

CONSTRUCTION OF DINING SHED AT AREKHA MIDDLE SECONDARY SCHOOL



འབྲུག་རྒྱལ་ཁབ་ཀྱི་འཕུལ་གྲས་ལས་ཁུངས་
DrukGreen

Project: Construction of Dining shed at AMSS
Location: AMSS

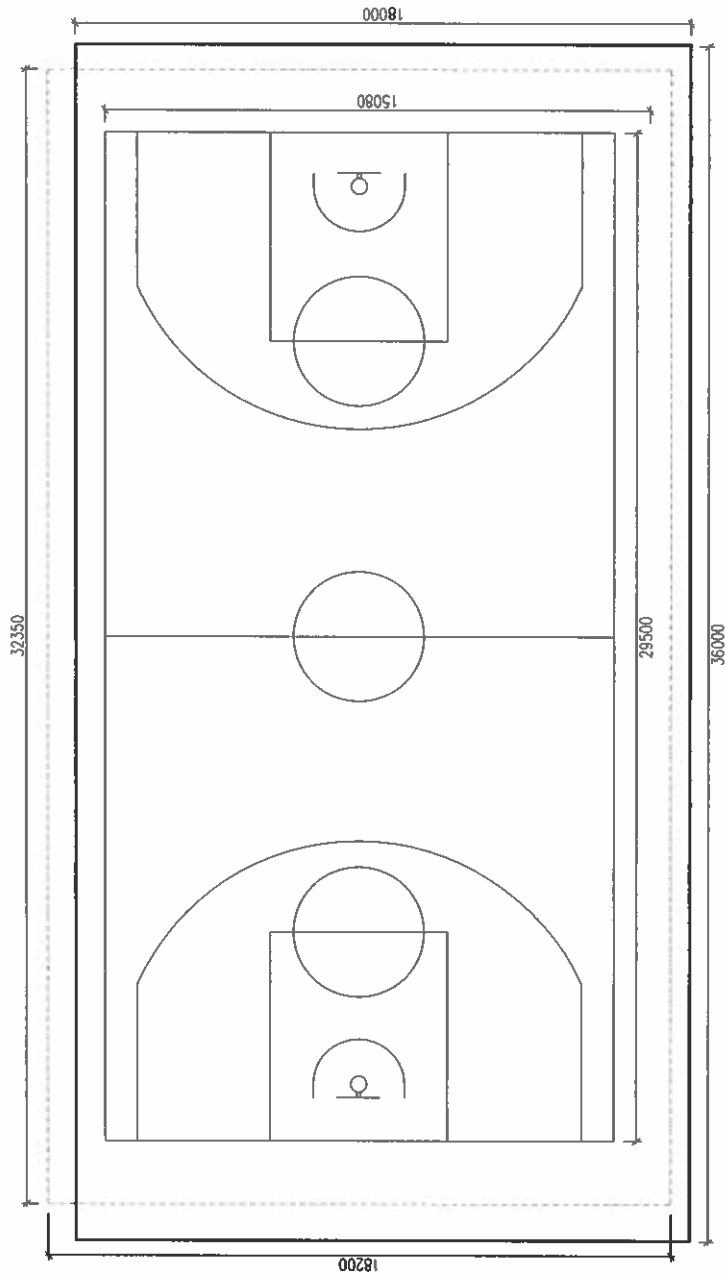
Drawing Title:-
Coverage

Drawn by:-
Tandin Wangchuk,
Assistant Engineer

Check by:-
Head,
Civil Maintenance Section

Approved by:-
General Manager

Drwg No -
**All units are in mm
unless otherwise specified



LAY OUT PLAN

- Main court
- Existing Concrete area
