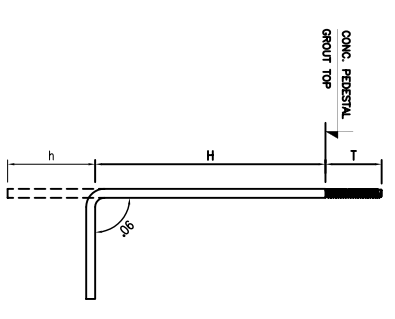


COLUMN LAYOUT PLAN



ANCHOR BOLT SCHEDULE

BOLT DESCRIPTION	USAGE	DL	H	h	T
AB 20x750	END FRAME	20	750	150	100
AB 20x750	MAIN FRAME	20	750	150	100

T=THREADED LENGTH

**FOR CLIENT USE**

1. APPROVED: FABRICATION WORK MAY BE TAKEN UP.
2. APPROVED WITH COMMENTS: FABRICATION MAY BE TAKEN UP INCORPORATING COMMENTS.
3. TO BE RESUBMITTED AFTER INCORPORATING COMMENTS FOR APPROVAL.

(PLEASE TICK ✓ THE APPROPRIATE ONE)

SEAL & SIGNATURE

**NOTES:-**  
1. ALL DIMENSIONS ARE IN MM.

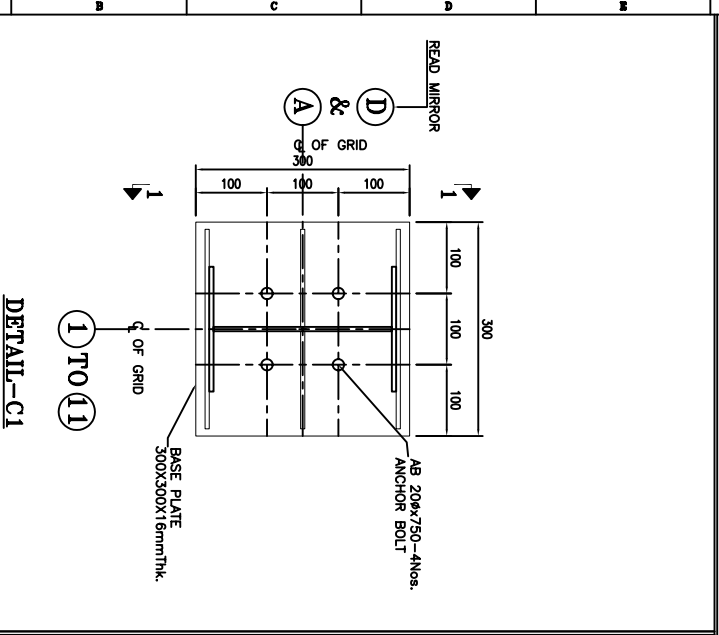
REVISION	DATE	BY	REASON

Project: **M/s. BHARAT HEAVY ELECTRICALS LTD.**  
(CLOSED SHEET)  
Drawing Title: **ANCHOR BOLT DRAWING**  
(SECTION & DETAILS)

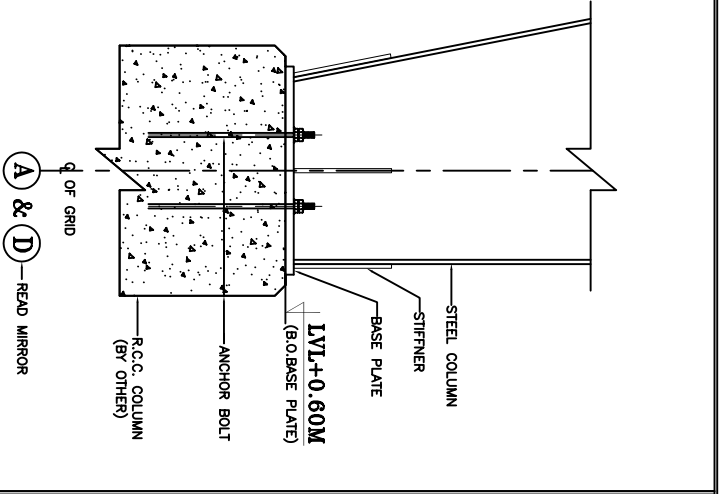
Client: **M/s. BHARAT HEAVY ELECTRICALS LTD.**  
STEELCLAD INFRA PRIVATE LIMITED,  
46 ANSAL PLAZA, VAISHALI,  
E-mail: business@steelclad.in  
Ph-01204957400 FAX-1204957408

Drawn By: **AKASH KUMAR** Scale: 1:125  
Checked By: **AKASH KUMAR** Project No: **SE/2-080**  
Project: **STEELCLAD INFRA PRIVATE LIMITED**  
Date: **04.01.2011**  
Drawing No: **ES**  
Rev: **1** of **1**

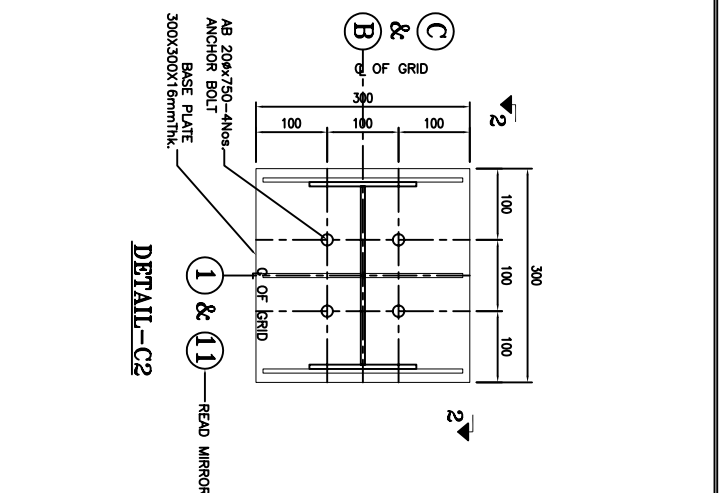
**NOTE:-**  
1. This drawing is prepared by the design engineer. It is subject to the approval of the client. The client is responsible for the accuracy of the data provided. The design engineer is not responsible for the accuracy of the data provided.  
2. The client is responsible for the accuracy of the data provided. The design engineer is not responsible for the accuracy of the data provided.  
3. The client is responsible for the accuracy of the data provided. The design engineer is not responsible for the accuracy of the data provided.



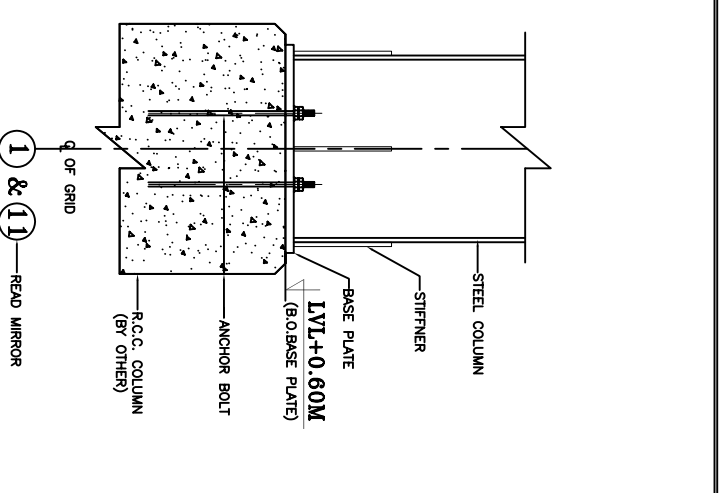
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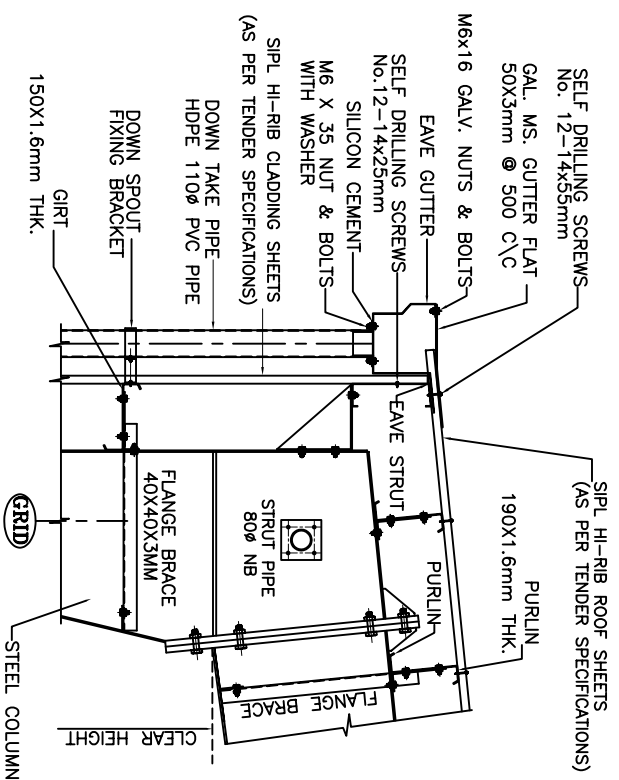
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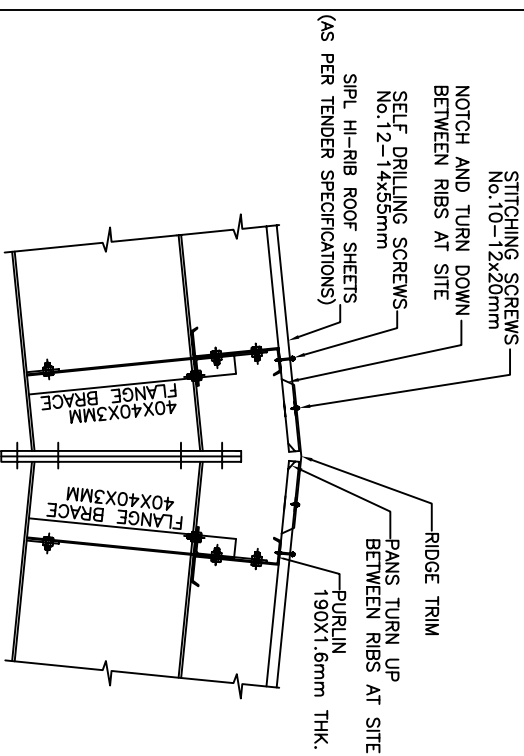
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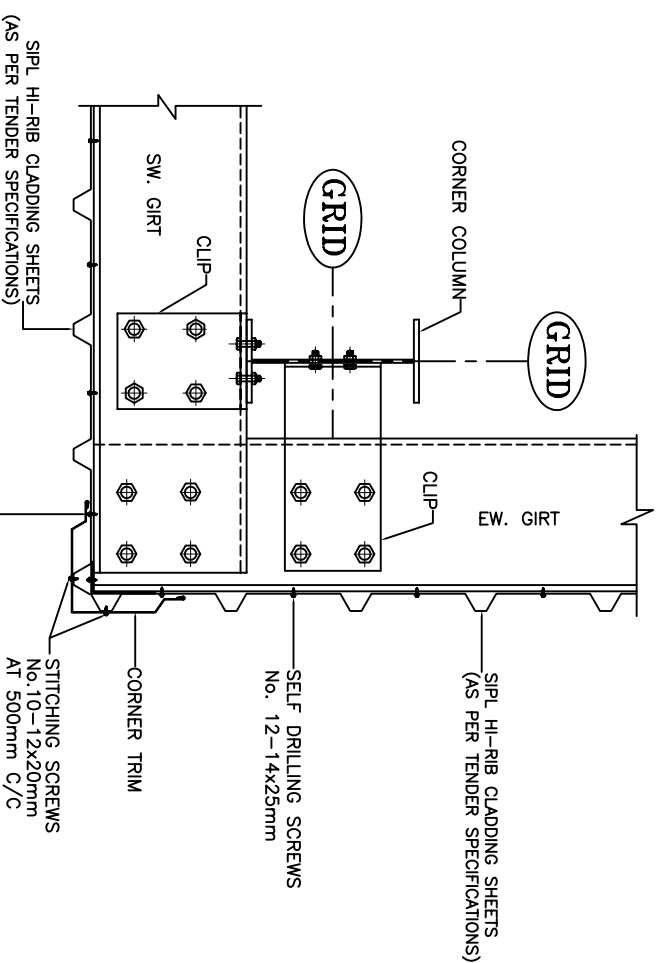
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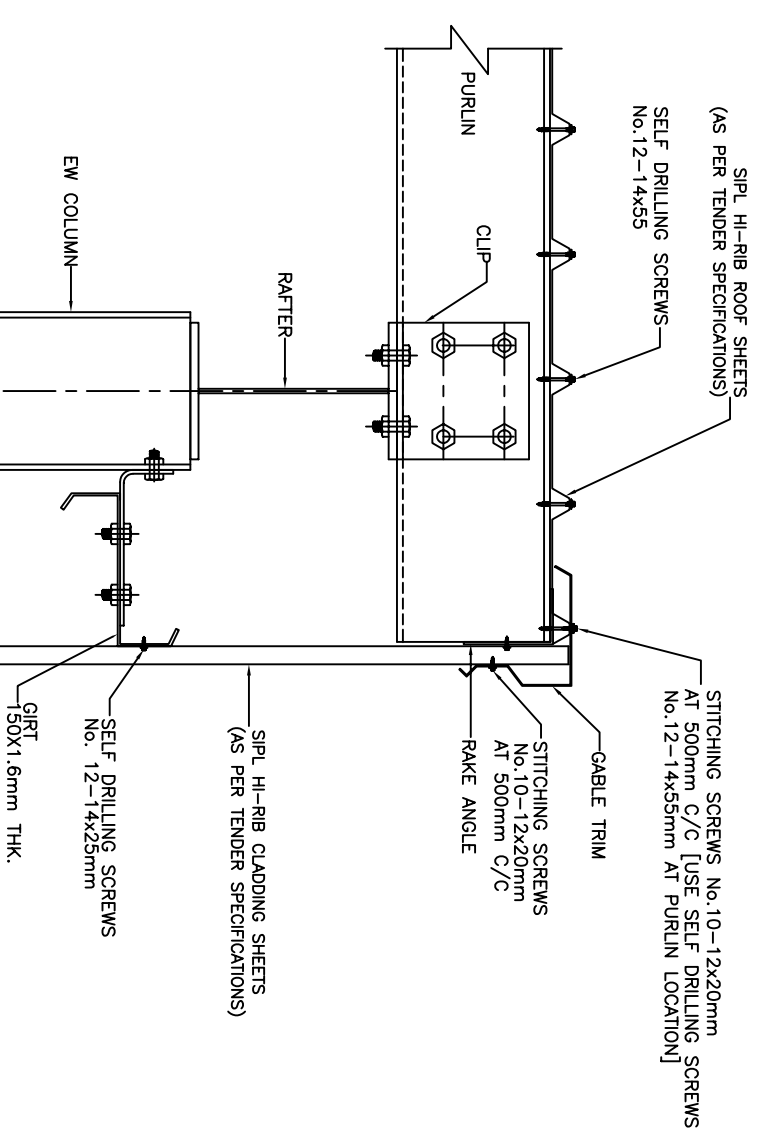
**EAVES DETAIL**



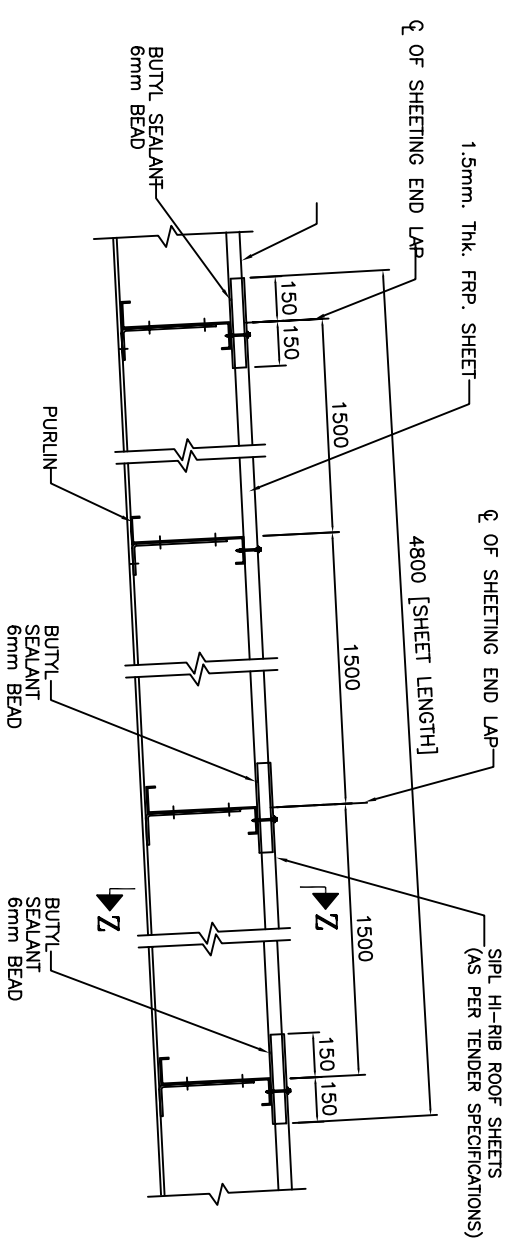
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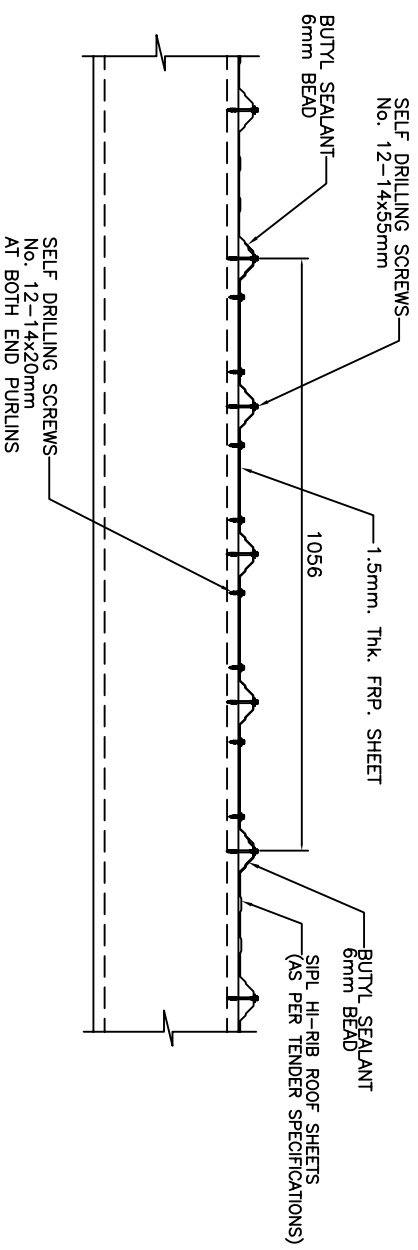
**TYP. CORNER DETAIL**



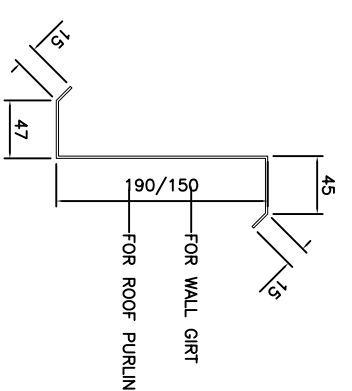
**TYP. GABLE END DETAIL**



**TYP. FRP. SHEET FIXING DETAIL**



**SECTION Z-Z**

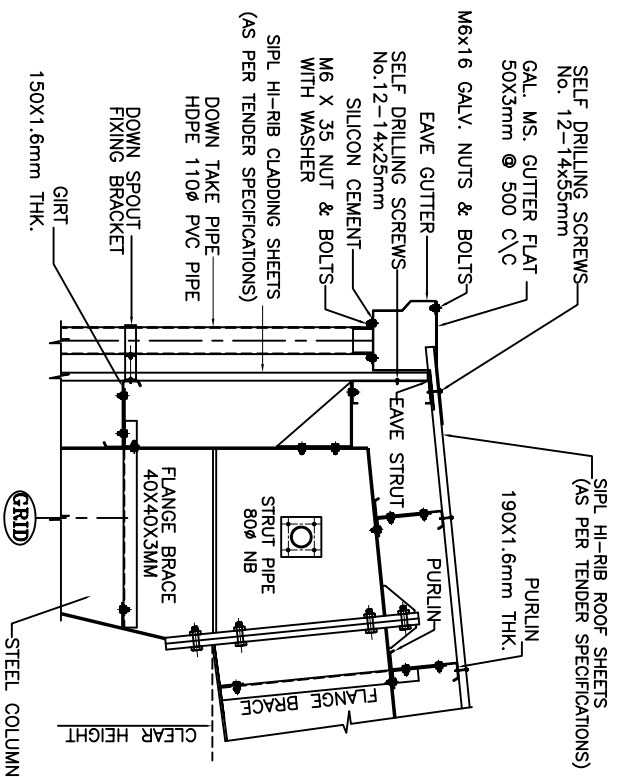


**TYP. PURLIN & GIRT DETAIL**

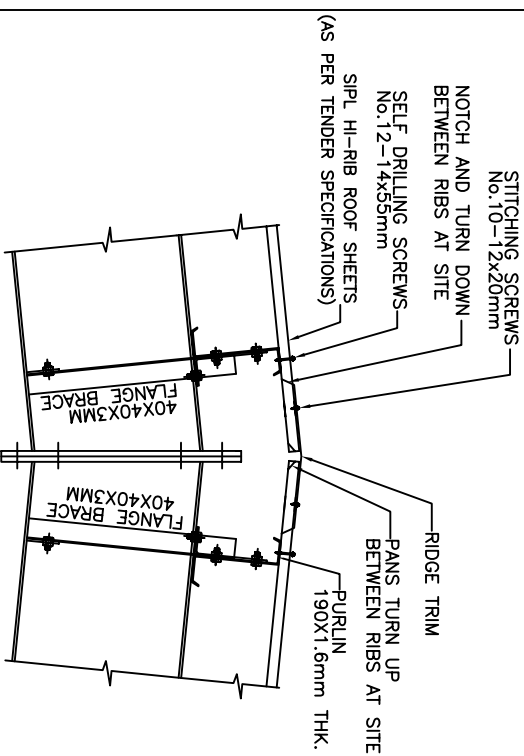
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**Project:** M/s. BHARAT HEAVY ELECTRICALS LTD.  
**Building:** CLOSED SHED WITH MM OFFICE AND C & I ROOMS  
**General Arrangement Drawing**  
**Client:** M/s. BHARAT HEAVY ELECTRICALS LTD.  
**Consultant:** STEELCLAD INFRA PRIVATE LIMITED,  
 46 ANSAL PLAZA, VAISHALI  
 E-mail: business@steelclad.in  
 Ph-0120-4957400 FAX-0120-4957408  
**Drawn by:** LALITHA  
**Checked by:** LALITHA  
**Approved by:** SURESH K  
**Date:** 14.01.2011  
**Scale:** 1:100  
**Sheet No.:** 04-01  
**Total No. of Sheets:** 04-01  
**Project No.:** SRTV/1-088  
**Revision:** (No. & of) R3

