shall be designed so as not to damage previously placed structure.
- c. No construction load shall be supported on, nor any shoring removed from any part of structure in combination with the remaining forming and shoring systems has sufficient strength to support safely its weight and additional imposed load.
- d. Forms shall be removed in such manner as not to impair safety and serviceability of the structure.
- e. Schedule of stripping of forms will be as table: stripping time as per clause 11.3 of IS456:2000.

D. PROTECTION AND CURING OF CONCRETE

Concrete surfaces shall be protected from harmful effects of sun, wind and running water and shall be kept damp for at least 7 days.

Table : Stripping Time As per clause 11.3 of IS456:2000			
SN	Type of Formwork	Minimum Period Before Striking	Remake
1	Sides of Walls, Columns and Vertical Faces of beam	16 to 24 hours	
2	Soffit formwork of slabs (Props Left Under)	3 days	
3	Soffit formwork of beams (Props Left Under)	7 days	
4	Removal of Props of Slabs:		
	a. Slabs spanning uot 4.5m	7 days	
	b. Slabs spanning over 4.5m	14 days	
5	Removal of props for beams and arches		
	a. Span up to 6m	14days	
	b. Span voer 6m	21 days	

3. STRUCTURAL STEEL

- a. Hole size for anchorage bars
- b. Welded connections between members of moment frames shall be tested by non-destructive test method.
- c. Comply with Indian Standard for bearing, adequacy of temporary connection and alignment.
- d. Fabricator shall submit shop drawing for approval by the engineer and the owner prior to fabrication.

4. FOOTINGS

- a. All footing shall be on the natural soil.
- b. All engineered fill beneath slab and over footing shall be compacted to a dry density of at least 90% of the Modified Proctor maximum dry density.
- c. Foundation shall be inspected to ensure that loose soft or otherwise undesirable material (such as organic materials) is removed, and that the foundation will bear on the natural soil.

5. LIMITATION FOR FOOTING

- a. Foundations in areas under infill soil may require special design considerations, such as deeper foundations, reinforced foundation systems, or soil stabilization techniques
- b. Areas with infill soil must be assessed for differential settlement and localized instability. Differential settlements between blocks on solid ground and those over infill should be minimized.

UNITS

- 1. Do not scale drawings. Any missing dimension shall be furnished upon request.
- 2. All dimensions are in millimeter unless otherwise noted.

LIMITATION

The construction design has been done assuming quality materials and steel sections are available. Therefore, the design needs to be verified with the actual situation when the work progress and may require some changes during the implementation.

SYMBOL

- ϕ = Diameter of Rebar

CLIENT:



Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

General Notes-2
STORAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT
Team Leader:		Approved By:
Reviewed By: Er. Ajay Shrestha		
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav		
PAPER SIZE: A3		SCALE: AS SHOWN
DATE: Feb. 2024		SHEET NO ST- 02

CONSULTANT:

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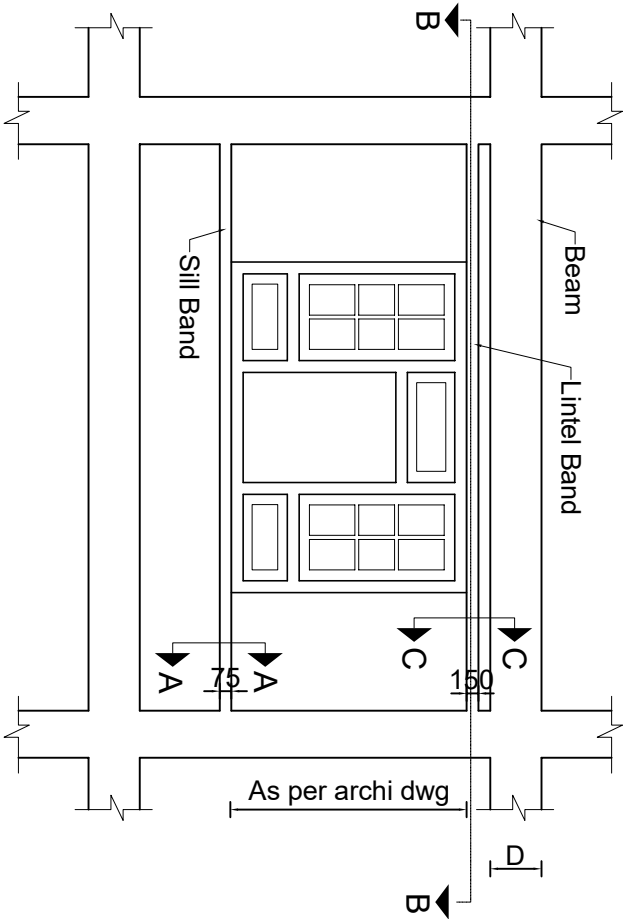
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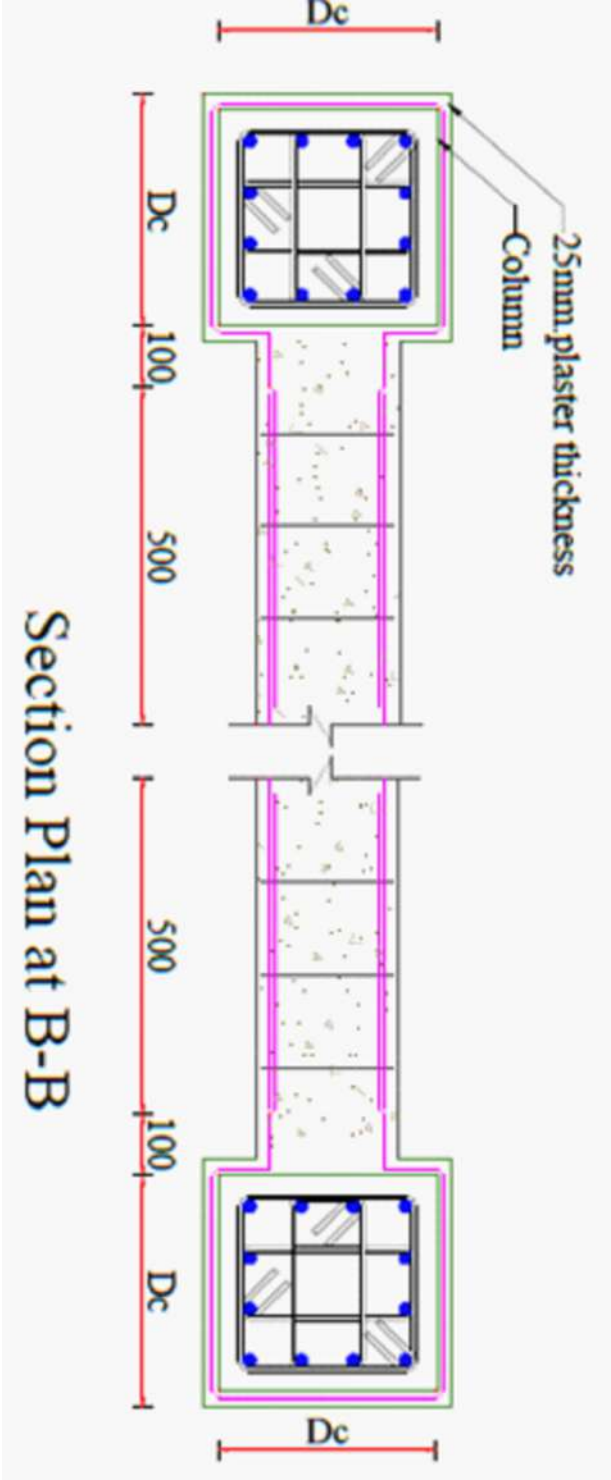
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HORIZONTAL DEVELOPMENT LENGTH (Ldh)		
Ldh For Grade Of Steel, fy = 500 MPa in mm		
Bar Diameter	Grade of Concrete, fck	
	M20	M25
12	277	247
16	369	330
20	461	412
25	576	515

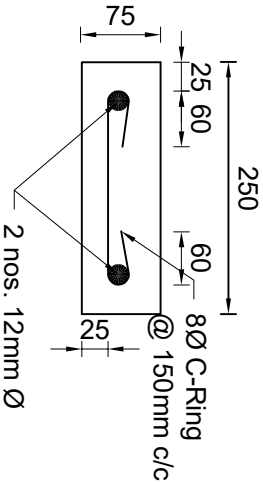
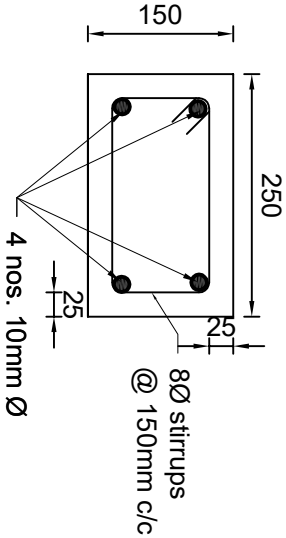


DEVELOPMENT LENGTH (ld)		
Grade of Steel, fy	Grade of Concrete, fck	In tension
500	20	57Ø
	25	49Ø



NOTES:

1. L_{dh} = HORIZONTAL DEVELOPMENT LENGTH, L_d = DEVELOPMENT LENGTH, LAP LENGTH
2. "TOP" BARS ARE HORIZONTAL WITH MORE THAN 300mm [12"] OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "BOT" BARS.
3. SPLICE LENGTHS SHOWN ARE FOR CLEAR SPACING NOT LESS THAN 2Ø, CONCRETE COVER NOT LESS THAN Ø.
4. ALL THE REINFORCEMENT DETAILING SHALL COMPLY WITH THE REQUIREMENT OF IS 13920:2016 (DUCTILE DETAILING OF REINFORCED CONCRETE STRUCTURES SUBJECTED TO SEISMIC FORCES-CODE FOR PRACTICE)



CLIENT:



Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS		
NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE: Typical Drawings-2
STORAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT
Team Leader:		Approved By:
Reviewed By: Er. Ajay Shrestha		
Designed By: Er. Enu Rai 17819 Civil "A"		
Er. Arbind Yadav		
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DATE: Feb. 2024	SHEET NO ST- 04	

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Mid Baneshwor, Kathmandu

REVIEWED BY:

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Building Design Authority(P) Ltd.- BN- UDAYA JV



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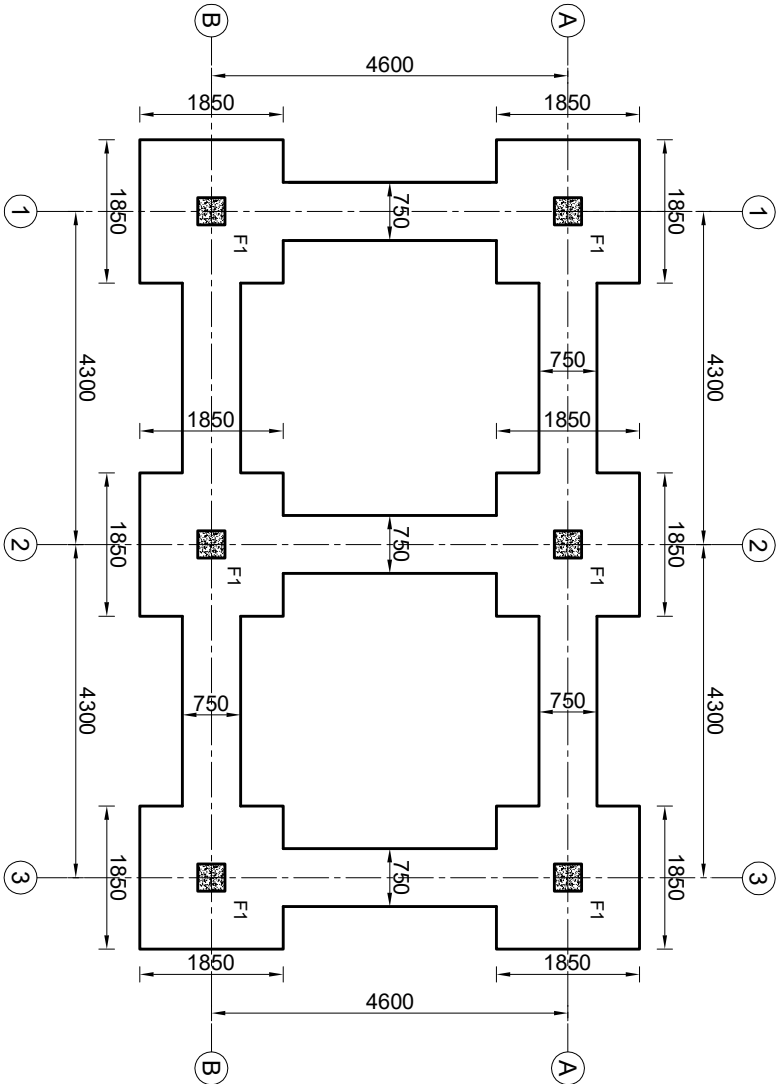
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Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

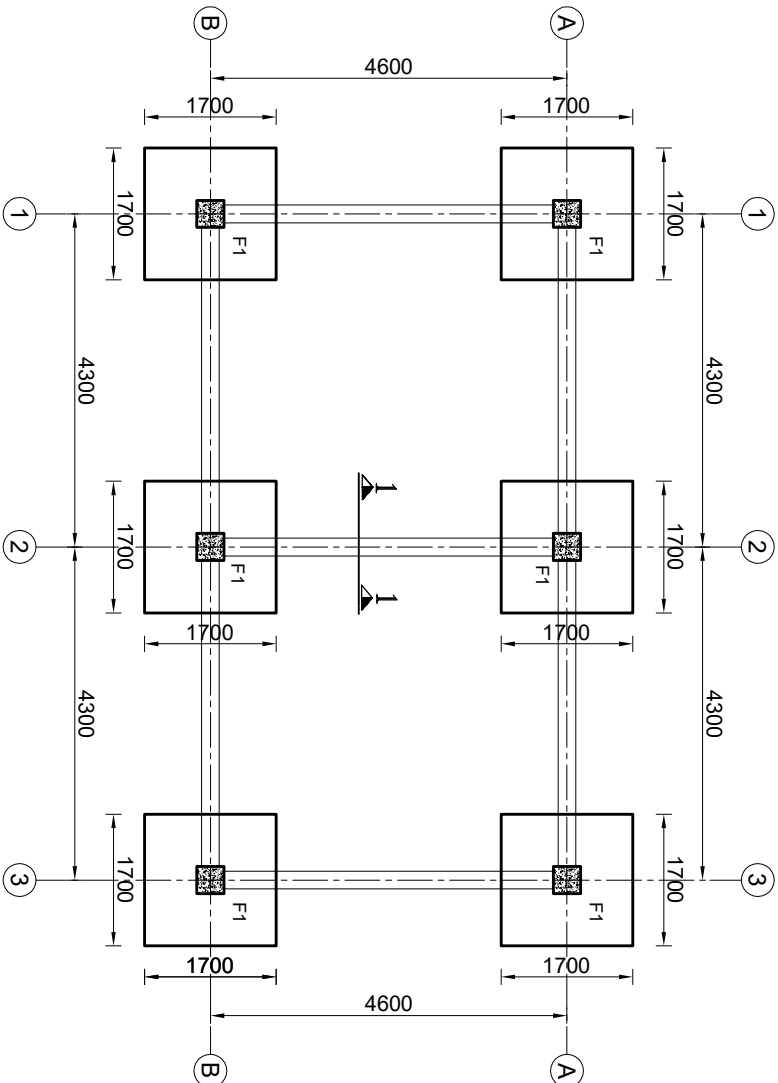
Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



TRENCH PLAN
(SCALE 1:100)



FOOTING LAYOUT PLAN
(SCALE 1:100)

NOTE

- All Column (C1) 350X350
- Slab Projection 900mm From Column Edge

SHEET TITLE:

Footing Layout Plan
STORAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

CONSULTANT:

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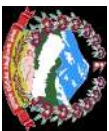
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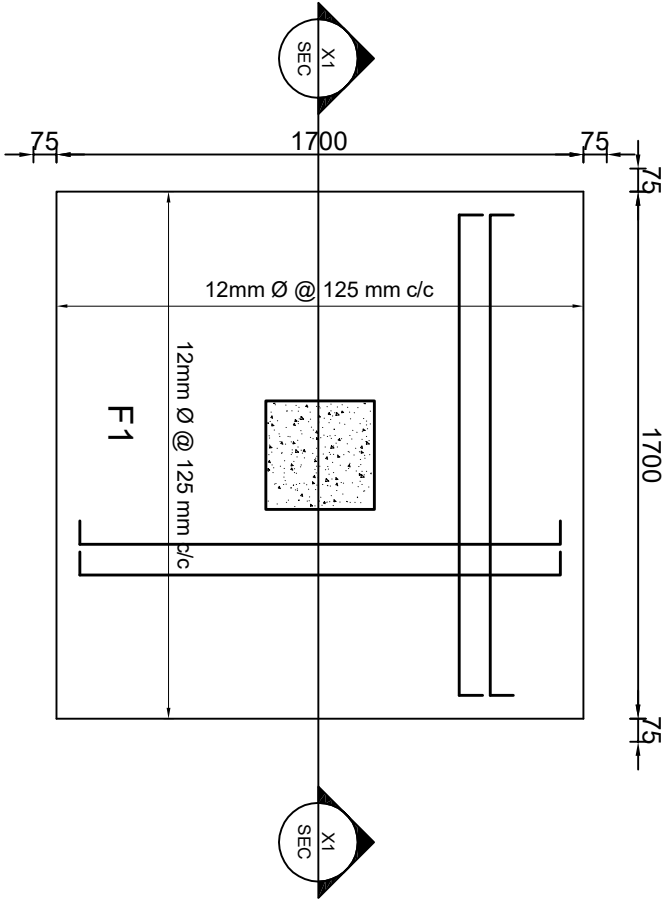


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PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

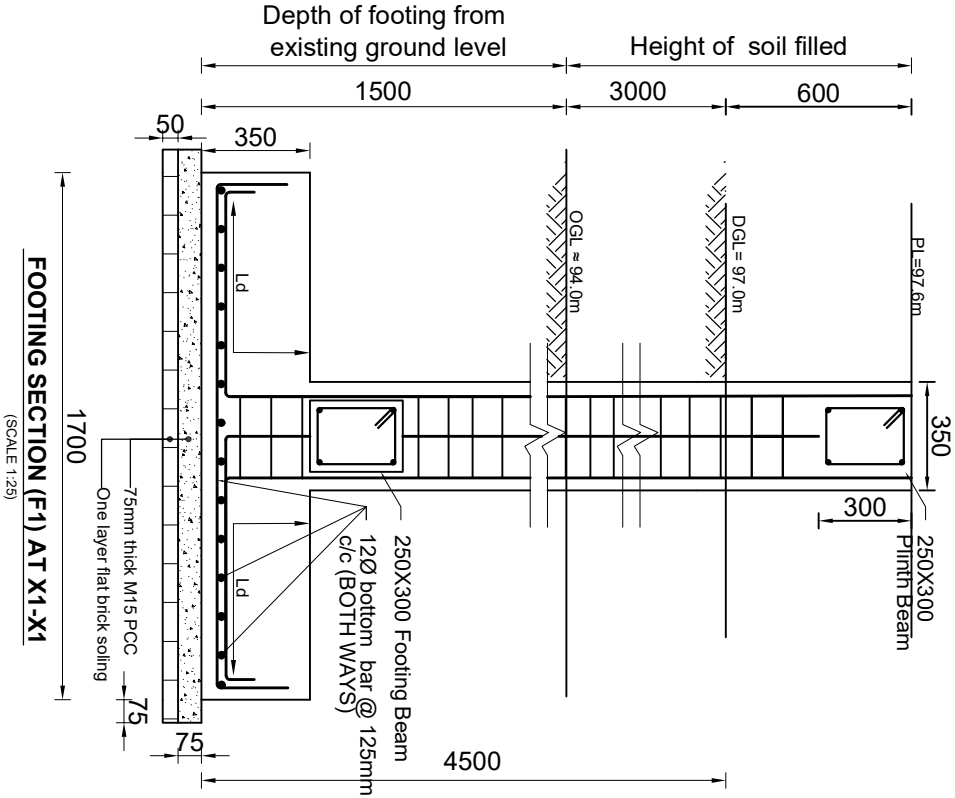
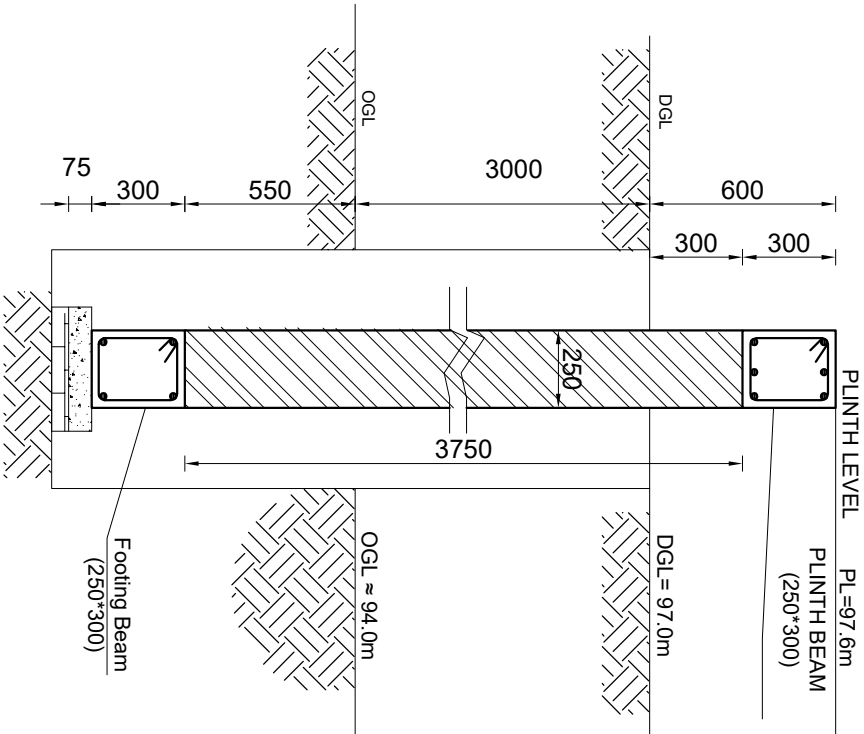
FOOTING PLAN (F1)
(SCALE 1:25)



NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)

TOE WALL UNDER PLINTH BEAM
Section 1-1
(Scale 1:25)



ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Footing Details
STORAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Approved By:

Reviewed By:
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Designed By:
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Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 06

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Regional Urban Development Project (RUDP)
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Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

[illegible]