- Shed Layout



Project Construction of Dining Shed at AMSS

Location: AMSS

Drawing Title:-

Layout Plan

Drawn by:-

Tandin Wangchuk,
Assistant Engineer

Check by:-

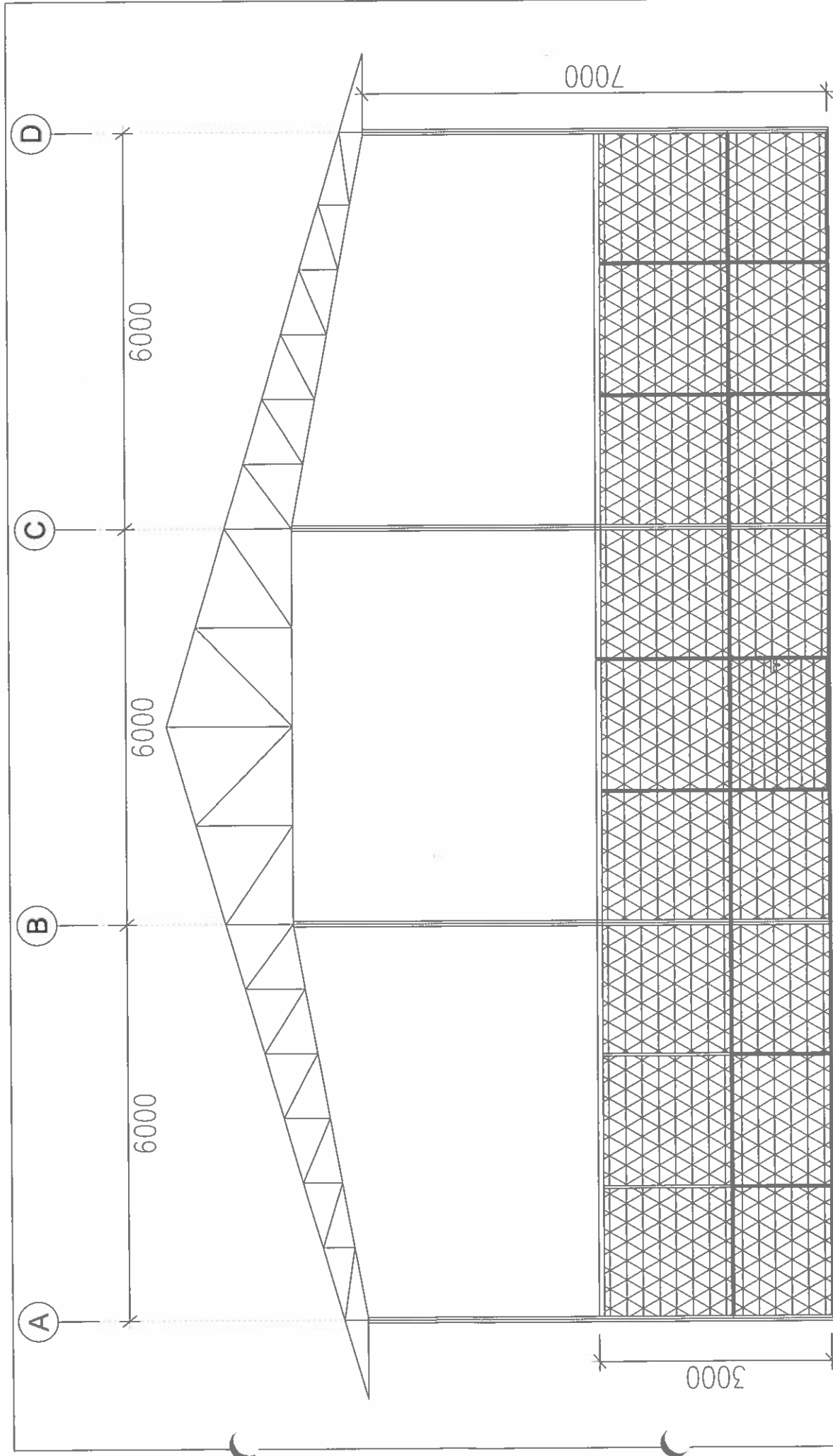
Head,
Civil Maintenance Section

Approved by:-

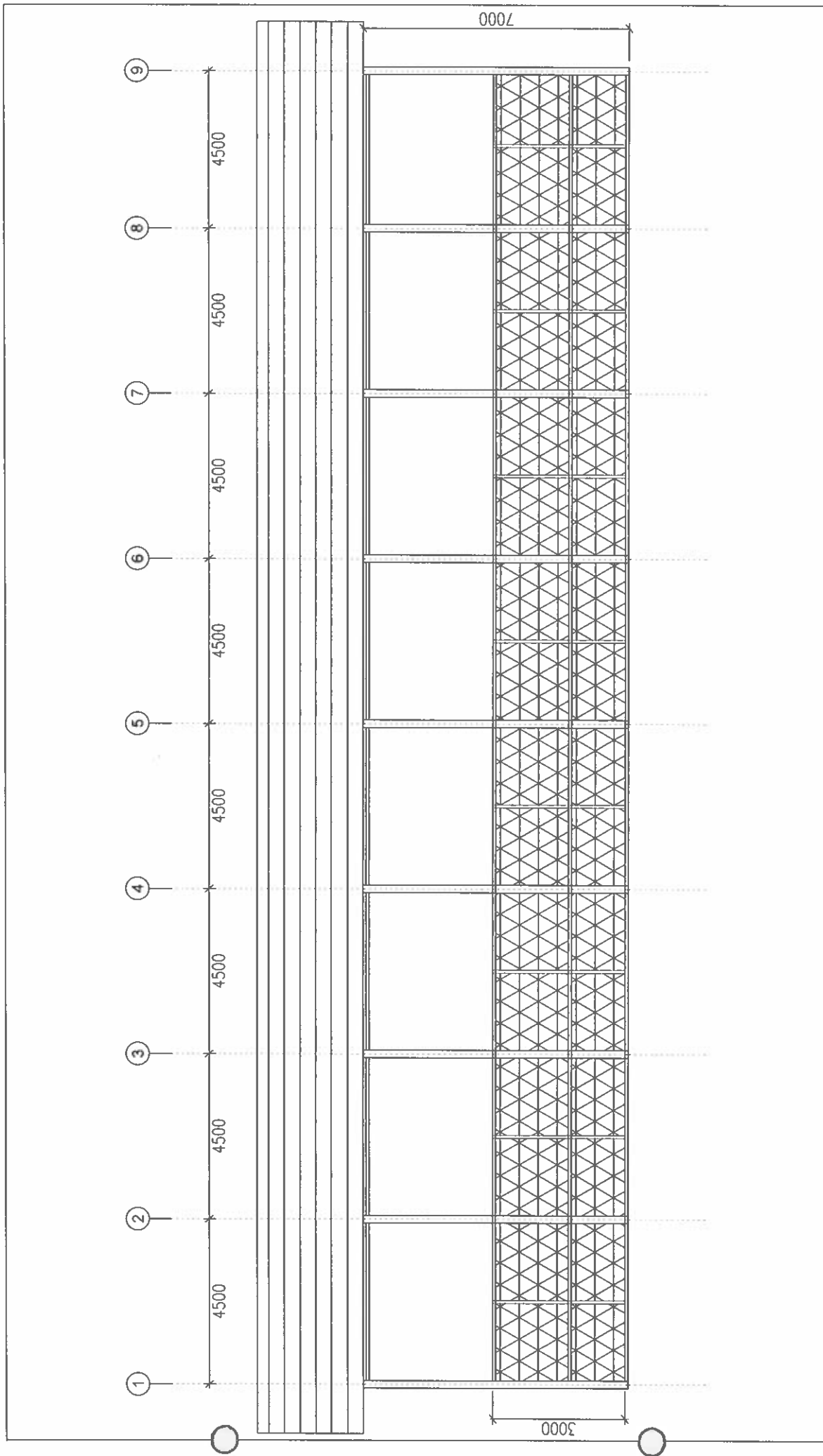
General Manager

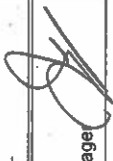
Drwg.No - 02

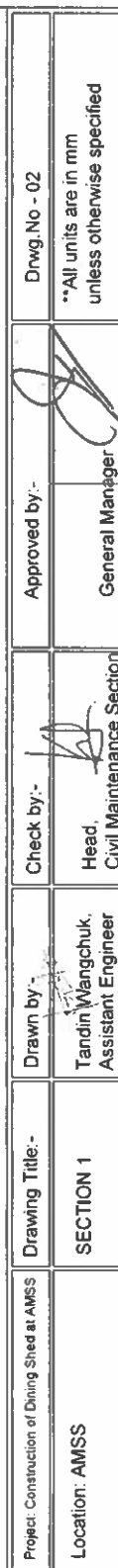
**All units are in mm
unless otherwise specified