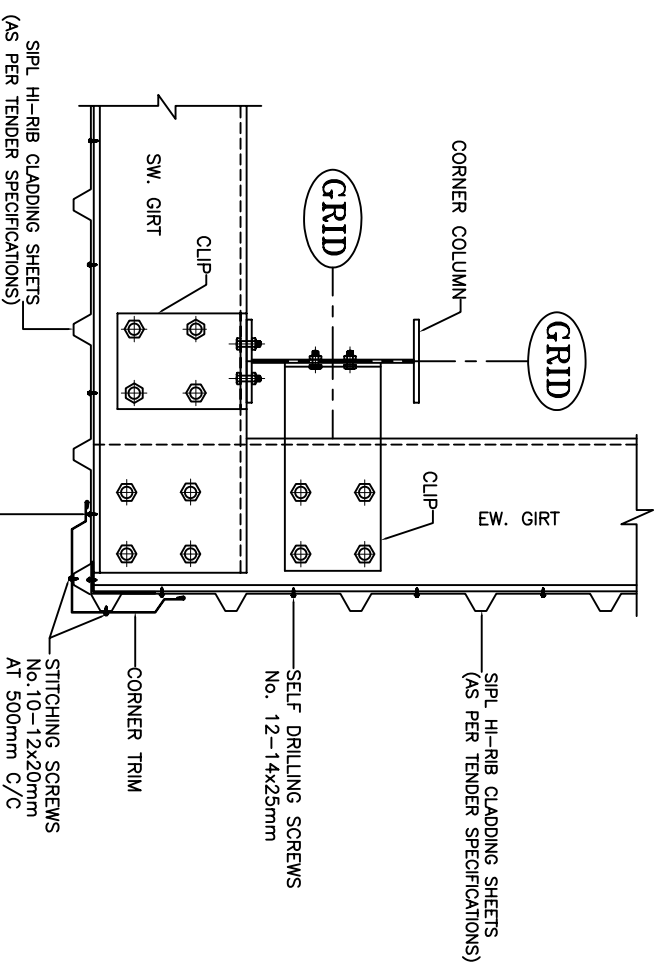
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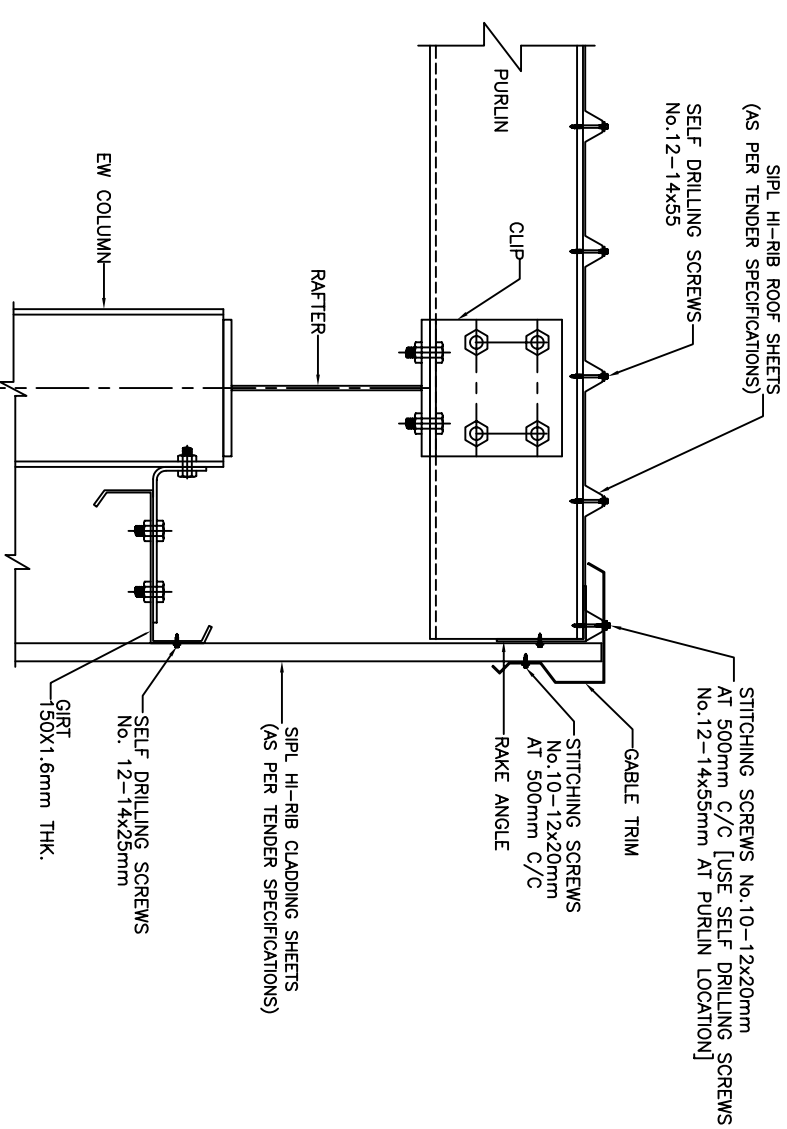
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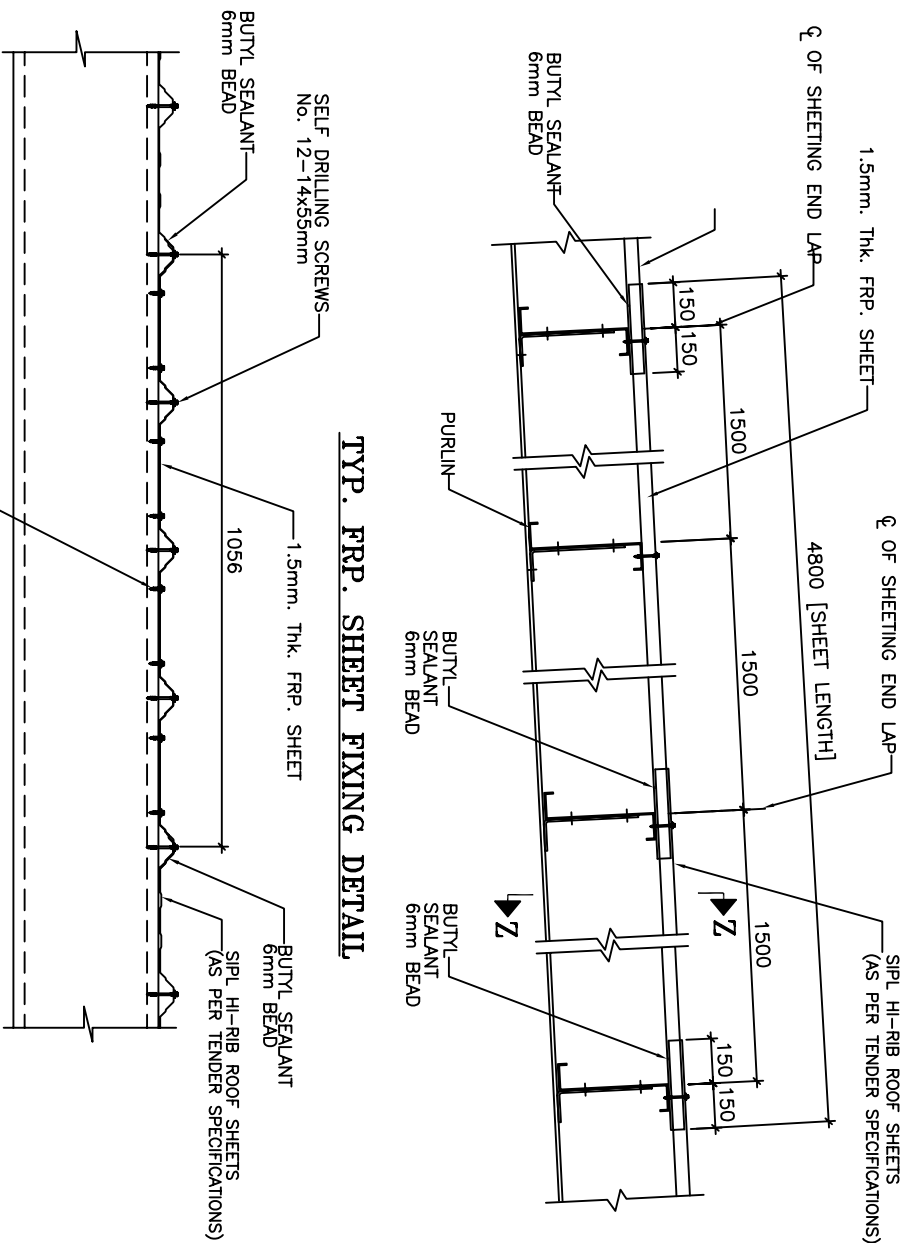
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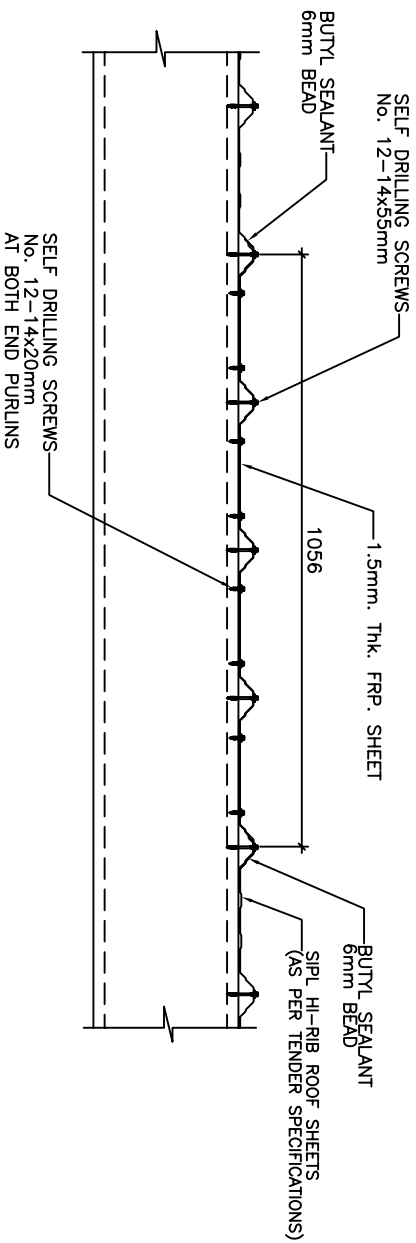
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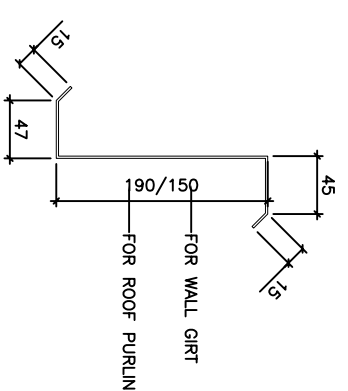
**TYP. GABLE END DETAIL**



**TYP. FRP. SHEET FIXING DETAIL**



**SECTION Z-Z**



**TYP. PURLIN & GIRT DETAIL**

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**GENERAL ARRANGEMENT DRAWING**

Project: **M/s. BHARAT HEAVY ELECTRICALS LTD.**

Building: **(CLOSED SHED)**

Client: **M/s. BHARAT HEAVY ELECTRICALS LTD.**

Consultant: **STEELCLAD INFRA PRIVATE LIMITED.**

Address: **46 ANSAL PLAZA, VAISHALI**

E-mail: **business@steelclad.in**

Ph: **0120-4957400 FAX: 0120-4957408**

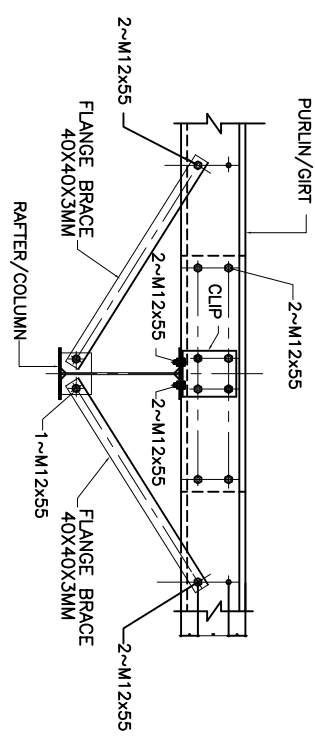
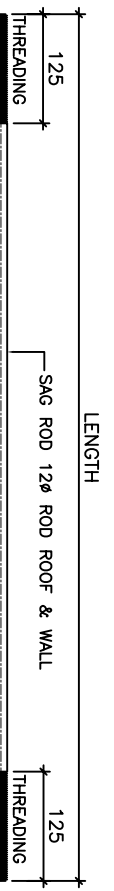
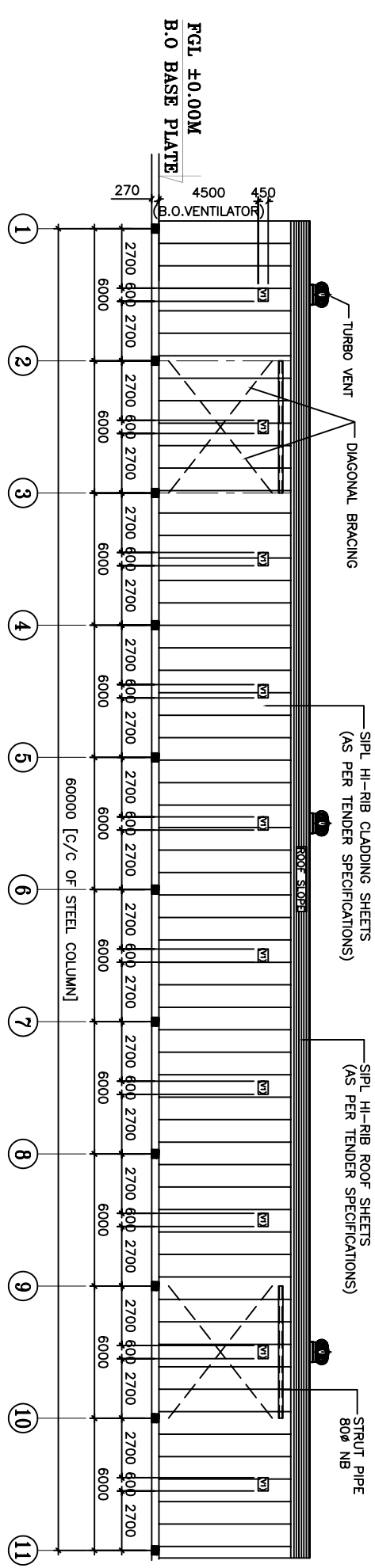
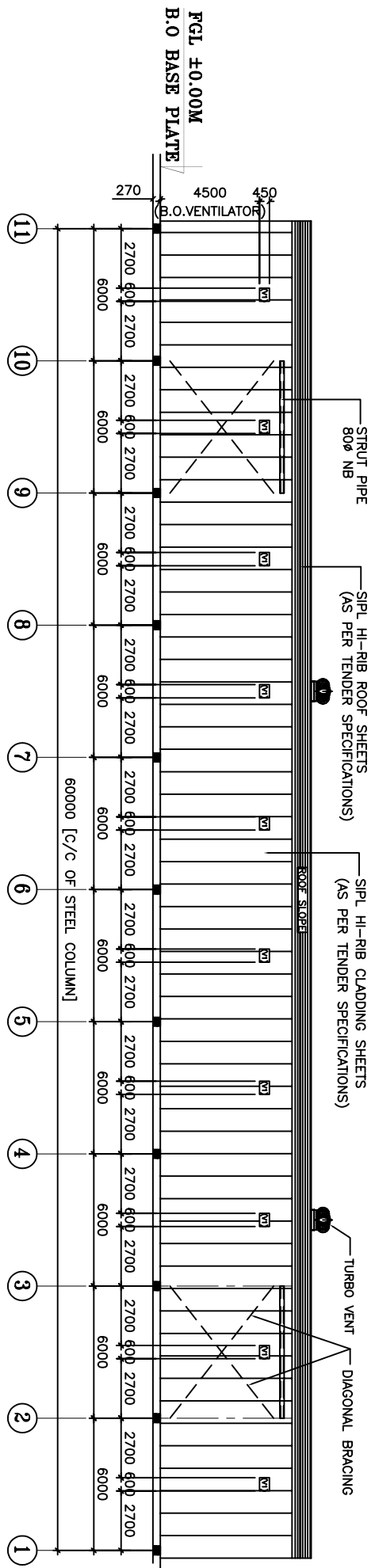
Scale: **AS SHOWN**

Drawn by: **SRV/7-080** Date: **04.01.2011**

Checked by: **SRV/7-080** Project No: **SRV/7-080**

Approved by: **SRV/7-080** Drawing No: **SRV/7-080**



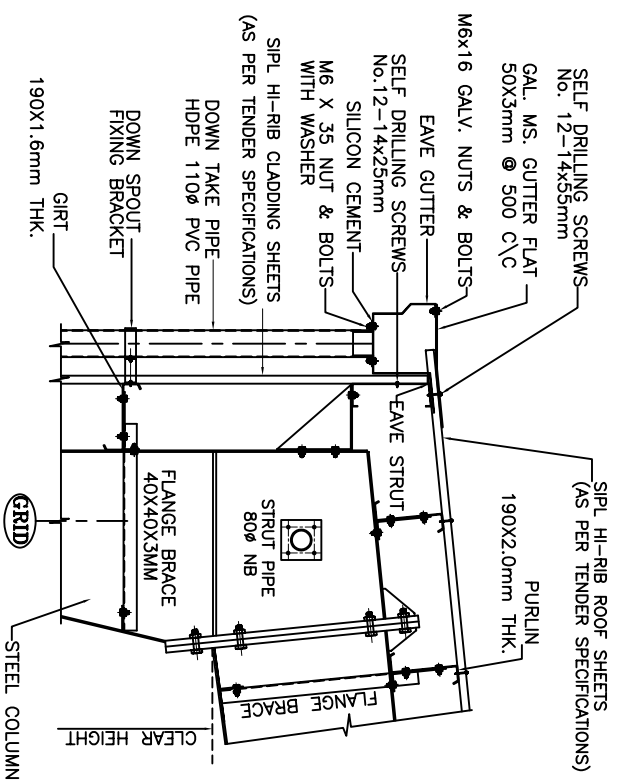


**FRONT VIEW**  
**TYPICAL FLANGE BRACE & LAP DETAIL**

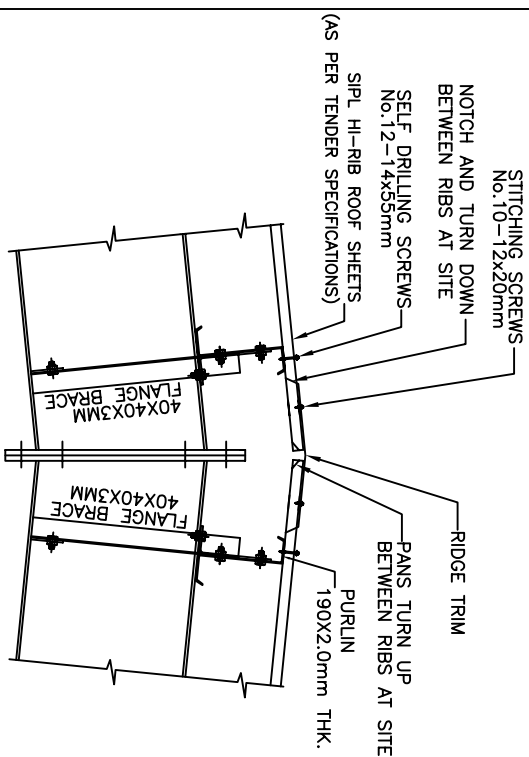
- NOTES:-**
1. ALL DIMENSIONS ARE IN MM.
  2. ALL LEVEL ARE IN M.T.
  3. SIPL - STEELCLAD INFRA PVT. LTD.

<p><b>Project:</b> M/s. BHARAT HEAVY ELECTRICALS Ltd. (CLOSED SHED)</p>	
<p><b>Drawing Title:</b> GENERAL ARRANGEMENT DRAWING SECTION &amp; ELEVATION AND DETAIL</p>	
<p><b>Client:</b> M/s. BHARAT HEAVY ELECTRICALS Ltd.</p>	
<p><b>Building:</b> STEELCLAD INFRA PRIVATE LIMITED, 46 ANSAL PLAZA, VAISHALI E-mail : business@steelclad.in Ph-0120-4957400 FAX-0120-4957408</p>	
<p><b>Scale:</b> 1:100</p>	
<p><b>Project No:</b> SERY/7-080</p>	
<p><b>Sheet No:</b> 04.01.0011</p>	
<p><b>Revision:</b> 01-01</p>	
<p><b>Date:</b> 18.01.2011</p>	
<p><b>Drawn by:</b> LAKSHMI</p>	
<p><b>Checked by:</b> LAKSHMI</p>	
<p><b>Approved by:</b> LAKSHMI</p>	
<p><b>Scale:</b> 1/8" = 1'-0"</p>	
<p><b>Sheet No:</b> 04.01.0011</p>	
<p><b>Date:</b> 18.01.2011</p>	

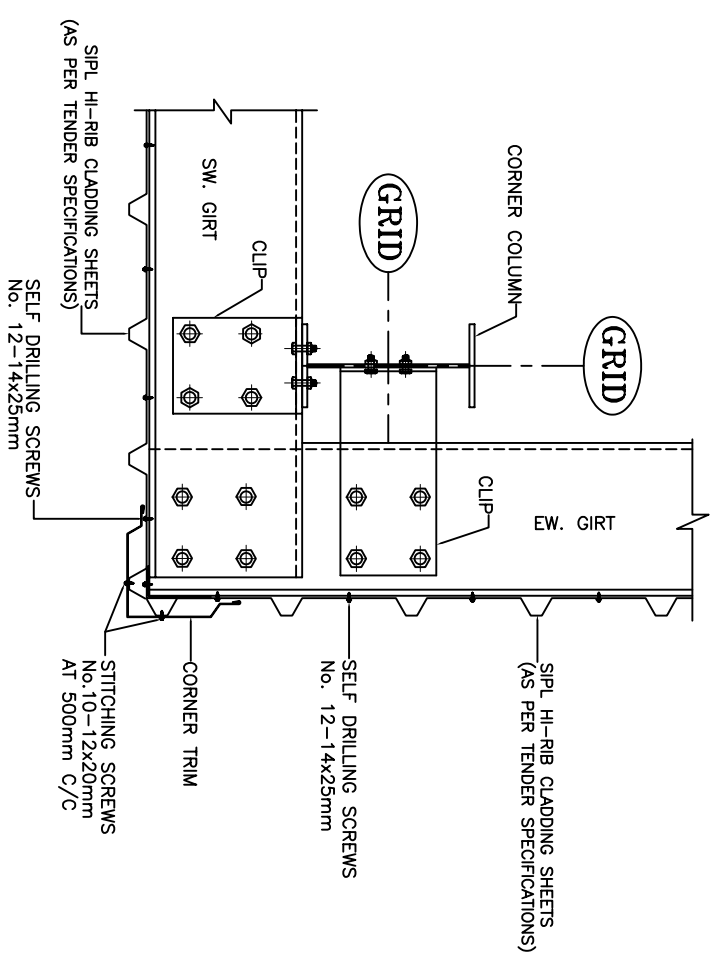
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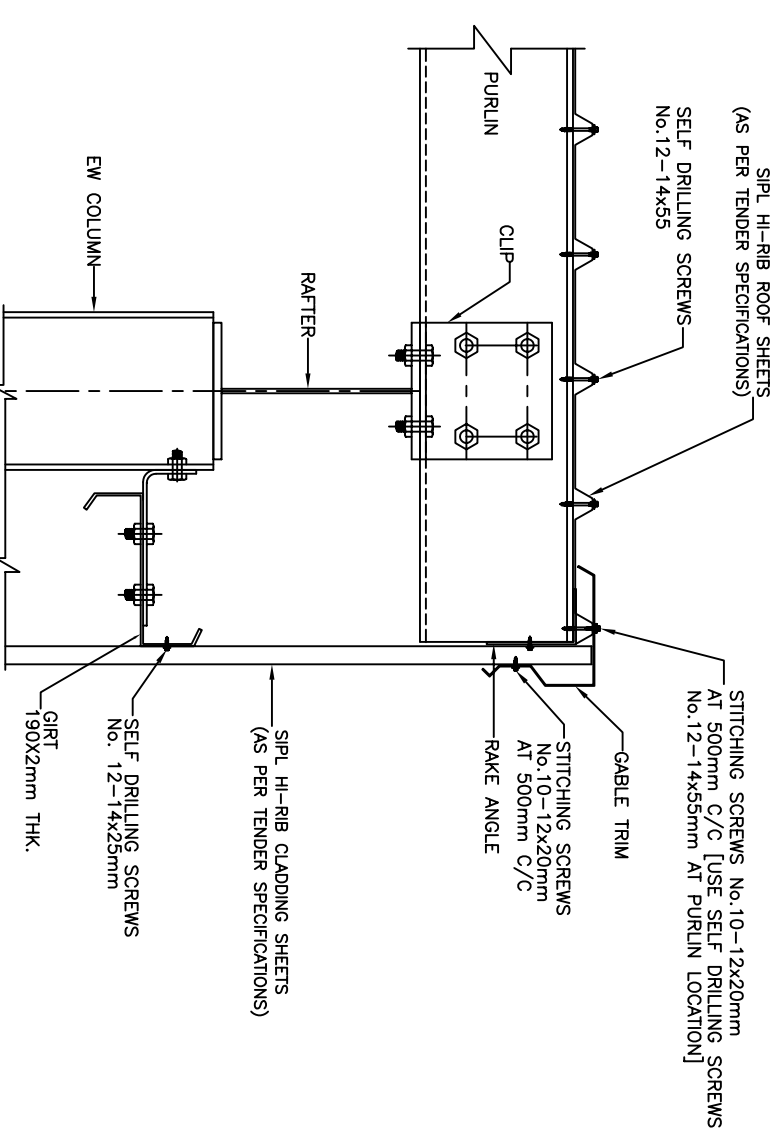
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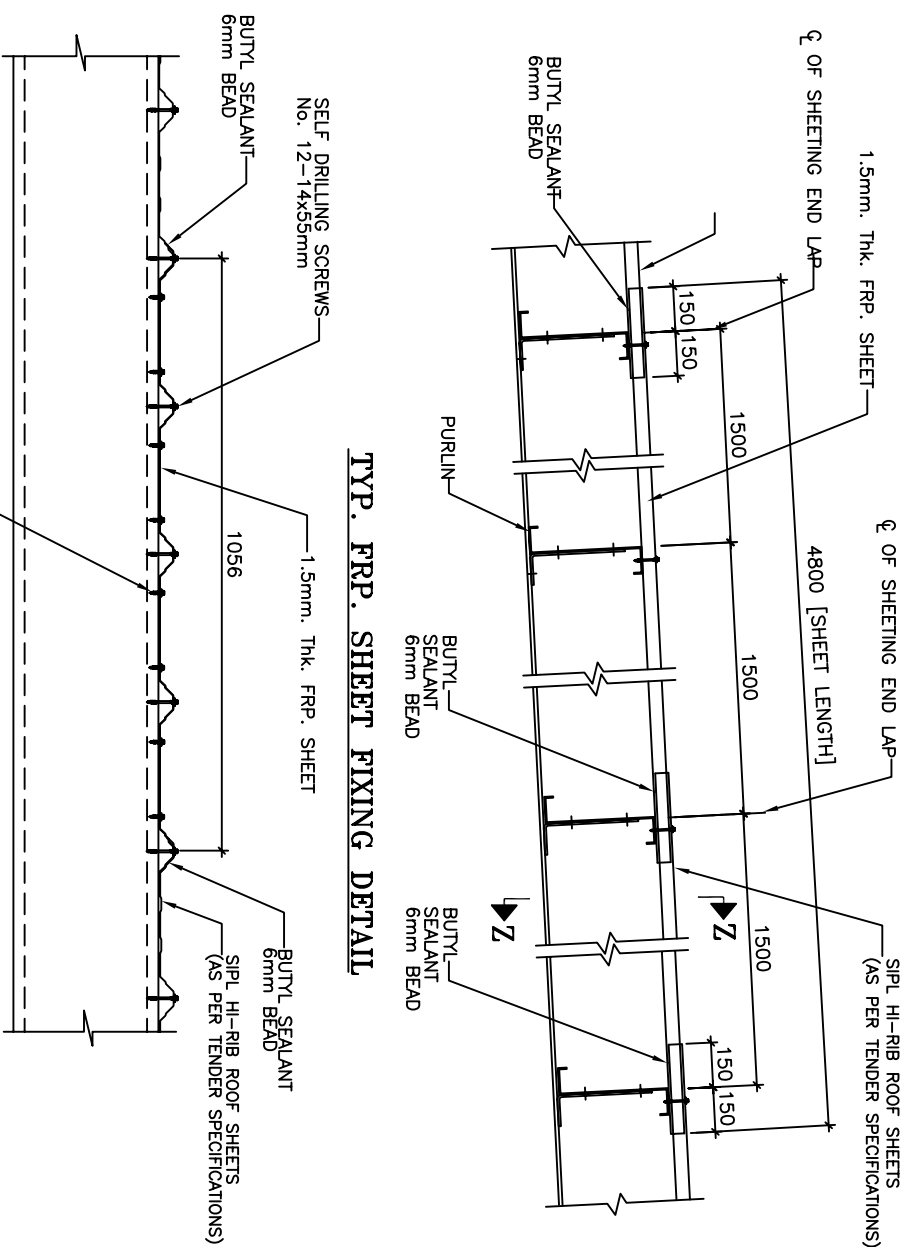
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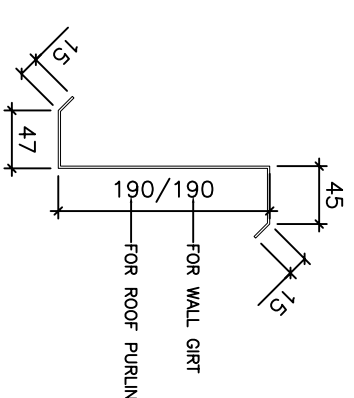
**TYP. CORNER DETAIL**