SHEET TITLE

STORAGE BLOCK

STORAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

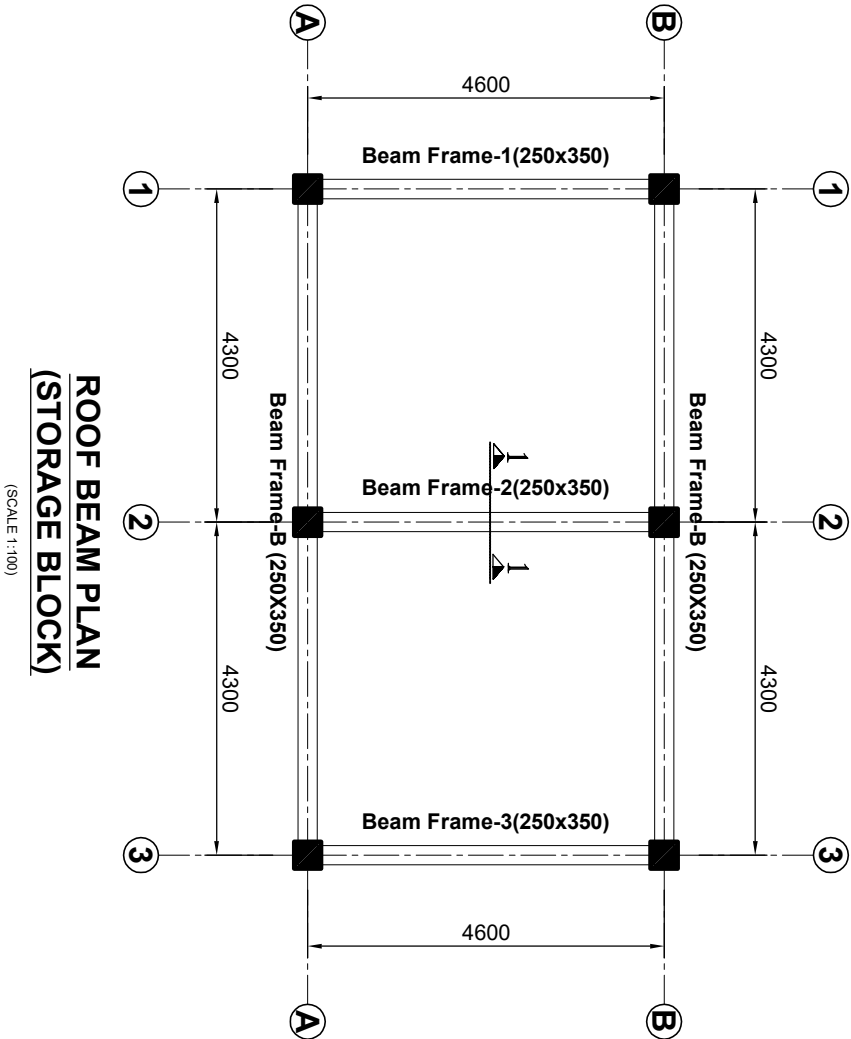
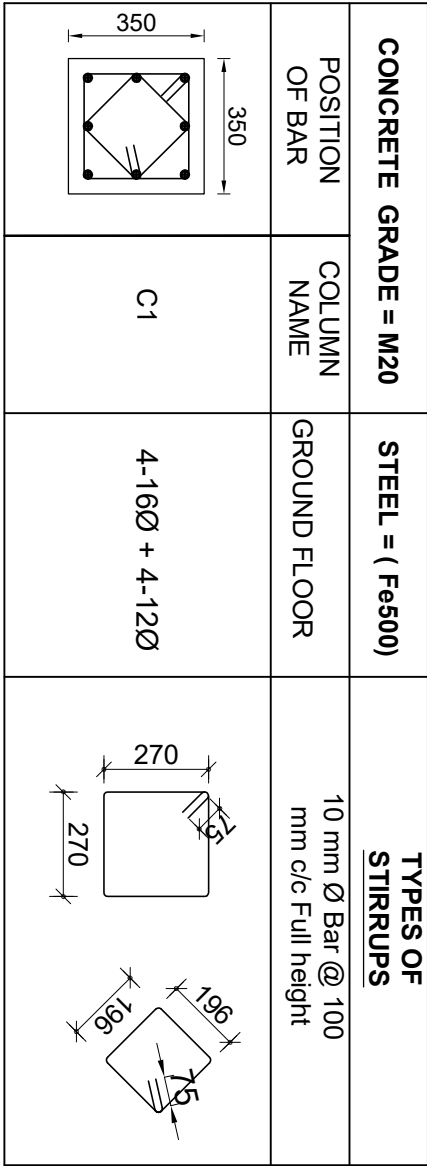
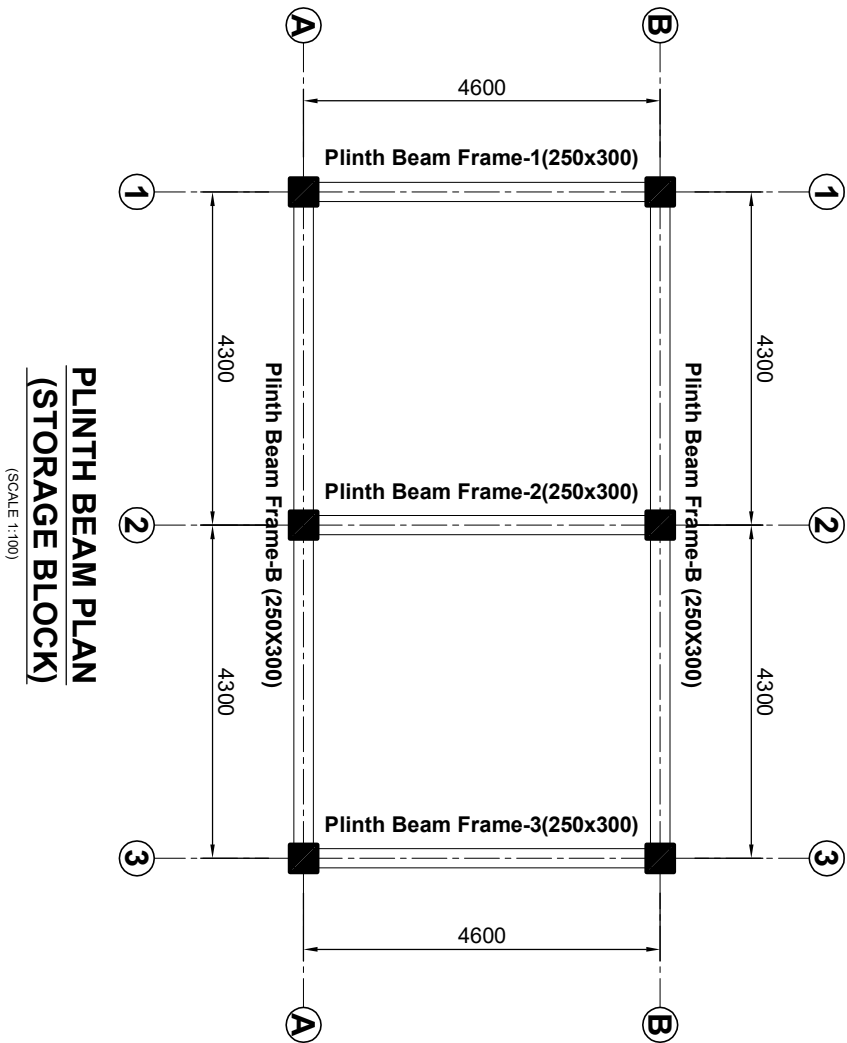
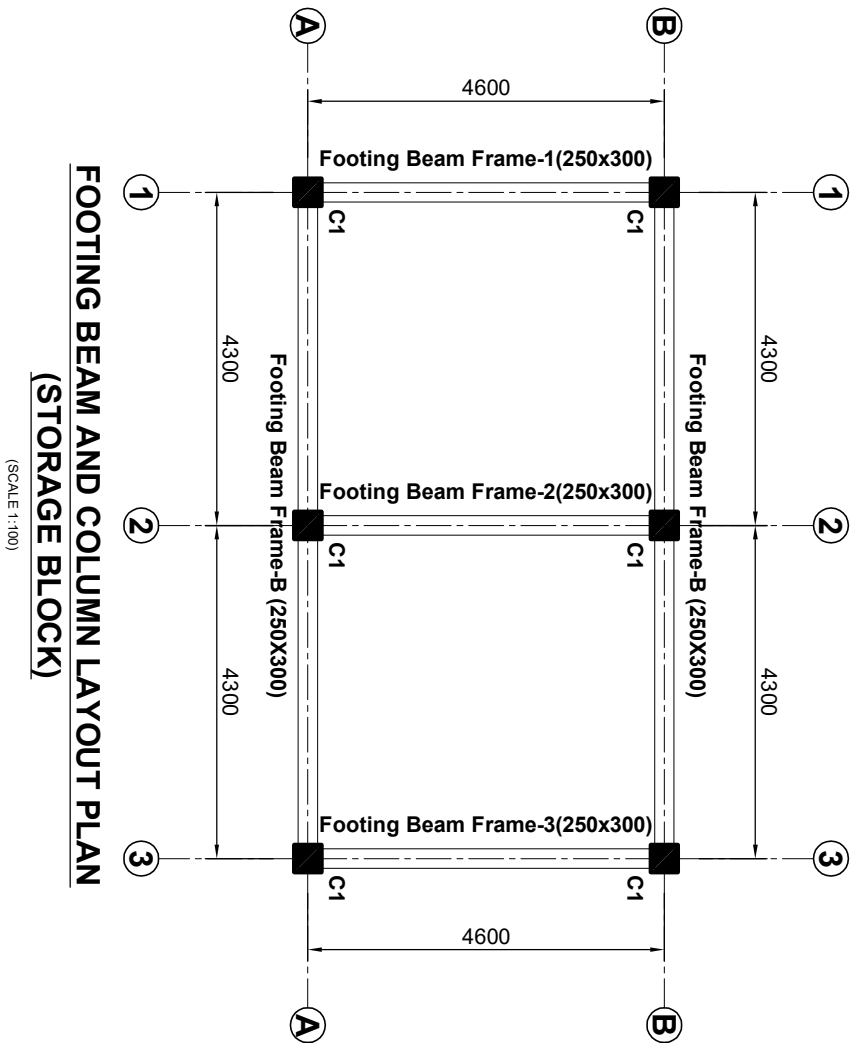
CONSULTANT		CLIENT	
Team Leader:		Approved By:	
Reviewed By: Er. Ajay Shrestha			
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav			
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SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN-UDAYA JV



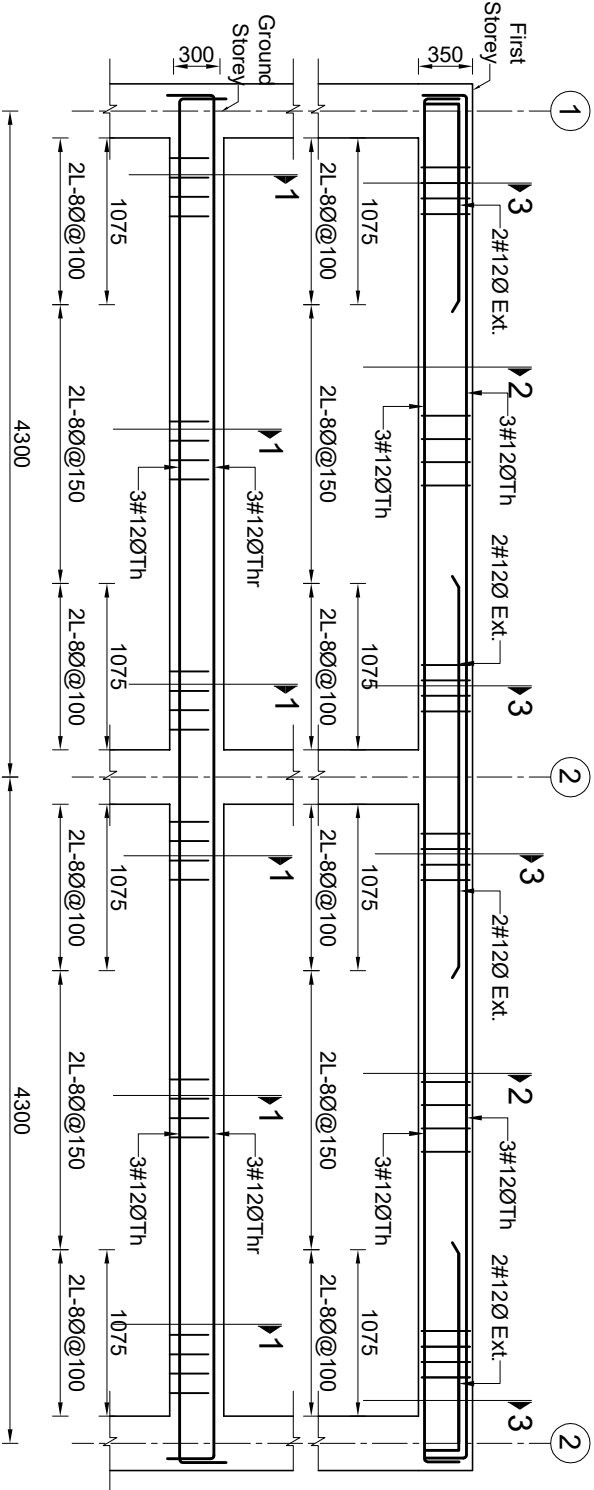
NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



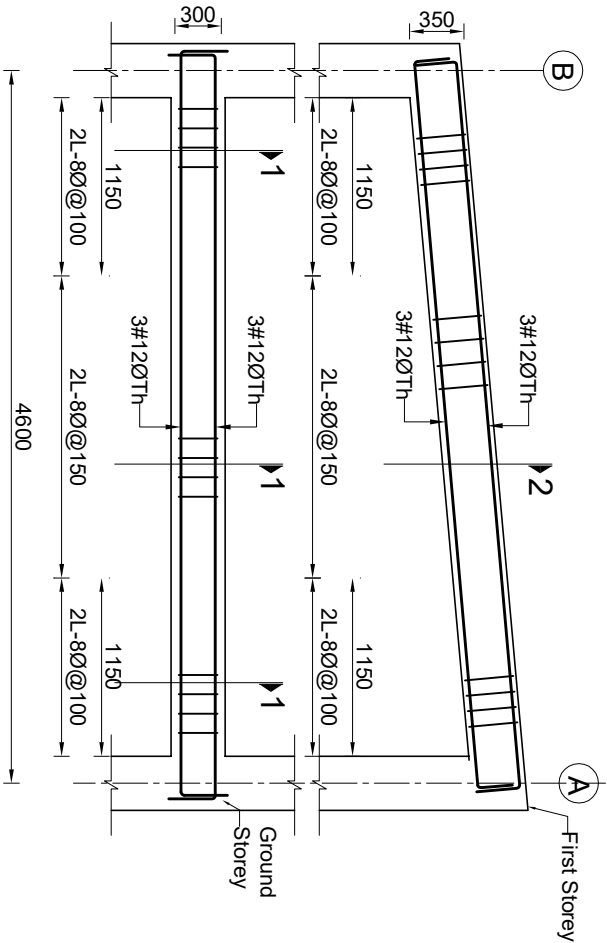
CLIENT:
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Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

NOTE:
CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



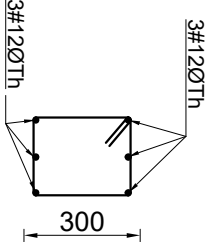
L-SECTION ALONG GRID AT (A-A) AND (B-B)

(SCALE 1:50)



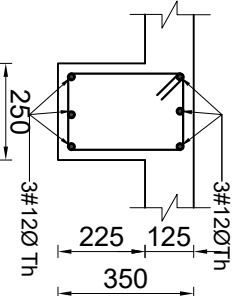
L-SECTION ALONG GRID AT (1-1), (2-2) AND (3-3)

(SCALE 1:50)



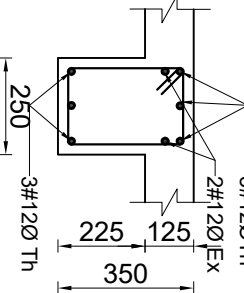
SECTION AT 1-1

(Scale 1:20)



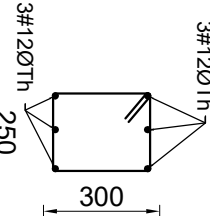
SECTION AT 2-2

(Scale 1:20)



SECTION AT 3-3

(Scale 1:20)



FOOTING BEAM SECTION

(Scale 1:20)

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE: L-Section and X-Sectional Details of Beam
STORAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
------------	--------

Team Leader: Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3 **SCALE:** AS SHOWN

DATE: Feb, 2024 **SHEET NO** ST- 08

CONSULTANT: DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

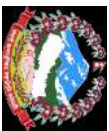


REVIEWED BY: SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



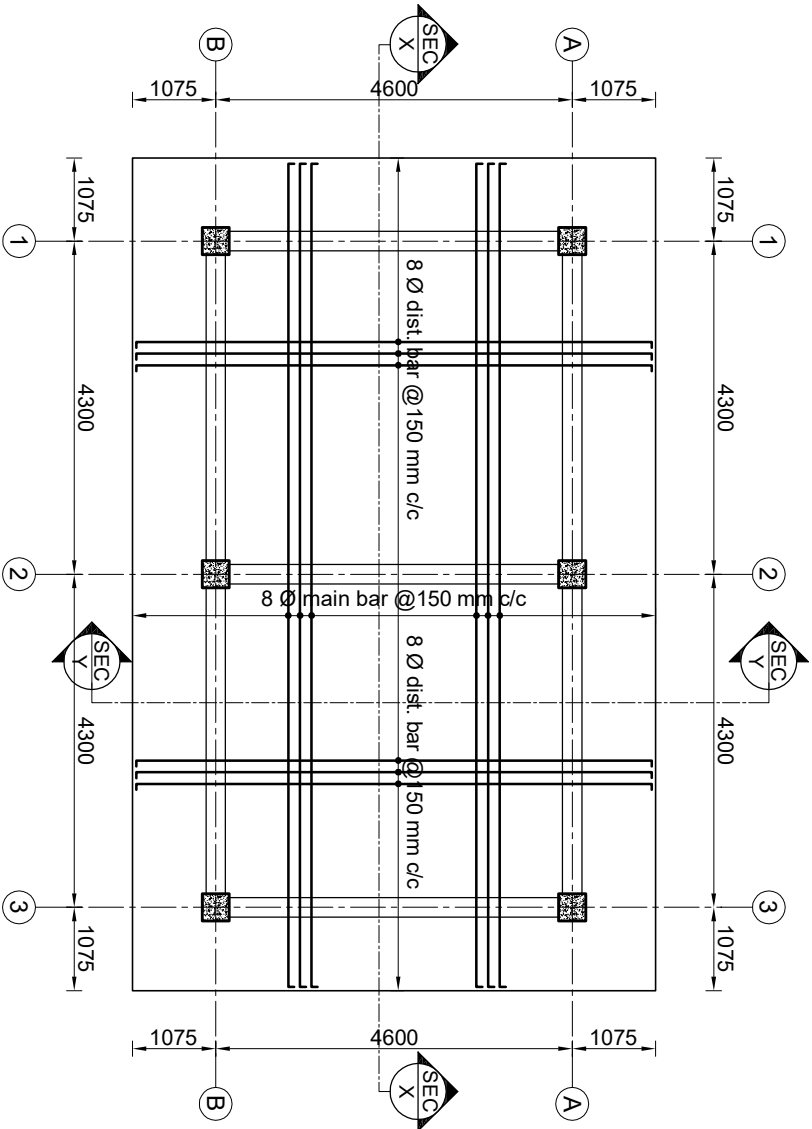
CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

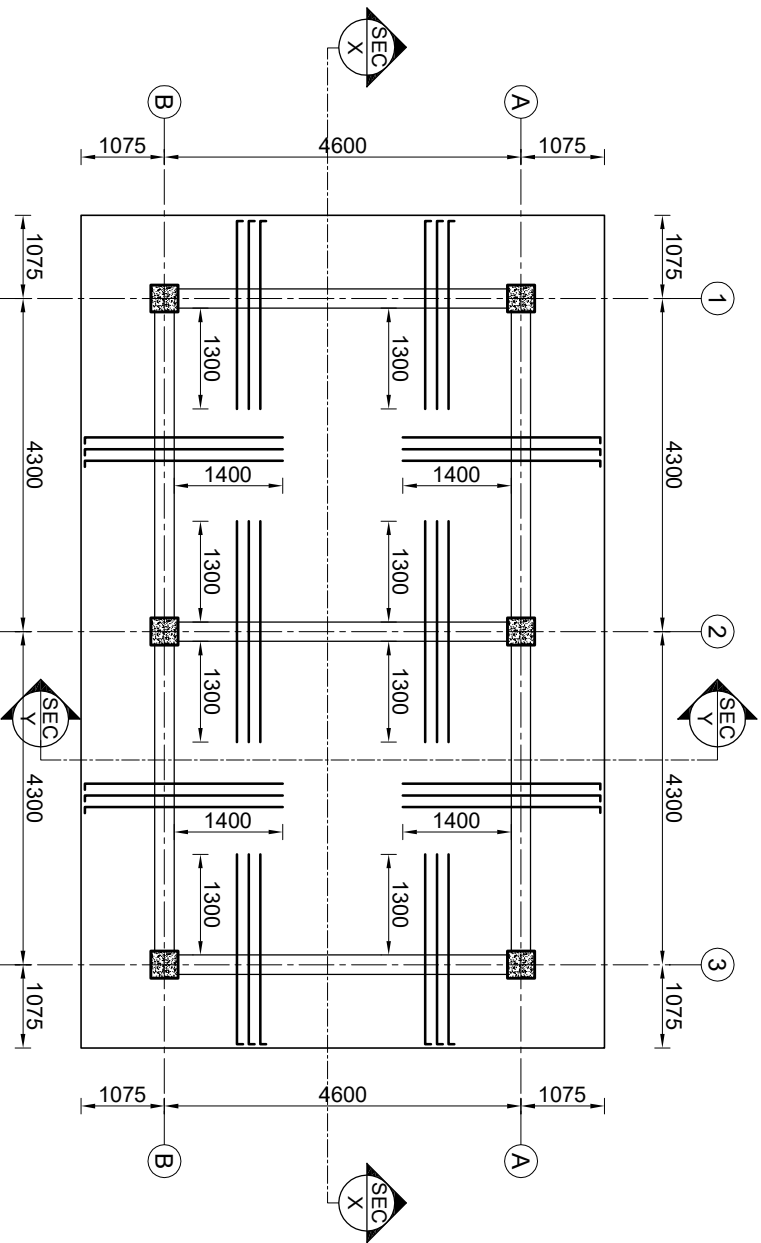
NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



BOTTOM REINFORCEMENT PLAN OF ROOF SLAB

8Ø BAR @ 150 mm C/C BOTHWAY
(SCALE 1:100)



TOP EXTRA REINFORCEMENT PLAN OF ROOF SLAB

8Ø BAR @ 150 mm C/C
(SCALE 1:100)



PROJECT TITLE
Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE: Slab Reinforcement Plan
STORAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT
Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 09

CONSULTANT:
DOHWA Engineering Co. Ltd.
In association with
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and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu



REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV

NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)