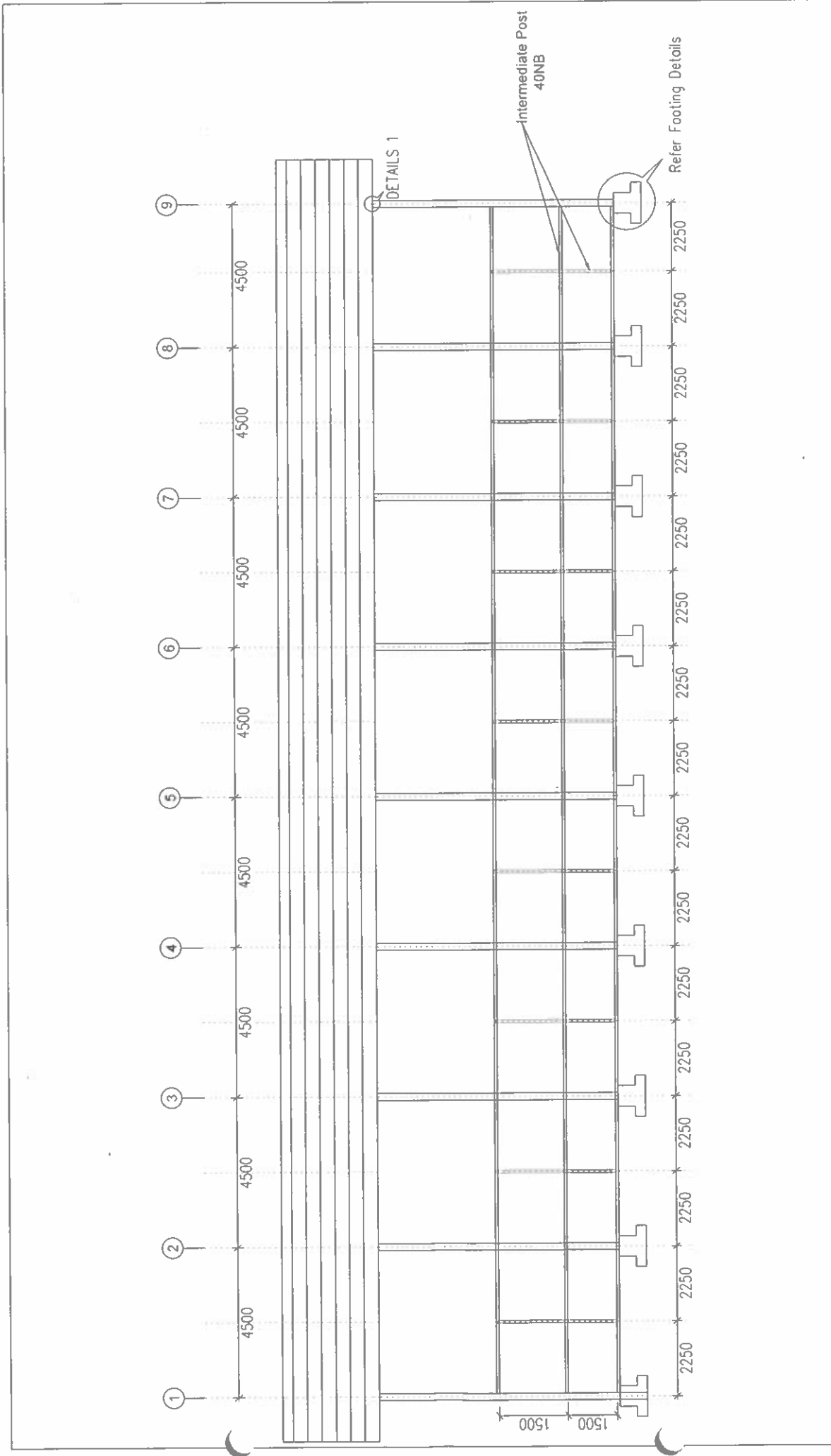


 DrukGreen འབྲུག་གི་མཁོ་སྤྱོད་ལས་ཁུངས་		Project: Construction of Dining Shed at AMSS	Drawing Title:-	Drawn by:-	Check by:-	Approved by:-	Drwg.No - 02
Location: AMSS		Elevation 1&2	Tandin Wangchuk, Assistant Engineer	Head, Civil Maintenance Section	General Manager	**All units are in mm unless otherwise specified	