**TYP. GABLE END DETAIL**



**TYP. FRP. SHEET FIXING DETAIL**

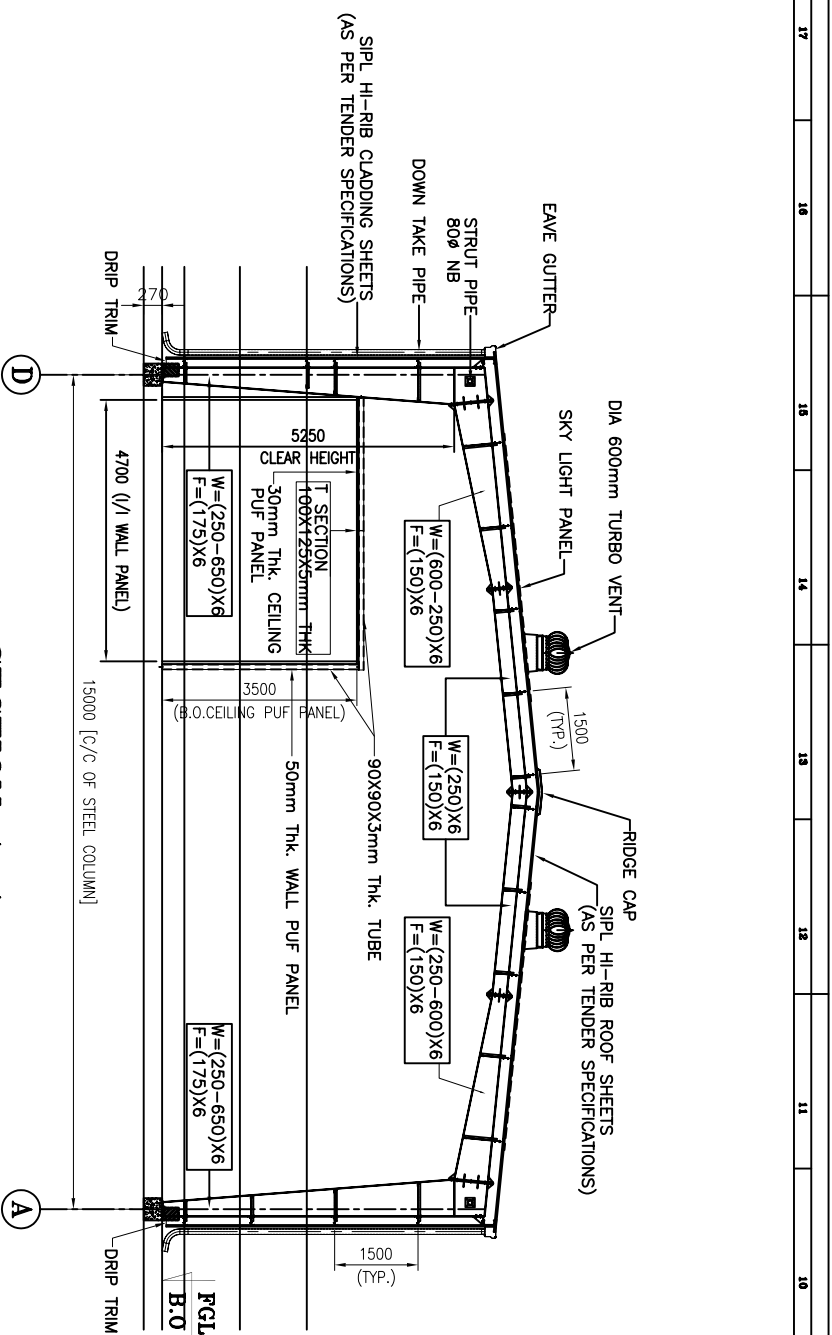


**TYP. PURLIN & GIRT DETAIL**

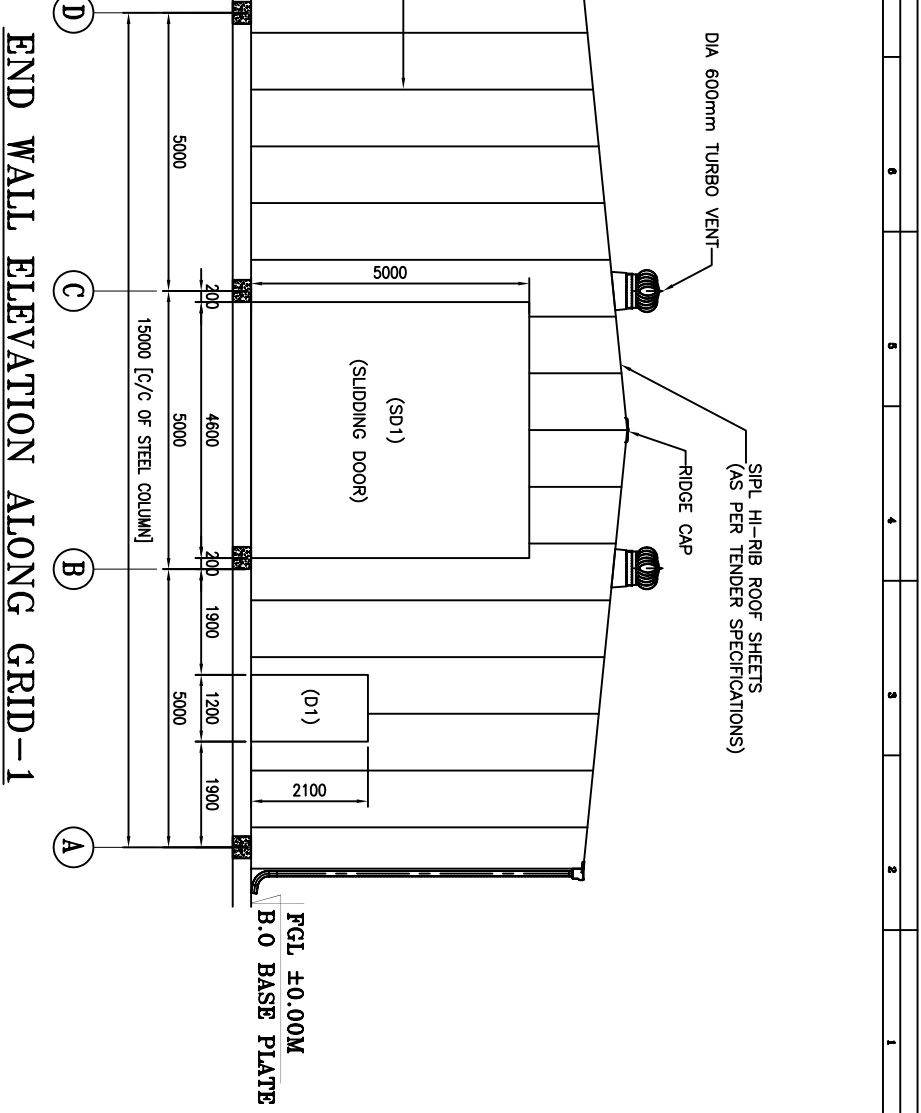
**SECTION Z-Z**

<p><b>REVISIONS</b></p> <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> <th>CHECKED</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	DATE	DESCRIPTION	BY	CHECKED						<p><b>PROJECT</b></p> <p>M/s. BHARAT HEAVY ELECTRICALS LTD.</p>	
NO.	DATE	DESCRIPTION	BY	CHECKED									
<p><b>BUILDING</b></p> <p>(SEMI CLOSED SHEED)</p>		<p><b>GENERAL ARRANGEMENT DRAWING</b></p> <p>DETAIL</p>											
<p><b>CLIENT</b></p> <p>M/s. BHARAT HEAVY ELECTRICALS LTD.</p>		<p><b>DESIGNED BY</b></p> <p>STEELCLAD INFRA PRIVATE LIMITED.</p>											
<p><b>DATE</b></p> <p>14.01.2011</p>		<p><b>SCALE</b></p> <p>AS SHOWN</p>											
<p><b>PROJECT NO.</b></p> <p>SERV/7-081</p>		<p><b>DATE</b></p> <p>04.01.2011</p>											
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<p><b>APPROVED BY</b></p> <p> </p>		<p><b>DATE</b></p> <p>04-01-11</p>											

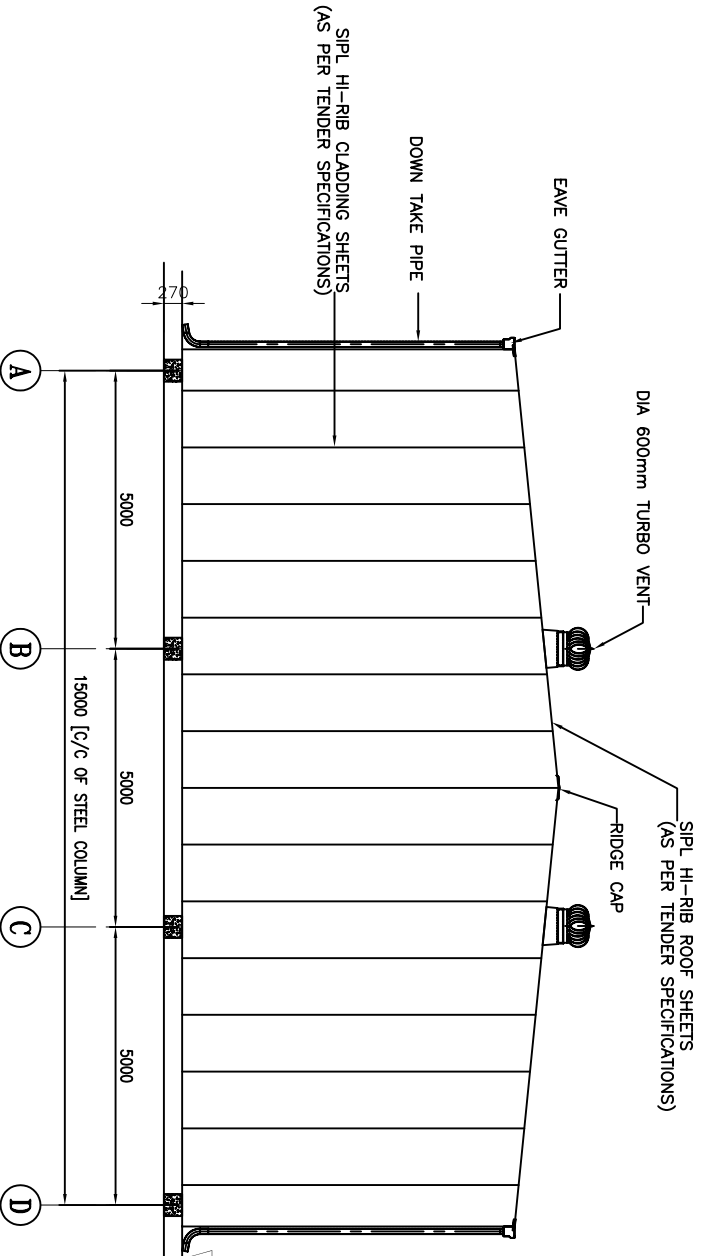
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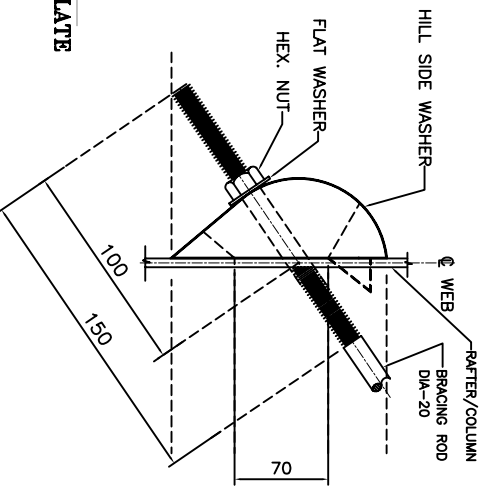
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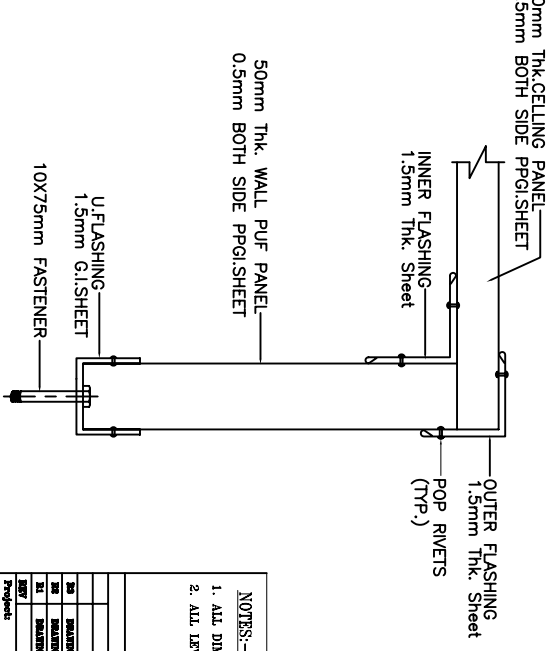
END WALL ELEVATION ALONG GRID-1



END WALL ELEVATION ALONG GRID-11



TYP 20# ROD BRACING FIXING DETAIL

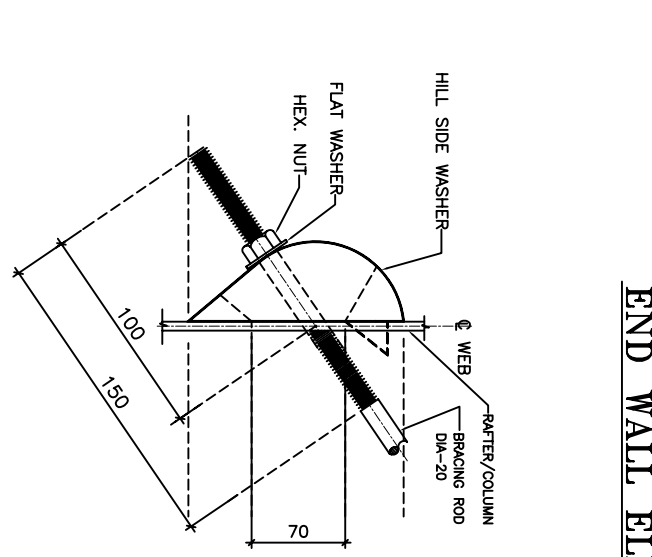
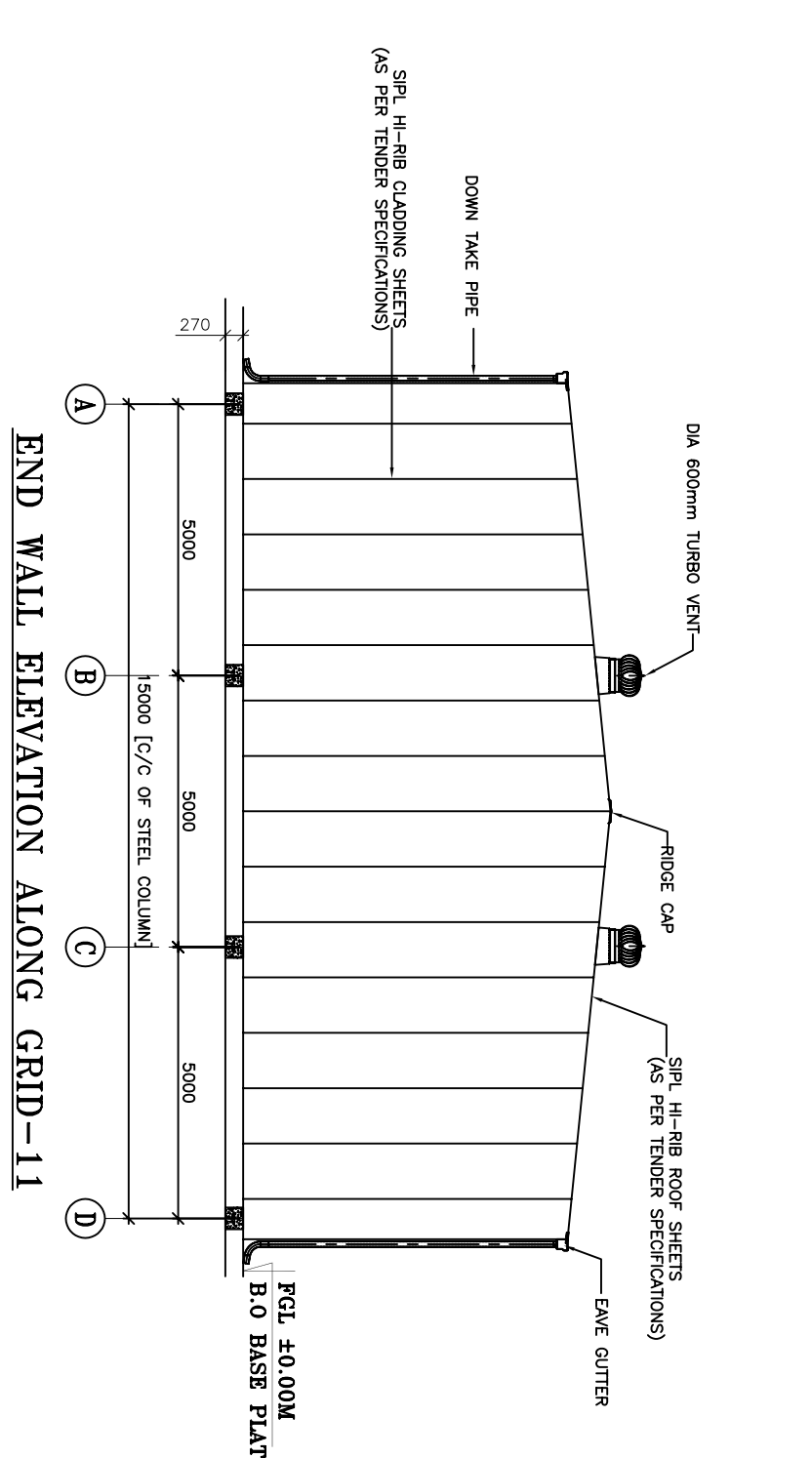
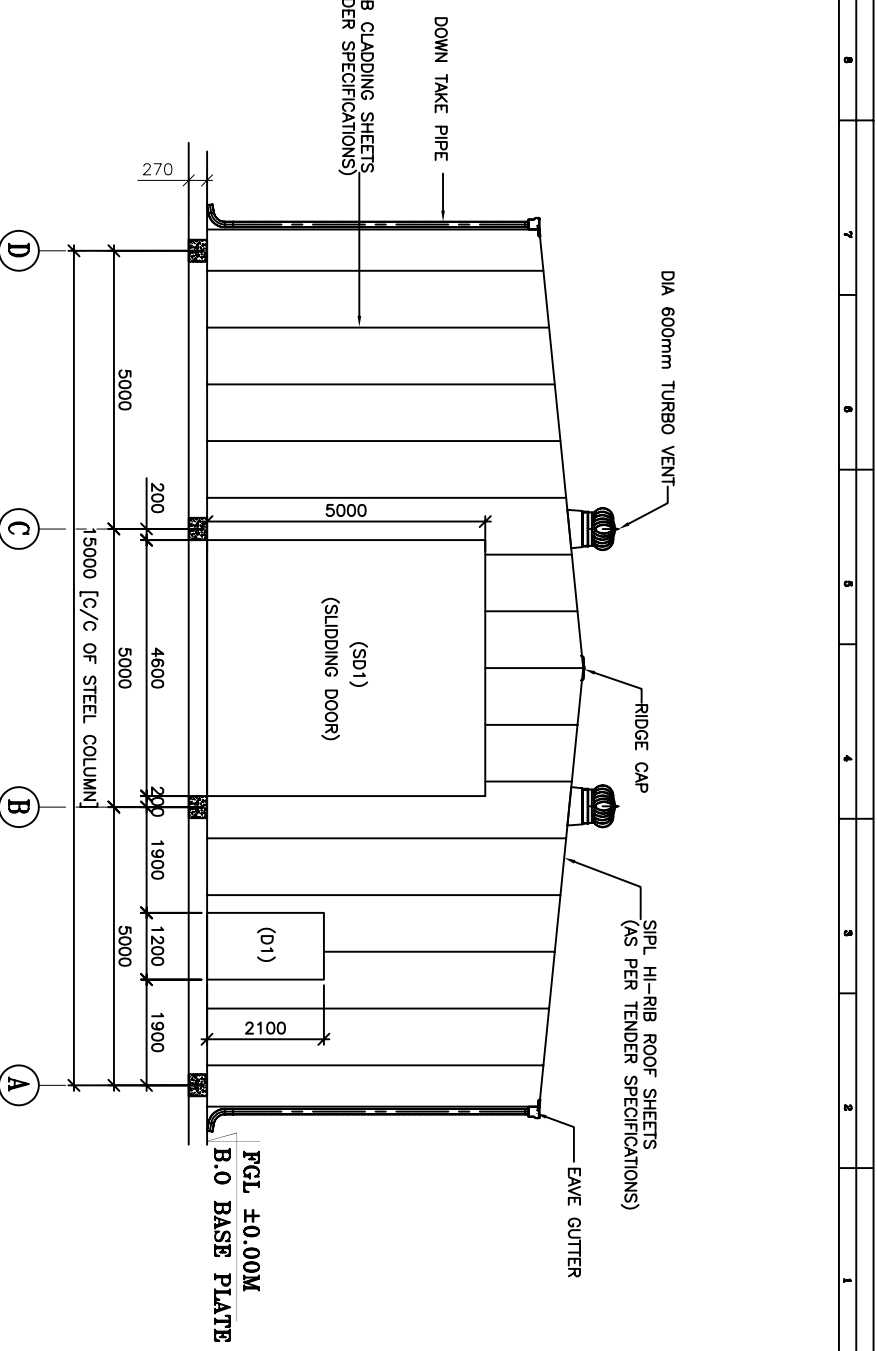
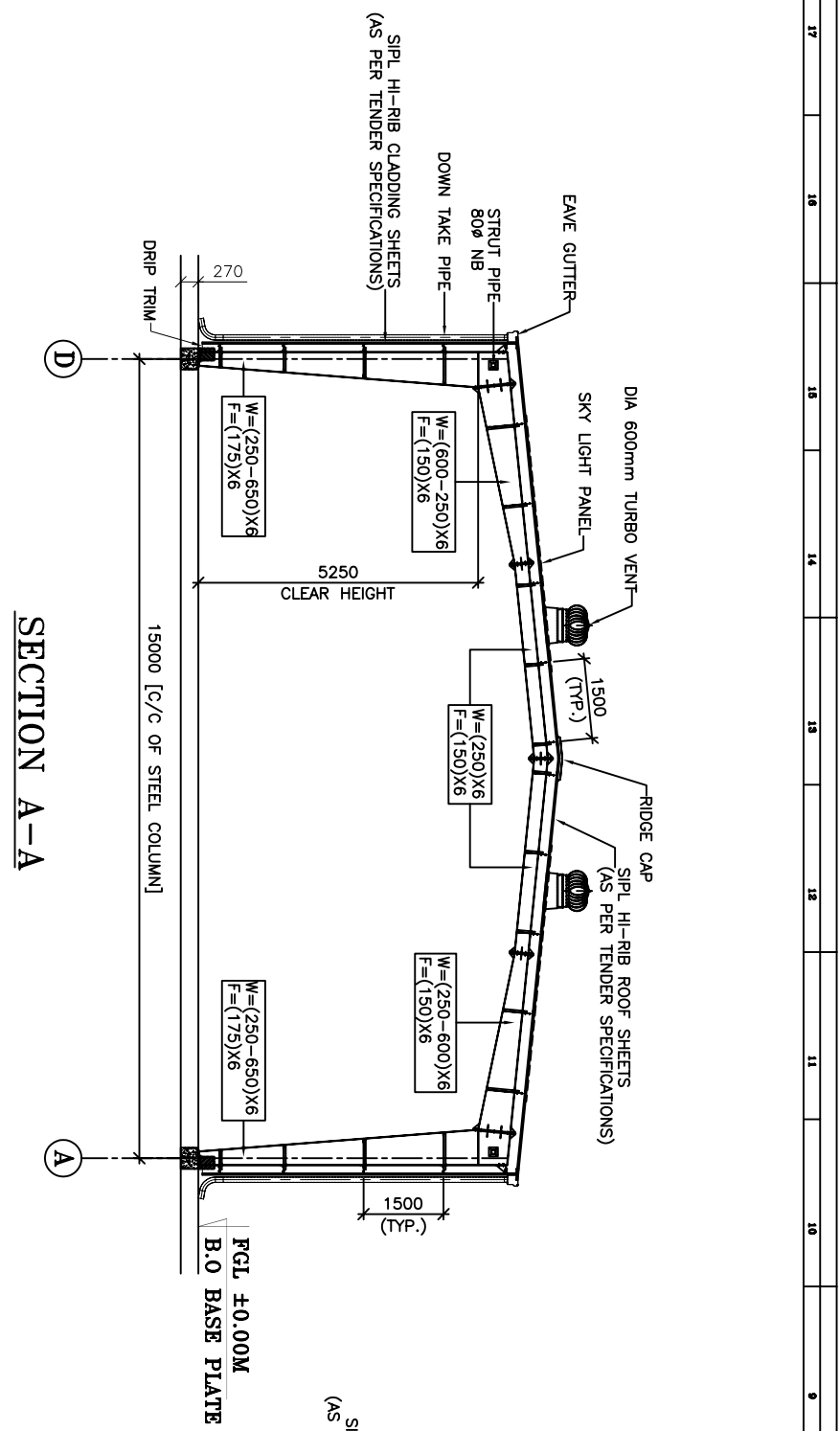


(TYP.) WALL TO CEILING CONNECTION DETAILS

- NOTES:-
1. ALL DIMENSIONS ARE IN MM.
  2. ALL LEVEL ARE IN MFL.