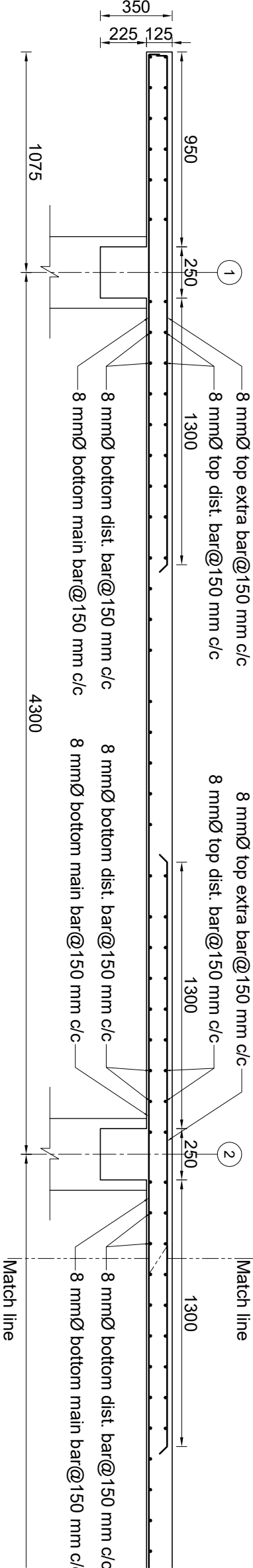
CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

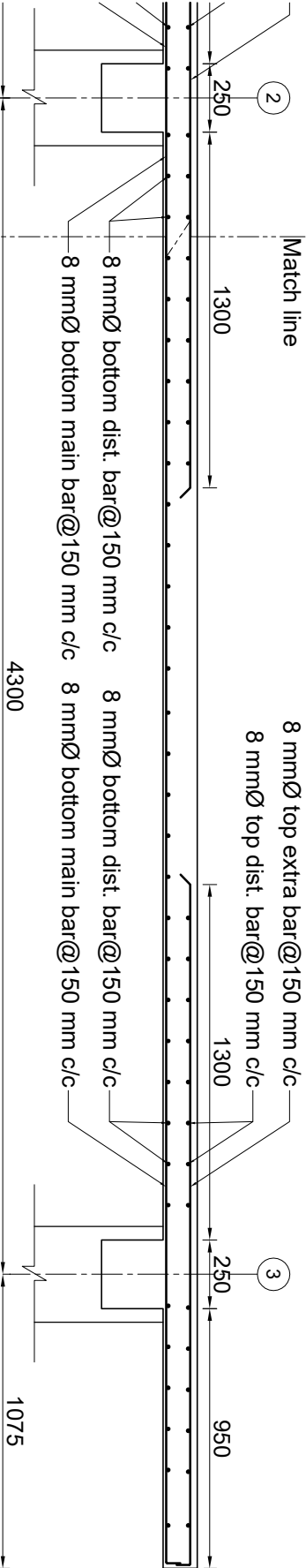
PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project



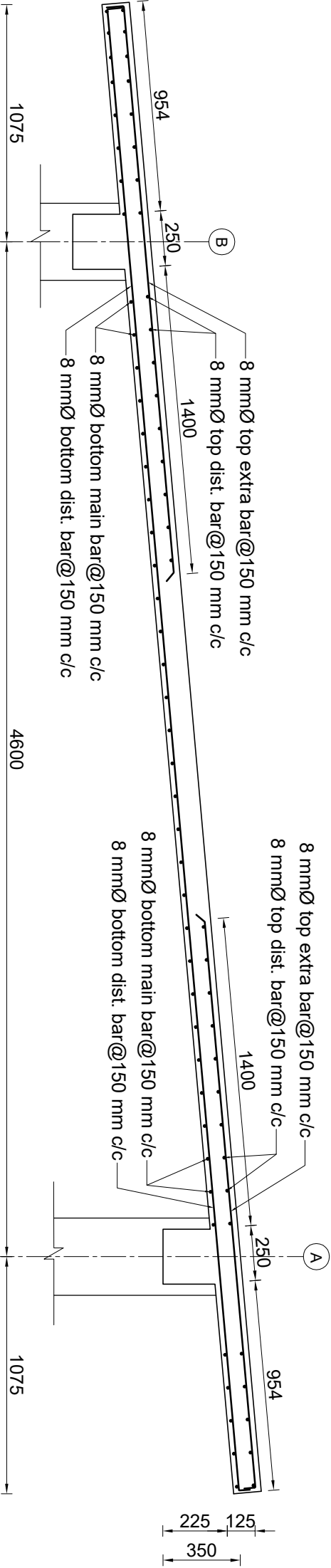
SLAB SECTION AT X-X

(SCALE 1:25)



SLAB SECTION AT X-X

(SCALE 1:25)



SLAB SECTION AT Y-Y

(SCALE 1:25)

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Slab Details
STORAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST-10

CONSULTANT:

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and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV





Government of Nepal

Ministry of Urban Development

Department of Urban Development and Building Construction

Regional Urban Development Project

Project Coordination Office

Babarmahal, Kathmandu

STRUCTURAL DRAWINGS of GARAGE BLOCK (MASONRY)

LUMBINI SANSKRITIK MUNICIPALITY

Structural Drawing	
Name of Sheet	Sheet Number
GARAGE BLOCK: GARAGE MASONRY DRAWINGS	
Cover Page	CP
Table of Contents	00
General Notes	01
Trench and Footing Plan and Section	02
Footing Sections	03
Plinth and Roof Beam Plan	04
L-Section and X-Sectional Beam Details	05
Reinforcement and Band Details	06
Reinforcement Details for Bands	07
Top and Bottom Reinforcement Plan of Slab	08
Slab Sections	09

PROJECT TITLE	
Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project	
ISSUES & REVISIONS	
NO	DATE
1	18 th DEC 2024
2	14 th JAN 2026
SHEET TITLE: Table of Contents	
GARAGE BLOCK	
SITE INFORMATION:	
NAME: Bus Terminal	
AREA:	
LOCATION: Lumbini Sanskritik Municipality	
CONSULTANT	CLIENT
Team Leader:	Approved By:
Reviewed By: Er. Ajay Shrestha	
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav	
PAPER SIZE: A3	SCALE: AS SHOWN
DATE: Feb. 2024	SHEET NO ST- 00

NOTE:

CONCRETE GRADE = M20
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CLIENT:



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Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Trench and Footing Plan and Section
GARAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA: LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Approved By:

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 02

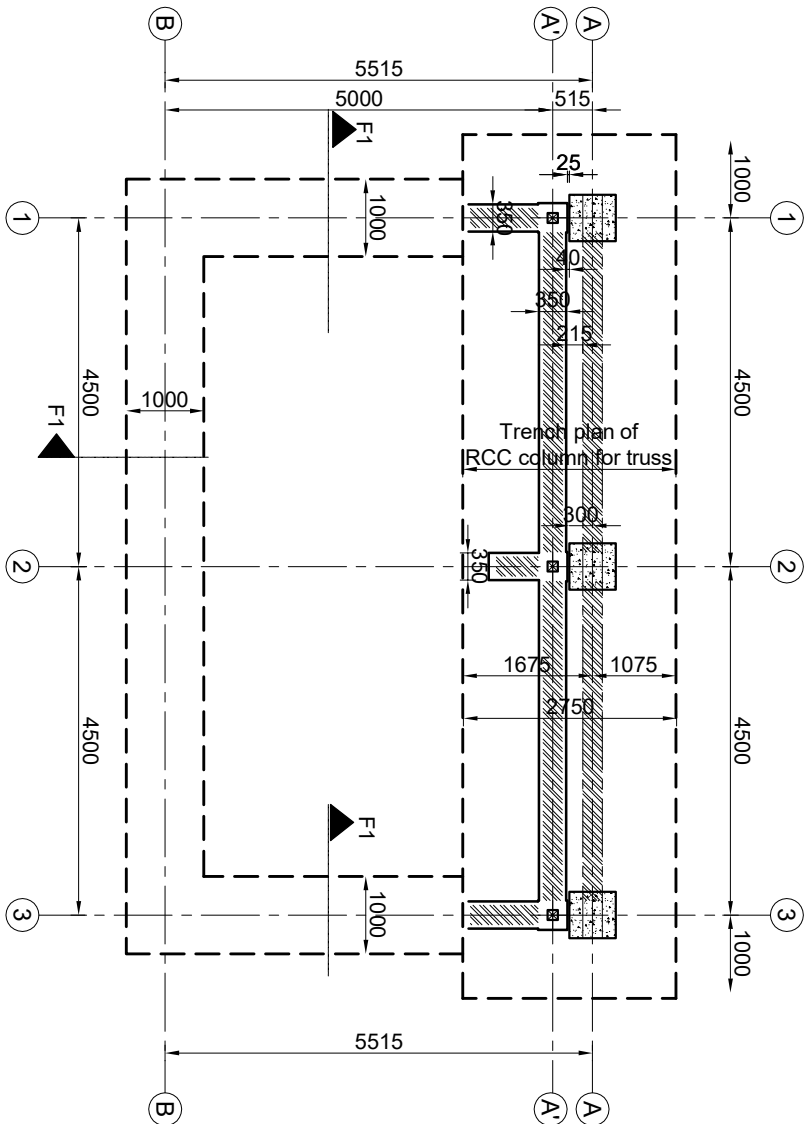
CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
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and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

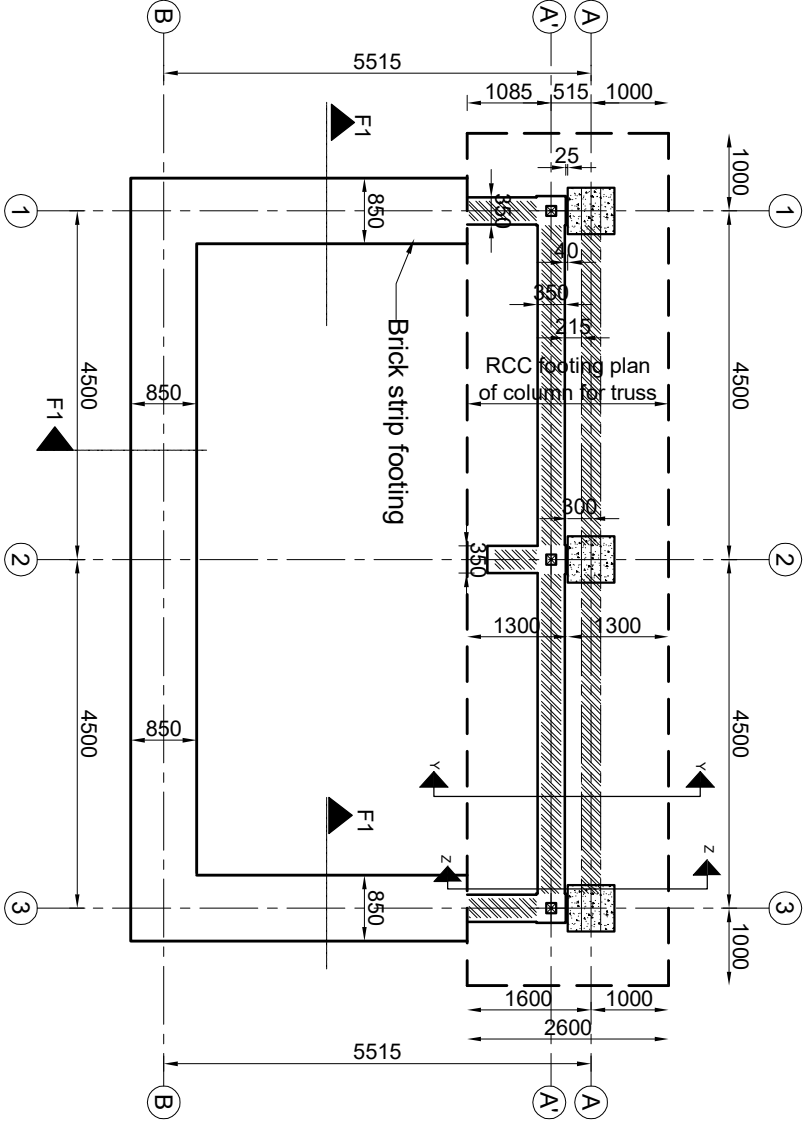
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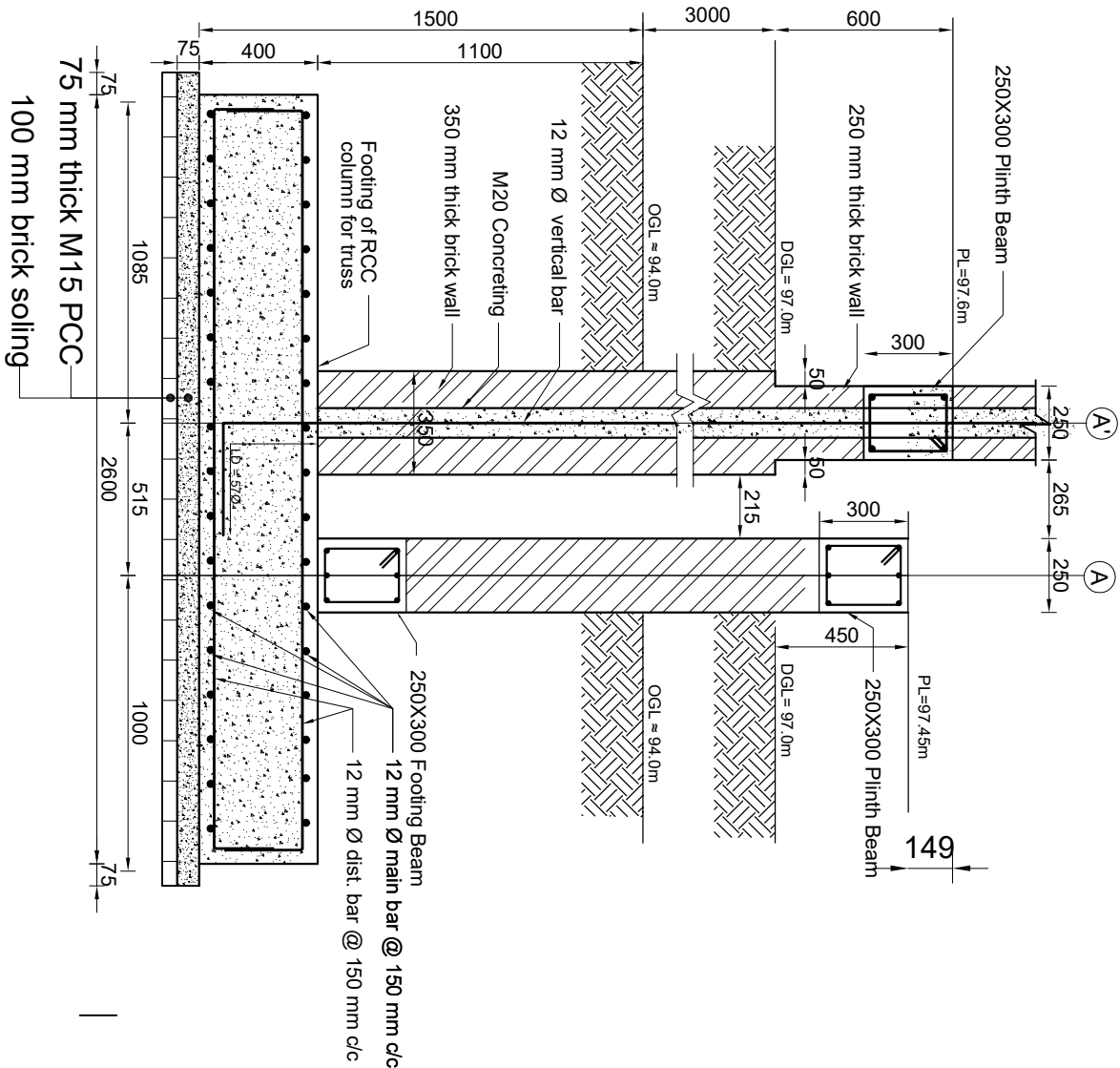
Building Design Authority(P) Ltd.- BN- UDAYA JV



TRENCH PLAN (MASONRY BLOCK)
(Scale 1:100)



FOOTING PLAN (MASONRY BLOCK)
(Scale 1:100)



FOOTING SECTION AT Y-Y
(SCALE 1:25)

NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)

CLIENT:



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Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS		
NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Footing Sections
GARAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT	
Team Leader:		Approved By:	
Reviewed By: Er. Ajay Shrestha			
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav			
PAPER SIZE: A3		SCALE: AS SHOWN	
DATE: Feb. 2024		SHEET NO ST- 03	

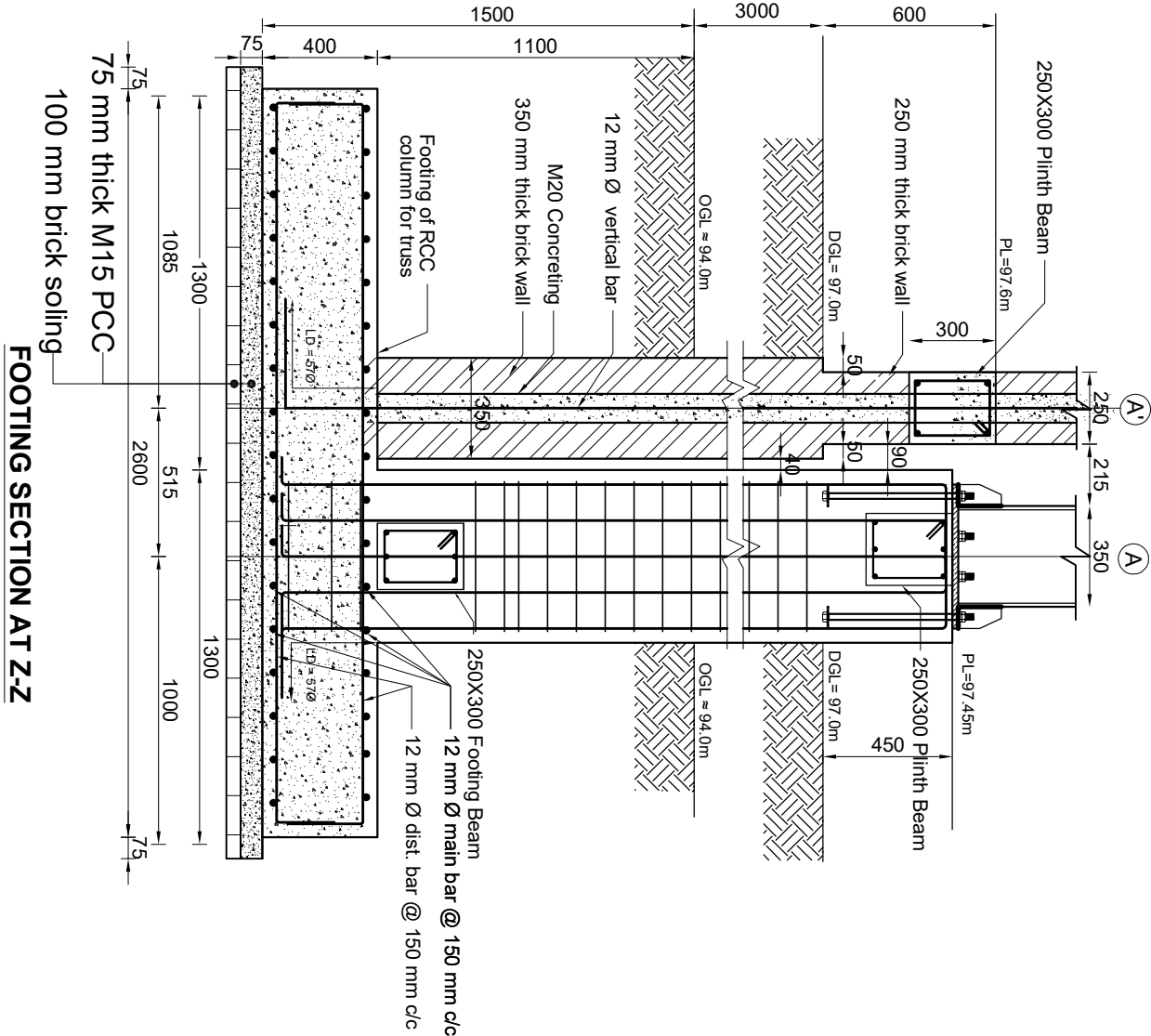
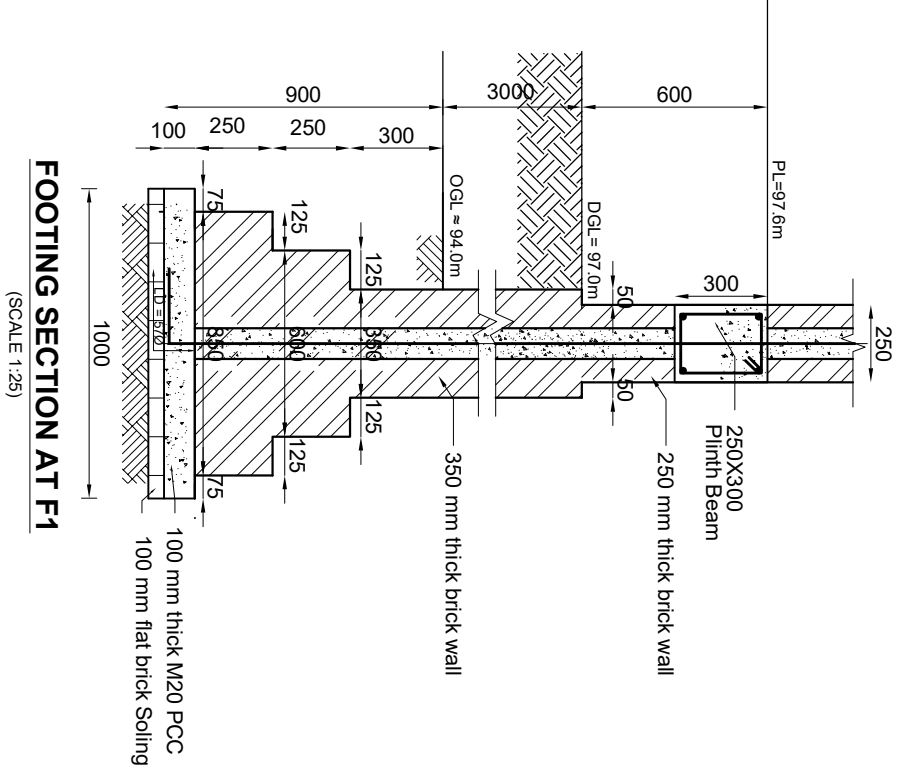
CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

[illegible]

Plan

CONSULTANT		CLIENT	
Team Leader:	Reviewed By: Er. Alay Shrestha	Approved By:	
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav			
PAPER SIZE: A3		SCALE: AS SHOWN	
DATE: Feb, 2024		SHEET NO ST-04	