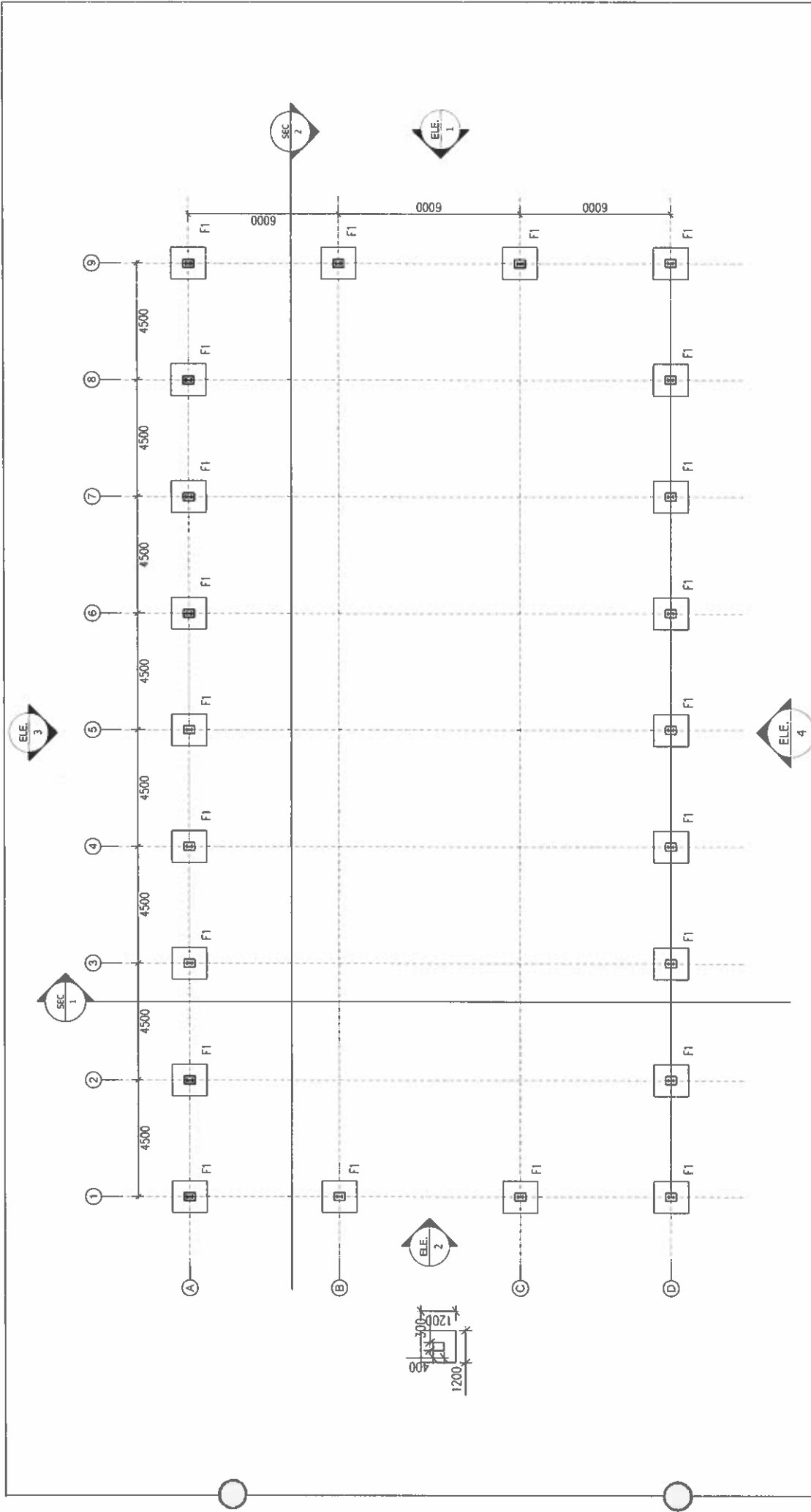


	Project: Construction of Dining Shed at AMSS Location: AMSS	Drawing Title - ELEVATION 3	Drawn by:- Tandin Wangchuk, Assistant Engineer	Check by:- Head, Civil Maintenance Section	Approved by:-  General Manager	Drwg.No - 02 **All units are in mm unless otherwise specified
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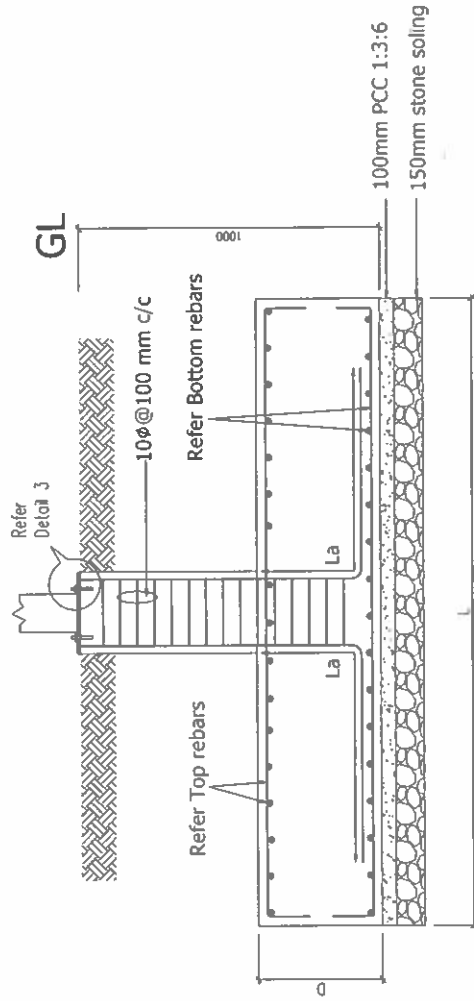


	Project: Construction of Dining Shed at AMSS	Drawing Title:- SECTION 2	Drawn by:- Tandin Wangchuk, Assistant Engineer	Check by:- Head, Civil Maintenance Section	Approved by:- General Manager	Drwg.No - 02 **All units are in mm unless otherwise specified
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FOUNDATION PLAN

	Project: Construction of Dining Shed at AMSS	Drawing Title:-	Drawn by:- Tandin Wangchuk, Assistant Engineer	Check by:- Head, Civil Maintenance Section	Approved by:- General Manager	Drwg. No - 02 **All units are in mm unless otherwise specified
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FOOTING DETAILS

FOOTING NO.	FOOTING SIZE & DEPTH(MM)			BOTTOM REINFORCEMENT (BOTHWAYS)	TOP REINFORCEMENT (BOTHWAYS)
	L	B	D		
F1	1200	1200	300	16Ø@150C/C	12Ø@150C/C

NOTE:
CONCRETE - M20
TMT BARS - FE500



Project: Construction of Dining Shed at AMSS
Location: AMSS

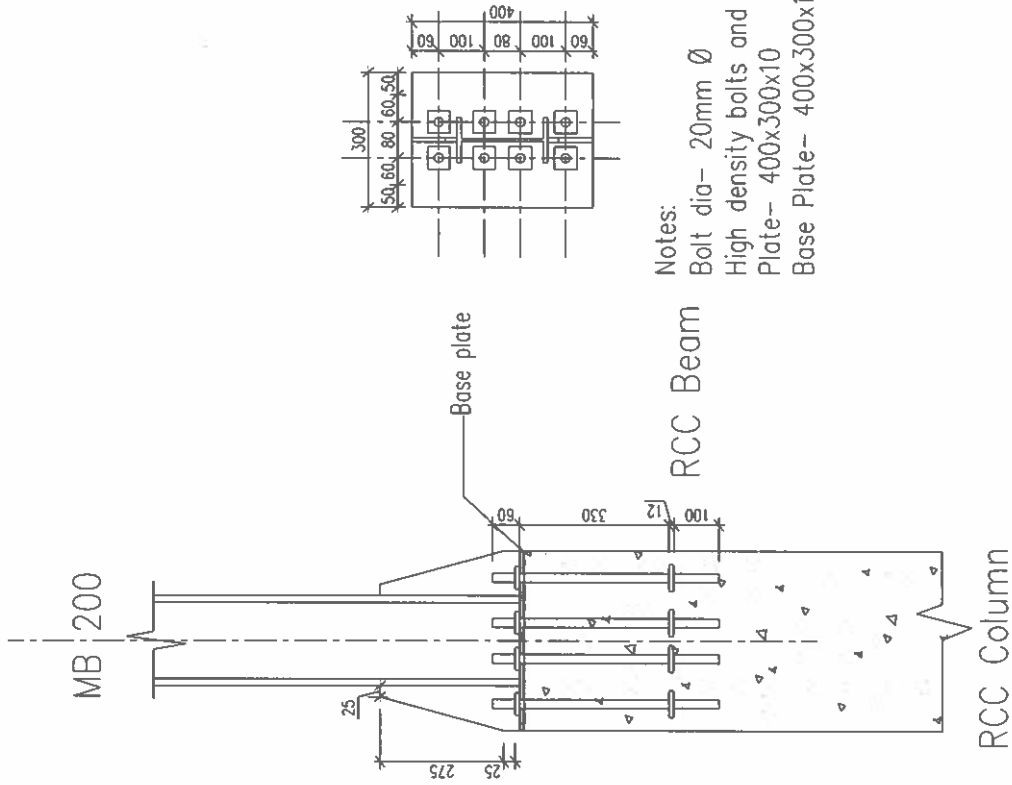
Drawing Title :-
Footing Detail

Drawn by :-
Tandin Wangchuk,
Assistant Engineer

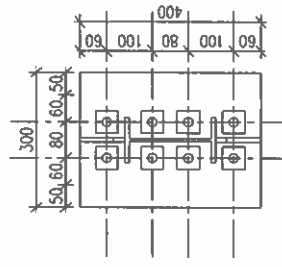
Check by :-
Head,
Civil Maintenance Section

Approved by :-
General Manager

Drwg.No - 03
**All units are in mm unless otherwise specified

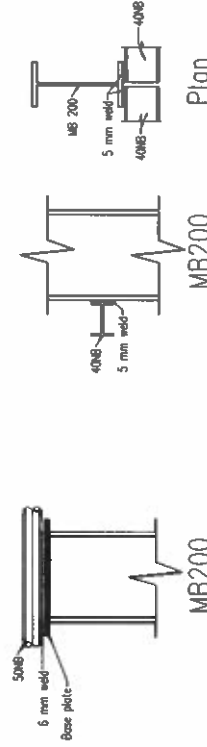


DETAIL 3

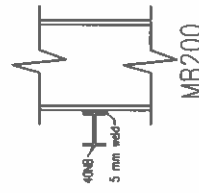


Notes:

Bolt dia- 20mm Ø
High density bolts and nuts
Plate- 400x300x10
Base Plate- 400x300x10



DETAIL 1



DETAIL 2



Project: Construction of Dining Shed at AMSS
Location: AMSS

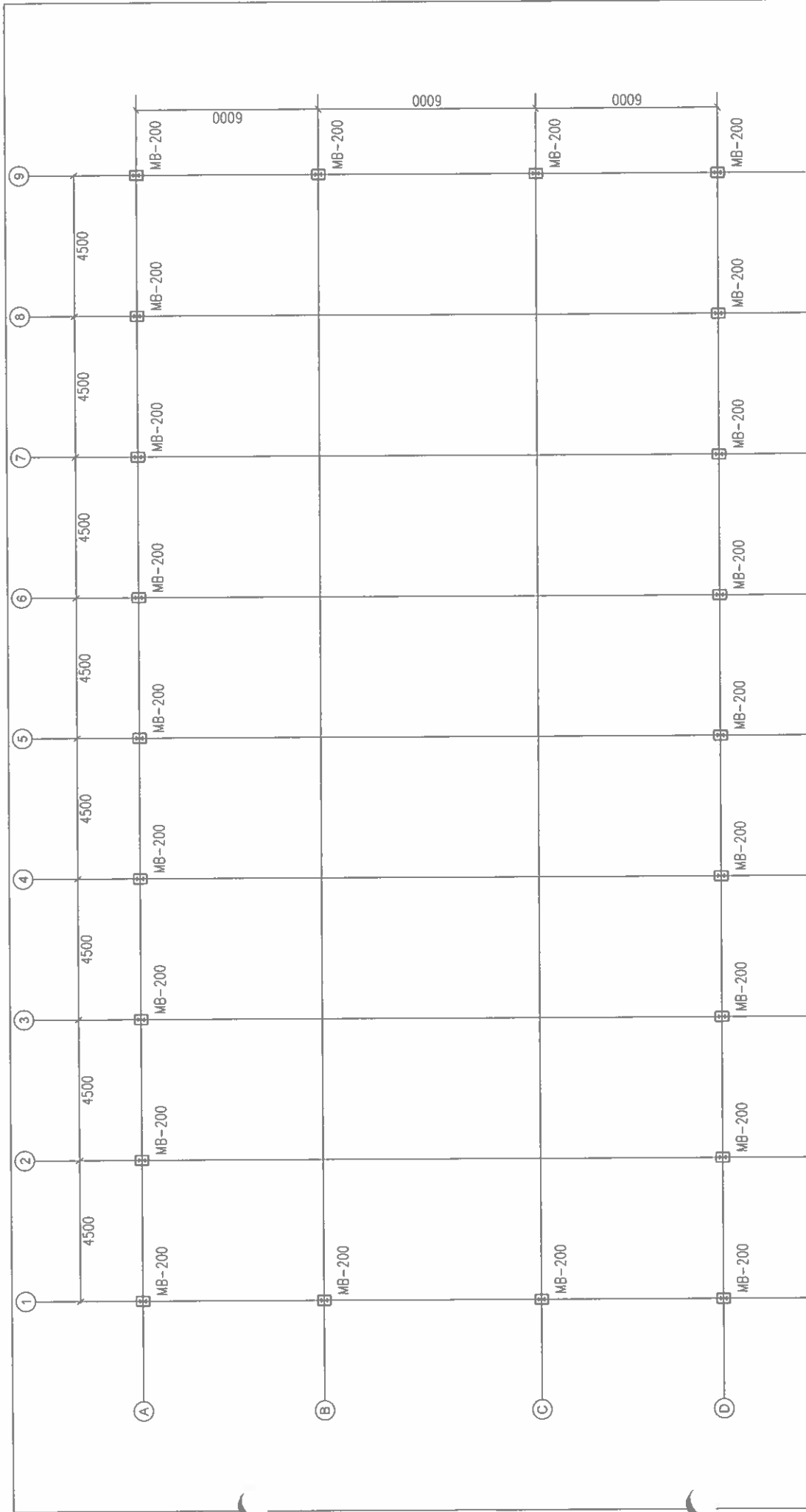
Drawing Title:-
Detail

Drawn by:-
Tandin Wangchuk,
Assistant Engineer

Check by:-
Head,
Civil Maintenance Section

Approved by:-
General Manager

Drwg. No - 03
**All units are in mm
unless otherwise specified



COLUMN PLAN

Project: Construction of Dining Shed at AMSS	Drawing Title:-	Drawn by:-	Check by:-	Approved by:-	Drwg. No - 02
Location: AMSS	COLUMN PLAN	Tandin Wangchuk, Assistant Engineer	Head, Civil Maintenance Section	General Manager	**All units are in mm unless otherwise specified

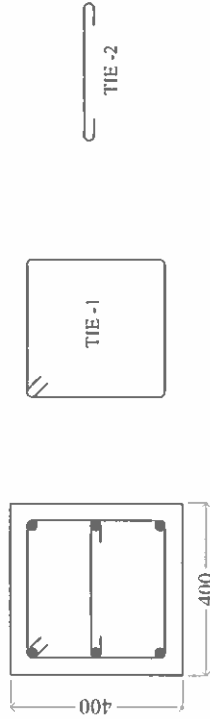


COLUMN SCHEDULE

Type	Size	Main Bar	Ties
C	400 x 400	6-16Ø	100 @ 100 c/c

NOTE:
CONCRETE - M20
TMT BARS - FE500
CLEAR COVER - 40MM

TIE ARRANGEMENTS



TYPICAL COLUMN DETAILS SHOWING TIES

NOTE:

- All splices in Columns should be provided at midheight of Columns.
- Splicing of column reinforcement bars till plinth beam level is not permitted.
- Min. Development Length (OR) Min. Lap Splice Length (L_d) = 57Ø