Project:		M/s. BHARAT HEAVY ELECTRICALS Ltd.	
Client:		M/s. BHARAT HEAVY ELECTRICALS Ltd.	
Contract:		STEELCLAD INFRA PRIVATE LIMITED.	
Address:		46 ANSAL PLAZA, VAISHALI	
E-mail:		business@steelclad.in	
Phone:		Ph-0120-4957400 FAX-0120-4957408	
Project No:		SIRV/1-082	
Drawing No:		E1-01	
Revision:		R3	
Date:		04.01.2011	
Scale:		As per drawing	
Author:		SIRV/1-082	
Checked by:		SIRV/1-082	
Approved by:		SIRV/1-082	

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END WALL ELEVATION ALONG GRID-1

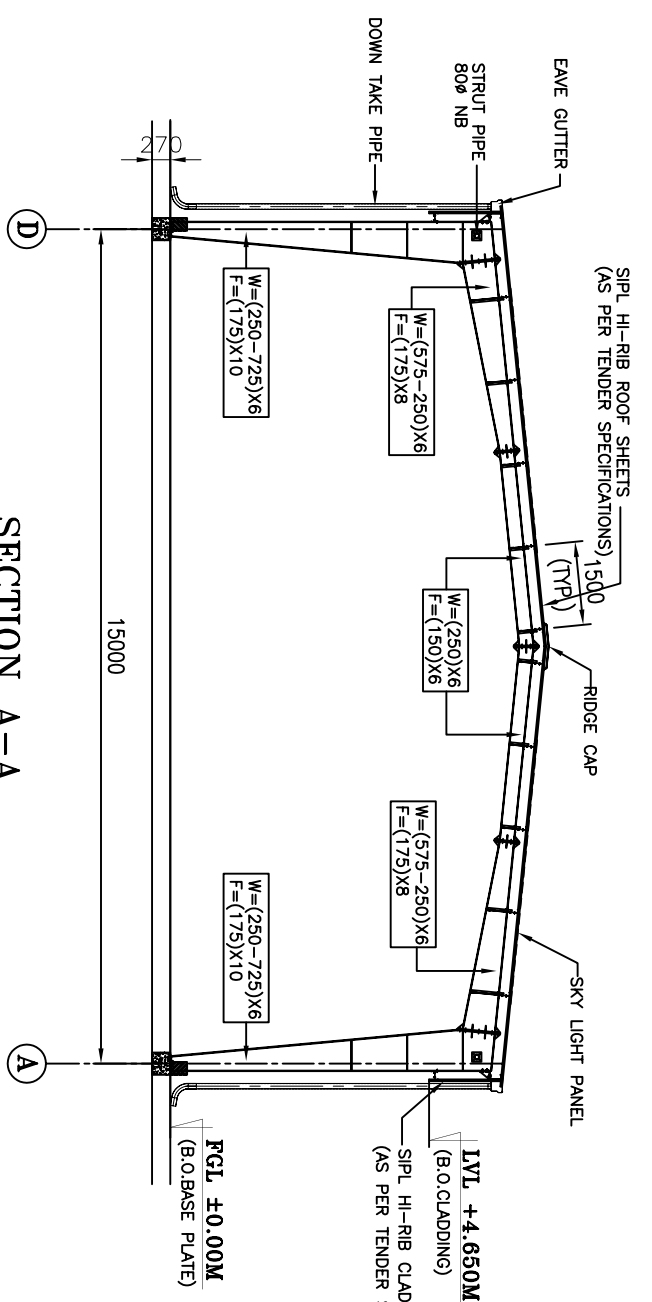
END WALL ELEVATION ALONG GRID-11

TYP 20Ø ROD BRACING FIXING DETAIL

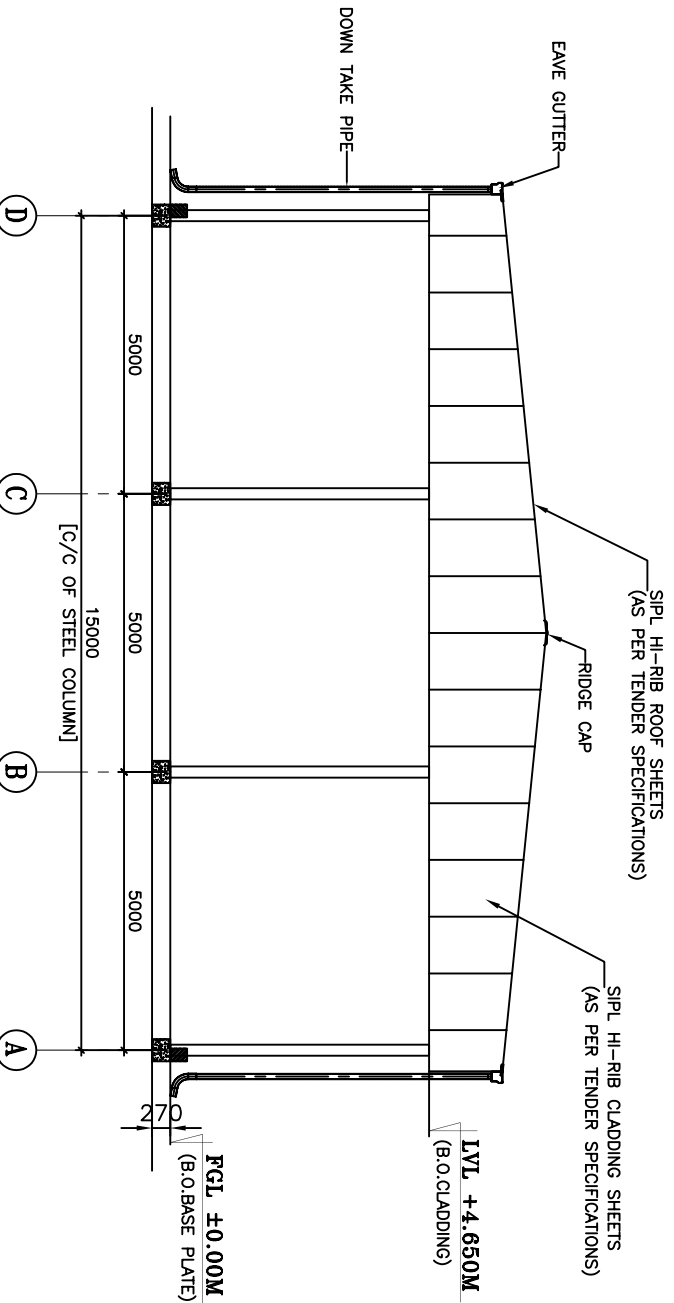
- NOTES:-
1. ALL DIMENSIONS ARE IN MM.
  2. ALL LEVEL ARE IN MFL.
  3. SIPL - STEELCLAD INFRA PVT. LTD.

<b>REVISIONS</b> NO. REVISIONS AS PER CLIENT'S COMMENT DATE BY 01. MATERIAL SPECIFIED AS PER CLIENT'S COMMENT 14.01.2011 02. MATERIAL SPECIFIED AS PER CLIENT'S COMMENT 14.01.2011 03. SIPL - STEELCLAD INFRA PVT. LTD. 14.01.2011		<b>APPROVED</b> PROJECT: M/s. BHARAT HEAVY ELECTRICALS LTD. BUILDING: (CLOSED SHED) DRAWING TITLE: GENERAL ARRANGEMENT DRAWING SECTION & ELEVATION AND DETAIL CONSULTANT: * CLIENT: M/s. BHARAT HEAVY ELECTRICALS LTD. PROJECT NO: 11100 SHEET NO: 01-01 DATE: 04.01.2011 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]	
<b>COMPANY INFORMATION</b> STEELCLAD INFRA PRIVATE LIMITED 46 ANSAL PLAZA, VAISHALI E-mail: business@steelclad.in Ph-0120-4957400 FAX-0120-4957408		<b>PROJECT INFORMATION</b> PROJECT NO: 11100 SHEET NO: 01-01 DATE: 04.01.2011 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]	

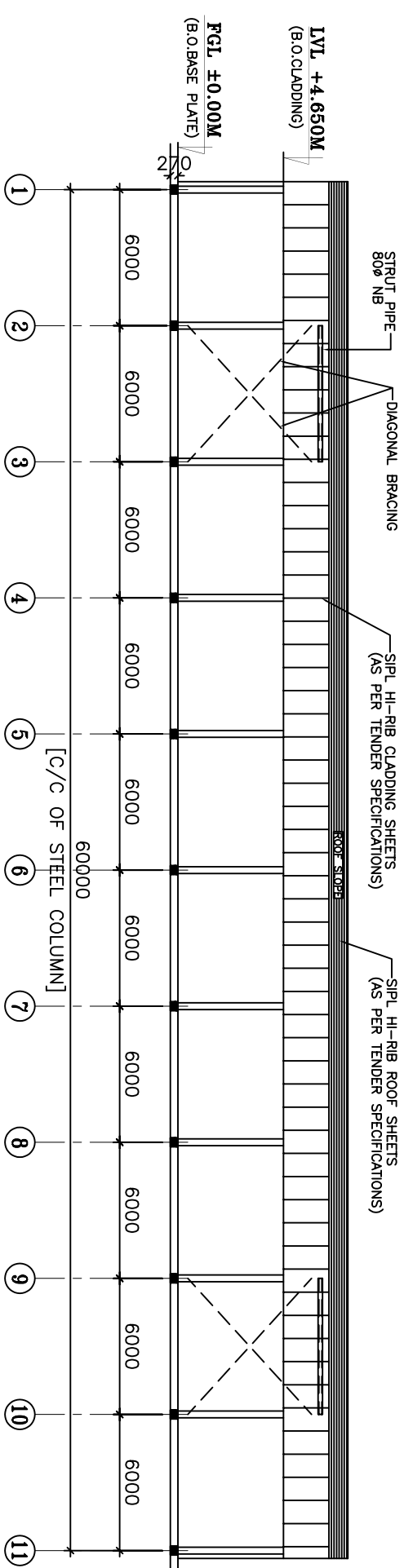
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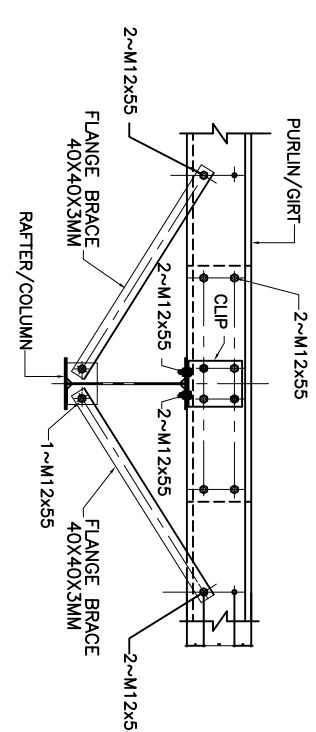
SECTION A-A



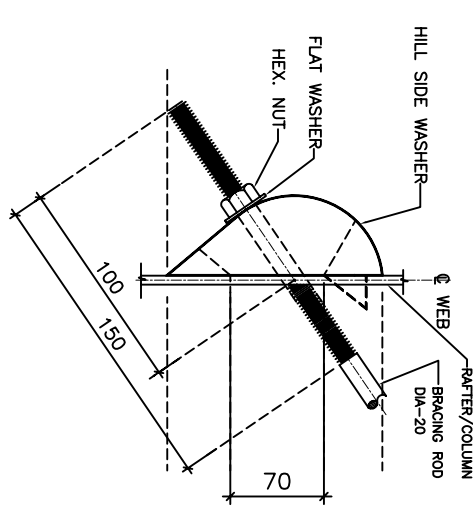
END WALL ELEVATION ALONG GRID-1 (AS SHOWN)  
END WALL ELEVATION ALONG GRID-11 (READ MIRROR)



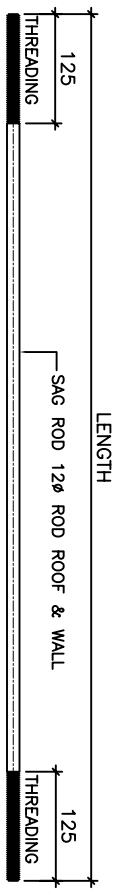
SIDE WALL ELEVATION ALONG GRID-A (AS SHOWN)  
SIDE WALL ELEVATION ALONG GRID-D (READ MIRROR)



FRONT VIEW  
TYPICAL FLANGE BRACE & LAP DETAIL



TYP 20φ ROD  
BRACING FIXING DETAIL

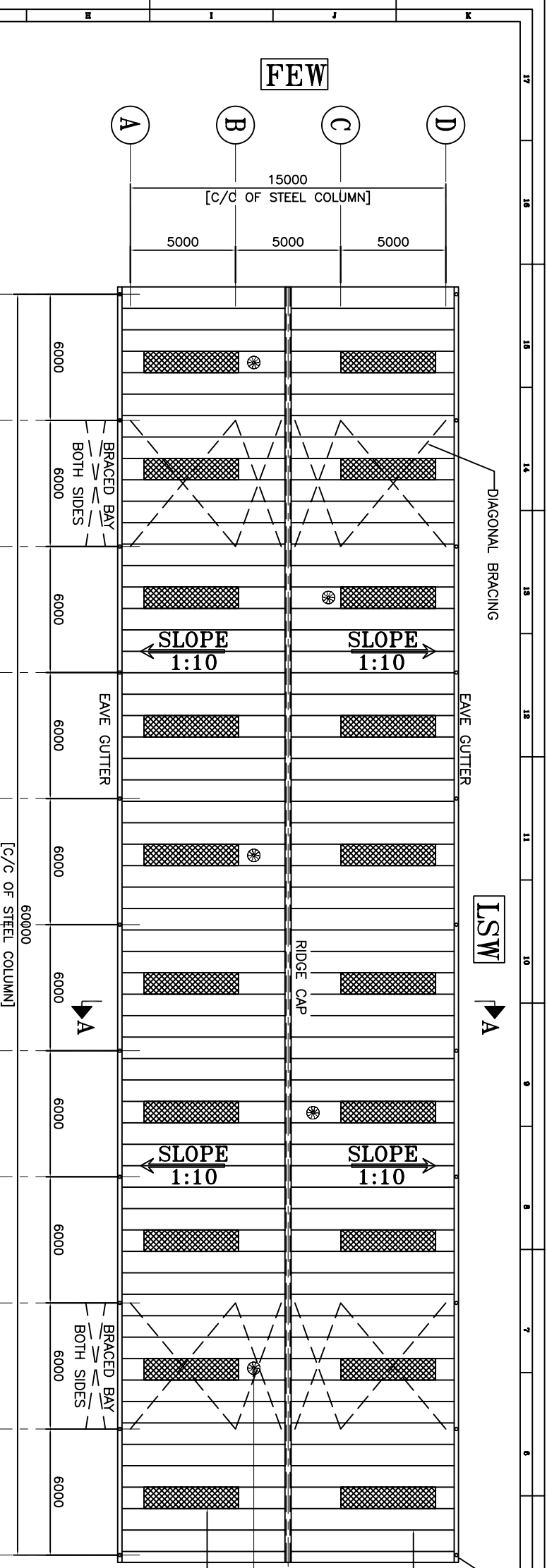


TYP. SAG ROD DETAIL

NO.	DATE	REVISION	BY	CHECKED
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04	14.01.2011	ISSUED FOR PERMIT	SAHIL	SAHIL
05	14.01.2011	ISSUED FOR PERMIT	SAHIL	SAHIL
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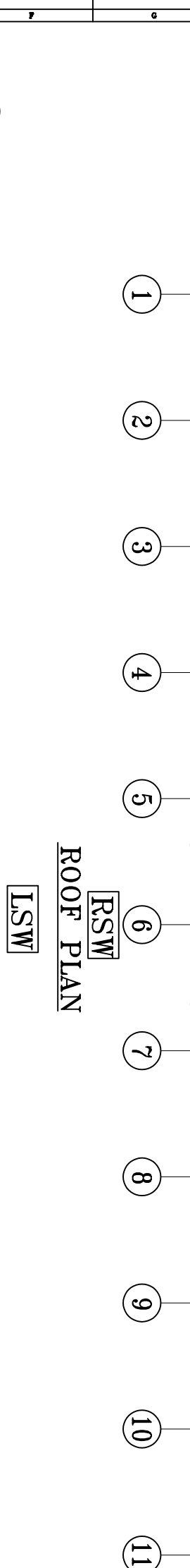
Project: M/s. BHARAT HEAVY ELECTRICALS LTD.  
 (SEMI CLOSED SHEED)  
 Drawing Title: GENERAL ARRANGEMENT DRAWING SECTION & ELEVATION AND DETAIL  
 Client: M/s. BHARAT HEAVY ELECTRICALS LTD.  
 Steelclad Infra Private Limited,  
 46 ANSAL PLAZA, VAISHALI  
 E-mail: business@steelclad.in  
 Ph-0120-4957400 FAX-0120-4957408

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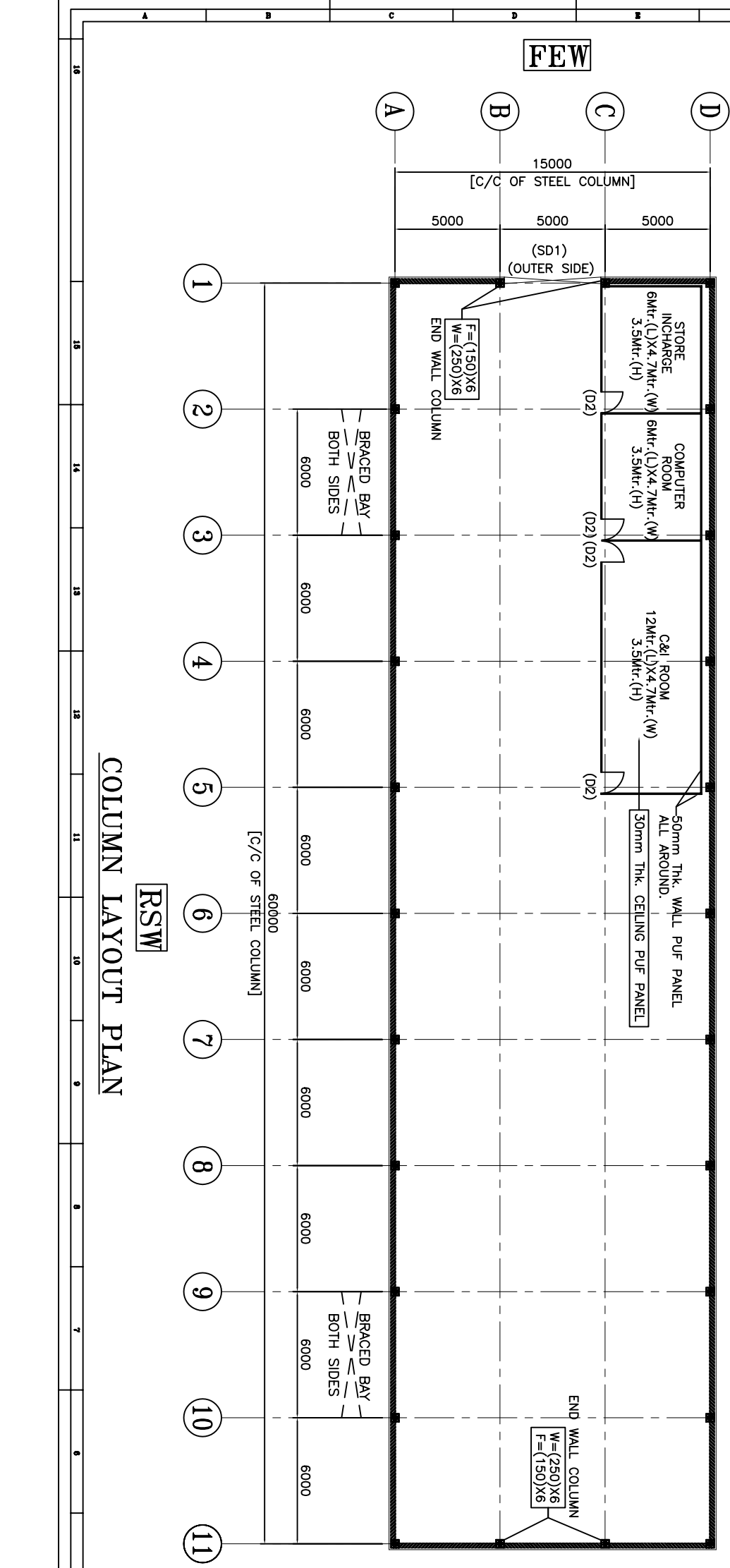
**MATERIAL SPECIFICATIONS**

1. ROOFING SHEET	0.5mm, PVC SIB, HI-RIB COLOUR COATED GALV. STEEL SHEET (AS PER TENDER SPECIFICATIONS)
2. WALL CLADDING	0.5mm, PVC SIB, HI-RIB COLOUR COATED GALV. STEEL SHEET (AS PER TENDER SPECIFICATIONS)
3. RAFT LIFT PANEL	WALL - 100 BOOM ALUM. (1.5mm THK. FRP - SHEET) SIBL - 100
4. GUTTERS	0.5mm, PVC SIB, HI-RIB COLOUR COATED GALV. STEEL SHEET (AS PER TENDER SPECIFICATIONS)
5. FLASHINGS	0.5mm, PVC SIB, HI-RIB COLOUR COATED GALV. STEEL SHEET (AS PER TENDER SPECIFICATIONS)
6. DOWN TAKE PIPE	HDPE 110mm PVC PIPE
7. RIDGE VENT	NO.
8. RIDGE VENT	02 Nos. 600mm
9. STANDING SEAM	[100] (4.0mm), (1) X 3.0mm, (0) 02 NOS.
10. DOORS	[10] (2.0mm), (1) X 2.1mm, (0) 02 NOS. (1.5mm) (1.5mm), (1) X 2.1mm, (0) 02 NOS. (1.5mm) (1.5mm), (1) X 2.1mm, (0) 02 NOS.
11. WINDOWS	[10] (2.0mm), (1) X 1.5mm, (0) 02 NOS.
12. VENTILATORS	[10] (0.8mm), (1) X 0.8mm, (0) 20 NOS.
13. AC CUT OFF	[10] (0.8mm), (1) X 0.8mm, (0) 02 NOS.
14. TRAP	(AS PER TENDER SPECIFICATIONS)
15. CEILING	(AS PER TENDER SPECIFICATIONS)
16. FINE CEMENT	(AS PER TENDER SPECIFICATIONS)
17. STEEL BAR	(AS PER TENDER SPECIFICATIONS)



**NOTES:-**

1. ALL DIMENSIONS ARE IN MM.
2. ALL LEVEL ARE IN M.L.
3. SIPL - STEELCLAD INFRA PVT. LTD.



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(PLEASE TICK ✓ THE APPROPRIATE ONE)

SEAL & SIGNATURE

**Project:** M/s. BHARAT HEAVY ELECTRICALS LTD.

**Author:** (CLOSED SHEED WITH MM OFFICE AND C & I ROOM)

**Drawing Title:** GENERAL ARRANGEMENT DRAWING ROOF PLAN & COLUMN LAYOUT PLAN

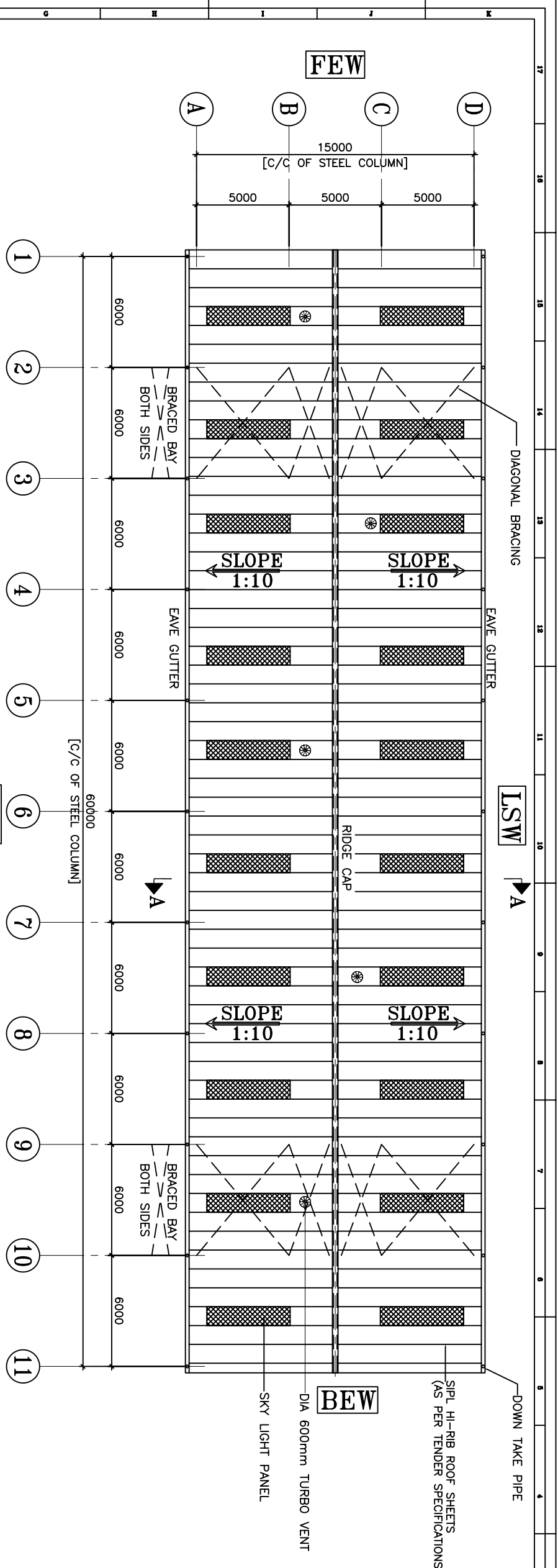
**Comments:**

**Client:** M/s. BHARAT HEAVY ELECTRICALS LTD.

**STEELCLAD INFRA PRIVATE LIMITED**  
 46 ANSAL PLAZA, VAISHALI  
 E-mail: business@steelclad.in  
 Ph-0120-4957400 FAX-0120-4957408