DOI: 10.1002/for

DOHWA
ENGINEERING

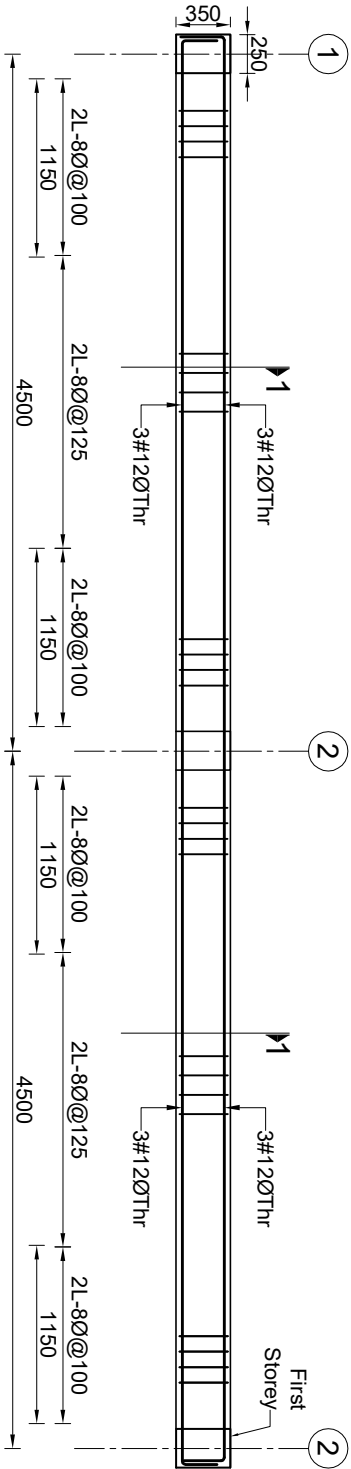
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LITANT (SDC)



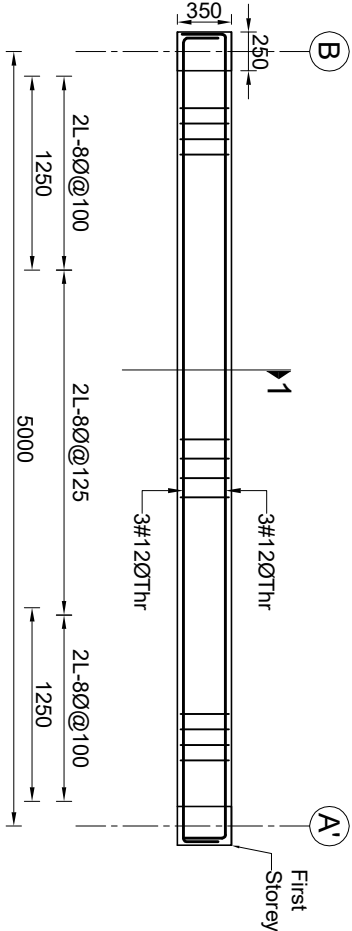
NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



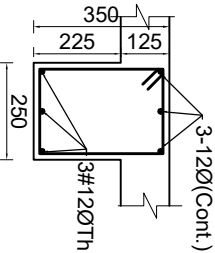
L-SECTION ALONG GRID AT(A'-A') AND (B-B)

(SCALE 1:50)



L-SECTION ALONG GRID AT(1-1),(2-2) AND (3-3)

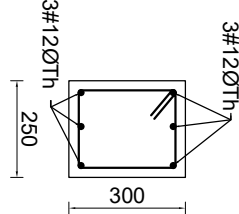
(SCALE 1:50)



Stirrups: 2L-8Ø @100c/c at ends
2L-8Ø @125c/c at mid

SECTION AT 1-1

(Scale 1:20)



Stirrups: 2L-8Ø @100c/c at ends
2L-8Ø @125c/c at mid

PLINTH BEAM SECTION

(Scale 1:20)

CLIENT:

Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal



PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

L-Section and X-Sectional Beam Details
GARAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb, 2024

SHEET NO ST- 05

CONSULTANT:

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Mid Baneshwor, Kathmandu



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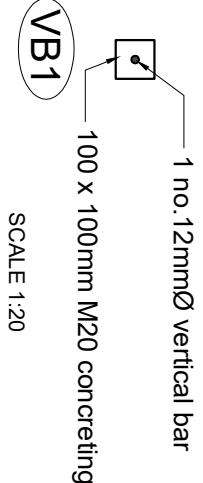
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV

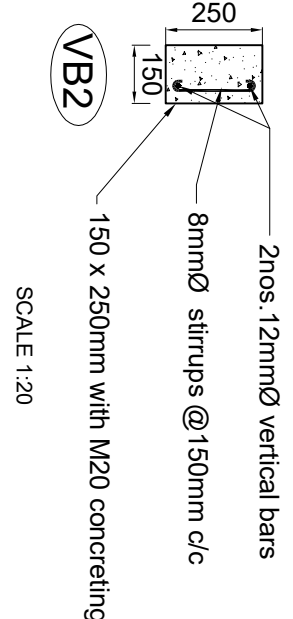


VERTICAL REINFORCEMENT

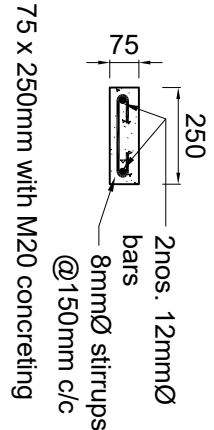
For Corners and Wall Junctions:



For Sides of Openings/ Middle of Wall Length:

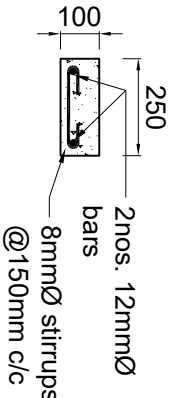


HORIZONTAL REINFORCEMENT



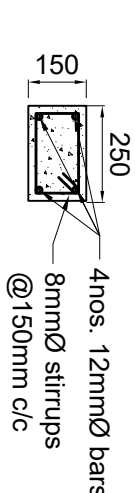
Sill Band

X- sectional Details At Section A)



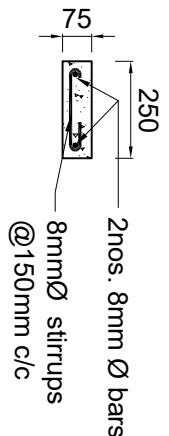
Lintel Band At Solid Wall

(X- sectional Details At Section B)



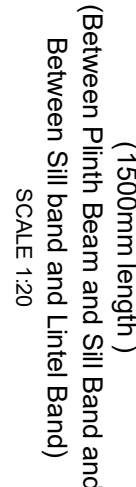
Lintel Band At Openings

(X- sectional Details)



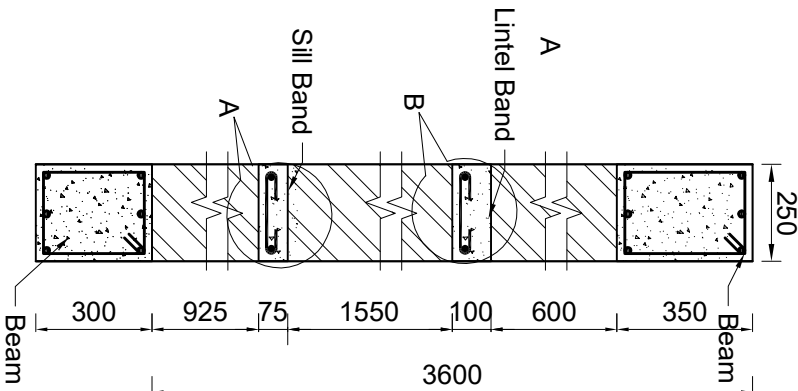
Dowel Band (Stitches)

(X- sectional Details)



NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



LINTEL BAND AT SOLID WALL

Elevation

SCALE 1:20

CLIENT:

Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Reinforcement and Band Details

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 06

CONSULTANT:

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In association with

ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

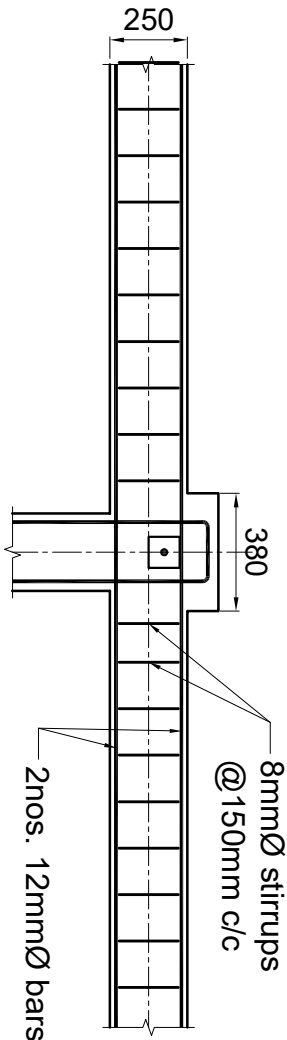
SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV

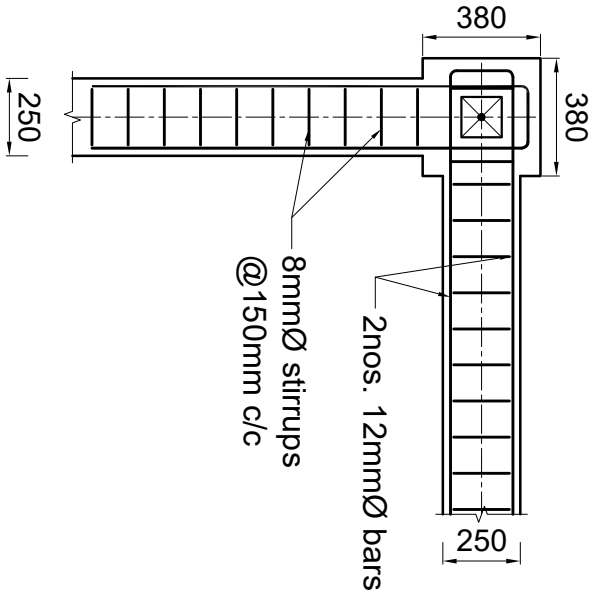


NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



AT WALL JUNCTIONS

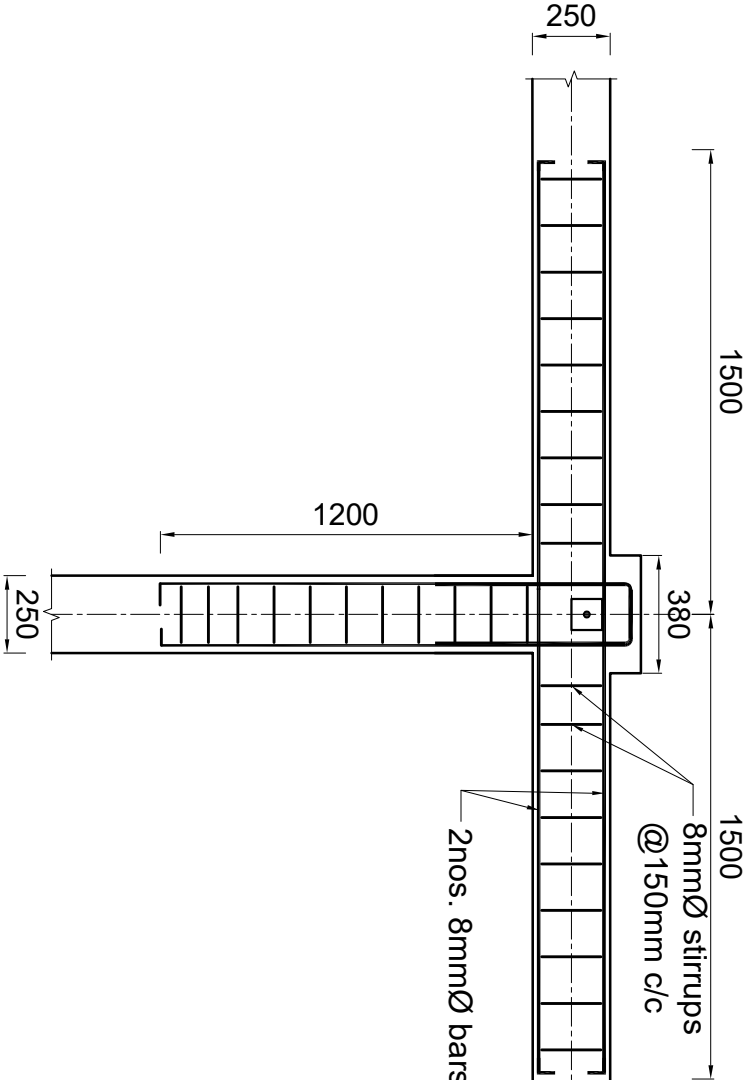


AT CORNERS

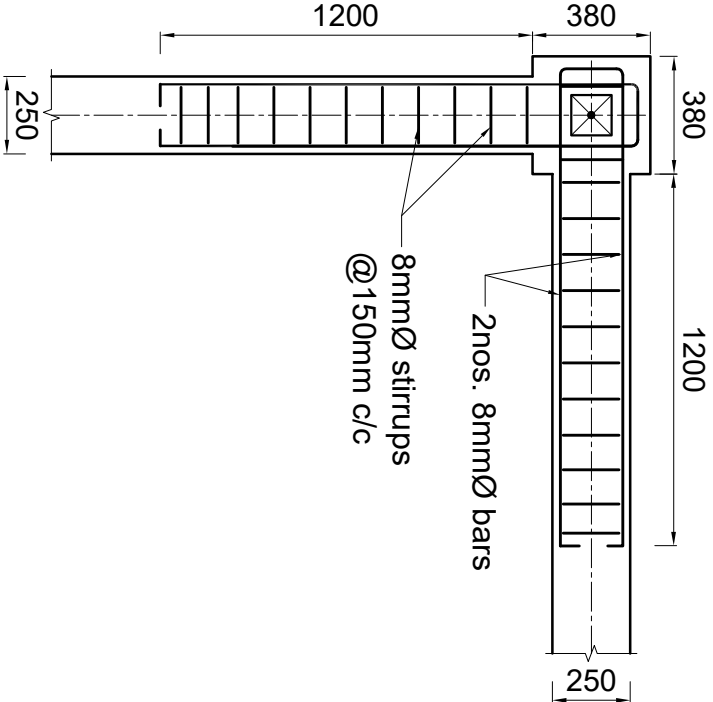
REINFORCMENT DETAILS FOR RC HORIZONTAL BANDS (SILL AND LINTEL)

(Sectional Plan)

SCALE 1:25



AT WALL JUNCTIONS



AT CORNERS

REINFORCEMENT DETAILS FOR DOWEL BAND (STICHES)

(Sectional Plan)

(Between Plinth Beam and Sill Band
and Between Sill band and Lintel Band)

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Reinforcement Details for Bands
GARAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 07

CONSULTANT:

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In association with
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and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Top and Bottom Reinforcement Plan of Slab

SITE INFORMATION:

GARAGE BLOCK

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

SHEET NO

ST- 08

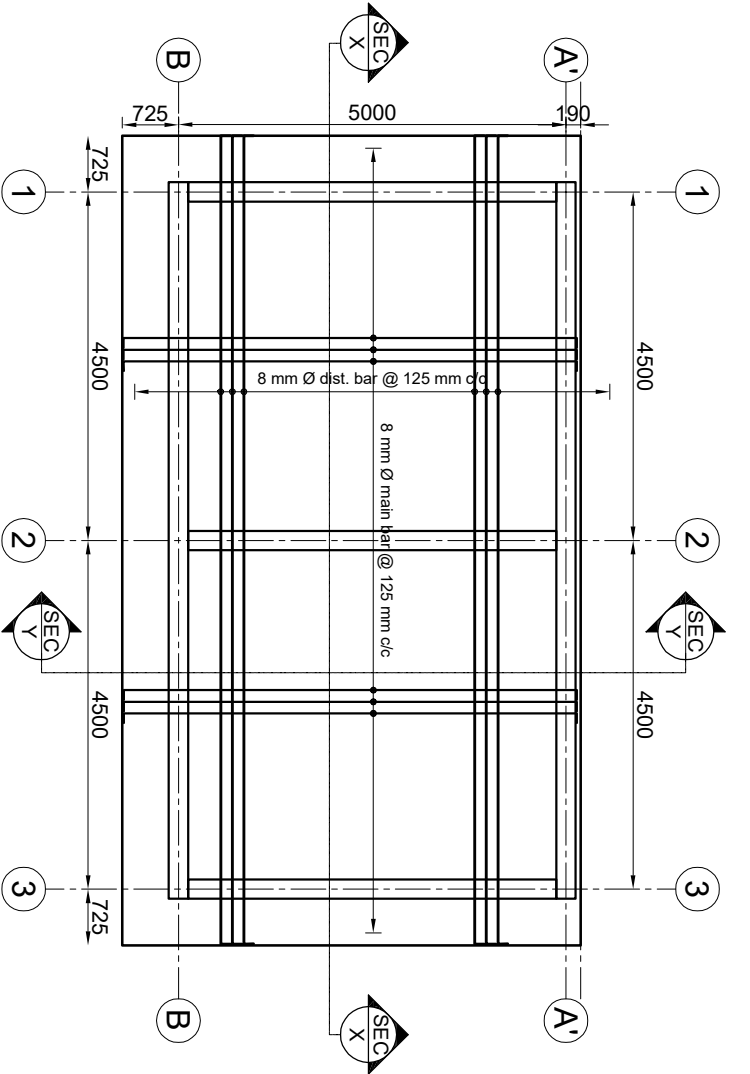
CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERMIC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

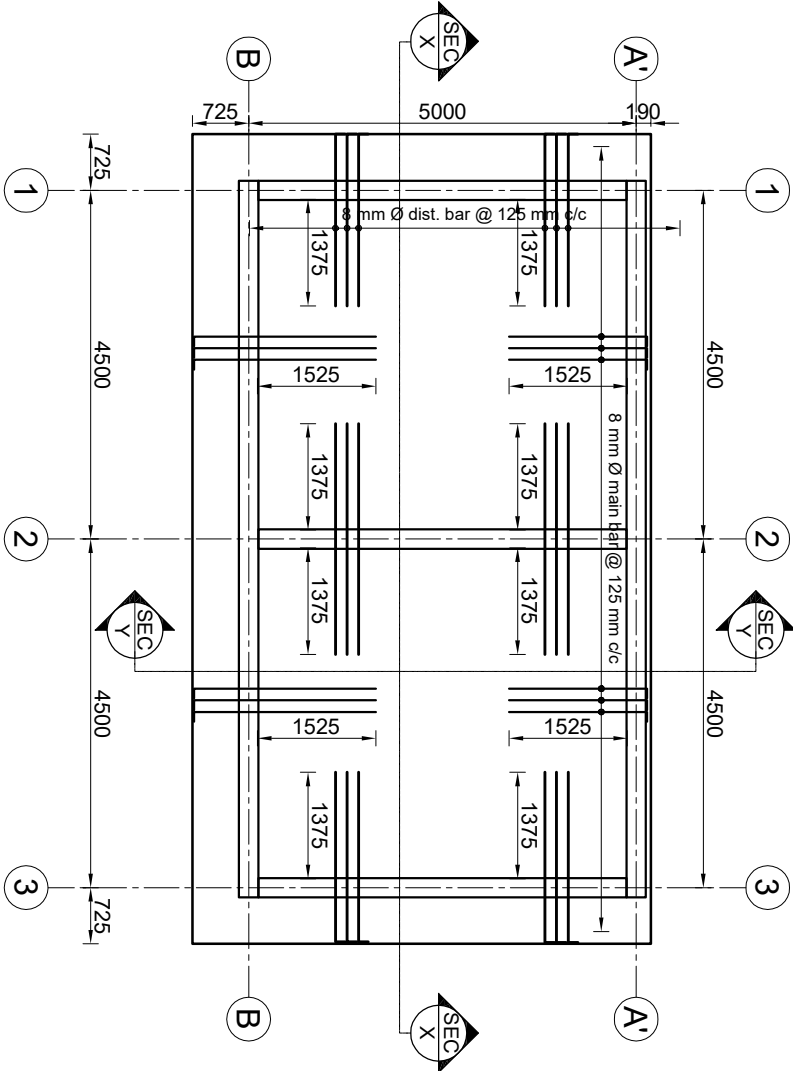
REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



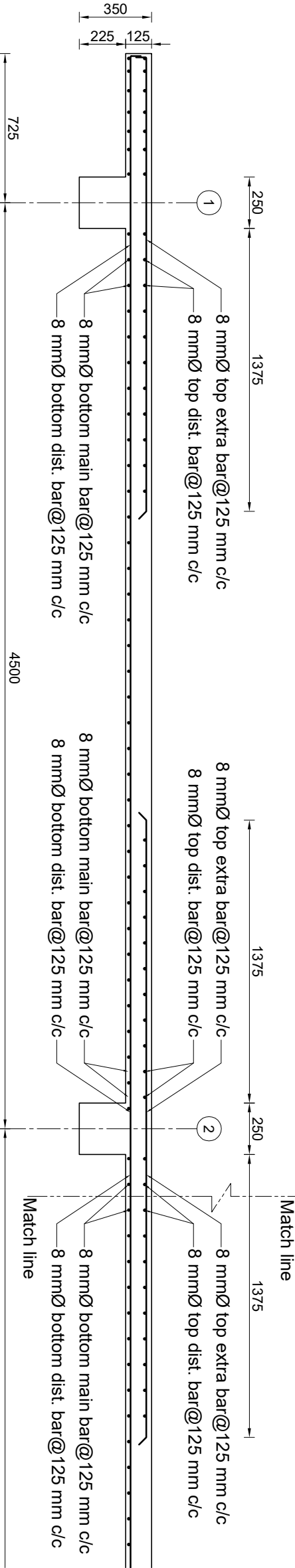
BOTTOM BAR REINFORCEMENT PLAN AT ROOF
(Scale 1:100)



TOP BAR REINFORCEMENT PLAN AT ROOF
(Scale 1:100)

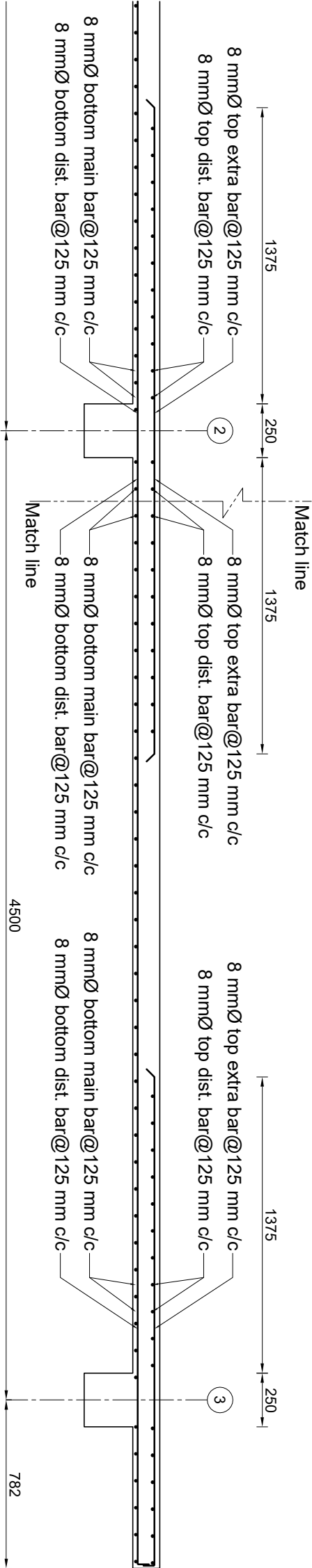
NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)