$$L_d = 16\phi = 912\text{mm}$$

$$20\phi = 1140\text{mm}$$

$$25\phi = 1425\text{mm}$$

D = Overall depth of the beam
d = dia. of tie



Project: Construction of Dining Shed at AMSS
AMSS

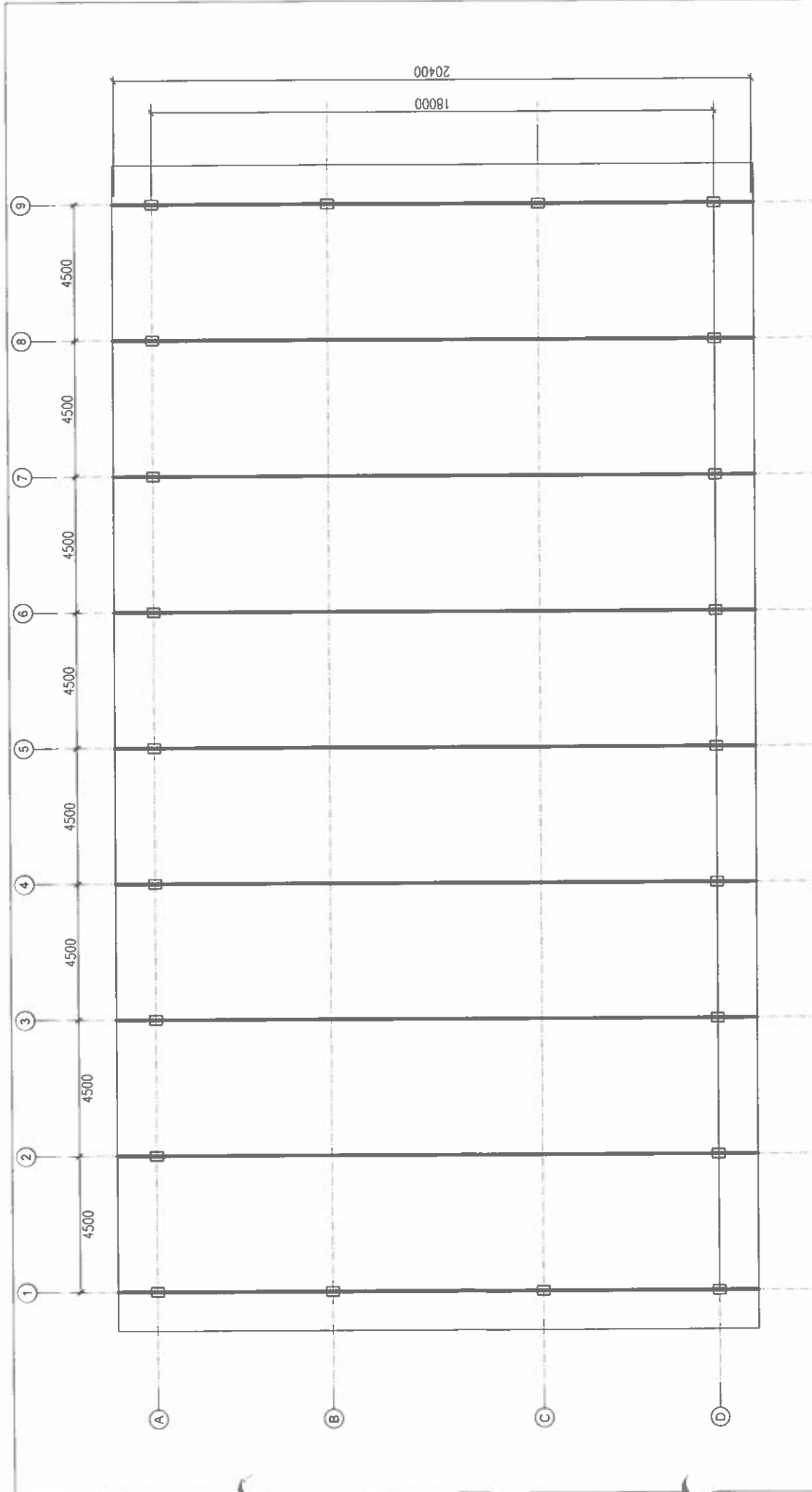
Drawing Title:-
COLUMN DETAILS

Drawn by:-
Tandin Wangchuk,
Assistant Engineer

Check by:-
Head,
Civil Maintenance Section

Approved by:-
General Manager

Drwg. No - 02
**All units are in mm
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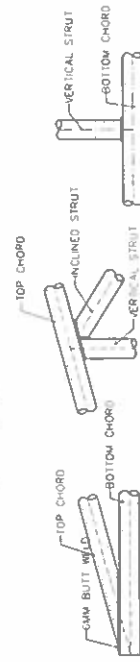
TRUSS LAYOUT PLAN

 DrukGreen འདྲུག་རྩིས་ཀྱི་ལྷན་ཁག་	Project: Construction of Dining Shed at AMSS	Drawing Title:-	Drawn by:-	Check by:-	Approved by:-	Drwg.No - 02
	AMSS	TRUSS LAYOUT	Tandin Wangchuk, Assistant Engineer	Head, Civil Maintenance Section	General Manager	**All units are in mm unless otherwise specified

- NOTES:
- All dimensions are in mm unless stated otherwise.
 - Connection details shown are for different types of joints and to be taken same for similar joints.
 - Height of RCC prop to be taken as per Architectural drawings.
 - All members of truss joint shall be in welding.
 - Welding shall conform to IS 816 and thickness shall be 6mm.
 - All Steel Tube Sections and Plates shall conform to IS 1161 & IS 2062.
 - All MS Nuts & Bolts shall conform to IS 1363-1984 and Washers shall conform to IS 5374.
 - For flexible support, bolts shall not be tightened so as to allow easy sliding of sole plates.

SCHEDULE OF MAIN ROOF TRUSS MEMBERS

MEMBER	SIZE
Bottom Chord/Tie	65NB(76.1 mm OD, 3.6mm thick, 6.53Kg/m)
Rafter	65NB(76.1 mm OD, 3.6mm thick, 6.53Kg/m)
Post	4DNB (48.3mm OD, 3.2mm thick, 3.56Kg/m)
Strut	4DNB (48.3mm OD, 3.2mm thick, 3.56Kg/m)
Purlin	MS square pipe 50x50x3.2mm thick, 4.6Kg/m @ 1000mm c/c



DETAIL 1



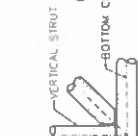
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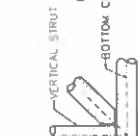
DETAIL 3



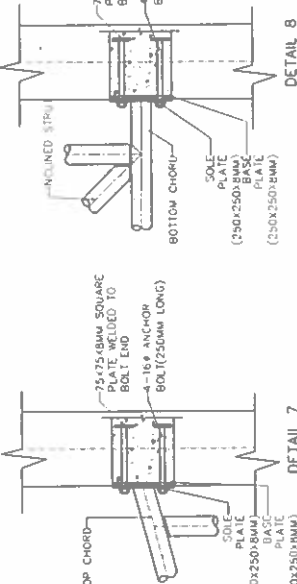
DETAIL 4



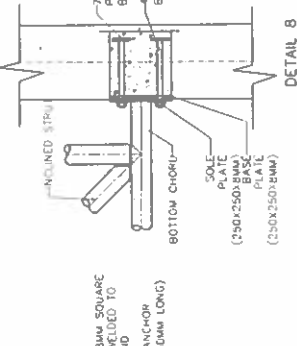
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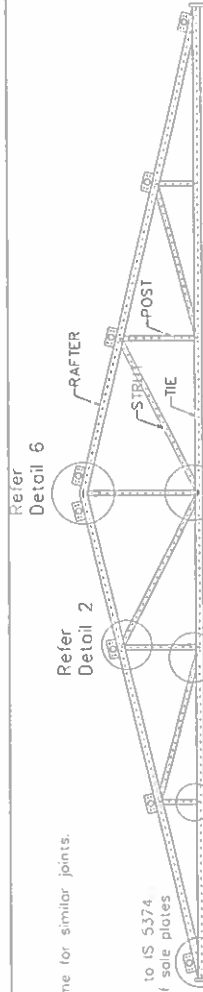
DETAIL 6