Drawn by	DATE	Scale	Sheet No.
Checked by	DATE	Project No.	Project Name
Approved by	DATE	Project No.	Project Name

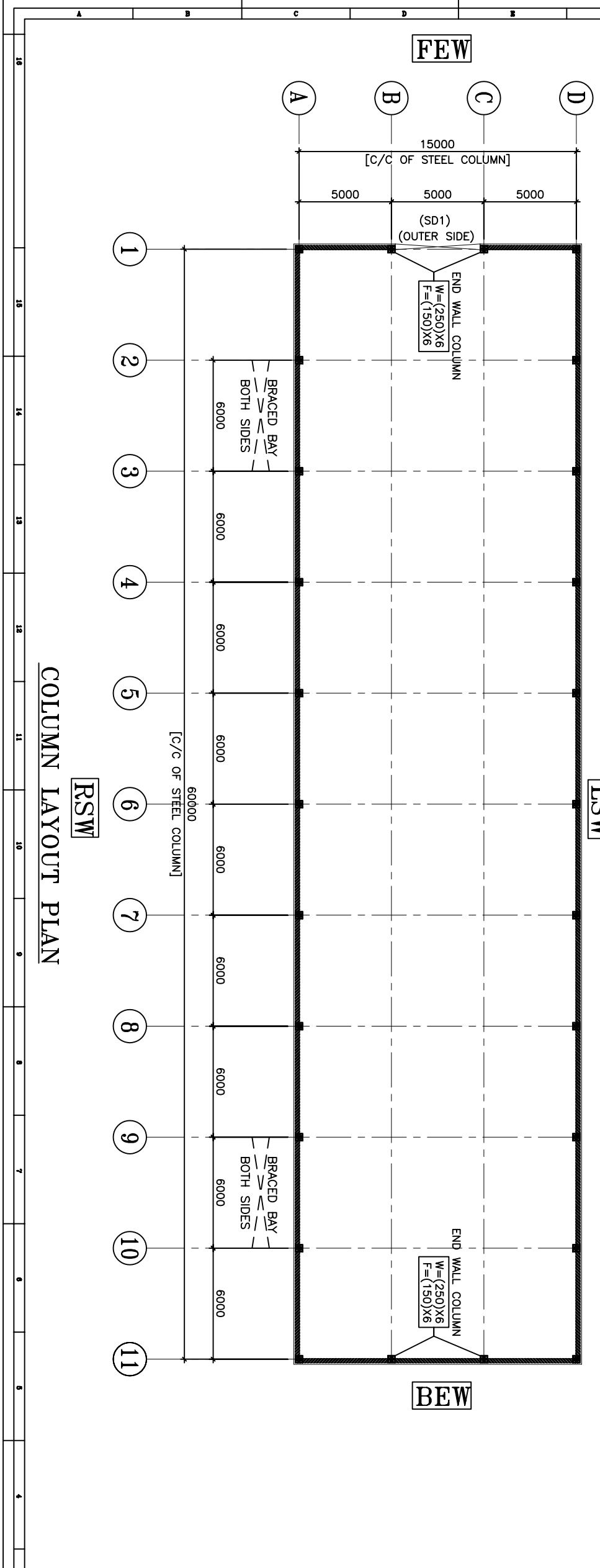
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**ROOF PLAN**

**LSW**

**RSW**



**COLUMN LAYOUT PLAN**

**RSW**

[C/C OF STEEL COLUMN]

**MATERIAL SPECIFICATIONS**

1. ROOFING SHEET	0.75mm, 750 x 910 (AS PER TENDER SPECIFICATIONS)
2. WALL CLADDING	0.50mm, 750 x 910 (AS PER TENDER SPECIFICATIONS)
3. RAFT DECK PANEL	1000 - 1000 (AS PER TENDER SPECIFICATIONS)
4. GUTTERS	0.50mm, 750 x 910 (AS PER TENDER SPECIFICATIONS)
5. FLASHINGS	0.50mm, 750 x 910 (AS PER TENDER SPECIFICATIONS)
6. DOWN TAKE PIPE	1000 - 1000 (AS PER TENDER SPECIFICATIONS)
7. TURBO VENT	600mm
8. SKYLIGHT PANEL	1000 - 1000 (AS PER TENDER SPECIFICATIONS)
9. VENTILATIONS	1000 - 1000 (AS PER TENDER SPECIFICATIONS)
10. DOORS	1000 - 1000 (AS PER TENDER SPECIFICATIONS)

- NOTES:-**
1. ALL DIMENSIONS ARE IN MM.
  2. ALL LEVEL ARE IN MFL.
  3. SIPL - STEELCLAD INFRA PVT. LTD.

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 3. TO BE REBROUGHT AFTER INCORPORATING COMMENTS FOR APPROVAL.

(PLEASE TICK '✓' THE APPROPRIATE ONE)  
 SEAL & SIGNATURE

**Project:** M/s. BHARAT HEAVY ELECTRICALS LTD.

**Building:** (CLOSED SHED)

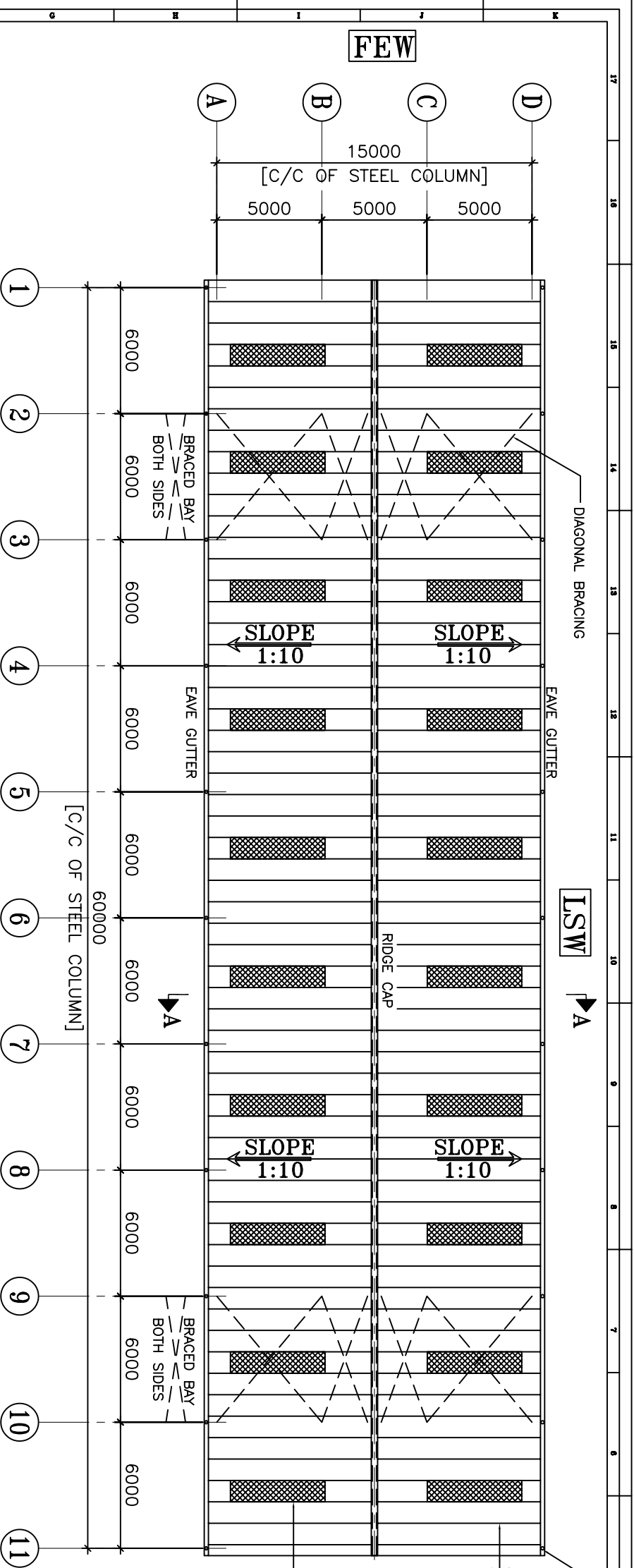
**Drawing Title:** GENERAL ARRANGEMENT DRAWING  
 ROOF PLAN & COLUMN LAYOUT PLAN

**Client:** M/s. BHARAT HEAVY ELECTRICALS LTD.

**STEELCLAD INFRA PRIVATE LIMITED**  
 46 ANSAL PLAZA, VAISHALI  
 E-mail: business@steelclad.in  
 Ph-0120-4957400 FAX-0120-4957408

Drawn by	DATE	14.01.2011
Checked by	DATE	14.01.2011
Approved by	DATE	14.01.2011

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**RSW**  
**ROOF PLAN**  
**LSW**

**MATERIAL SPECIFICATIONS**

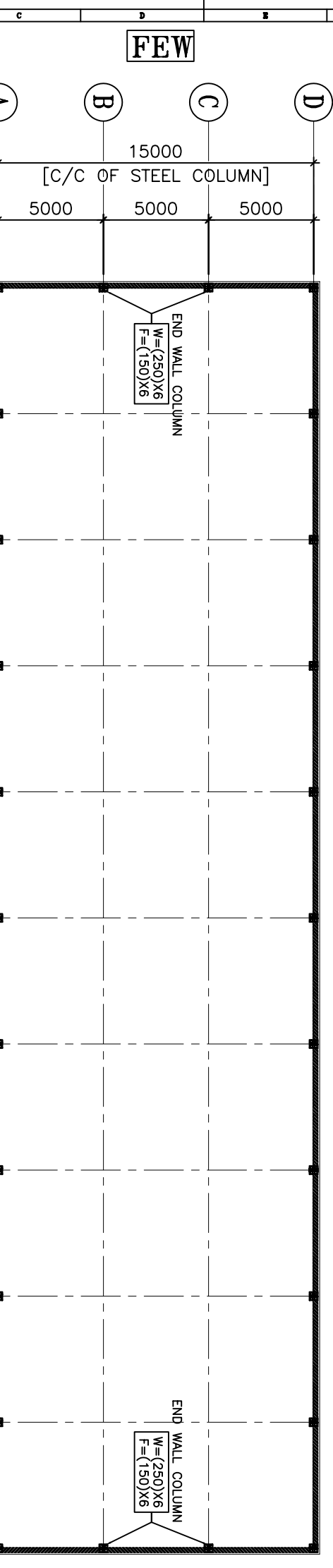
1. ROOFING SHEET	0.75mm, 750 mm x 1000 mm colour coating prep. 500 Mpa. ST08 (AS PER TENDER SPECIFICATIONS)
2. WALL CLADDING	0.55mm, 750 mm x 1000 mm colour coating 500 Mpa. STEEL (AS PER TENDER SPECIFICATIONS)
3. RAFT SLAB PANEL	ROOF - 150 mm REIN. (1.5mm THK. FRP. SHEET) WALL - 150 mm
4. GUTTERS	0.55mm, 750 mm x 1000 mm colour coating 500 Mpa. STEEL (AS PER TENDER SPECIFICATIONS)
5. FLASHINGS	0.55mm, 750 mm x 1000 mm colour coating 500 Mpa. STEEL (AS PER TENDER SPECIFICATIONS)
6. DOWN TAKE PIPE	100mm DIA. PVC PIPE
7. RIDGE VENT	NIL
8. PLUMB OPENING	NIL
9. THIRD VENT	NIL

- NOTES:-**
1. ALL DIMENSIONS ARE IN MM.
  2. ALL LEVELS ARE IN MGL.
  3. SIPL - STEELCLAD INFRA PVT. LTD.

**FOR CLIENT USE**

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3. TO BE RE-QUOTED AFTER INCORPORATING COMMENTS FOR APPROVAL.

(PLEASE TICK ' ' THE APPROPRIATE ONE)  
SEAL & SIGNATURE



**RSW**  
**COLUMN LAYOUT PLAN**

**Project:** M/s. BHARAT HEAVY ELECTRICALS LTD.

**Building:** (SEMI CLOSED SHED)

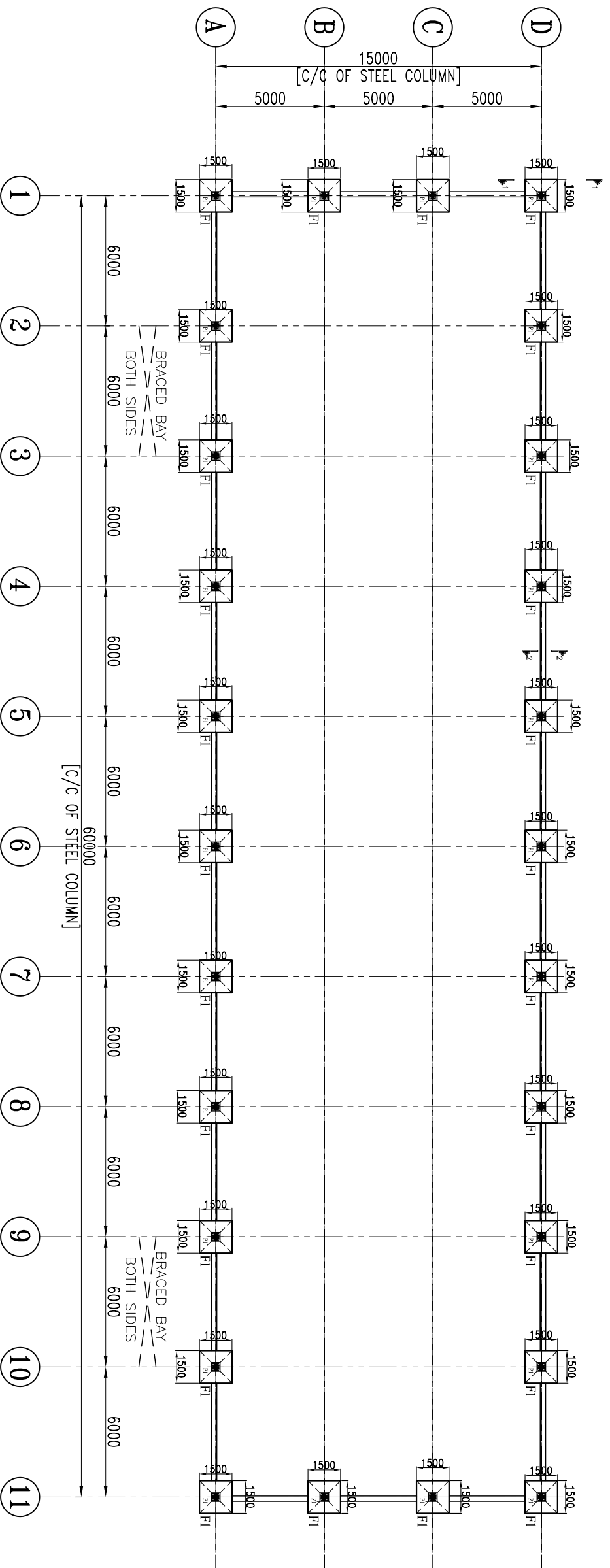
**Drawing Title:** GENERAL ARRANGEMENT DRAWING  
ROOF PLAN & COLUMN LAYOUT PLAN

**Client:** M/s. BHARAT HEAVY ELECTRICALS LTD.

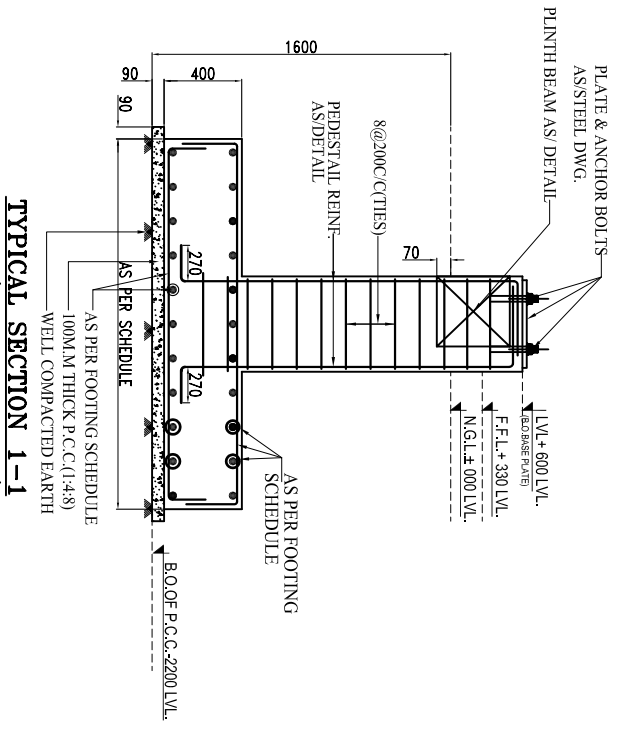
**STEELCLAD INFRA PRIVATE LIMITED,**  
46 ANSAL PLAZA, VAISHALI  
E-mail: business@steelclad.in  
Ph-0120-4957400 FAX-0120-4957408

Drawn by	DATE	Scale	DATE
Checked by	14.01.2011	1:100	04.01.2011
Approved by	14.01.2011	SRV/2-081	SRV/2-081

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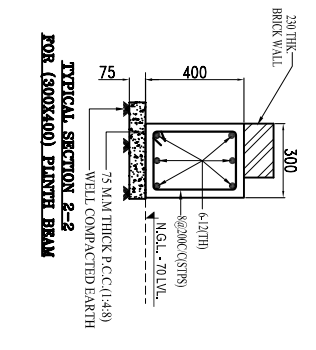


**COLUMN LAY OUT & FOUNDATION PLAN  
OF CLOSED SHED**



**SIDE WALL PEDESTAL DETAIL**

C.MIX:-	M-20
TIES	
MAIN BARS	4-16@4-12@60
SIZE	400X400
TIES	8@ 200 C/C (2 SETS)
SHAPE	
DETAIL NAME:	P1



**FOOTING DETAIL CONC MIX. ( M-20 )**

SR.NO.	FOOTING SIZE	TOP REINF.	BOTTOM REINF.
F1	1500X1500	10@200 C/C BOTHWAYS	12@200 C/C BOTHWAYS

**NOTES:-**

\* MINIMUM DISTANCE 6Mtr. (C/C STEEL COLUMN) SHOULD BE MAINTAINED BETWEEN TWO BUILDINGS IN A SAME ROW.

**APPLICABLE CODE:-**

- IS 456 :- CODE OF PRACTICE FOR PLAIN & REINFORCED CONCRETE
  - IS 8112 :- 43 GRADE ORDINARY PORTLAND CEMENT
  - IS 333 :- COARSE AND FINE AGGREGATE FROM NATURAL SOURCES OF CONCRETE
  - IS 34 :- SAND BULK ON CONCRETE REINFORCEMENT AND DETAILING
- ALL DIMENSIONS ARE IN M.M.**
- REINFORCEMENT SCHEDULE**
- |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   |
| 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |

**PROJECT INFORMATION**

**Client:** M/s. BHARAT HEAVY ELECTRICALS LTD.

**Building Title:** CLOSED SHED WITH OFFICE AND C&I ROOM FOUNDATION PLAN

**STEELCLAD INFRA PRIVATE LIMITED,**  
46 ANSAL PLAZA, VAISHALI  
E-mail : business\_b@steelclad.in  
Ph-0120-457400 FAX-0120-457408

**DATE:** 21/01/2011

**PROJECT NO.:** SHF-J-082

**SCALE:** 1/8" = 1'-0"

**DESIGNER:** R.D.

**CHECKED BY:** R.D.

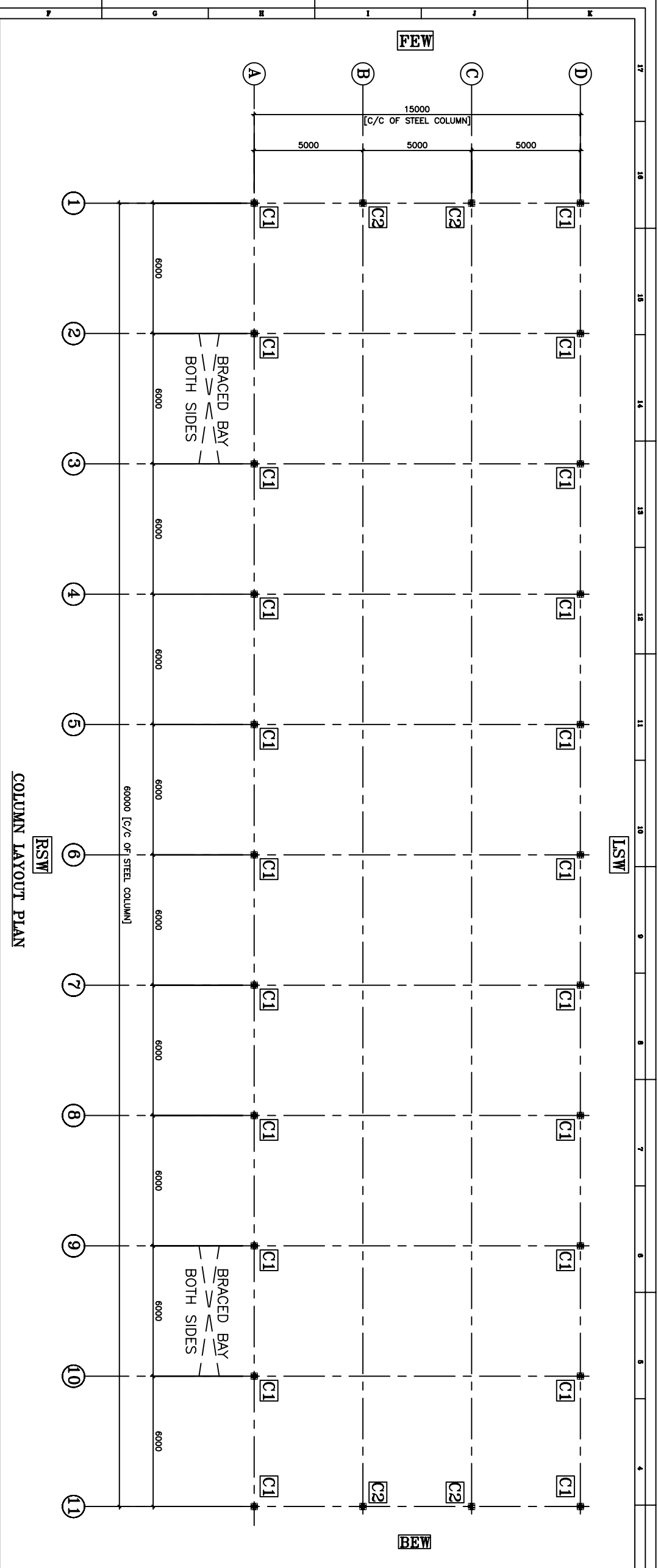
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**NOTE:-**

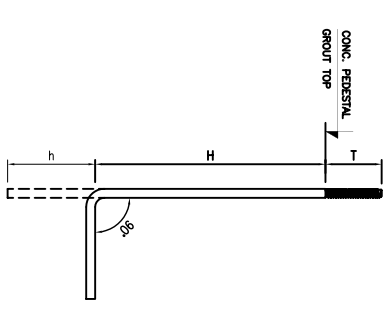
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COLUMN LAYOUT PLAN



ANCHOR BOLT SCHEDULE

BOLT DESCRIPTION	USAGE	DL	H	E	L	T
AB 20x750	END FRAME	20	750	150	100	100
AB 20x750	MAIN FRAME	20	750	150	100	100

T=THREADED LENGTH

**FOR CLIENT USE**

1. APPROVED: FABRICATION WORK MAY BE TAKEN UP.
2. APPROVED WITH COMMENTS: FABRICATION MAY BE TAKEN UP INCORPORATING COMMENTS.
3. TO BE RESUBMITTED AFTER INCORPORATING COMMENTS FOR APPROVAL.