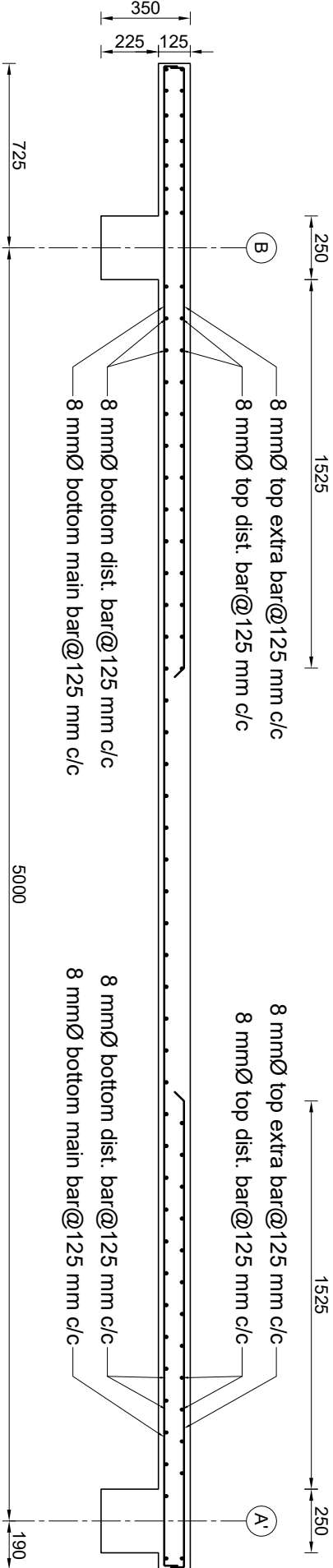
SLAB SECTION AT X-X

(SCALE 1:25)



SLAB SECTION AT Y-Y

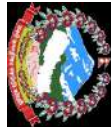
(SCALE 1:25)



SLAB SECTION AT X-X

(SCALE 1:25)

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Slab Sections
GARAGE BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 09

CONSULTANT:

DOHWA Engineering Co. Ltd.
In association with
ERMC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV





Government of Nepal

Ministry of Urban Development

Department of Urban Development and Building Construction

Regional Urban Development Project

Project Coordination Office

Babarmahal, Kathmandu

STRUCTURAL DRAWINGS of GARAGE BLOCK (TRUSS)

LUMBINI SANSKRITIK MUNICIPALITY

Structural Drawing	
Name of Sheet	Sheet Number
GARAGE BLOCK: GARAGE TRUSS DRAWING	
Cover Page	C0
Table of Contents	00
General Notes-1	01
General Notes-2	02
Trench Plan	03
Footing Plan and Details	04
Footing Details	05
Footing Details	06
Steel Column and Pedestal Layout Plan	07
Truss Layout Plan	08
Purlin Layout Plan	09
Truss Sections	10
Truss Sections	11
Truss Sections	12
Truss Sections	13
Details-1	14
Details-2	15
Details-3	16

CLIENT:



Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE	
Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project	
ISSUES & REVISIONS	
NO	REVISION
1	1st
2	2nd

SHEET TITLE: Table of Contents

GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal	
AREA:	
LOCATION: Lumbini Sanskritik Municipality	
CONSULTANT	CLIENT
Team Leader:	Approved By:
Reviewed By: Er. Ajay Shrestha	
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav	
PAPER SIZE: A3	SCALE: AS SHOWN
DATE: Feb. 2024	SHEET NO ST- 00

CONSULTANT:
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NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
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Development Project

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1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Trench Plan

GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb, 2024

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CONSULTANT:

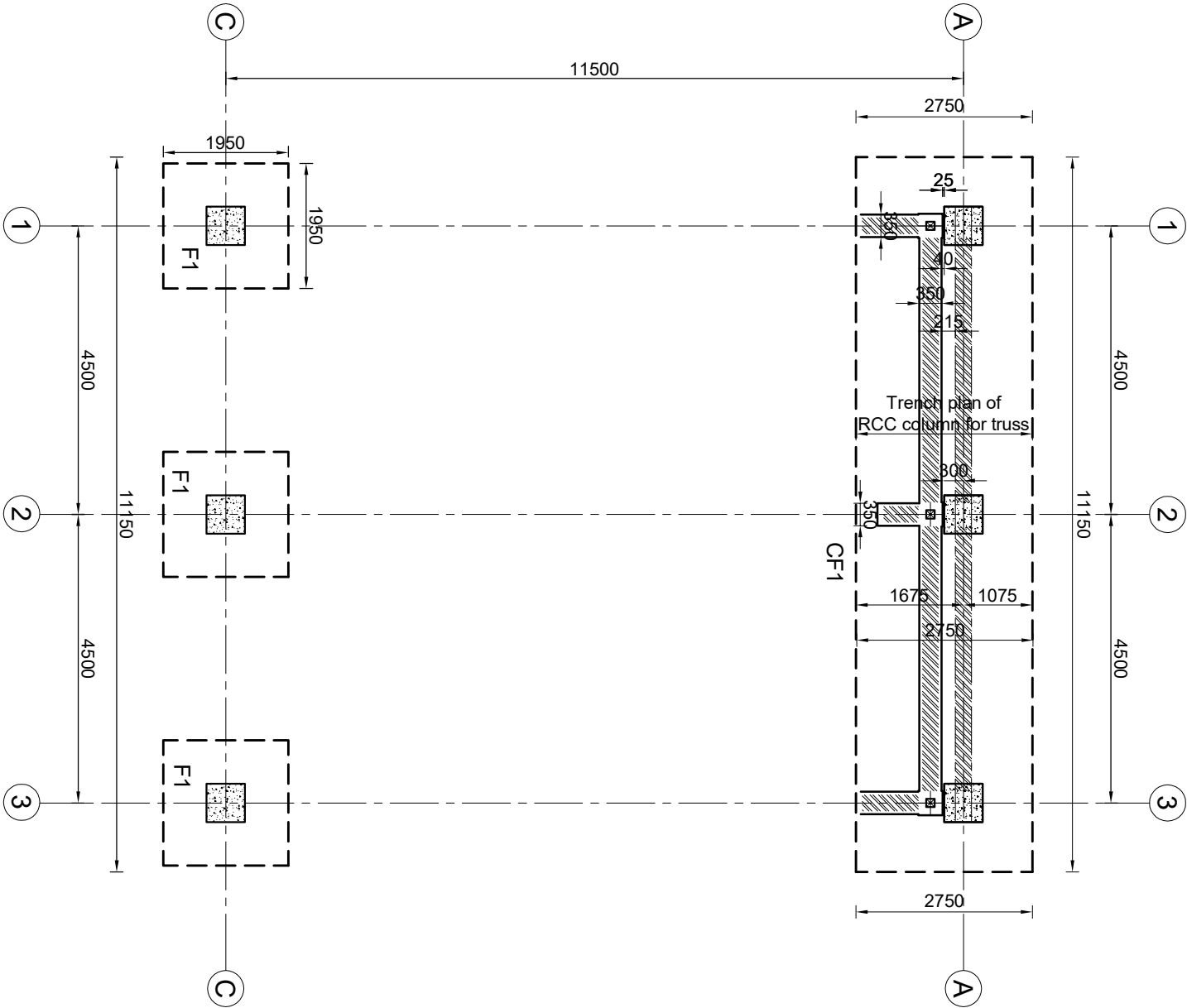
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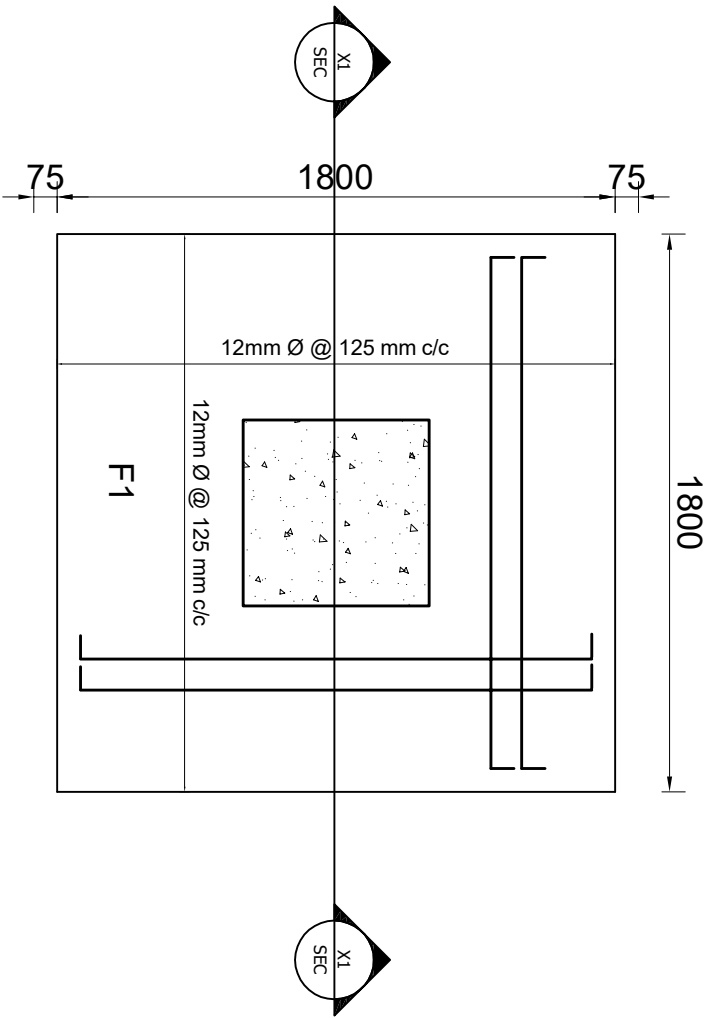


TRENCH PLAN (TRUSS BLOCK)

(SCALE 1:100)

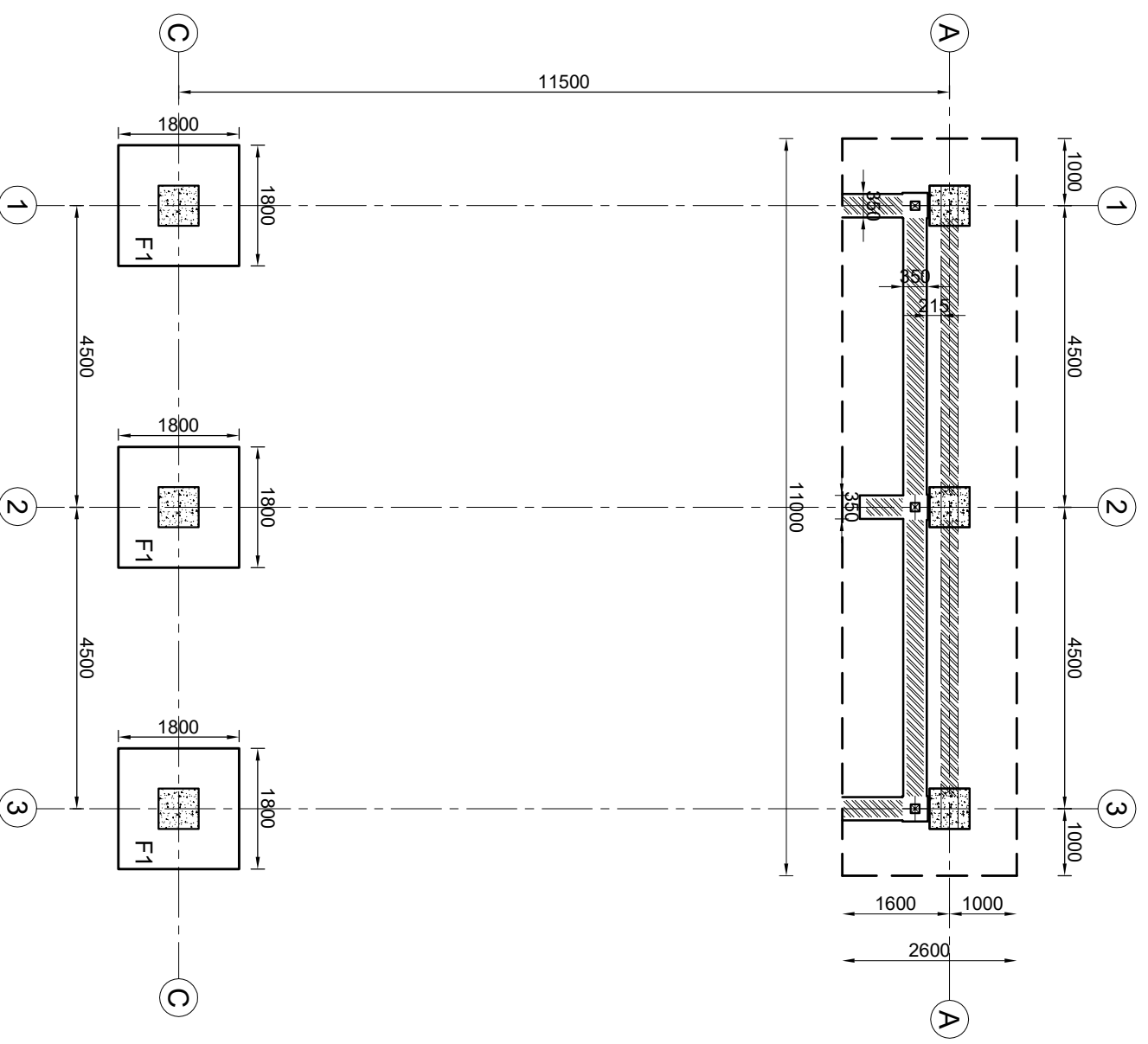
NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250



FOOTING PLAN (F1)

(SCALE 1:25)

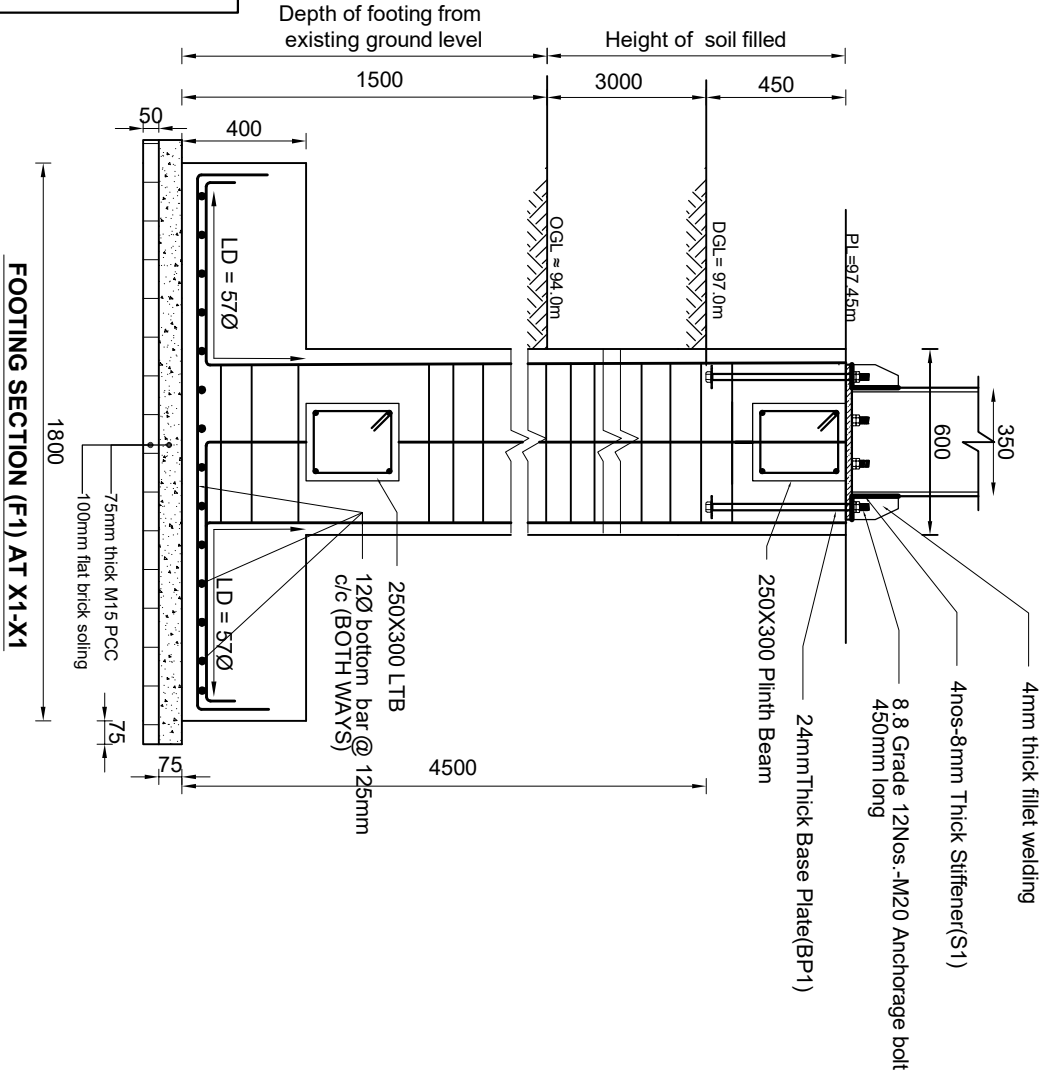


FOOTING PLAN (TRUSS BLOCK)

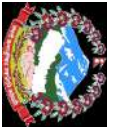
(SCALE 1:100)

FOOTING DETAILS TABLE

SN	DESCRIPTION	SIZE	DEPTH	DIA AND SPACING OF BAR
1	FOOTING -CF1	11000x2600	400	12 mm Ø bar @ 150 mm c/c
2	FOOTING -F1	1800x1800	400	12 mm Ø bar @ 125 mm c/c



CLIENT:



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Development Project

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1	18 th DEC 2024	1st
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SHEET TITLE:

Footing Plan and Details
GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

CLIENT

Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 04

CONSULTANT:

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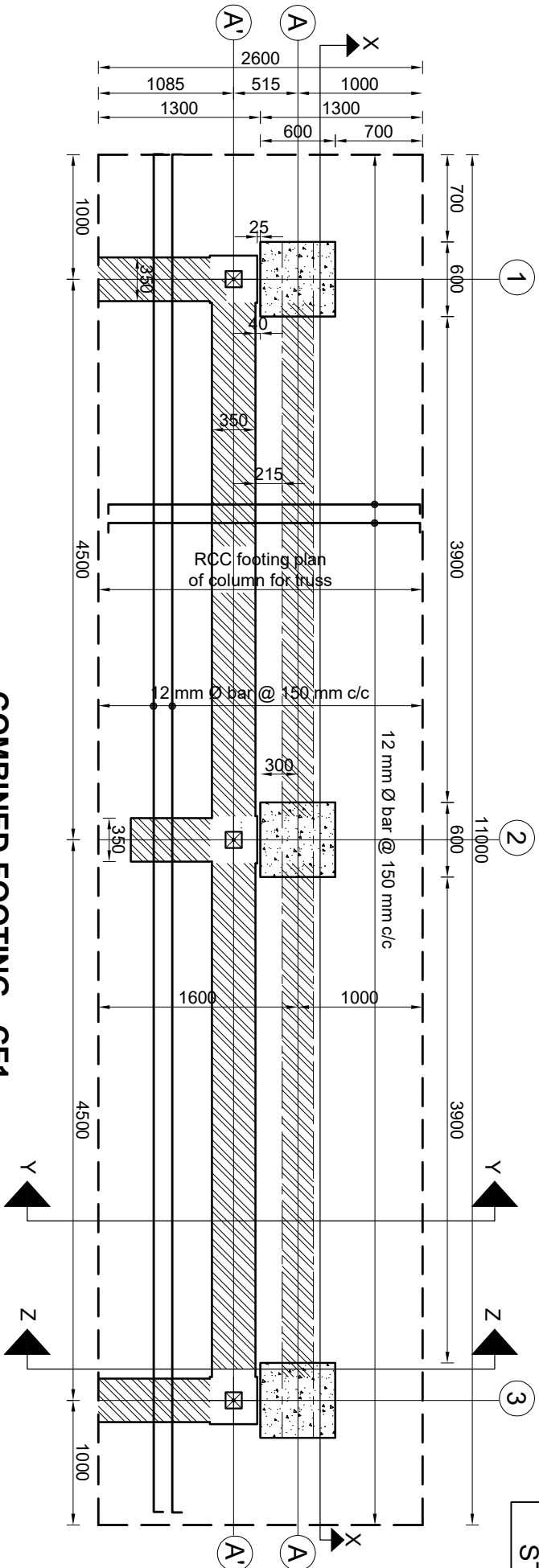
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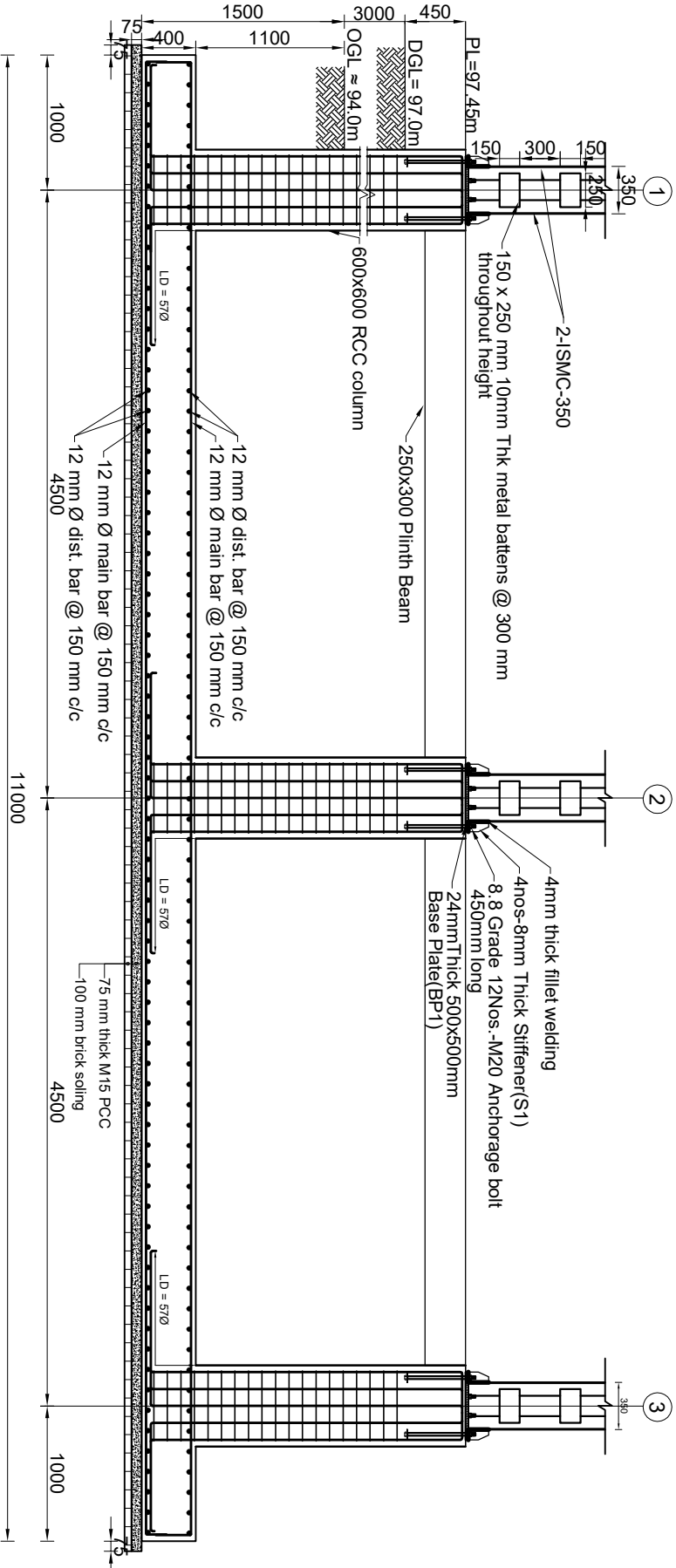


NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250

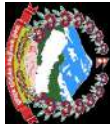


COMBINED FOOTING - CF1
(SCALE 1:50)



SECTION OF COMBINE FOOTING CF1 AT X-X
(SCALE 1:50)

CLIENT:



Department of Urban Development &
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NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Footing Details
GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal
AREA:
LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb, 2024

SHEET NO ST- 05

CONSULTANT:

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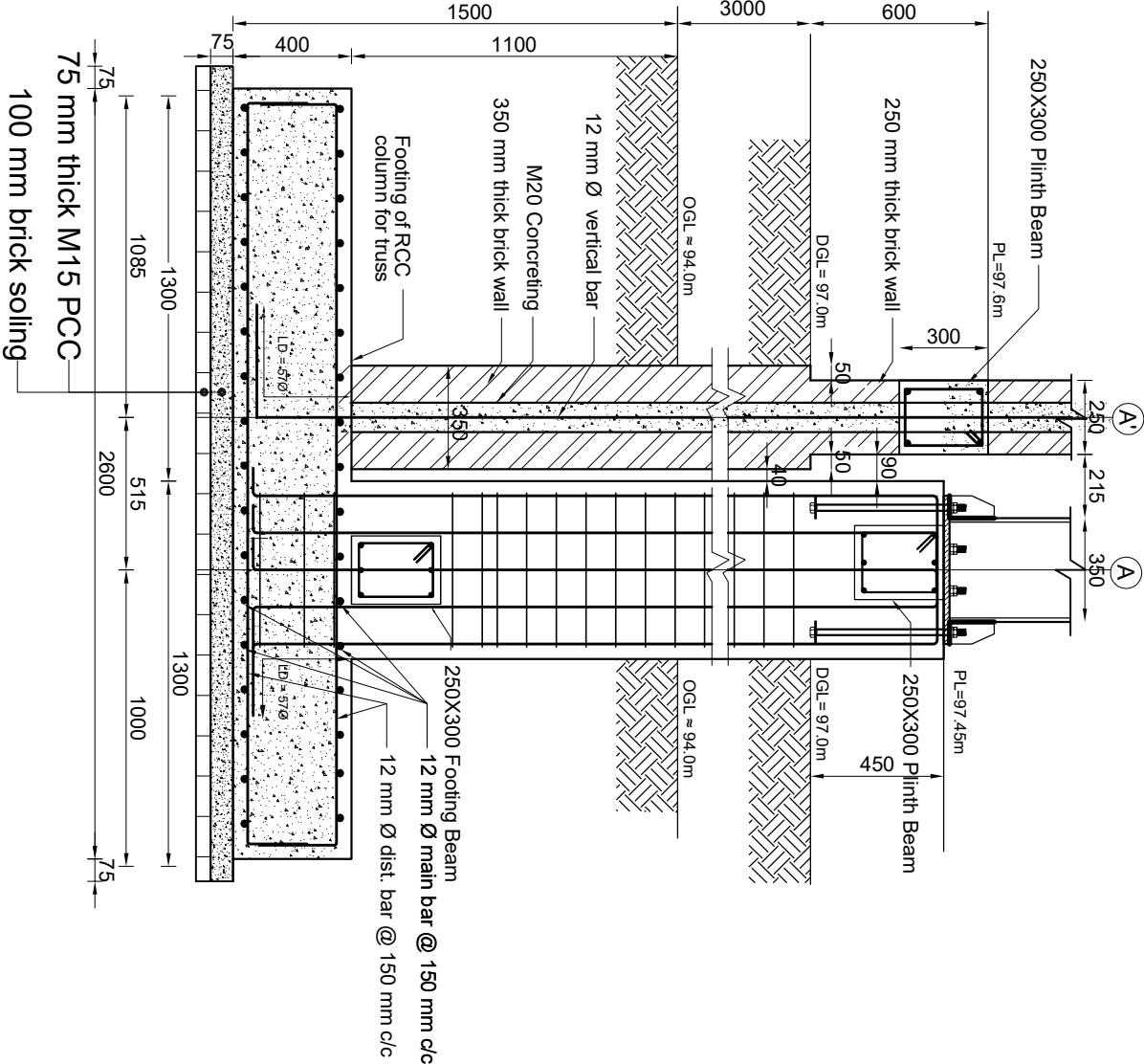


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CLIENT:
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Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

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Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

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NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Steel Column and Pedestal Layout Plan

GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST- 07

CONSULTANT:
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ERM/C (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

REVIEWED BY:

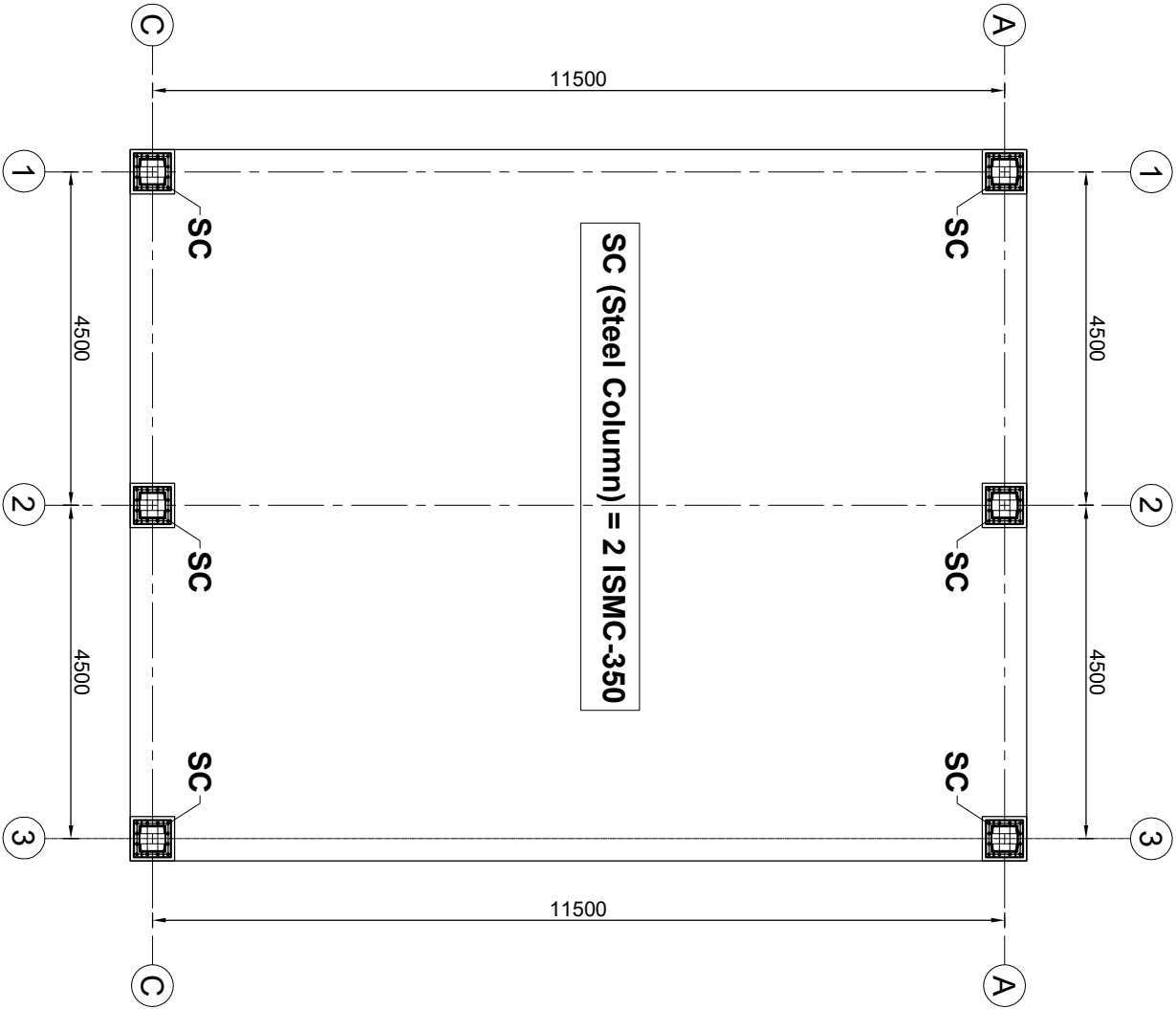
SUPERVISION & DESIGN CONSULTANT (SDC)

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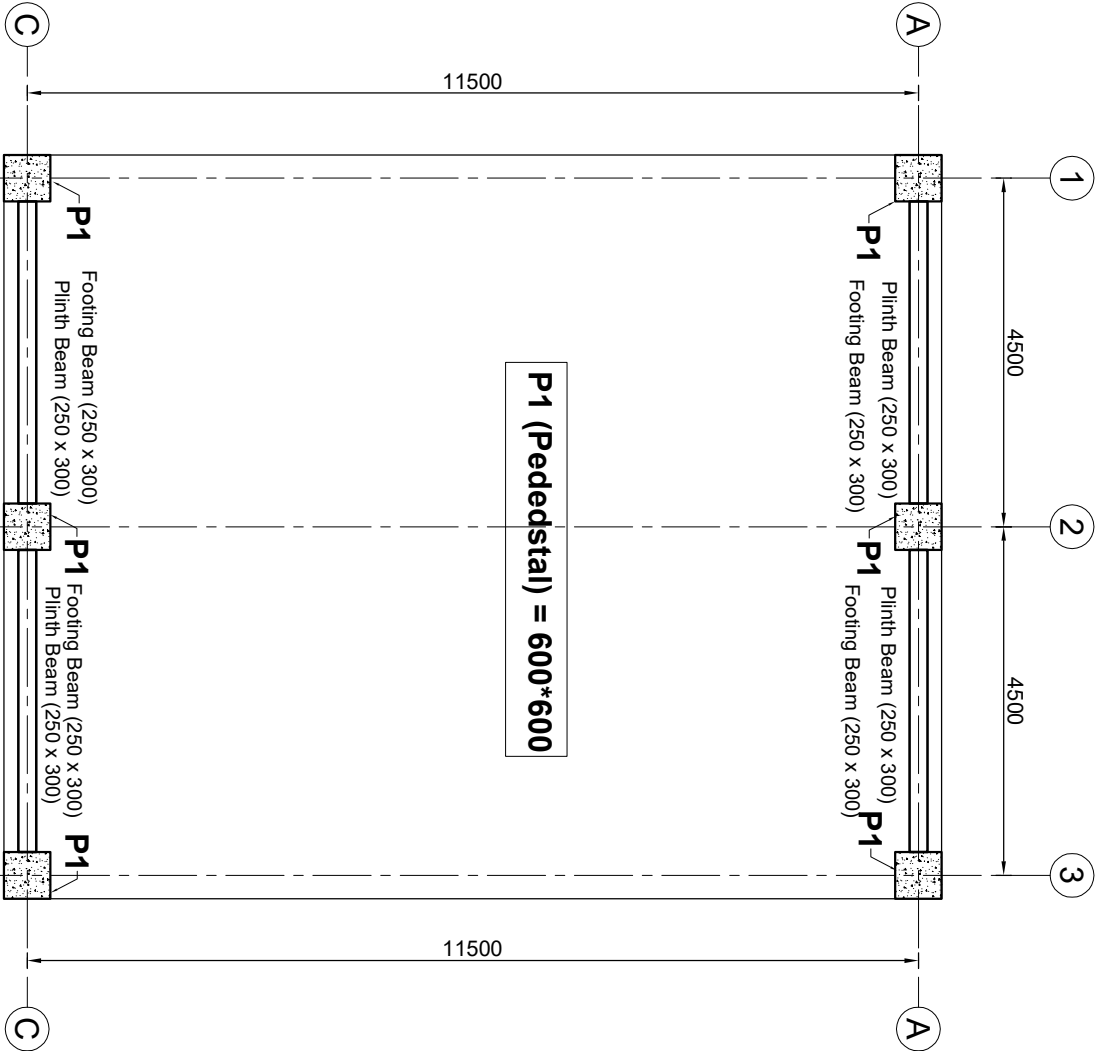
NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250



STEEL COLUMN LAYOUT PLAN

(Scale 1:100)



PEDESTAL AND PLINTH BEAM LAYOUT PLAN

(Scale 1:100)

CONCRETE GRADE = M20	STEEL = (Fe500)	TYPES OF STIRRUPS
POSITION OF BAR	PEDESTAL NAME	GROUND FLOOR
	P1	16-16Ø
		10 mm Ø Bar @ 100 mm c/c Full height

600

600

600

P1

16-16Ø

520

520

275

370

370

75

PEDESTAL SIZE & LONGITUDINAL STEEL

(Scale 1:25)

NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250

CLIENT:



Department of Urban Development &
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Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

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Pre-Feasibility Study, Feasibility Study and Preparation of
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Development Project

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NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Truss Layout Plan
GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT	
Team Leader:		Approved By:	
Reviewed By: Er. Ajay Shrestha			
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav			
PAPER SIZE: A3		SCALE: AS SHOWN	
DATE: Feb, 2024		SHEET NO ST- 08	

CONSULTANT:

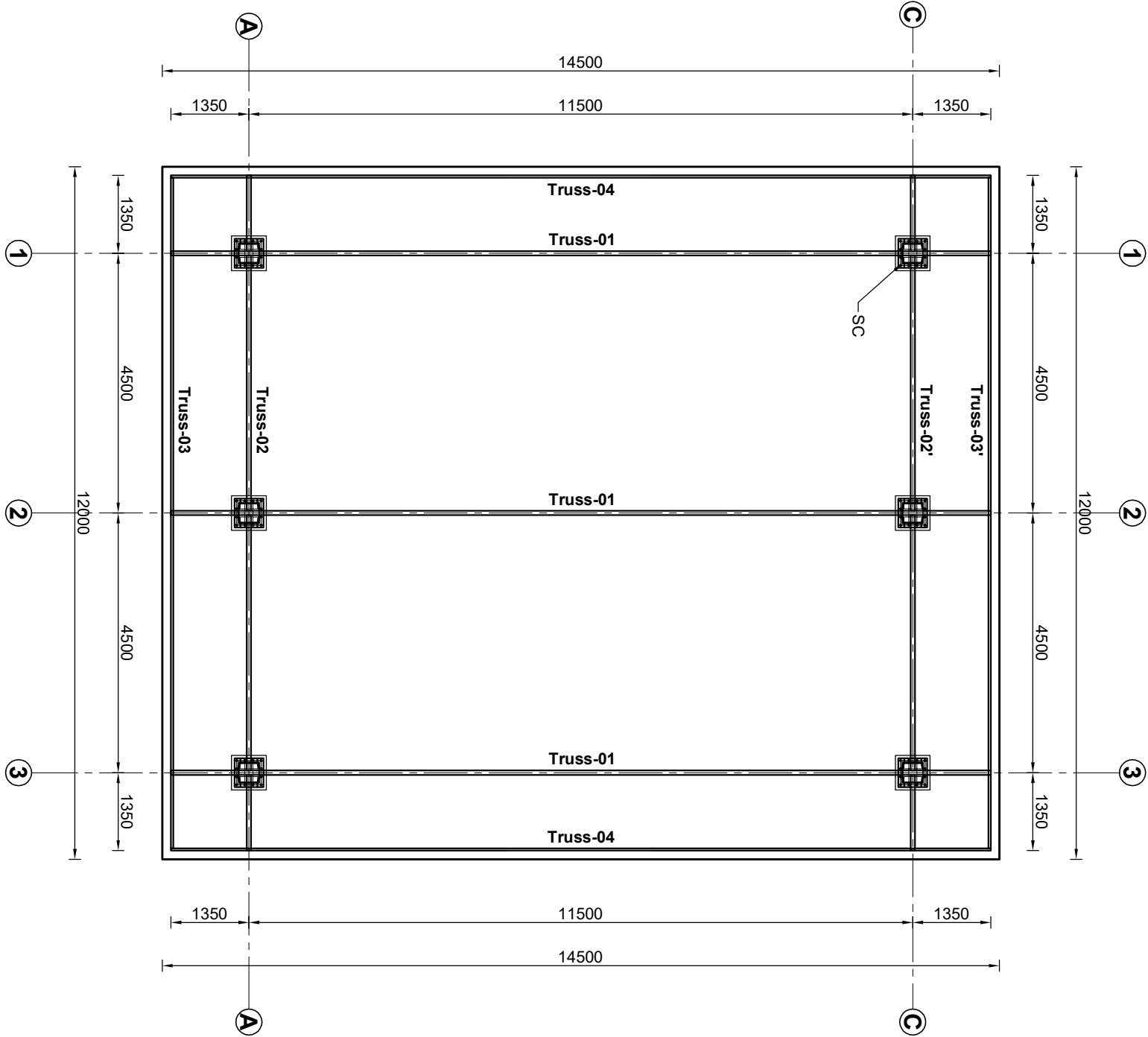
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In association with
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Mid Baneshwor, Kathmandu



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Building Design Authority(P) Ltd.- BN- UDAYA JV

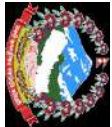


TRUSS LAYOUT PLAN (TRUSS BLOCK)

(Scale 1:100)

NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250



CLIENT:
Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Purlin Layout Plan
GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
------------	--------

Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb, 2024

SHEET NO ST- 09

CONSULTANT:

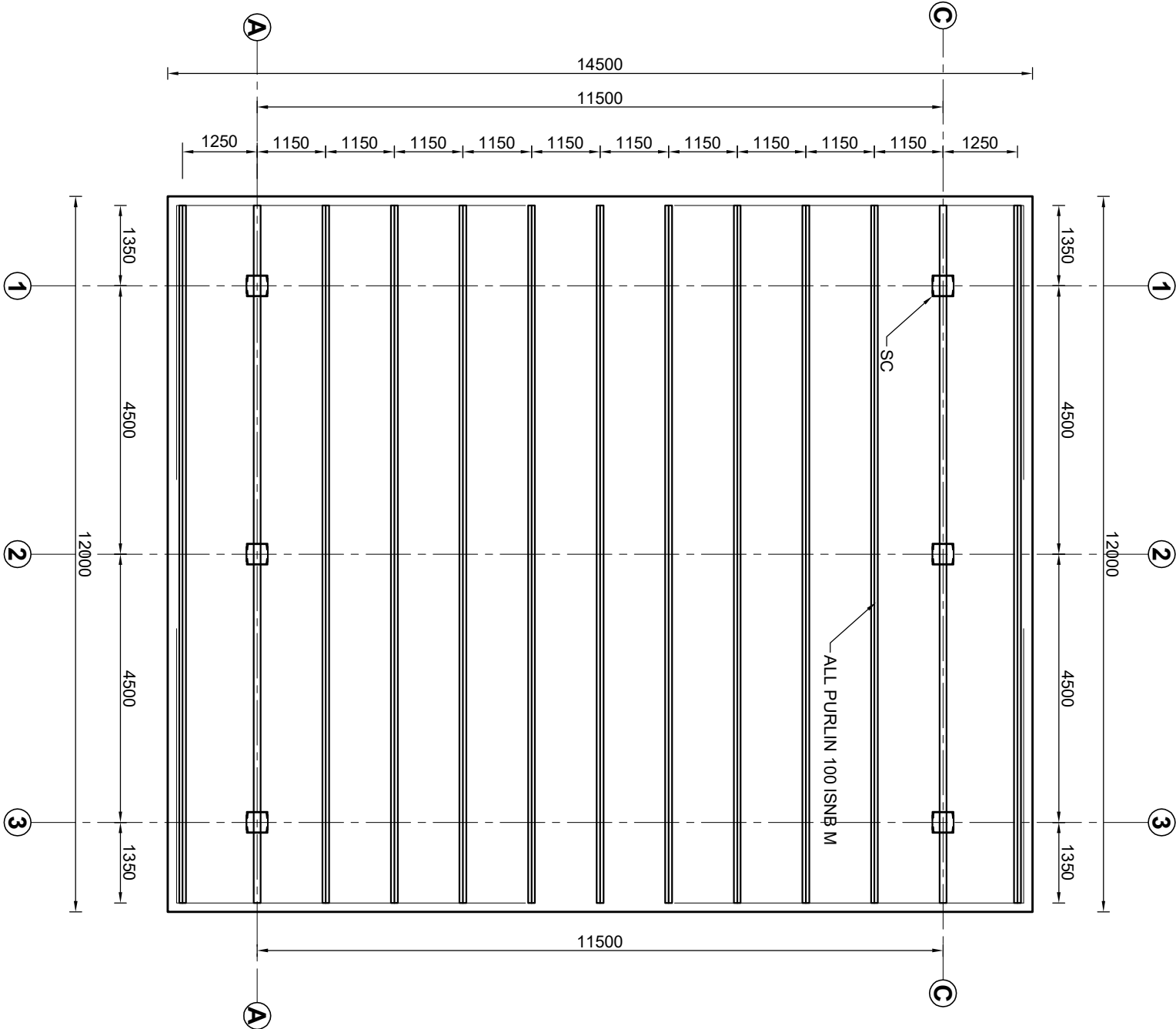
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PURLIN LAYOUT PLAN (TRUSS BLOCK)

PURLIN = ISNB 100M



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
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Babarmahal, Kathmandu, Nepal

CLIENT:

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE: Truss Section

GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

DATE: Feb. 2024

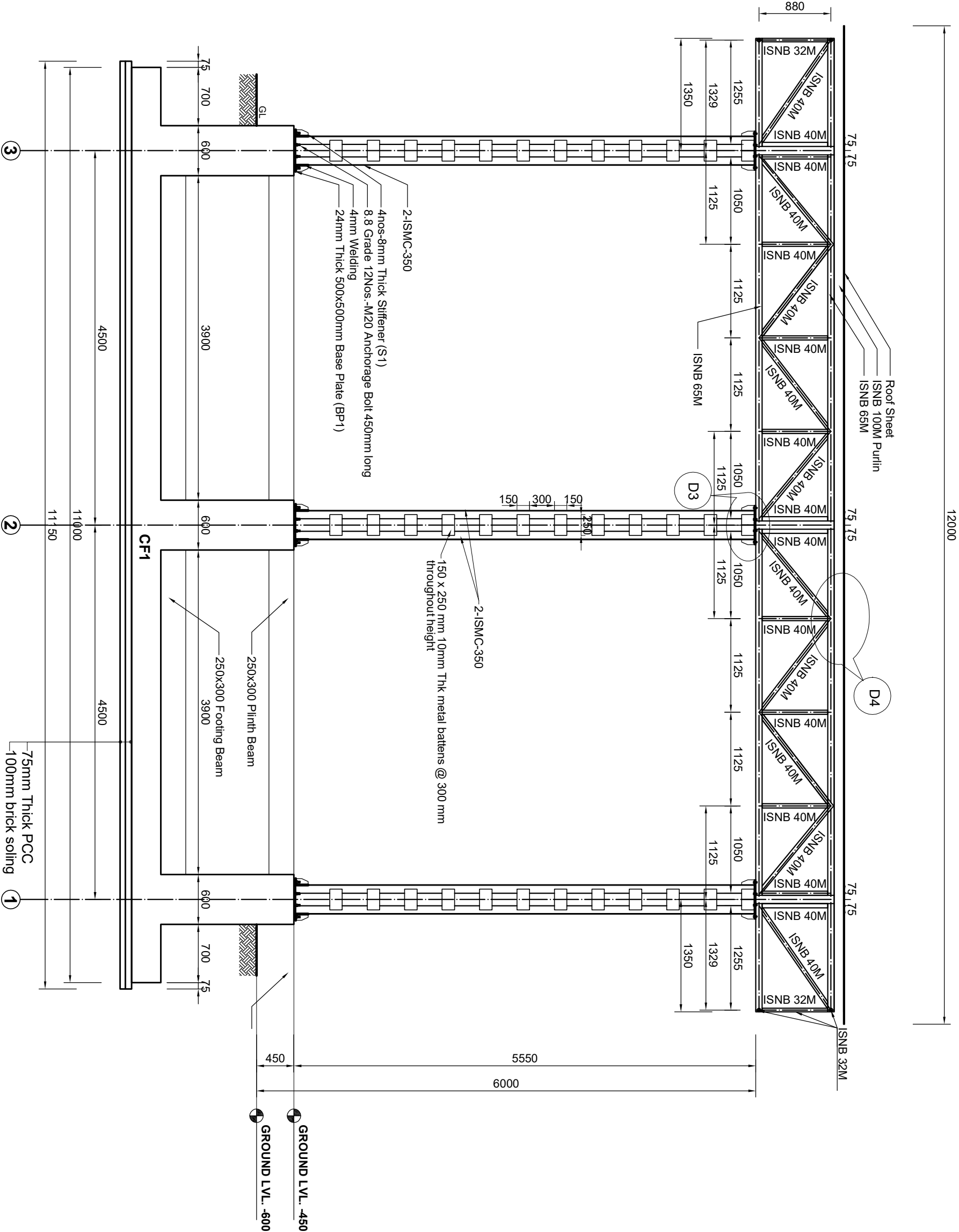
CONSULTANT:

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In association with
ERMC (P.) Ltd., SILT Consultants (P.) Ltd.,
and DIGICON (P.) Ltd.
Mid Baneshwor, Kathmandu

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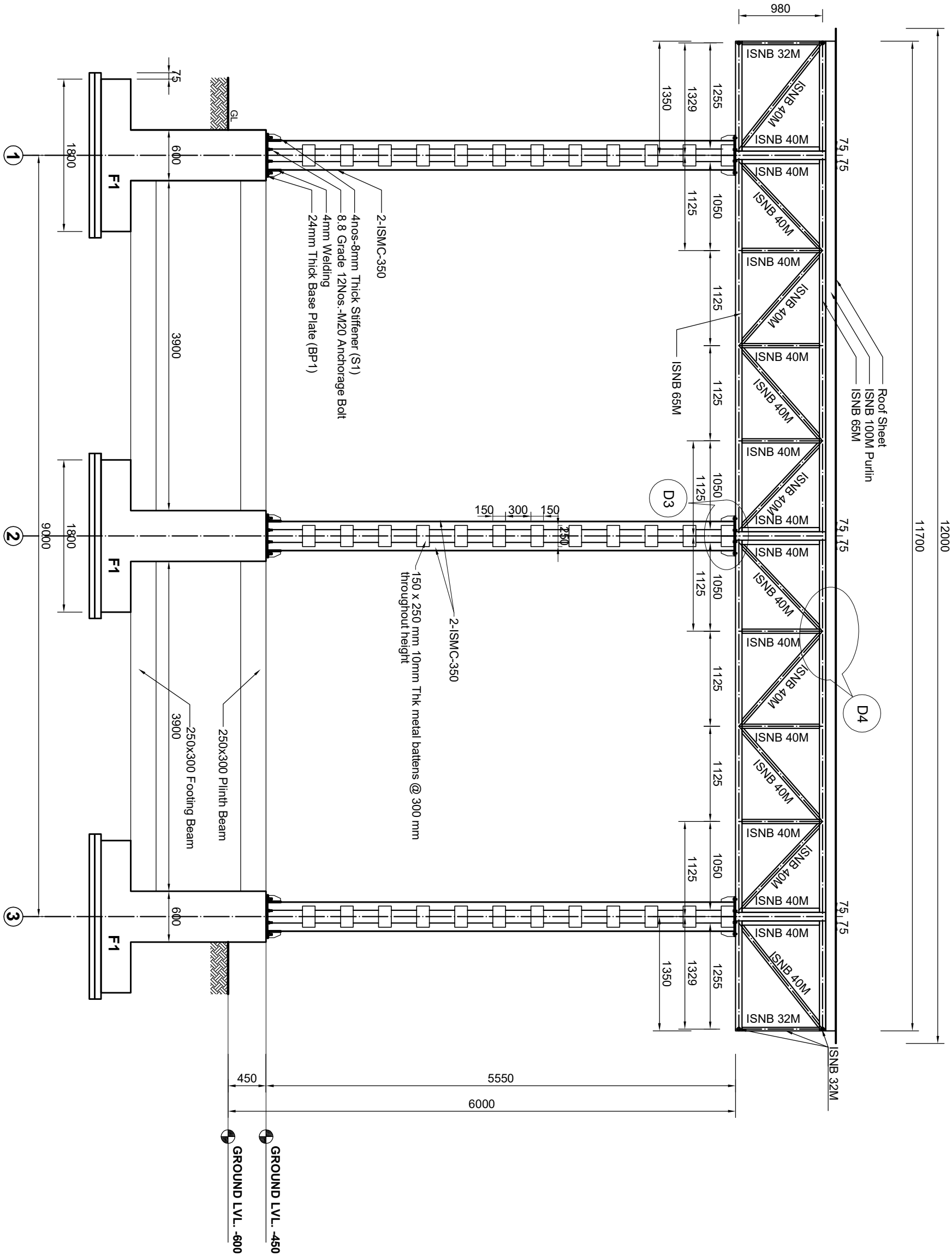


TRUSS (02) SECTION ALONG GRID A-A (GARAGE TRUSS BLOCK)

(Scale 1:50)

NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250



TRUSS (02') SECTION ALONG GRID C-C (GARAGE TRUSS BLOCK)
(Scale 1:50)

NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250

CLIENT: Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE: Truss Section

GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

CLIENT

Team Leader:

Approved By:

Reviewed By:
Er. Ajay Shrestha

Designed By:
Er. Enu Rai 17819 Civil "A"

Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb, 2024

SHEET NO ST-11

CONSULTANT:

DOHWA Engineering Co. Ltd.

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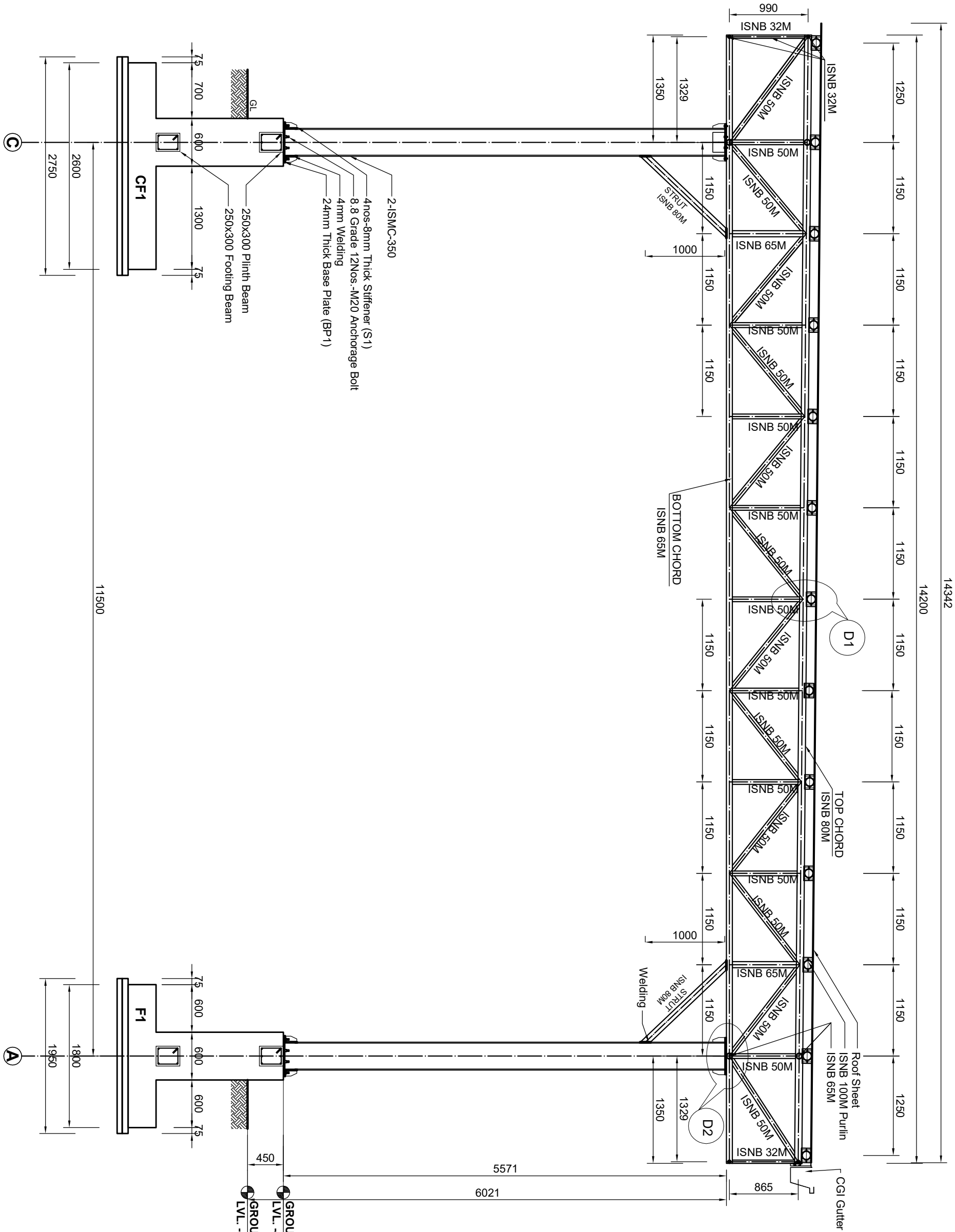
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SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV





TRUSS (01) SECTION AT 1-1, 2-2 & 3-3(GARAGE TRUSS BLOCK)

(Scale 1:50)

NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250

CLIENT:

Department of Urban Development & Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project

ISSUES & REVISIONS	
NO	REVISION
1	18 th DEC 2024
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SHEET TITLE: Truss Sections

GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT	CLIENT
Team Leader:	Approved By:
Reviewed By:	
Designed By:	
PAPER SIZE: A3	SCALE: AS SHOWN
DATE: Feb, 2024	SHEET NO ST-12

CONSULTANT:

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DOHWA

ENGINEERING

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



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Department of Urban Development & Building Construction (DUDBC)
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ISSUES & REVISIONS		
NO	DATE	REVISION
1	18 th DEC 2024	1 st
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SHEET TITLE:

Truss Sections
GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT
Team Leader:	Approved By:	
Reviewed By: Er. Ajay Shrestha		
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav		
PAPER SIZE: A3	SCALE: AS SHOWN	
DATE: Feb. 2024	SHEET NO	ST- 13

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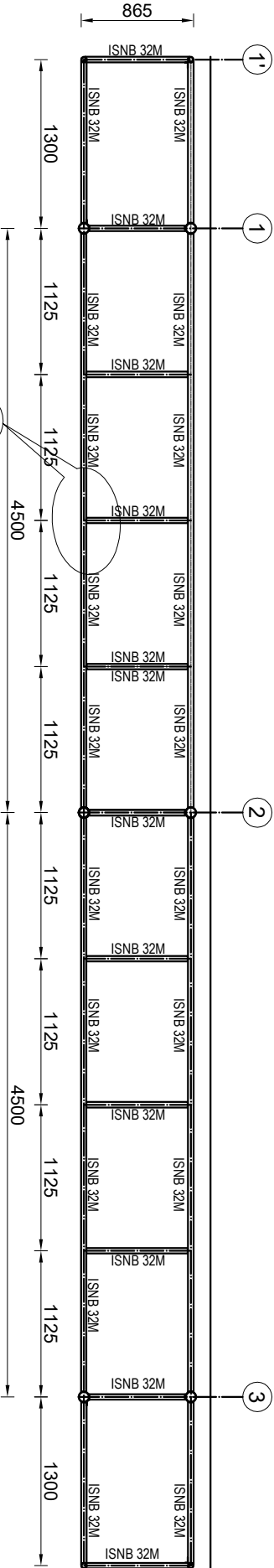
REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV

TRUSS ALONG GRID (A'-A')

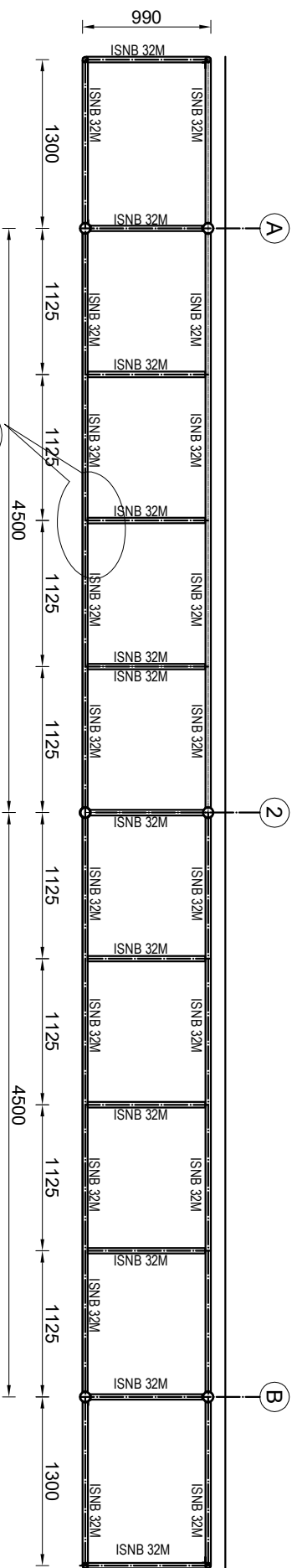
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(Truss-03)

TRUSS ALONG GRID (C'-C')

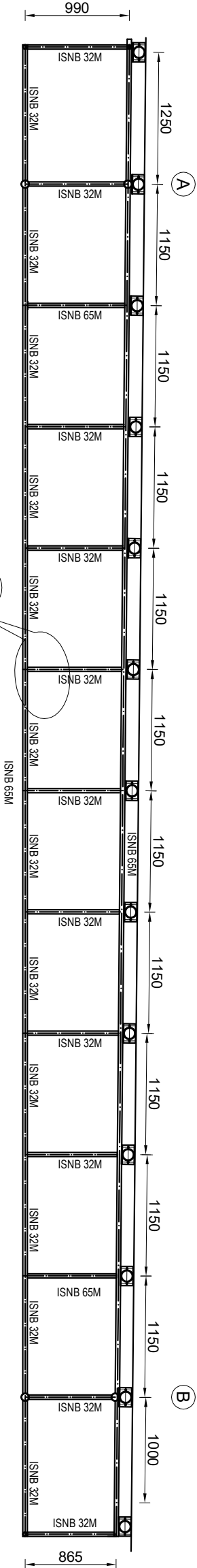
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(Truss-04)

TRUSS ALONG GRID (1'-1') & (3'-3')

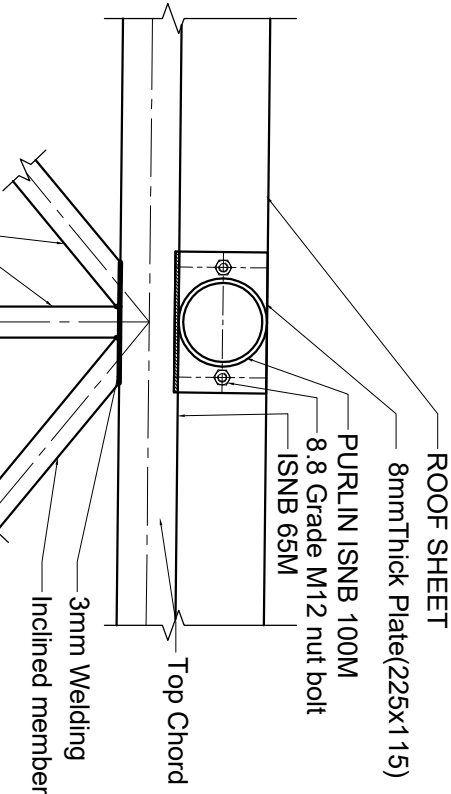
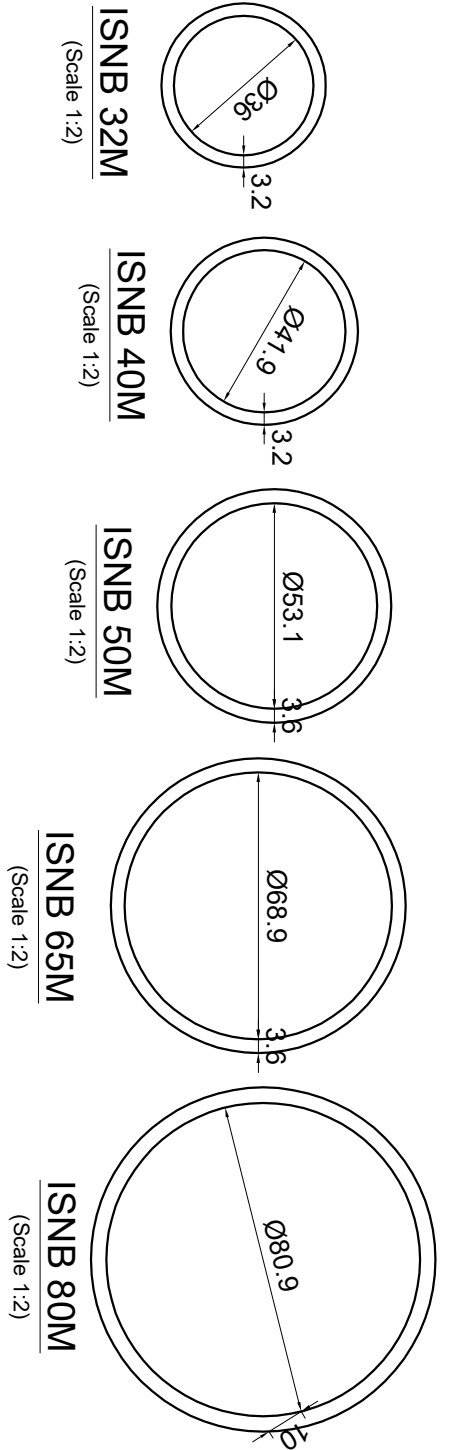
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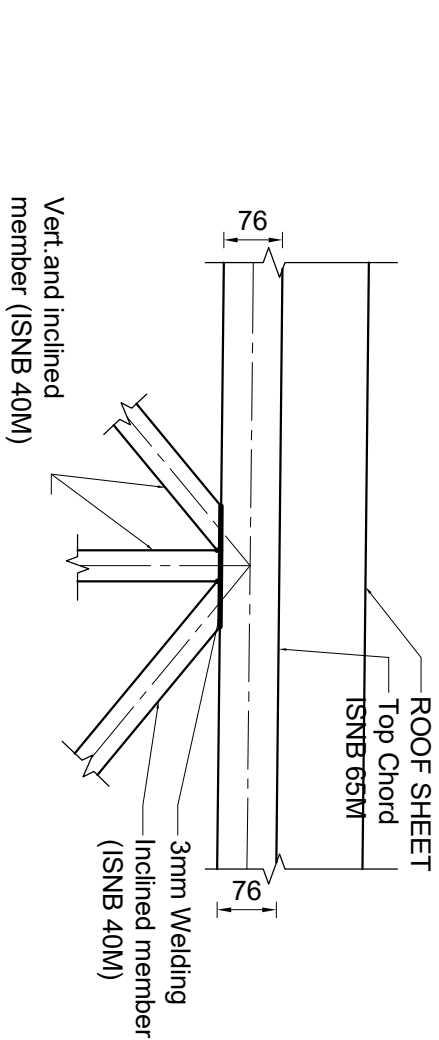
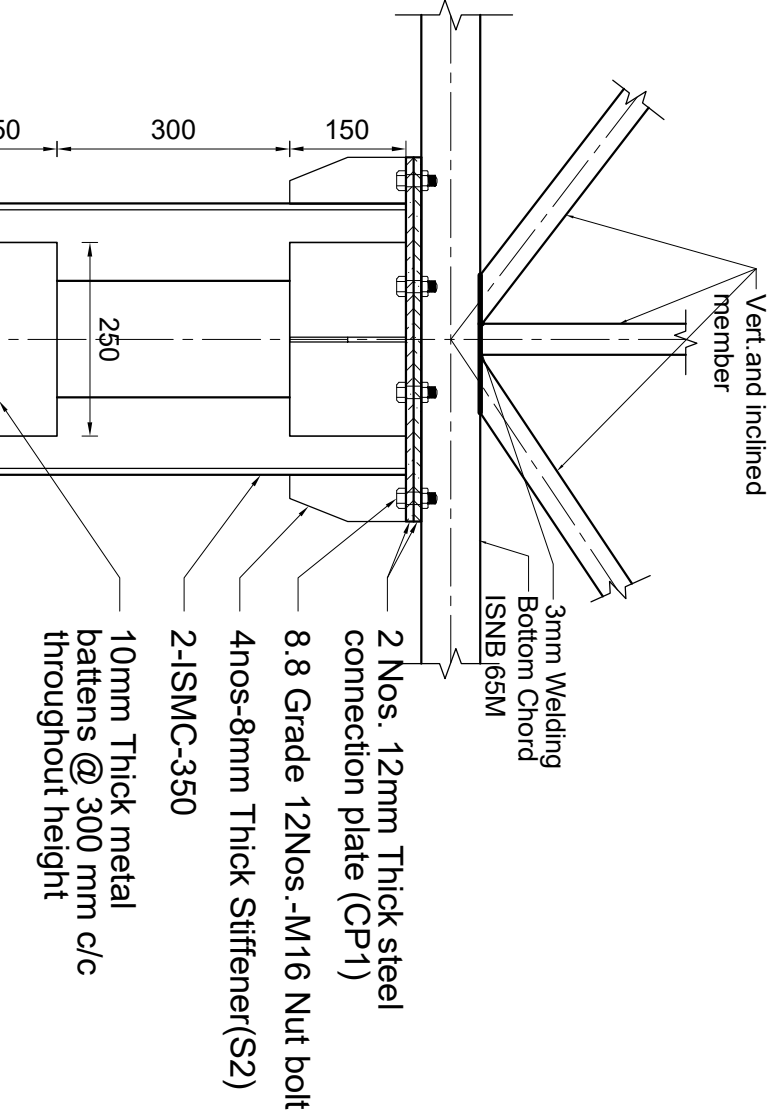
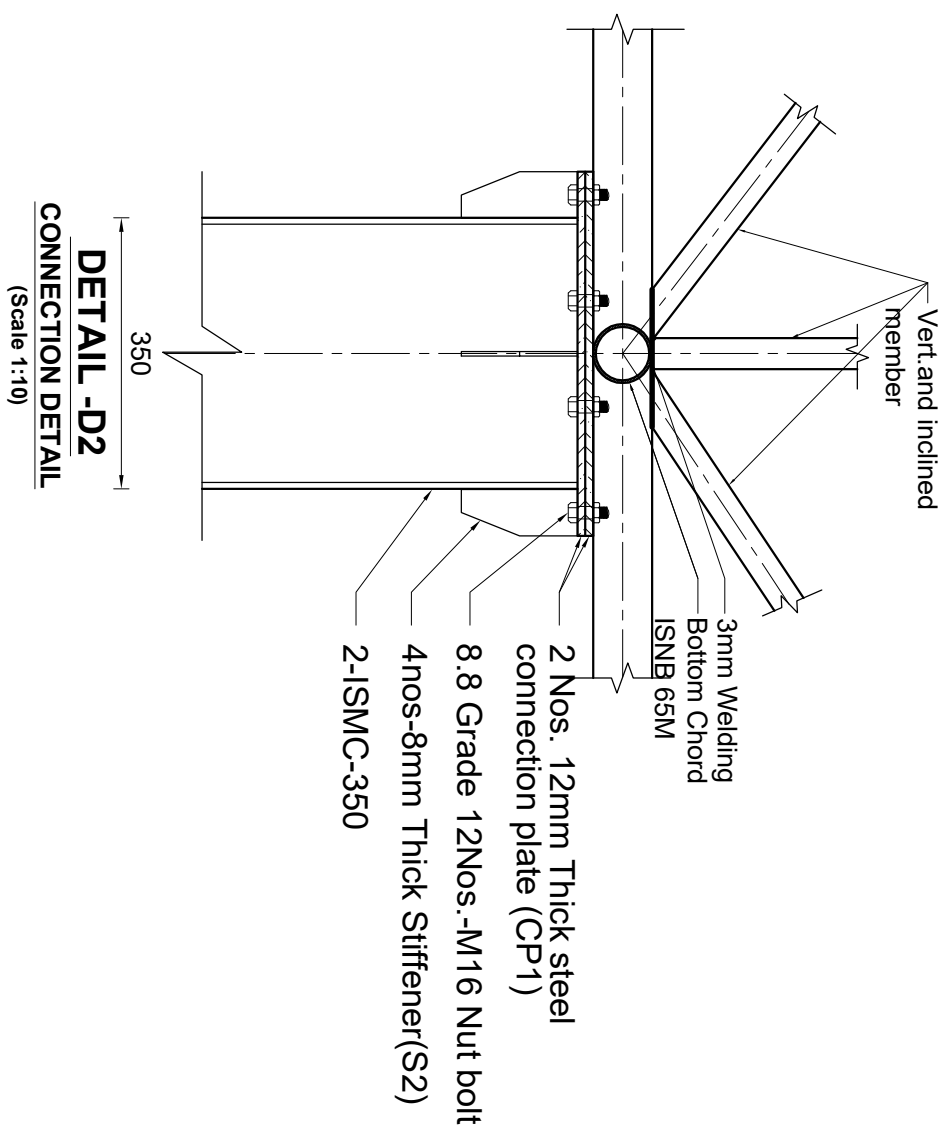
NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250