DETAIL 7



DETAIL 8



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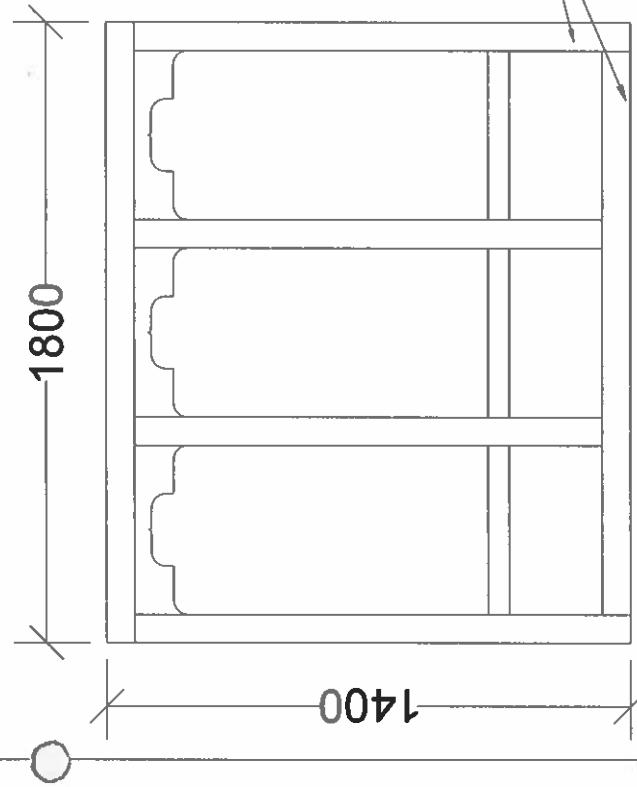
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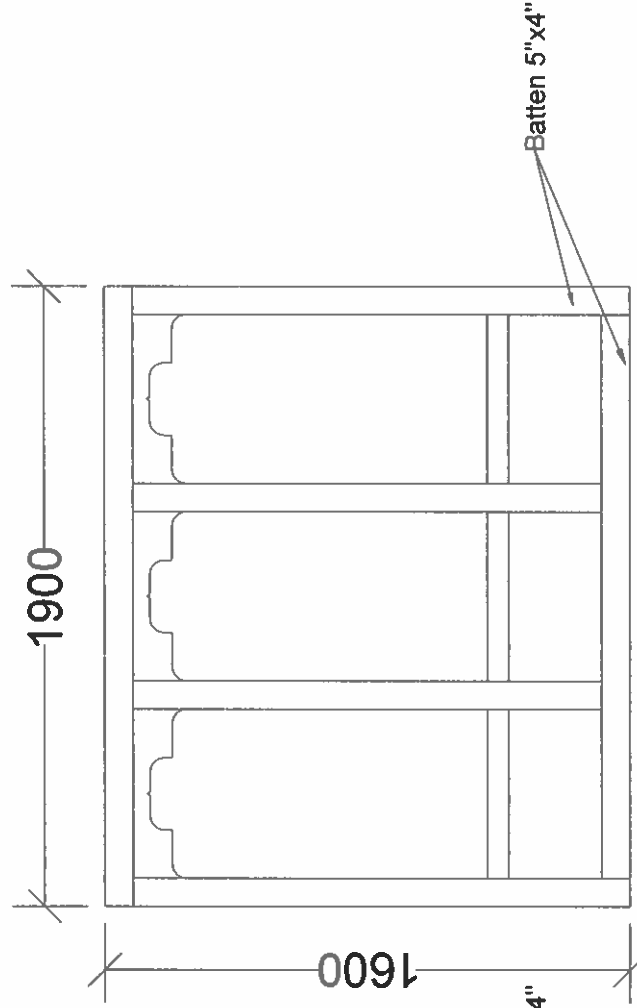
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Classroom Windows