(PLEASE TICK ✓ THE APPROPRIATE ONE)

SEAL & SIGNATURE

**NOTES:-**

1. ALL DIMENSIONS ARE IN MM.

**M/s. BHARAT HEAVY ELECTRICALS LTD.**

Project: \_\_\_\_\_

Client: \_\_\_\_\_

Site: \_\_\_\_\_

Scale: \_\_\_\_\_

Drawn by: \_\_\_\_\_

Checked by: \_\_\_\_\_

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

**STEELCLAD INFRA PRIVATE LIMITED.**

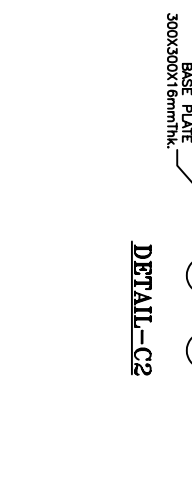
46 ANSAL PLAZA, VAISHALI

E-mail: business@steelclad.in

Ph-01204957400 FAX-12048597408

**SECTION 1-1**

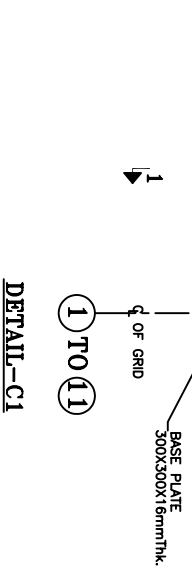
SECTION 1-1



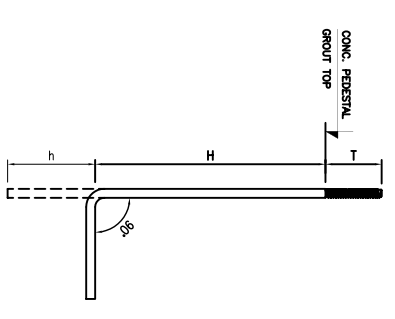
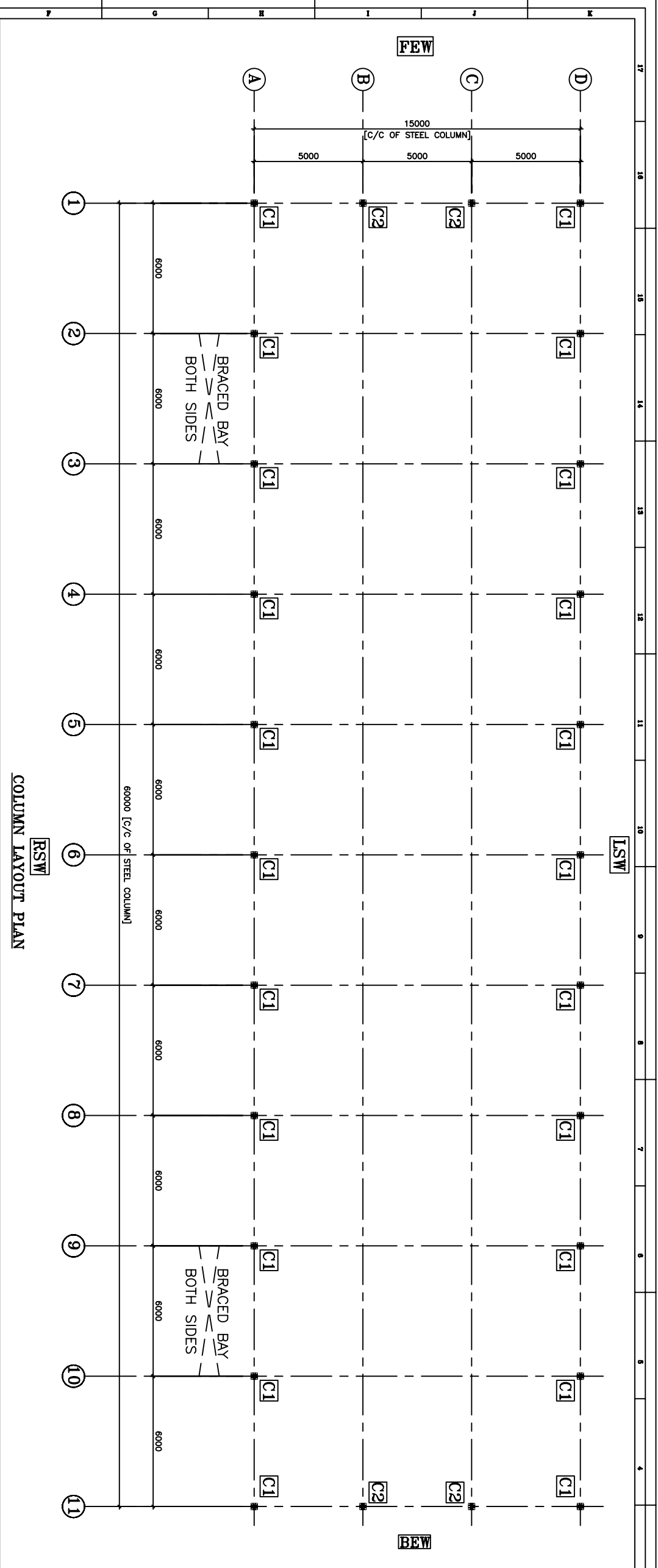
DETAIL-C2



SECTION 2-2



DETAIL-C1



**ANCHOR BOLT SCHEDULE**

BOLT DESCRIPTION	USAGE	DLA	H	h	T
AB 20x750	END FRAME	20	750	150	100
AB 20x750	MAIN FRAME	20	750	150	100

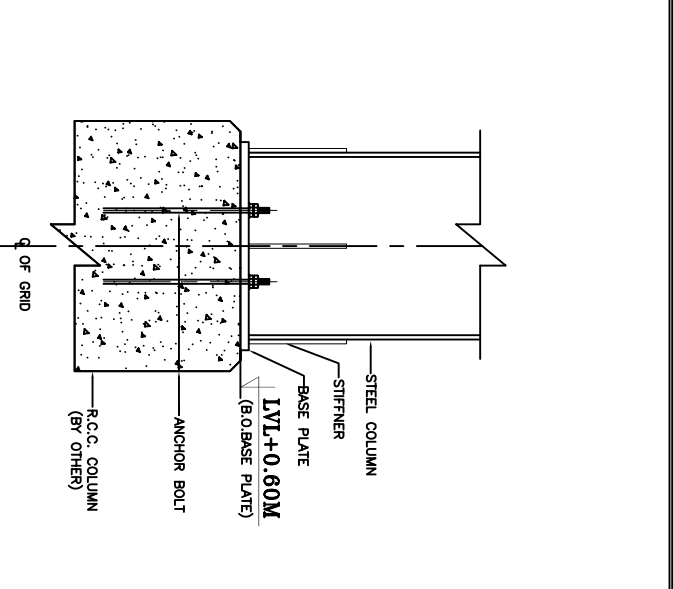
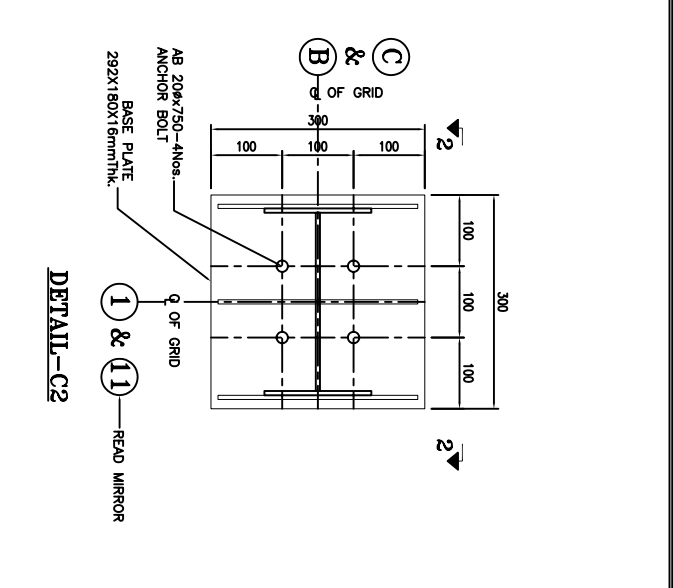
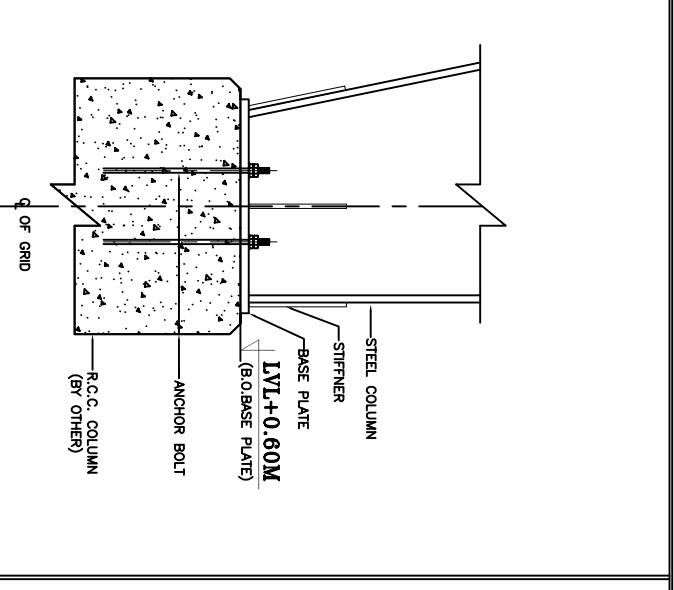
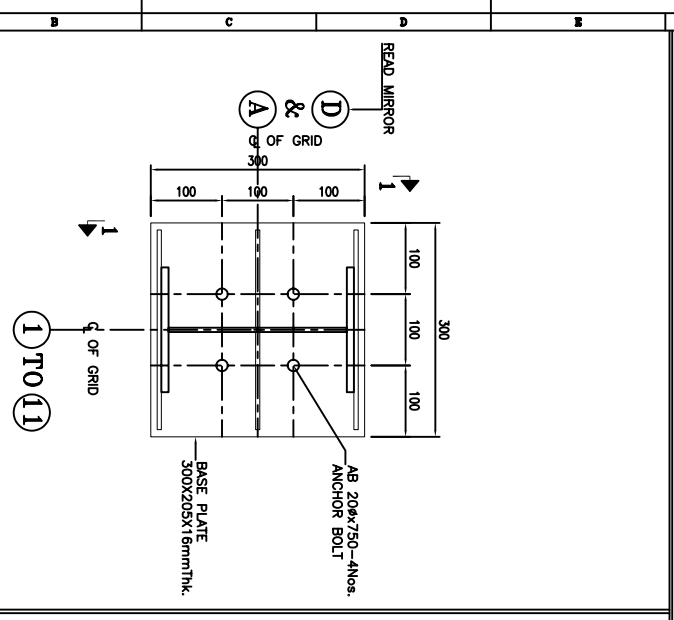
T-THREADED LENGTH

**FOR CLIENT USE**

- APPROVED: FABRICATION WORK MAY BE TAKEN UP.
- APPROVED WITH COMMENTS: FABRICATION MAY BE TAKEN UP INCORPORATING COMMENTS.
- TO BE RESUBMITTED AFTER INCORPORATING COMMENTS FOR APPROVAL.

(PLEASE TICK ✓ THE APPROPRIATE ONE)

SEAL & SIGNATURE



**NOTES:-**

- ALL DIMENSIONS ARE IN MM.

**PROJECT:** M/s. BHARAT HEAVY ELECTRICALS LTD.

**WORKING TITLE:** (SEAL CLOSED SHEET) ANCHOR BOLT DRAWING (SECTION & DETAILS)

**Client:** M/s. BHARAT HEAVY ELECTRICALS LTD.

**STEELCLAD INFRA PRIVATE LIMITED**

46 ANSAL PLAZA, VAISHALI,  
E-mail: business@steelclad.in  
Ph-01204957400 FAX-1204957408

Sl. No.	REVISIONS	DATE	BY	CHKD
1	ISSUED FOR FABRICATION	04.01.2011	AKASH	AKASH
2	REVISIONS REQUIRED BY THE CLIENT'S COMMENT			
3	REVISIONS REQUIRED BY THE CLIENT'S COMMENT			

**Project:** M/s. BHARAT HEAVY ELECTRICALS LTD.

**Checked By:** AKASH

**Project No:** BR/1-081

**Scale:** 0:1.0/1.0

**Sheet No.:** 13 OF 13

**Project Name:** BR/1-081

**Scale:** 0:1.0/1.0

**Sheet No.:** 13 OF 13

**NOTE:-**

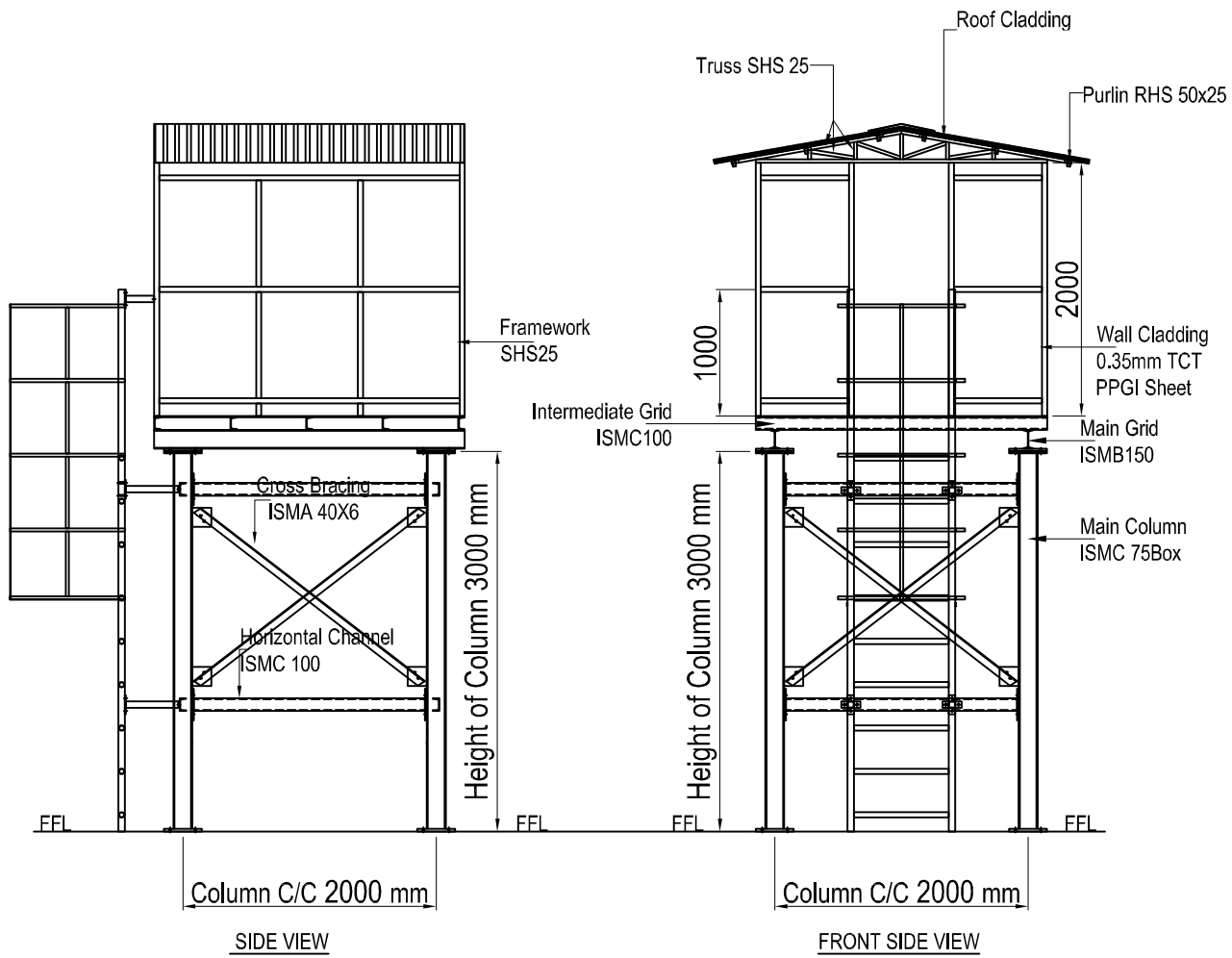
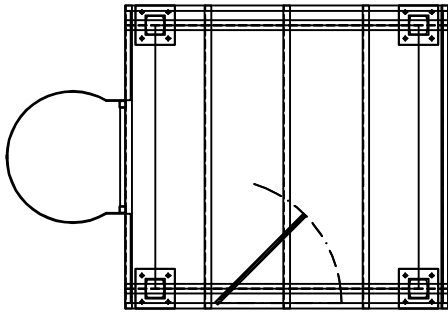
1. All dimensions are in mm.

2. The client's comment is to be incorporated in the drawing.

3. The drawing is to be submitted for approval.

4. The drawing is to be submitted for approval.

5. The drawing is to be submitted for approval.

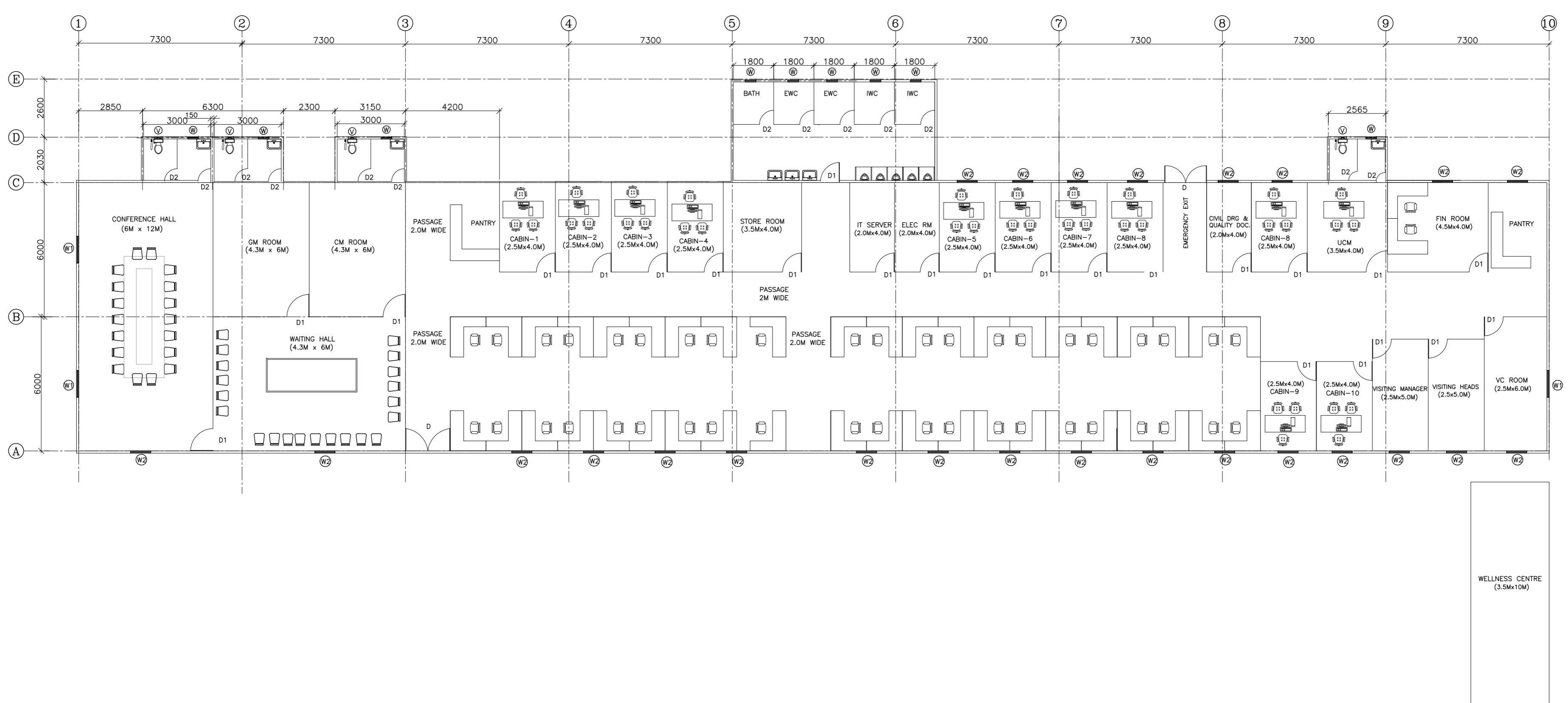


SIDE VIEW

FRONT SIDE VIEW

Note : All Dimensions are in mm

Bharat Heavy Electricals Limited				TITLE :-				Sheet :-	
				PLAN OF WATCH TOWER				01	
SIZE :	2	2	3 mtr.	DRWN	NAME	SIGNL	DATE	Scale	PROJECTION
	Length	Width	Height	RSR	BLK		10.06.16	1:1	
DWG NO :	PEPL - JUNE 16 - BHEL - P 001			CRKD	CRJ		10.06.16	Size A4	
PROJECT :	WATCH TOWER			APPD				REVISION : 0	



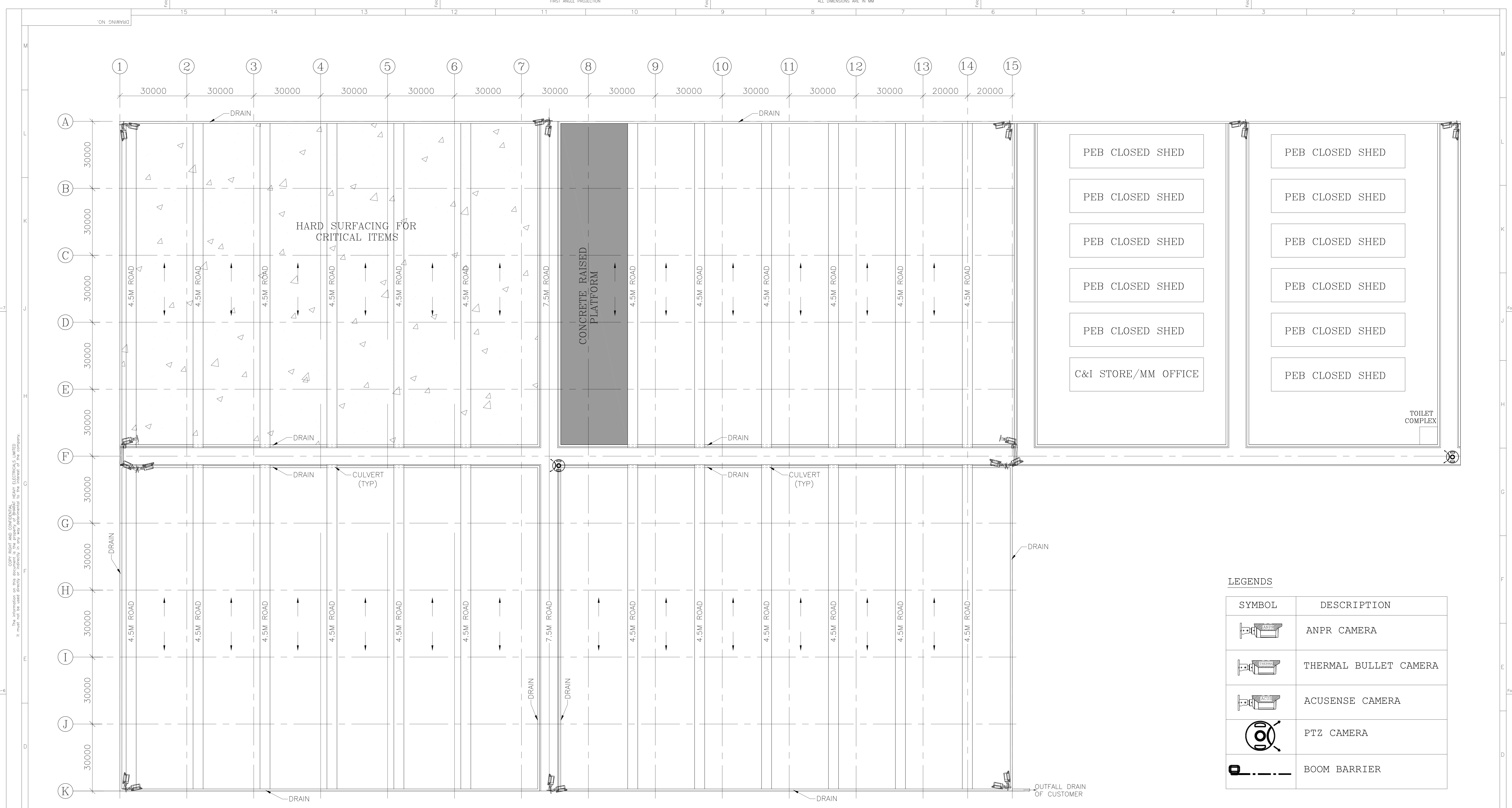
TYPICAL LAYOUT OF INTEGRATED OFFICE COMPLEX

This information is for informational purposes only. It is not intended to be used as a contract document. It may be subject to change without notice.

REV	DESCRIPTION	DESN	DRN	CHD	APPD
16					
15					
14					
13					
12					
11					
10					
9					
8					
7					
6					
5					
4					
3					

CONSULTANT:  
 CLIENT:  
 PROJECT: STANDARDIZATION OF PROJECT INFRASTRUCTURE FACILITIES

<b>CONTRACTOR</b> BHARAT HEAVY ELECTRICALS LTD POWER SECTOR		NAME	DATE
TITLE: TYPICAL LAYOUT OF INTEGRATED OFFICE COMPLEX		SCALE	
DRAWING NO.		SHEET	OF
RELEASED FOR: <input type="checkbox"/> PRELIMINARY <input type="checkbox"/> TENDER <input type="checkbox"/> INFORMATION <input type="checkbox"/> APPROVAL <input type="checkbox"/> CONSTRUCTION		PROJECTION	REV.



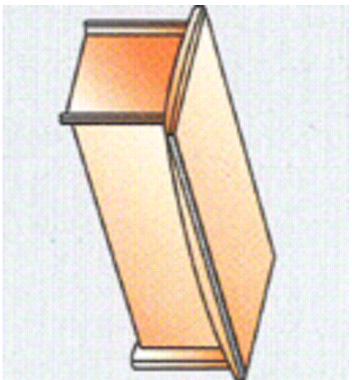
TYPICAL LAYOUT PLAN OF OPEN STORE YARD & CLOSED SHED

LEGENDS

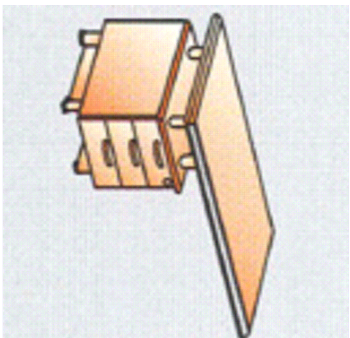
SYMBOL	DESCRIPTION
	ANPR CAMERA
	THERMAL BULLET CAMERA
	ACUSENSE CAMERA
	PTZ CAMERA
	BOOM BARRIER

ALL DIMENSIONS ARE IN MM  
 FIRST ANGLE PROJECTION  
 THE INFORMATION ON THIS DRAWING IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED  
 IT MUST NOT BE USED WITHOUT THE WRITTEN PERMISSION OF THE COMPANY.