Vert. and inclined member
DETAIL -D1
CONNECTION DETAIL
(Scale 1:10)



DETAIL -D4
CONNECTION DETAIL
(Scale 1:10)

DETAIL -D3
CONNECTION DETAIL
(Scale 1:10)

NOTE:

CONCRETE GRADE = M20
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STEEL GRADE = Fe 250

CLIENT:

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NO	DATE	REVISION
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SHEET TITLE: Details-1
GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT
Team Leader:		Approved By:
Reviewed By: Er. Ajay Shrestha		
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav		
PAPER SIZE: A3	SCALE: AS SHOWN	
DATE: Feb. 2024	SHEET NO	ST- 14

CONSULTANT:
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In association with
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Mid Baneshwor, Kathmandu

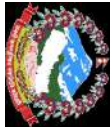
REVIEWED BY:
SUPERVISION & DESIGN CONSULTANT (SDC)
Building Design Authority(P) Ltd.- BN- UDAYA JV



NOTE:

CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Details-2

GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb, 2024

SHEET NO ST- 15

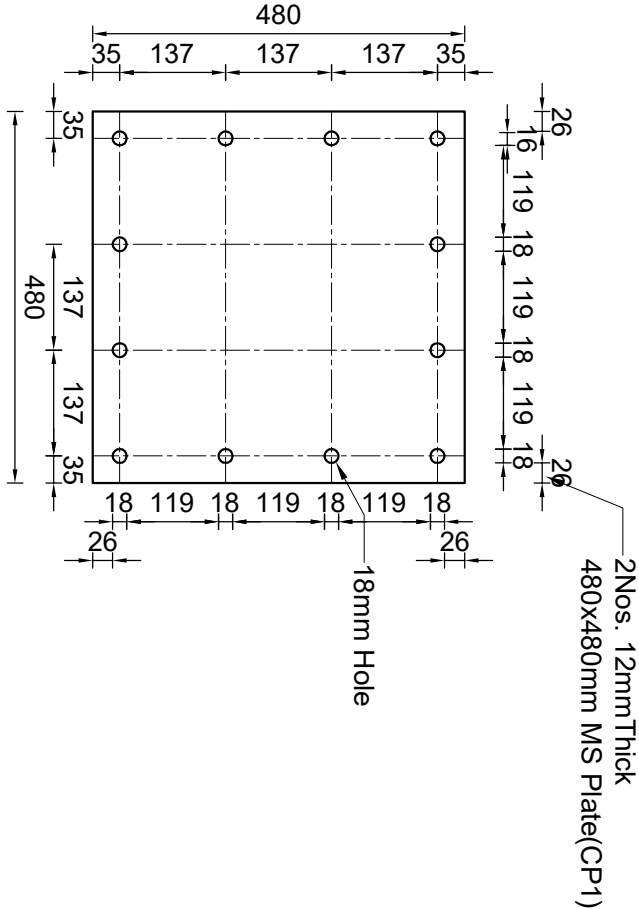
CONSULTANT:

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Mid Baneshwor, Kathmandu

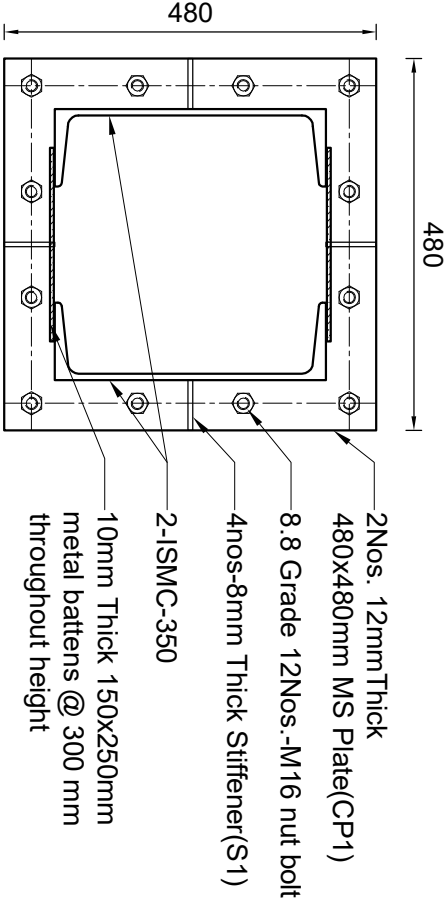
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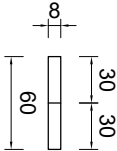
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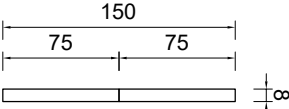
CONNECTION PLATE (CP1)
(SCALE 1:10)



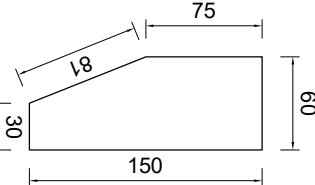
STEEL COLUMN (CP1)
(SCALE 1:10)



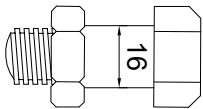
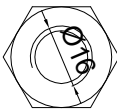
PLAN STIFFENER-S2
8mm THICK METAL
(SCALE 1:5)



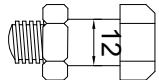
FRONT VIEW STIFFENER-S2
8mm THICK METAL
(SCALE 1:5)



SIDE VIEW STIFFENER-S2
8mm THICK METAL
(SCALE 1:5)

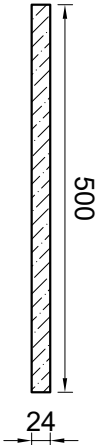


8.8 GRADE M16 NUT BOLT
(Scale 1:2)



8.8 GRADE M12 NUT BOLT
(Scale 1:2)

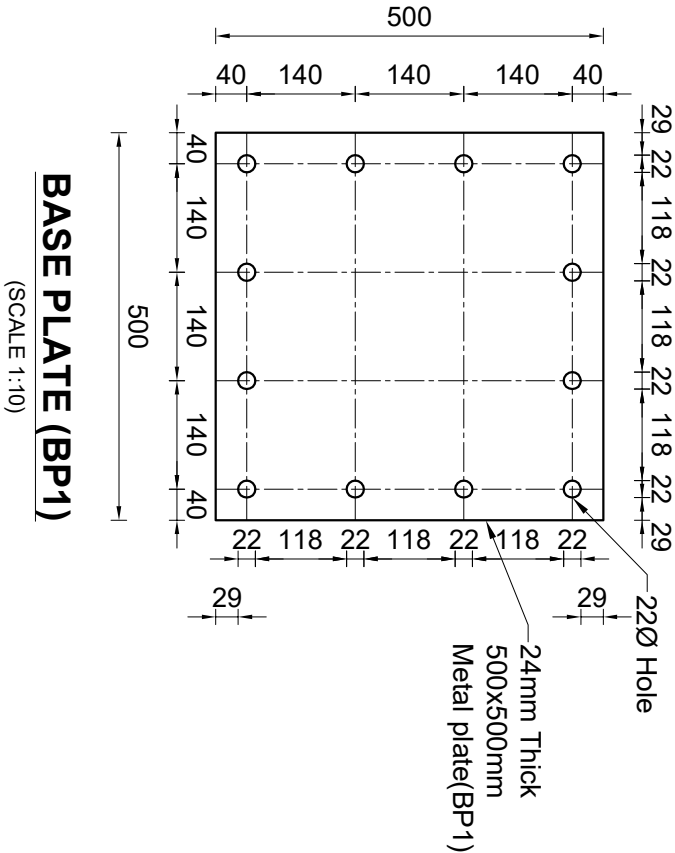




SIDE VIEW

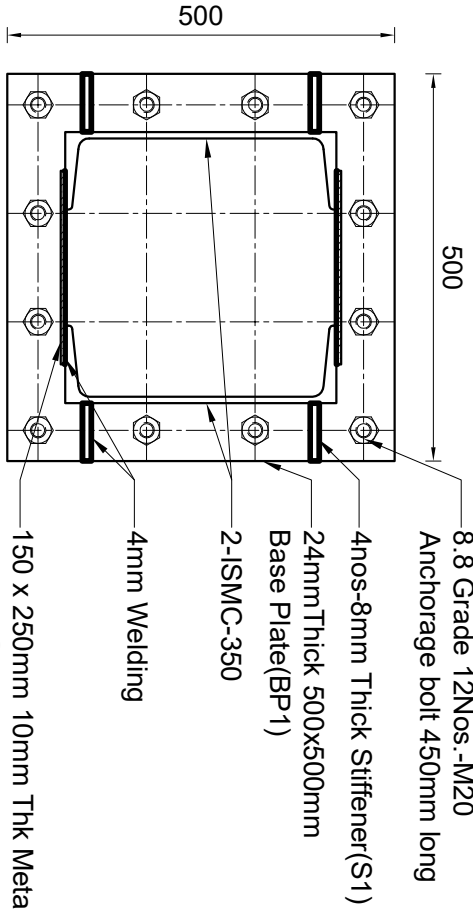
BASE PLATE
(SCALE 1:10)

NOTE:
CONCRETE GRADE = M20
REBAR GRADE = Fe 500 (TMT)
STEEL GRADE = Fe 250



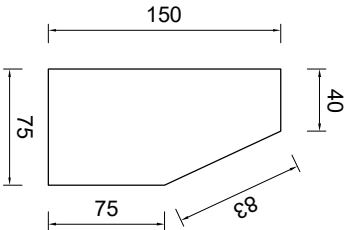
BASE PLATE (BP1)

(SCALE 1:10)



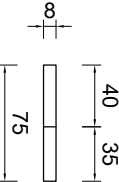
STEEL COLUMN (SC)

(SCALE 1:10)



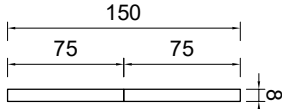
SIDE VIEW STIFFENER-S1

8mm THICK METAL
(SCALE 1:5)



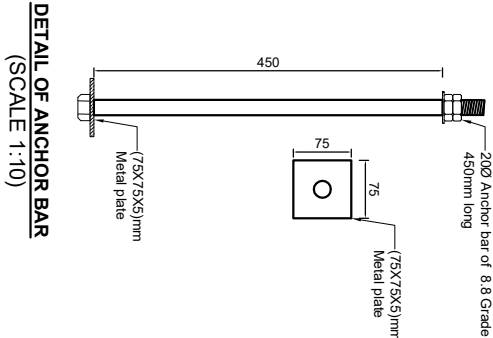
PLAN STIFFENER-S1

8mm THICK METAL
(SCALE 1:5)



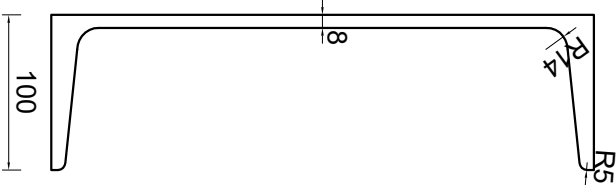
FRONT VIEW STIFFENER-S1

8mm THICK METAL
(SCALE 1:5)



DETAIL OF ANCHOR BAR

(SCALE 1:10)



ISMC-350

(SCALE 1:5)

CLIENT:



Department of Urban Development &
Building Construction (DUDBC)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

ISSUES & REVISIONS

NO	DATE	REVISION
1	18 th DEC 2024	1st
2	14 th JAN 2026	2nd

SHEET TITLE:

Details-3

GARAGE TRUSS BLOCK

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT

Team Leader:

CLIENT

Reviewed By:

Er. Ajay Shrestha

Designed By:

Er. Enu Rai 17819 Civil "A"
Er. Arbind Yadav

PAPER SIZE: A3

SCALE: AS SHOWN

DATE: Feb. 2024

SHEET NO ST-16

CONSULTANT:

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and DIGICON (P.) Ltd.

Mid Baneshwor, Kathmandu

REVIEWED BY:

SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV





Government of Nepal

Ministry of Urban Development

Department of Urban Development and Building Construction

Regional Urban Development Project

Project Coordination Office

Babarmahal, Kathmandu

STRUCTURAL DRAWINGS of CLOCK TOWER

LUMBINI SANSKRITIK MUNICIPALITY

Structural Drawing	
Name of Sheet	Sheet Number
CLOCK TOWER	
List of Drawing	C0
General Notes	01
Trench & Footing Layout plan	02
Column Layout Plan	03
Beam Layout Plan	04
L-Section of Beam	05
Section Details	06

PROJECT TITLE	
Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC) Development Project	
ISSUES & REVISIONS	
NO	DATE
1	18 th DEC 2024
2	14 th JAN 2026
SHEET TITLE: Table of Contents	
CLOCK TOWER	
SITE INFORMATION:	
NAME: Bus Terminal	
AREA:	
LOCATION: Lumbini Sanskritik Municipality	
CONSULTANT	CLIENT
Team Leader:	Approved By:
Reviewed By: Er. Ajay Shrestha	
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav	
PAPER SIZE: A3	SCALE: AS SHOWN
DATE: Feb, 2024	SHEET NO ST- 00

STRUCTURAL NOTES:

1. STRUCTURAL NOTES AND TYPICAL DETAILS SHALL APPLY TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED.
2. AS PER GEOTECHNICAL REPORT, FOUNDATION ARE DESIGNED FOR SOIL BEARING CAPACITY OF 77.8 KN/m² AND SETTLEMENT OF 25mm.
3. PLACING OF FOUNDATION CONCRETE SHALL BE DONE AS SOON AS EXCAVATION HAVE BEEN COMPLETED & APPROVED BY THE SITE ENGINEER.
4. CAST IN SITU CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE CUBE STRENGTH OF 20 MPA FOR ALL RCC WORKS.
5. REINFORCEMENT STEEL SHALL BE THERMOMECHANICALLY TREATED DEFORMED BARS HAVING MINIMUM YIELD STRENGTH OF 500 MPa & CONFORMING TO NS 191-2046
6. CEMENT USED SHALL BE ORDINARY PORTLAND CEMENT CONFORMING TO NS 49-2041.
7. BARS IN COLUMNS SHALL BE SPLICED ONLY AT MID HEIGHT OF COLUMN, 50% BARS AT A TIME / ALTERNATIVE FLOOR (JOINT) AS PER DUCTILE DETAILING IS 13920- 2016
8. BARS SPLICING IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN ON DRAWING.
9. UNLESS OTHERWISE INDICATED, ALL CONSTRUCTION JOINTS SHALL BE ROUGHED JOINTS OF MINIMUM AMPLITUDE 5MM.
10. CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYERS) OF BARS=25mm.
11. PROVIDE SHEAR REINFORCEMENT OF 100 mm c/c AT LAP LOCATIONS.
12. NO MEASUREMENT CAN BE DIRECTLY TAKEN FROM THE PRINT ALSO WRITTEN DIMENSION SHALL BE FOLLOWED.
13. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.
14. ANY DISCREPANCY OR OMISSION IN THIS DRAWING IF FOUND SHALL BE REPORTED IMMEDIATELY.
15. CLEAR COVER TO MAIN REINFORCEMENT STEEL BE IN ACCORDANCE WITH IS 456:2000 & AS SPECIFIED ON STRUCTURAL DRAWINGS.
 - a. FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = 50mm
 - b. FOR LONGITUDINAL (VERTICAL) BARS IN COLUMN = 40mm
 - c. FOR MAIN BARS IN BEAMS = 25mm
 - d. FOR OUTER BARS IN SLAB & STAIRCASE = 20mm
16. DEVELOPMENT / LAP LENGTH (Ld.) FOR BARS

DEVELOPMENT LENGTH			
Grade of Grate of Steel	Grade of Concrete	f_{ck}	f_y
		20	25
Tension Development (Beam, Slab and Footing)	500	57Ø	49Ø
Compression Development (Column)	500	46Ø	39Ø

ABBREVIATIONS:-

2L	TWO LEGGED STIRRUP
4L	FOUR LEGGED STIRRUP
@	AT
Ø	DIAMETER OF REBAR
C/C	CENTER TO CENTER
NOS.	NUMBERS
Th.	THROUGH BAR
Ex.	EXTRA BAR
L	SPAN LENGTH
Ldh or Ld	DEVELOPMENT LENGTH
PB	PLINTH BEAM
FB	FOUNDATION BEAM
MB	MAIN BEAM
SB	SECONDARY BEAM
mm	MILIMETER
PCC	PLAIN CEMENT CONCRETE

CLIENT:



Department of Urban Development & Regional Urban Development Project (RUDP)
Regional Urban Development Project (RUDP)
Project Coordination Office
Babarmahal, Kathmandu, Nepal

PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of Detail Project Report of West Urban Corridor (WUC)
Development Project

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NO	DATE	REVISION
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2	14 th JAN 2026	2nd

SHEET TITLE:

General Notes
CLOCK TOWER

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT	
Team Leader:		Approved By:	
Reviewed By: Er. Ajay Shrestha			
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav			
PAPER SIZE: A3		SCALE: AS SHOWN	
DATE: Feb. 2024		SHEET NO ST- 01	

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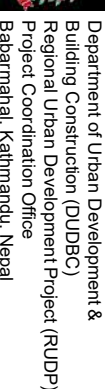
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SUPERVISION & DESIGN CONSULTANT (SDC)

Building Design Authority(P) Ltd.- BN- UDAYA JV



CLIENT:



PROJECT TITLE

Pre-Feasibility Study, Feasibility Study and Preparation of
Detail Project Report of West Urban Corridor (WUC)
Development Project

[illegible]

SHEET TITLE: Section Detail

CLOCK TOWER

SITE INFORMATION:

NAME: Bus Terminal

AREA:

LOCATION: Lumbini Sanskritik Municipality

CONSULTANT		CLIENT	
Team Leader:		Approved By:	
Reviewed By: Er. Ajay Shrestha			
Designed By: Er. Enu Rai 17819 Civil "A" Er. Arbind Yadav			
PAPER SIZE: A3		SCALE: AS SHOWN	
DATE: Feb. 2024		SHEET NO ST- 06	

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Mid Baneshwor, Kathmandu

REVIEWED BY:

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