Conference hall Windows



Project: Replacement of Windows
Location: AMSS

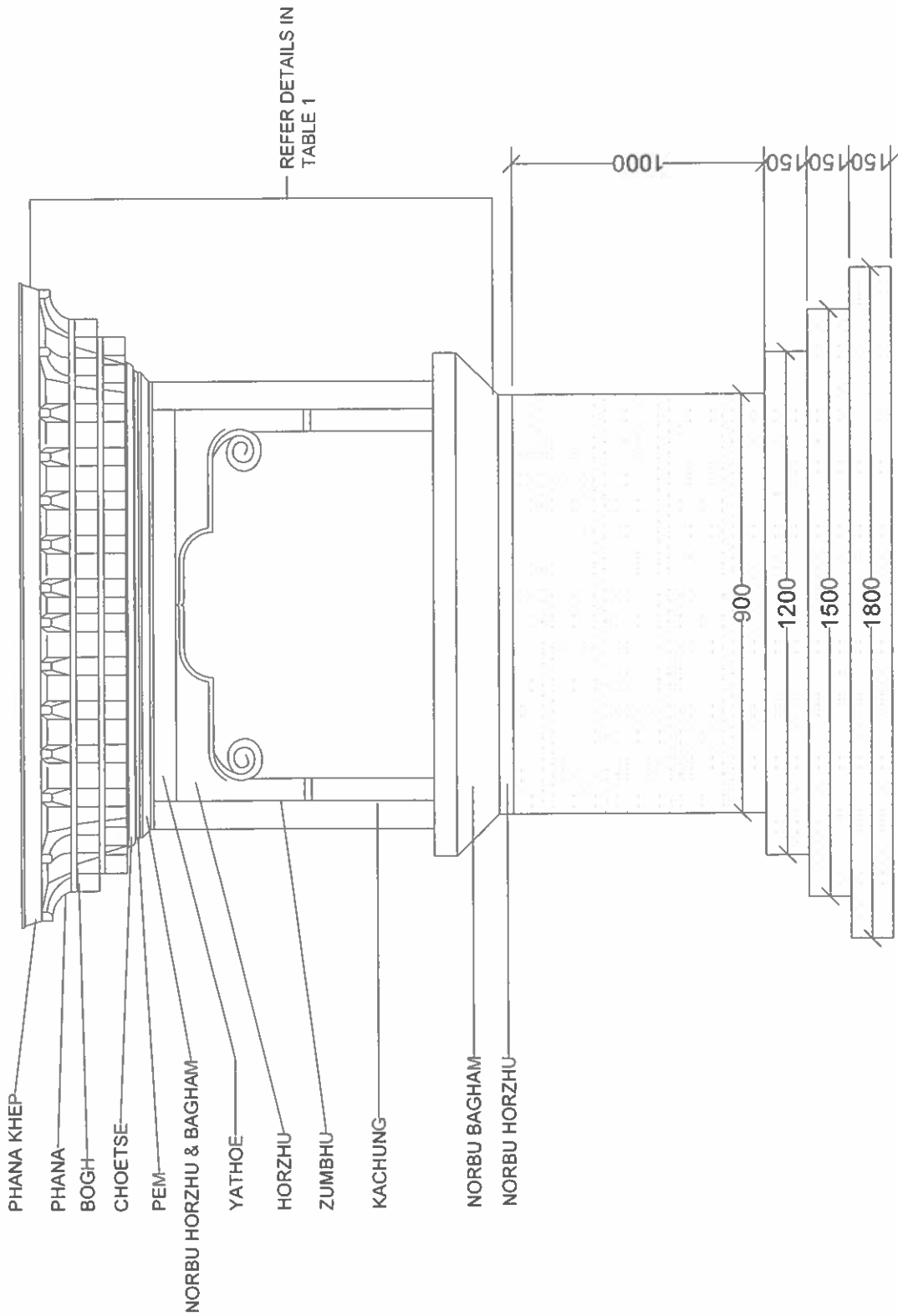
Drawing Title -
Window

Drawn by:-
Tandin Wangchuk,
Assistant Engineer

Check by:-
Head,
Civil Maintenance Section

Approved by:-
General Manager

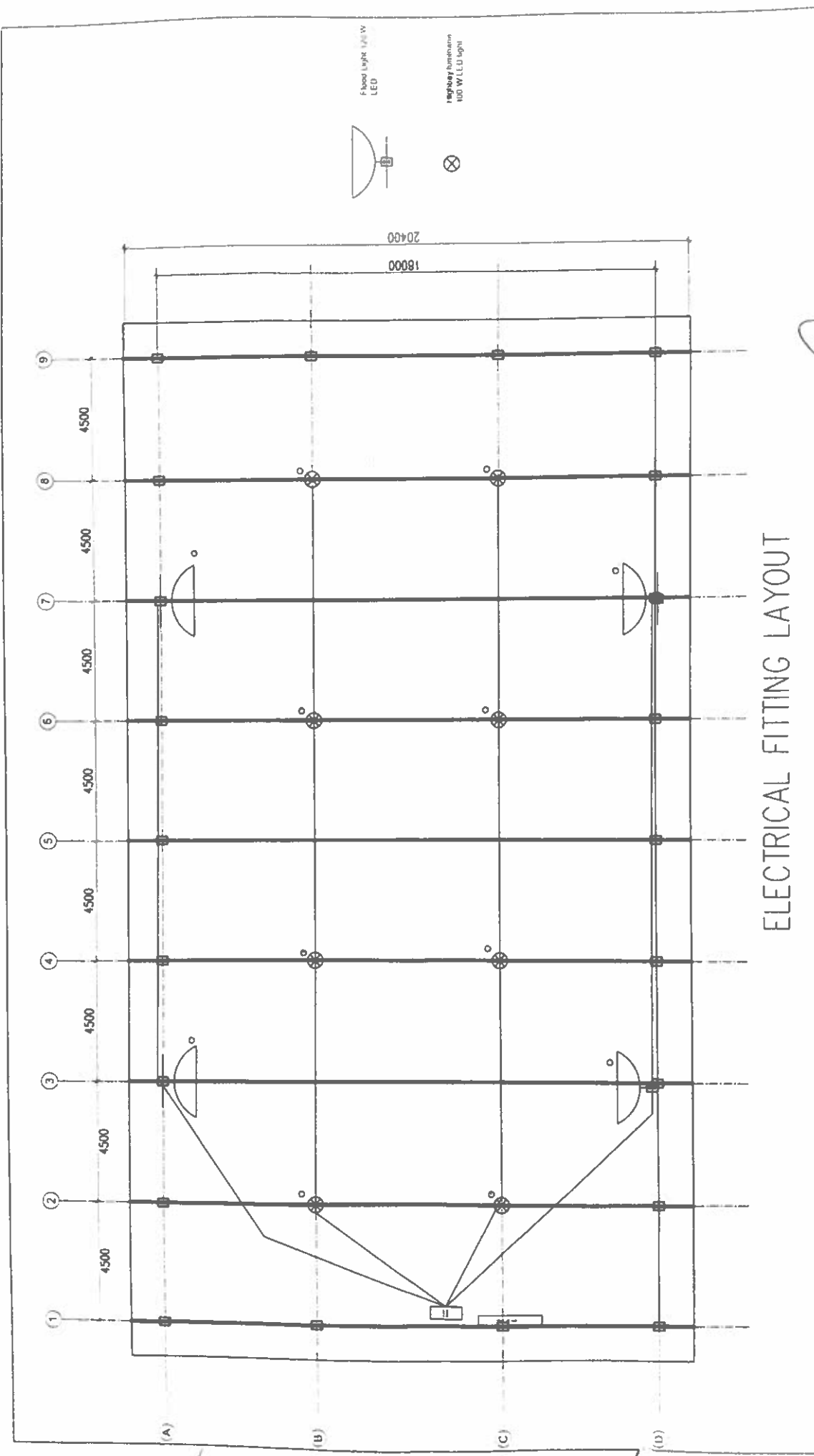
Drwg. No - 03
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unless otherwise specified



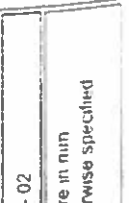
	Project Construction of Jamyang Phodrang Location: AMSS	Drawing Title:- TYPICAL ELEVATION	Drawn by:- Tandin Wangchuk, Assistant Engineer	Check by:-  Head Civil Maintenance Section	Approved by:-  General Manager	Drwg. No - 02 **All units are in mm unless otherwise specified
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TABLE 1; DETAIL DIMENSIONS

ITEMS	DIMENSIONS (MM)			Nos
	L	B	D	
PHANA KHEP	1800	130	150	4
PHANA KHEP	1750			4
BOGH	1750			8
PEM & CHOETSE	1400	200	150	4
NORBU HORZHU & BAGAM (UPPER)	1000	200	200	8
YATHOE & MATHOE	850	50	100	4
HORZHU	800	50	50	8
KACHUNG	800	100	100	8
ZUMBHU	800	100	100	4
NORBU HORZHU & BAGAM (LOWER)	1300	200	200	4



ELECTRICAL FITTING LAYOUT

 DrukGreen	Project Construction of Janyang Phodrang	Drawing Title -	Drawn by -	Check by -	Approved by -	Drwg.No - 02
Location: AMSS	Detail Dimensions	TP Sharma Head TSU	TP Sharma Head TSU	General Manager	**All units are in mm unless otherwise specified	