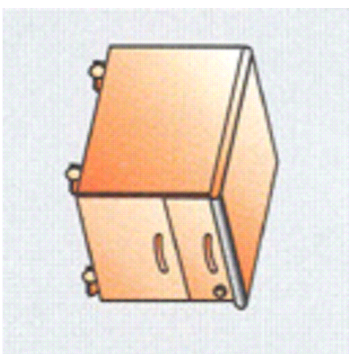
<b>CONTRACTOR</b> <b>BHARAT HEAVY ELECTRICALS LTD</b> POWER SECTOR		NAME	DATE
<b>CLIENT:</b> STANDARDIZATION OF PROJECT INFRASTRUCTURE FACILITIES		SCALE	
<b>PROJECT:</b> STANDARDIZATION OF PROJECT INFRASTRUCTURE FACILITIES		SHEET OF	
<b>CONSULTANT:</b> BHARAT HEAVY ELECTRICALS LTD		PROJECTION	
<b>TITLE:</b> TYPICAL LAYOUT PLAN OF OPEN STORE YARD & CLOSED SHED		REV.	
<b>DRAWING NO.:</b> 16		<input type="checkbox"/> PRELIMINARY <input type="checkbox"/> TENDER <input type="checkbox"/> INFORMATION <input type="checkbox"/> APPROVAL <input type="checkbox"/> CONSTRUCTION	
<b>RELEASED FOR:</b> 15		4	
<b>DESIGNER:</b> 14		3	
<b>DRAWN:</b> 13		2	
<b>CHECKED:</b> 12		1	
<b>APPROVED:</b> 11		0	
<b>DATE:</b> 10		0	
<b>SCALE:</b> 1:1		0	



Desk-W180xD90xH75

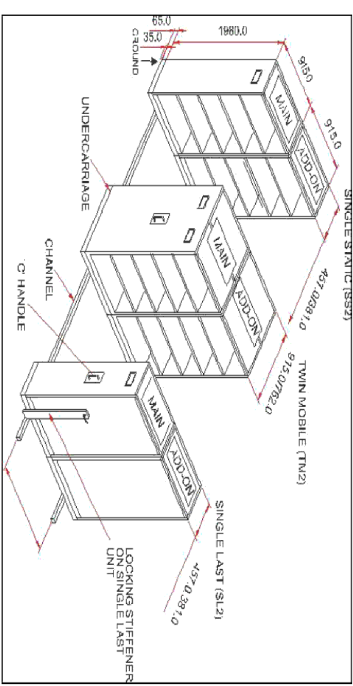


Fixed side return Desk  
W120xD60xH72

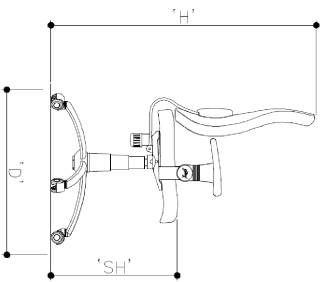


Mobile pedestal  
W120xD60xH72

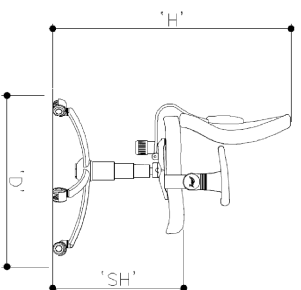
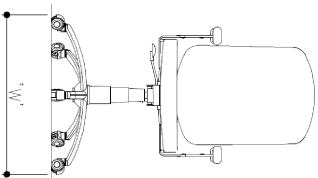
**MAESTRO TYPE TABLE FOR SITE-INCHARGE**



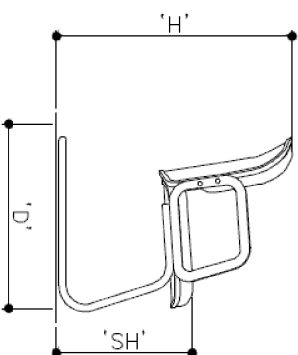
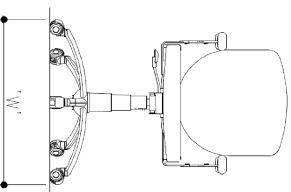
**PULL - PUSH TYPE OPTIMIZER**



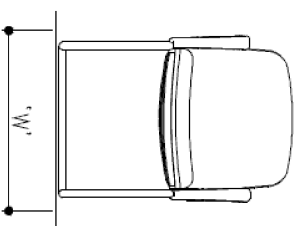
**Chair for Senior executives**  
W-70cm,  
D-70cm,  
H-102 to 115cm,  
SH-44 to 56.5cm  
Tolerance-±0.5cm



**Chair for Executives & Conf. hall**  
W-70cm,  
D-70cm,  
H-90 to 102.5cm,  
SH-44 to 56.5cm  
Tolerance-±0.5cm



**Chair for visitors:**  
W-55cm,  
D-61cm,  
H-80.5 cm,  
SH-44 cm,  
Tolerance-±0.5cm



**NOTE:-**

ALL DIMENSIONS SHOWN ARE ASSUMED AND SHOULD BE VERIFIED ACCORDINGLY



**BHARAT HEAVY ELECTRICALS LTD**  
POWER SECTOR - SOUTHERN REGION  
CHENNAI

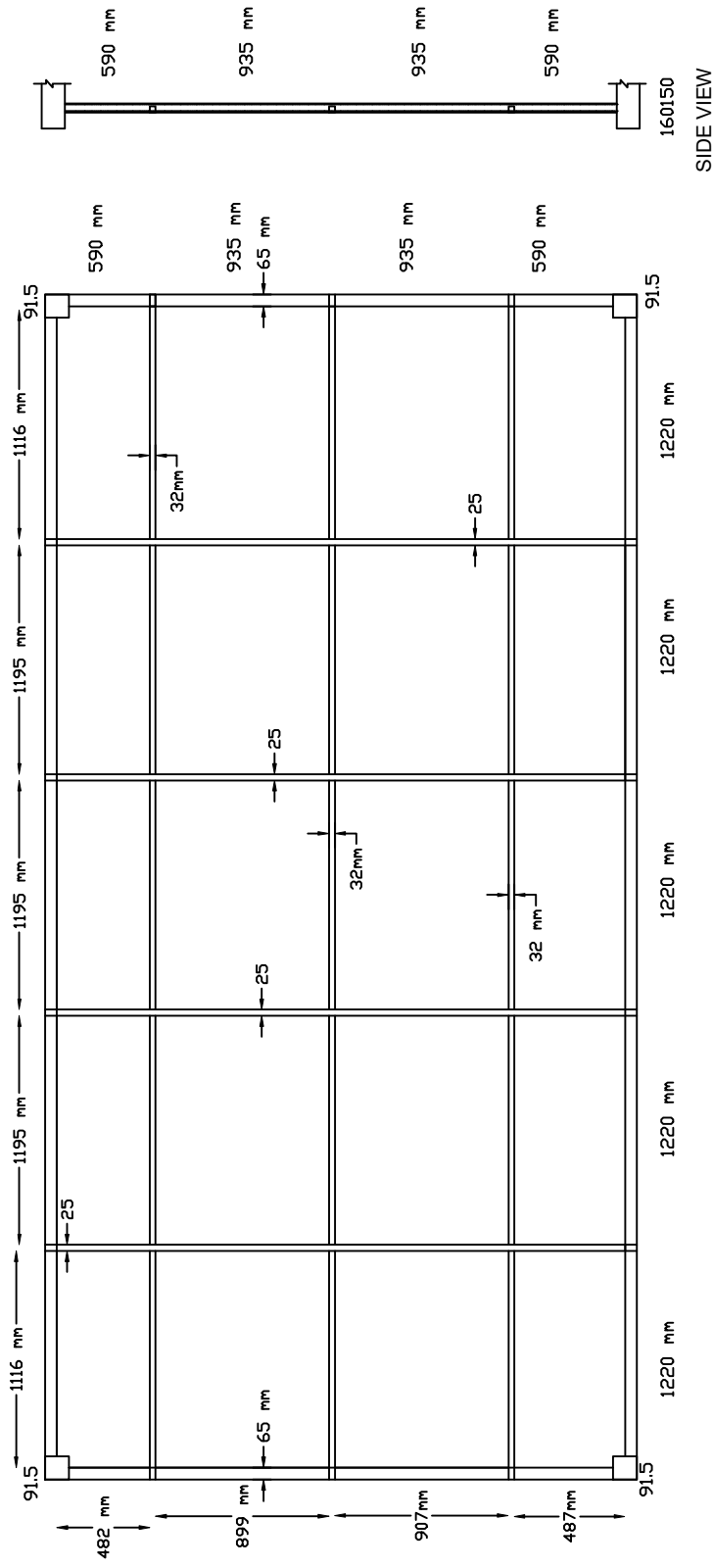
PSSR

**TITLE:**  
FURNITURE DRAWINGS

DEPT.	CIVIL	STRUCTURAL		
SIGN				
DATE	26-11-2010			
SHEET 1 OF 1		REV 00		

**BHEL DRAWING NO.**  
BHEL-PSSR-PMX-0FC-008





Plan of MS Top frame (size 20' x 10' x 8.5')



ELEVATION

Material of MS Top frame (150mm x 65mm x 2.5mm thick) & RHS (Rolled Hollow Section) --- 50mm x 25mm x 2.5mm thick SHS (Square Hollow section) ---- 32mm x 32mm x 2.0mm thick

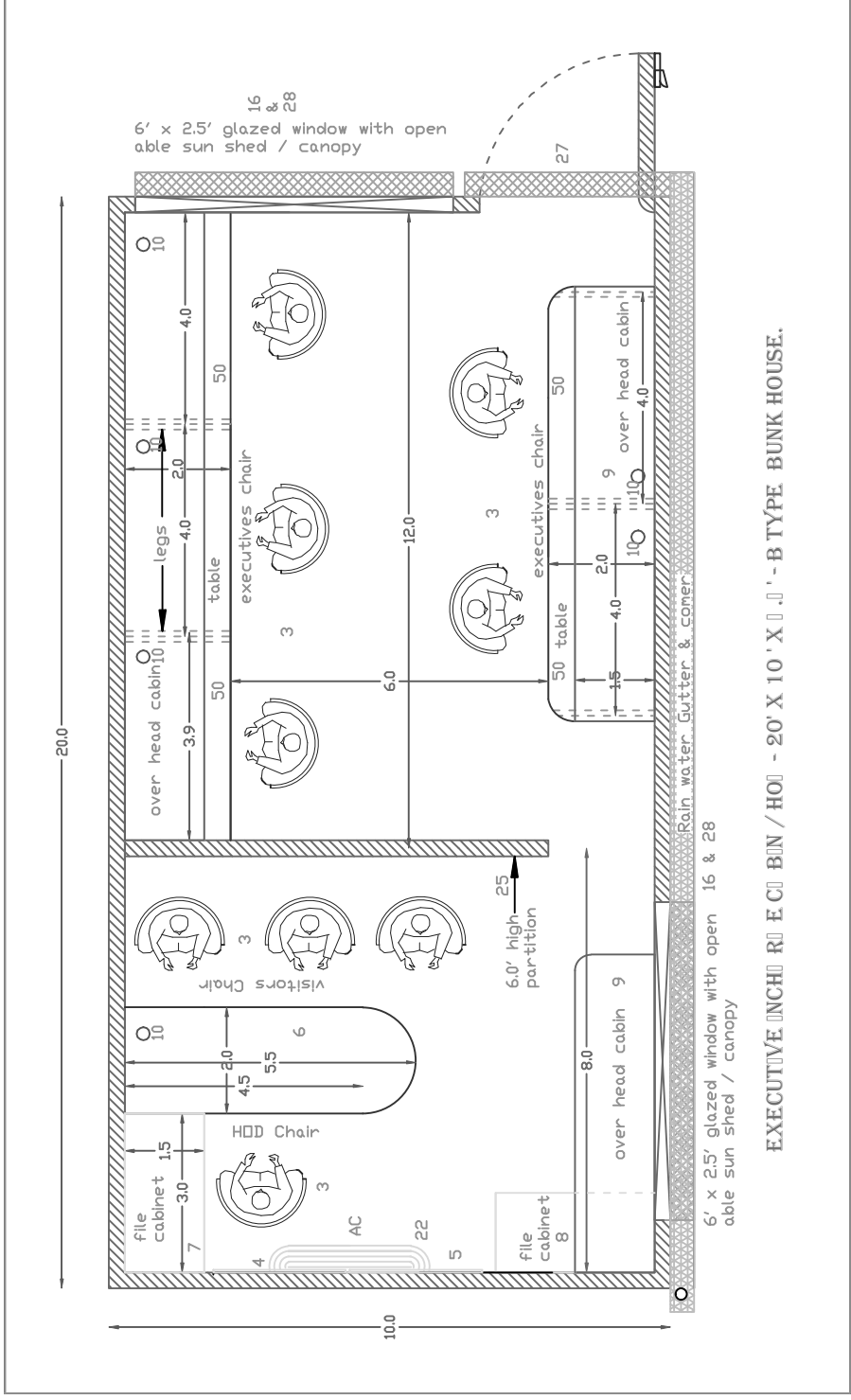
**Drawing Title - MS Top frame Size - 20' x 10' x 8.5'**

C. SECTION DETAILS

Code No.	Materials Lists / Specifications	Qty
3	EX. chair sereno model 19002 A. Godreg make Visitor chair regency model PCH 70030. Godreg make	6
4	White board Size:750x1000mm	3
6	HOD Table Size:1.67'x66.00x7.50mm ht.	1
7	File cabinet Size:91.4x450x750mm ht.	1
8	File cabinet Size:91.4x450x1500mm ht.	1
9	Over Head Cabinet Size:450x600mm.	3
10	Opening for cable	6
14	PVC Sliding window. Size:1.62x9.00mm	2
22	Split A.C.	1
25	Half Partition 6' Height	1
27	Door Size:900x1970mm	1
28	Canopy (Foldable) at door / Window size as per Drawing	1
50	Running table of Size:12' width x length as per drawing	1
5	Perforated board Size:750x1000mm	1

**Note :**

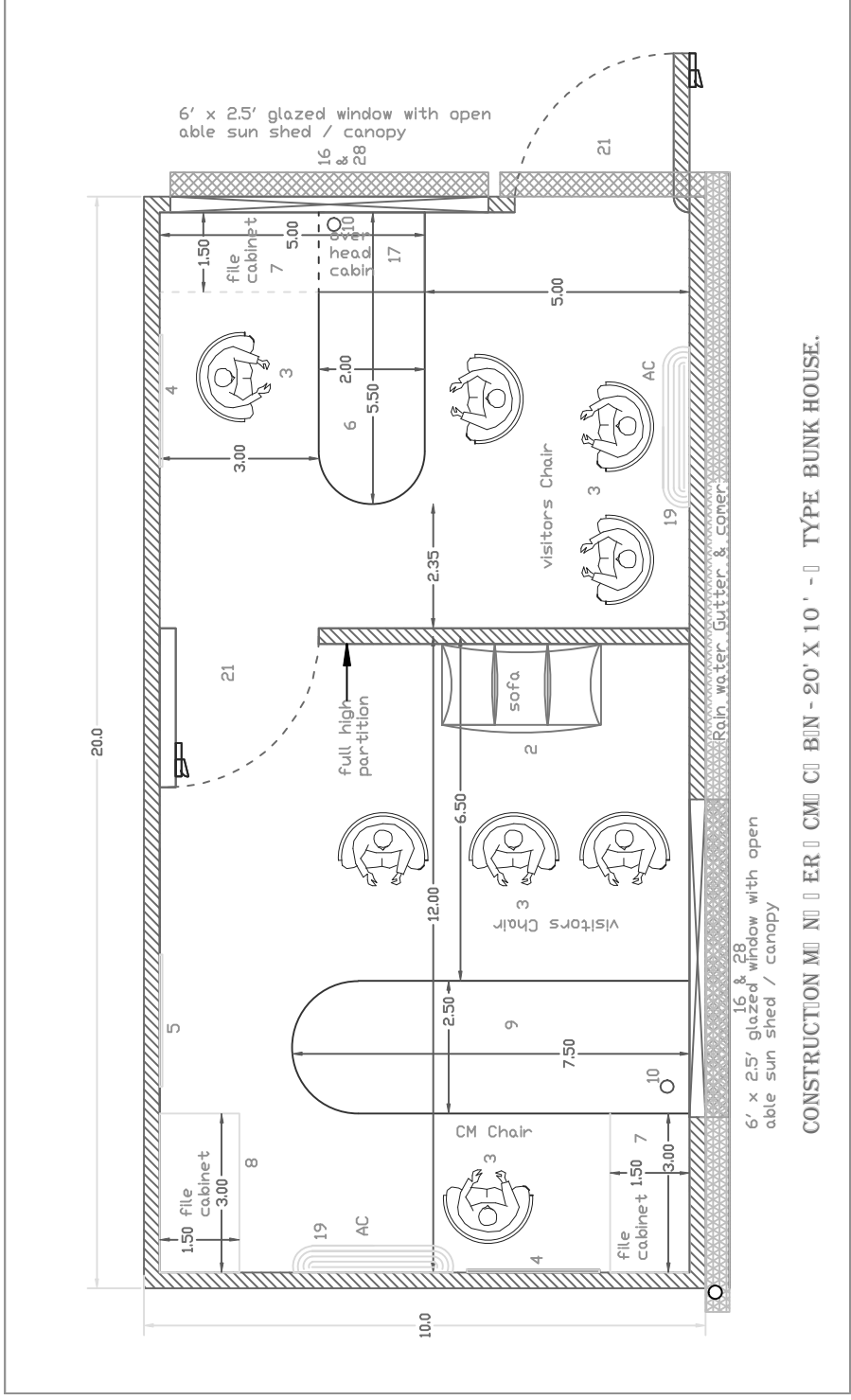
- 1) All dimensions in the Drawing are in Feet & Inches unless otherwise mentioned.
- 2) Clear Height between finished floor level to bottom of ceiling is 8.00'.
- 3) Condenser unit for split AC shall be located outside of Bunk house.
- 4) Position of cable opening as per the switch board location.



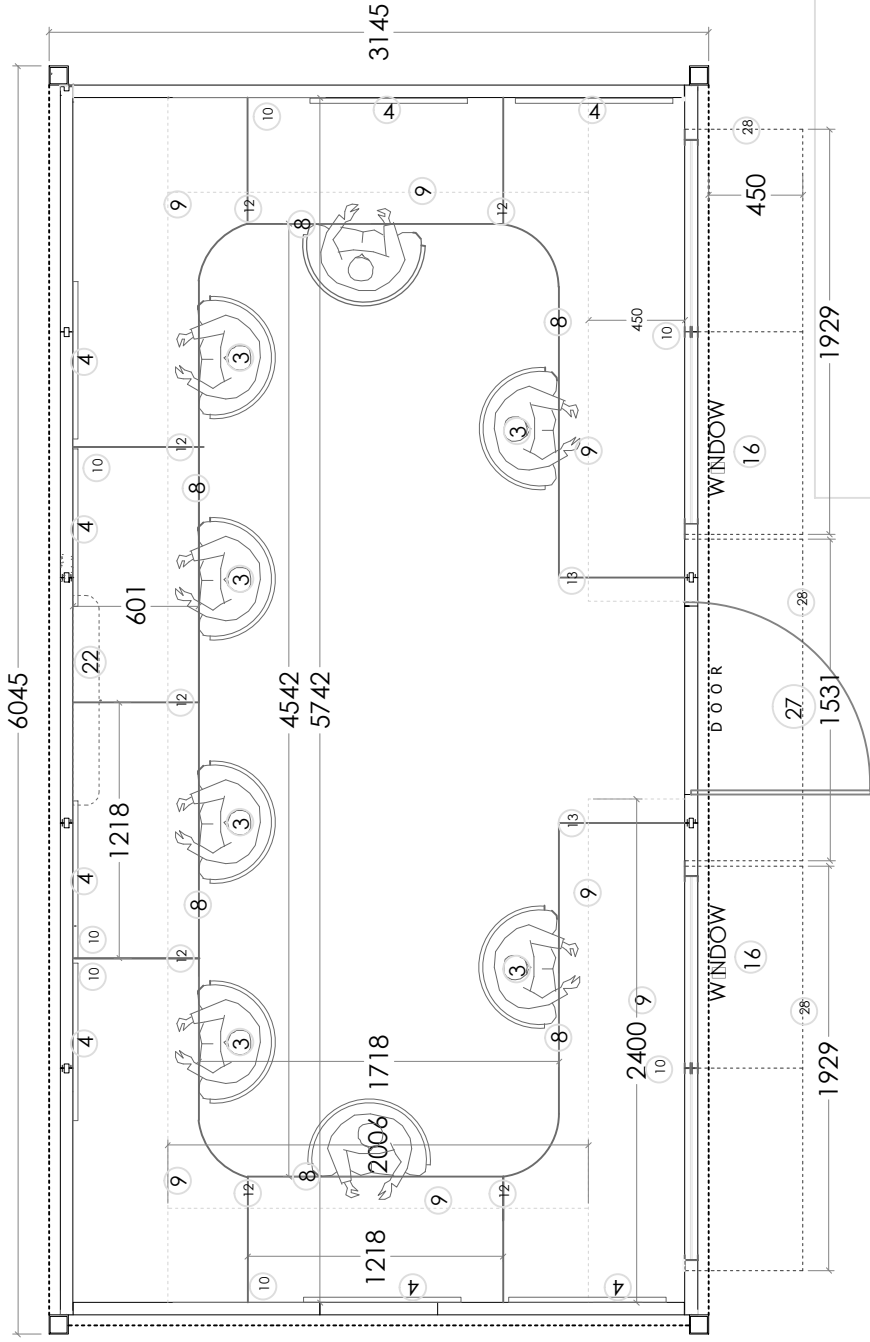
**EXECUTIVE BUNK HOUSE - 20' X 10' X 10' - B TYPE BUNK HOUSE.**

Clint : BHEL - PSWR

Code No.	Materials Lists / Specifications	Qty
2	Sofa petal series E3XX 3seater Godreg make Model No.	1
3	CM chair regency model ECH 7001D Godreg make Model No.	1
3	PS chair serena model 19002 A Godreg make Model No.	1
3	Visitor chair regency model PCH 7003D Godreg make Model No.	6
4	White board Size:750x1000mm	2
5	Perforated board Size:750x1000mm	1
6	PS Table Size:1829x600x750mm ht.	1
7	File cabinet Size:914x450x750mm ht.	2
8	File cabinet Size:914x450x1500mm ht.	1
9	CM Table Size:2286x750x750mm ht.	1
16	PVC Sliding Glazed window Size:1829x750mm	2
18	Over Head Cabinet with 2 track sliding shutter size:450x450mm	1
19	Split A.C.	2
20	Full Partition (up to ceiling)	1
21	Door Size:900x1970mm	2
23	Opening for cable	2
28	Canopy (Foldable) at door / Window size as per Drawing	2
10	Opening for cable	2



Code No.	Materials Lists / Specifications	Qty
10	Opening for cable	2



3	Visitor/Staff chair regency model PCH 7003D Godre make.	8
4	White board Size:750x1000mm	8
8	Running Table Size:as per Drawing.	2
9	Over Head Cabinate Size:As per Drawing.	
10	Opening for cable	8
12	Table partition wall 450mm height from top table surface	7
13	Partition wall up to bottom of Over head cabinate	2
16	PVC Sliding Glazed window Size:1829x750mm	2
22	Spilt A.C.	1
27	Door Size:900x1970mm	1
28	Canopy (Foldable) at door / Window size as per Drawing	

Note:  
 1) All Notes shall be followed as per other drawings

Type: C

Field Cabin /Staff Size: 20'x10'----

BHEL PSWR

**11.1.19 Specification for Pre fab PUF panel toilet block**

Main Structure	The main structural members shall be made out of MS Square & Rectangular Pipe welded between the top and base frames.
Roof & outer wall	The insulated wall cladding shall be done with sandwich type panel made with 0.4 mm thick pre coated plain sheet at outer side and inner side of PUF. Total thickness of panel shall be 30mm for roof and 50mm for wall. PU must be cfc free self-extinguishing fire retardant type having density of 40kg/cum(+/-2kgs). The panels shall be joined together by tongue and groove method and placed in vertical direction. Colour shall be off white or as approved by BHEL engineer-in-charge. Toilet block shall be provided with suitable hooks for shifting purpose. Adequate shade cover to be provided with metal steel sheet for Washbasin.
Door	Door shall be external opening type made out of the PUF panels with Suitable locking arrangements (both inside and outside).
Flooring	Flooring shall be made from 18mm Cement Board, top with vinyl on bottom frame
Plumbing	All the necessary internal Plumbing works
Water tank	PVC Water tank of 500 Litres capacity along with steel structure required to hold the tank in position shall be supplied
Toilet wares	
For 4'x4'x7' size toilet	EWC with flush tank-1Nos, Washbasin-1Nos with CP pillar cock (outside), health faucet & tap-1 Nos
For 4'x8'x7' size toilet with partition	EWC with flush tank-2Nos, Washbasin-1Nos with CP pillar cock(outside), health faucet & tap-2 Nos
Electrical	Electrical wiring suitable for 250 volt, 50Hz single phase AC power supply shall be provided with necessary internal wiring and switches. ISI mark and concealed in PVC conduits insulated copper wire shall be used for wiring with small size distribution board with MCB protection to separate with main supply.
For 4'x4'x7' size toilet	18W LED tube light -1Nos, Exhaust Fan of 300 mm sweep -1Nos, bulkhead fitting with lamp for outside of door -1Nos
For 4'x8'x7' size toilet with partition	18W LED tube light -2Nos, Exhaust Fan of 300 mm sweep -2Nos, bulkhead fitting with lamp for outside of door -1Nos

Material supplies shall be purchased from any leading manufacturer and shall conform to IS standards and as accepted by engineer-in-charge.

### 11.1.20 Specification for Pre fab PUF panel Security cabin

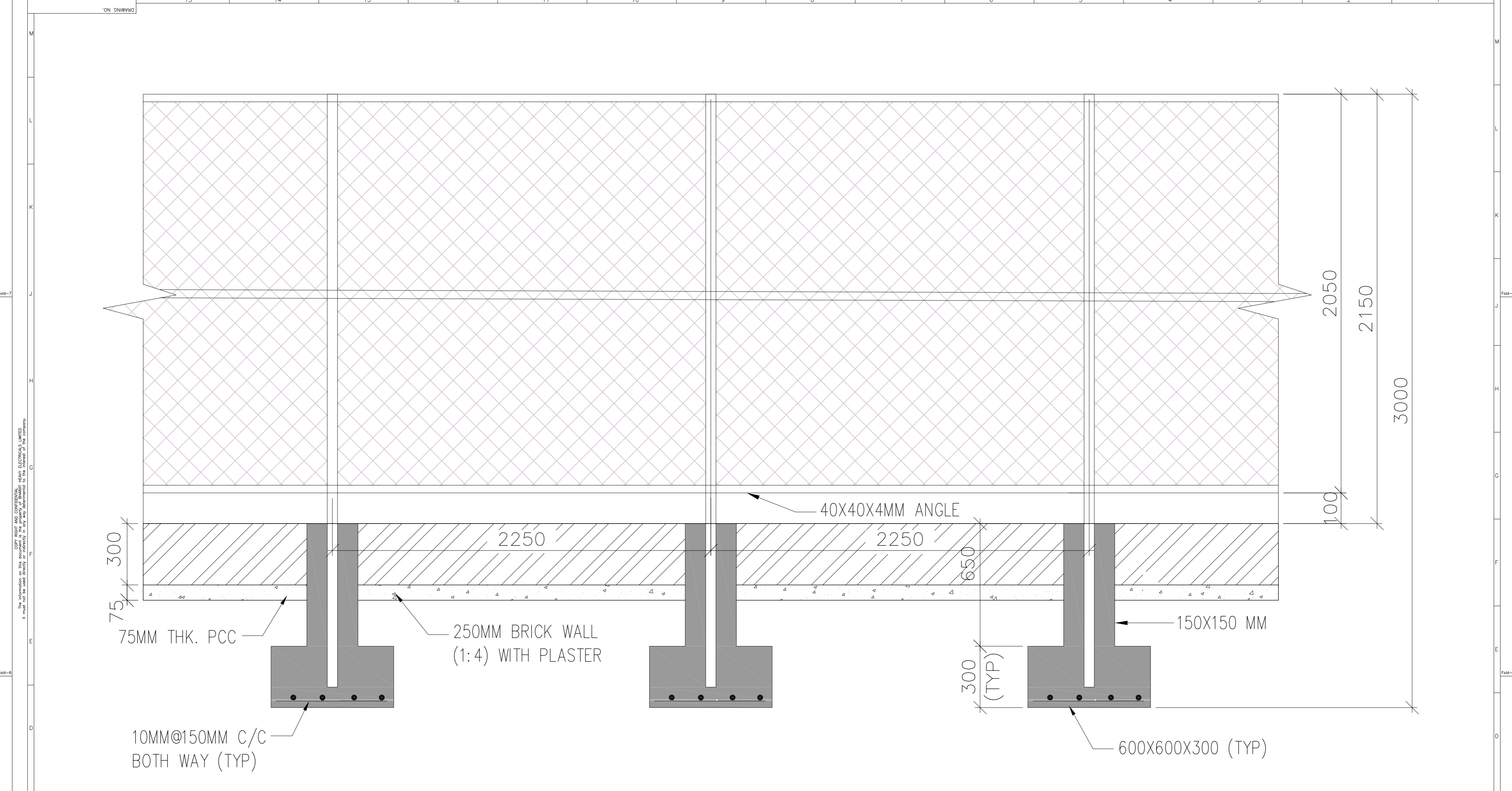
Main Structure	The main structural members shall be made out of MS Square & Rectangular Pipe welded between the top and base frames.
Roof & outer wall	The insulated wall cladding shall be done with sandwich type panel made with 0.4 mm thick pre coated plain sheet at outer side and inner side of PUF. Total thickness of panel shall be 30mm for roof and 50mm for wall. PU must be cfc free self-extinguishing fire retardant type having density of 40kg/cum(+/-2kgs). The panels shall be joined together by tongue and groove method and placed in vertical direction. Colour shall be light grey or as approved by BHEL engineer-in-charge. Security cabin shall be provided with suitable hooks for shifting purpose.
Door	Door shall be external opening type made out of the PUF panels with Suitable locking arrangements (both inside and outside).
Windows	3'x3' Aluminium powder coated window -2Nos, sliding type shall be provided, made of aluminium section with clear vision glass fitted to it.
Flooring	Flooring shall be made from 18mm Cement Board, top with vinyl on bottom frame.
Electrical	Electrical wiring suitable for 250 volt, 50Hz single phase AC power supply shall be provided with necessary internal wiring and switches. ISI mark and concealed in PVC conduits insulated copper wire shall be used for wiring with small size distribution board with MCB protection to separate with main supply. 18W LED tube light -2Nos, 1no bulkhead fitting with lamp for outside of door, Ceiling fan -1Nos

Material supplies shall be purchased from any leading manufacturer and shall conform to IS standards and as approved by engineer-in-charge.

TECHNICAL SPECIFICATION DATA SHEET - ZINCALUME WATER TANKS		
1	Design Code	As per IS:1893
2	Liquid Density (kg/m <sup>3</sup> )	1,000
3	Working Pressure	Atmospheric Pressure
4	Design Temperature	(-) 20 deg c to 70 deg C
5	Working Temperature (deg C)	15-48 deg c
6	Wind Design	As per IS: 875 Part 3
7	Wind speed	As per IS: 875 Part 3
8	Seismic Zone	As per IS:1893 Part 1 -2016
9	CAPACITY	100 kl approx.
10	Diameter	As per design
11	Height	3.0 m approx.
12	Volume	100 kl approx.
13	Quantity	100 kl x 1
14	Free Board	+ 300 MM
15	Construction & MOC	As mentioned below
16	VOID	
17	Shape	Cylindrical and Vertical with Dome Roof
18	Tank Type	Corrugated Bolted Panel with Liner
19	Roof Type	Self-Supporting Dome Roof
20	MOC of Shell Sheets	Tata BlueScope Zincalume Steel (G350)/JSW or equivalent
21	Material Composition	Composition on Zincalume sheet - Al-55%, Zn-43.4%, Si-1.5%
22	Shell Sheet Grade	G300, AS 1397/IS15961, ZL34
23	Coating thickness on sheet (micron)	150 gsm
24	Panel Profile	Pitch - 75 mm Depth - 18mm
25	Sheet Dimension (Wall)	As per design
26	Sandwich material between layers of sheets	Bond tight
27	Sheet Colour (Shell & Roof)	Natural Zinc Colour
28	MOC of Roof Sheets	Zincalume / Galvalume
29	Roof Sheet Grade	G550 High tensile
30	Total Thickness of roof (mm)	0.8 mm of Single Sheet
31	Total Thickness of Wall (mm)	0.8 mm of Single and multiple fusing done as per structural load & Design.
32	Roof Load Bearing	Min. 110 kg/m <sup>2</sup>
33	Yield & Tensile strength Roof sheet	550 Mpa
34	MOC of trusses for roofing	MS-Hot dipped galvanized - 500-600 GSM
35	Size of Trusses for Roofing	As per Tank Design
36	Inside liner type	High tensile - PVC liner- SRF/Ferrari/Sioen or equivalent
37	Liner Thickness	760 GSM -800 GSM
38	Liner Strength	Minimum Warp - 30 Kg & weft - 25 Kg Breaking strength - Warp >2500 N/5cm Breaking strength - Weft >2000 N/5cm
39	Liner Grade	Food Grade
40	Liner PH Range	4 to 8 Ph Range

41	Water Head Test	220 PSI for PVC
42	Void	
43	Bottom protection of liner	Double Layer Geo Textile
44	Thickness of Geo-Textile	0.3 mm compressed / 3mm non-compressed
45	Void	
46	Liner Standard	Reinforced PVC, UV Stabilized, Anti Algae
47	External Ladder	Heavy duty Industrial ladder with intermediate resting platform with Safety Cage - All Hot Dip Galvanised Members
48	Internal Ladder	Nylon rope with aluminium steps
49	Antivortex	Yes
50	Corrosion protection	Yes
51	Nozzles / Accessories	
52	Nozzle MOC	MS Hot Dipped Galvanized to IS 1239, IS 3589
53	Nozzle Type & Schedule	MS - Hot Dip Galvanized, Drilling Dimensions and counter flanges to match BS Table 10 D
54	Access Hatch on Dome roof - Manhole on roof Top	Zincalume steel- min. 750 x 750 mm with lockable access hatch x 1 Qty each Tank
55	Air Vent Type	Turbo Vent -1 Nos on roof top Effective Throat Dia 600 mm with vanes shaft shall be of Stainless Steel other components of aluminium including rivets & other accessories, zinc plated steel screws, bolts & nuts and sealed & lubricated steel top & bottom bearings
56	Level Indicator assembly	External Float and board type Level indicator to be provided
57	Anchor fasteners / Nuts & Bolts	
58	MOC	High Tensile HDG/ M10
59	Grade	Gr. 8.8
60	Protection of Nuts (Inside Shell)	Taped to Cover
61	Protection of Nuts (Outside Shell)	PVC /Silicon Caps from outside.
62	Nuts Bolts Make	TWF/Unbrako(DFL)/SF/TVS sundaram.
63	Anchor Fastener MOC	Galvanised Iron - M16
64	Anchor Fastener Make	BONN/Hilti/Fischer/Cannon
65	Anchor Fastener Type	Mechanical type
PREFERABLE LIST OF MAKES/BRANDS USED IN THE TANK (new supplies shall be purchased from any leading manufacturer, conforming to IS standards as approved by BHEL engineer at site)		
A	Product/Component Details	Makes/Brands
B	Galvalume wall sheet	Tata Bluescope/JSW
C	Galvalume roof sheet	Tata Bluescope/JSW
D	Galvanised Steel Sheets	JSW/Posco
E	PVC Geomembrane Liner	SRF/Sieon/Ferrari
F	Hex Nut Bolts 8.8 grade	TWF/Unbrako(DFL)/SF/TVS sundaram.
G	Expansion Anchor Fasteners	BONN/Hilti/Fischer/Cannon
H	Structural Steel	Tata Bluescope/JSW
I	Geotextile Fabrics	Virender textile
J	Fusing sandwich Sheet chemical	Azonobel/Bondtite

K	Turbine Vent for roof	Golden/Anchit/PNP.
L	MS pipe for nozzles	Jindal/Tata Steel/Apollo
M	MS flanges for Nozzles	ISI marked
N	Float & Board type Level Indicator	Cirrus / Cibie





# CHAIN LINK

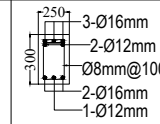
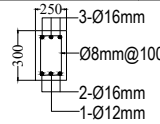
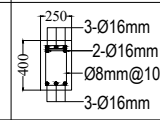
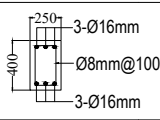
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CLIENT: STANDARDIZATION OF PROJECT INFRASTRUCTURE FACILITIES										DRN						
PROJECT: 7										DESN						
CONSULTANT:										CHD						
DRAWING NO. 4										APPD						
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TITLE: CHAIN LINK										PROJECTION	REV.					
REV	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

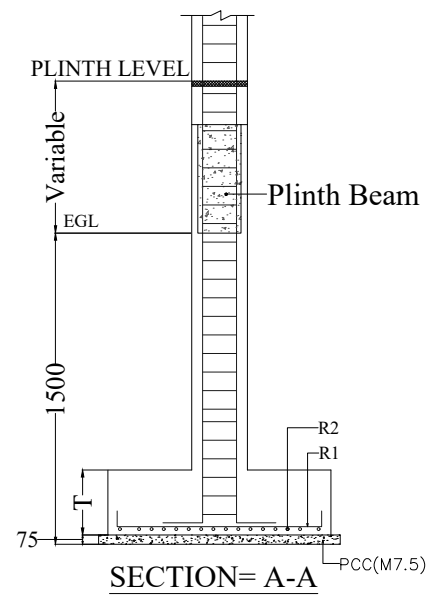
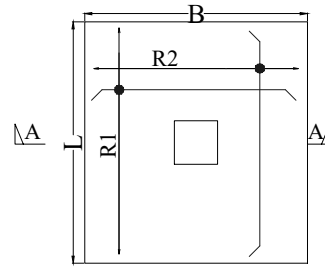
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### COLUMN SCHEDULE

Column Type	Below PL	Above PL
C1	 <p>Size: 300X300 8-12 mm Ø Tie 8 mm Ø @ 100 mm C/C</p>	 <p>Size: 300X300 8-12 mm Ø Tie 8 mm Ø @ 150 mm C/C</p>

### PLINTH BEAM SECTION DETAILS

BEAM NAME	END SECTION	MIDDLE SECTION	
PB-1	 <p>3-Ø16mm 2-Ø12mm Ø8mm@100 2-Ø16mm 1-Ø12mm</p>	 <p>3-Ø16mm Ø8mm@100 2-Ø16mm 1-Ø12mm</p>	FOR SPAN UPTO 6M
PB-2	 <p>3-Ø16mm 2-Ø16mm Ø8mm@100 3-Ø16mm</p>	 <p>3-Ø16mm Ø8mm@100 2-Ø16mm 3-Ø16mm</p>	FOR SPAN GREATER THAN 6M

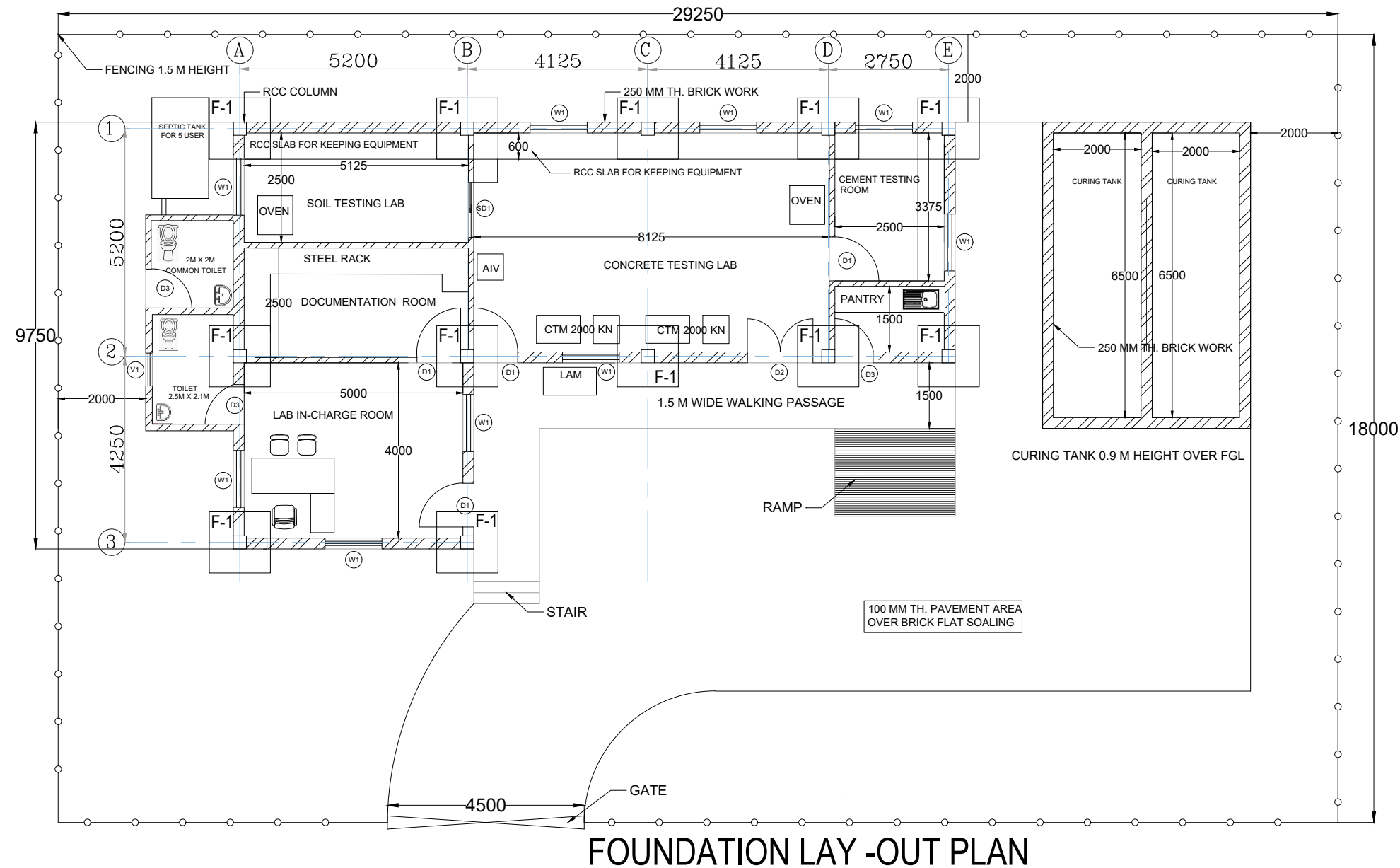


### SCHEDULE OF FOOTING AND REINFORCEMENT


TYPE	LENGTH L (mm)	BREADTH B (mm)	THICKNESS T (mm)	REINFORCEMENT	
				LONG DIRECTION BAR R1	SHORT DIRECTION BAR R2
F1	1400	1400	300	10 mm Ø @ 175 mm c/c	10 mm Ø @ 175 mm c/c

#### NOTES:-

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND CONDITIONS, TECHNICAL SPECIFICATIONS AND SCHEDULE OF ITEMS.
- ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
- ALL ELEVATIONS ARE REFERRED TO THE FINISHED FLOOR LEVEL
- NO DIMENSIONS FROM THIS DRAWING ARE TO BE SCALED OFF AND ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
- CHECK ALL DIMENSIONS, CO-ORDINATES & ELEVATIONS IMMEDIATELY. REPORT ANY DISCREPANCIES CONFLICTS OR ERROR FOR CLARIFICATION PRIOR TO COMMENCING WORK.
- NET SBC CONSIDERED IS 10T/SQM. AT FOUNDING LEVEL AT 1.5M BELOW EGL/FGL.
- BACK FILLING SHALL HAVE TO BE DONE WITH EARTH IN LAYERS NOT EXCEEDING 300 MM DEPTH EACH LAYER TO BE COMPACTED SO AS TO ACHIEVE ATLEAST 90% COMPACTION AS PER STANDARD PROCTOR DENSITY TEST
- FOUNDATION SIZES ARE FOR GIVEN LAYOUT AND ARRANGEMENT OF CIVIL QUALITY LAB.
- ANY MODIFICATION IN LAYOUT SHALL BE SUITABLY TAKEN CARE AT SITE.
- CLEAR COVER TO OUTERMOST REINFORCEMENT (INCLUDING TIES) SHALL BE 40MM FOR COLUMN AND 25MM FOR BEAM.
- REINFORCED CONCRETE USED SHALL BE OF GRADE M20/M25 CONFORMING TO IS: 456-2000.(AS PER AVAILABLE BOQ ITEM).
- REINFORCEMENT USED AT SITE SHALL BE GRADE Fe 500D (TMT) CONFORMING TO IS: 1786 WITH MINIMUM ELONGATION OF 14.5%
- IN THE PROPOSED LAYOUT THE ROOM DESCRIPTION IS SHOWN TENTATIVELY ONLY. SITE SHALL MODIFY THE SAME SUIT TO SITE CONDITION.
- ALL ELECTRICAL AND PLUMBING DRAWINGS FOR THE BUILDING TO BE DEVELOPED AND FINALIZED BY THE CONTRACTOR IN CONSULTATION WITH SITE. PLASTER, PAINT AND FLOOR FINISH SHALL BE AS PER BOQ ITEM.



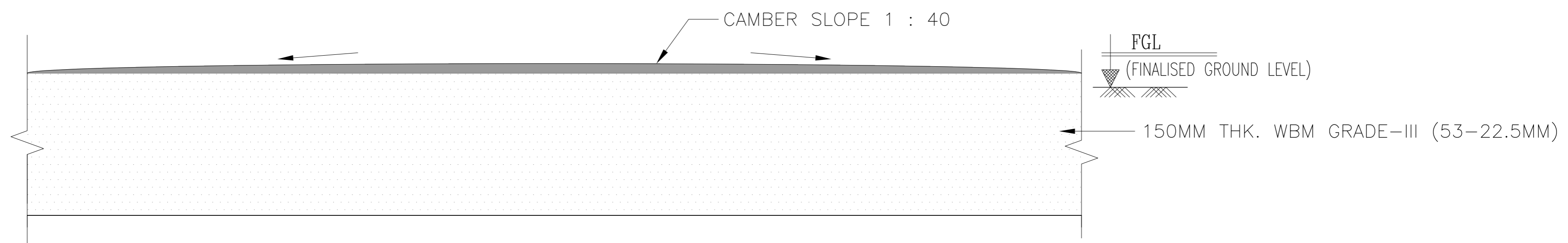
### PROJECT SITE

 <p>Maharashtra Company</p>	BHARAT HEAVY ELECTRICALS LTD		DEPT CODE	NAME
	POWER SECTOR		DRN	DEEPAKNER
	CENTRAL PROCUREMENT CELL (CPC)		DESN	AMAN SHARMA
	PSHQ		CHD	SONAM GUPTA
		APPD	Dr. ABDULLAH AHMED	

TITLE  
BHEL CIVIL QUALITY LAB - GA & RC DETAILS OF FOUNDATION,COLUMN & PLINTH BEAM DRAWING

BHEL-CPC-CQL-F001

SCALE 1/100 REVISION NO. - RD  
SHEET 1 OF 1 10.03.04.2026



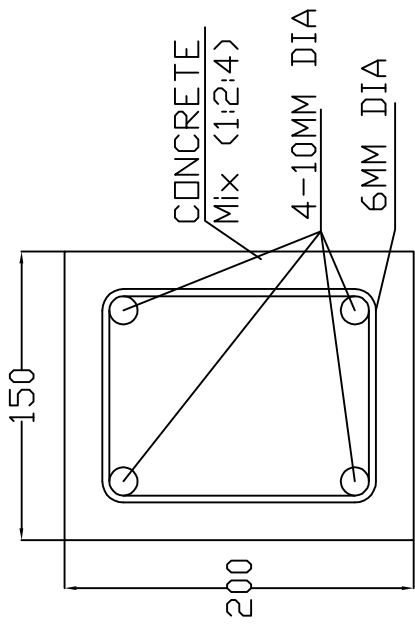
# CONCRETE RAISED PLATFORM

## NOTES:

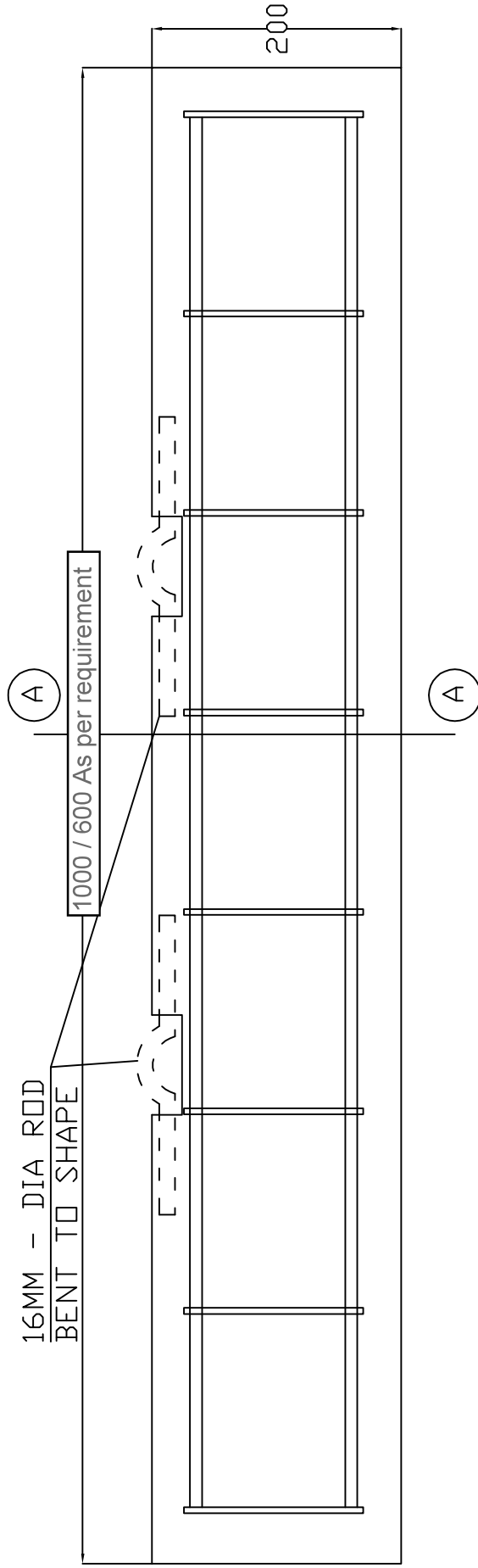
1. FLY ASH MIX WITH CEMENT. (90% FLY ASH WITH 10% CEMENT)
2. ROLLER COMPACTED CONCRETE WITH ABOVE SPECIFICATION SHALL BE USED FOR CONCRETE RAISED PLATFORM.

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CONSULTANT:										CONTRACTOR BHARAT HEAVY ELECTRICALS LTD POWER SECTOR		NAME	DATE
CLIENT:										TITLE CONCRETE RAISED PLATFORM		SCALE	
PROJECT: STANDARDIZATION OF PROJECT INFRASTRUCTURE FACILITIES										DRAWING NO.		SHEET OF REV.	
PROJECT: 7										RELEASED FOR:		PROJECTION	
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DESN: 13										<input type="checkbox"/> INFORMATION		<input type="checkbox"/> APPROVAL	
DRN: 11										<input type="checkbox"/> CONSTRUCTION		PROJECT	
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DRN: 11										8		9	
CHD: 10										9		10	
DRN: 12										10		11	
APPD: 9										11		12	
DESN: 13										12		13	
DRN: 11										13		14	
CHD: 10										14		15	
DRN: 12										15		16	



SECTION A-A



LOGITUDINAL SECTION OF CONCRETE SLEEPER






**CONCRETE SLEEPER - 150x200x** 1000 / 600 As per requirement







CONCRETE SLEEPERS FOR MATERIAL HANDLING

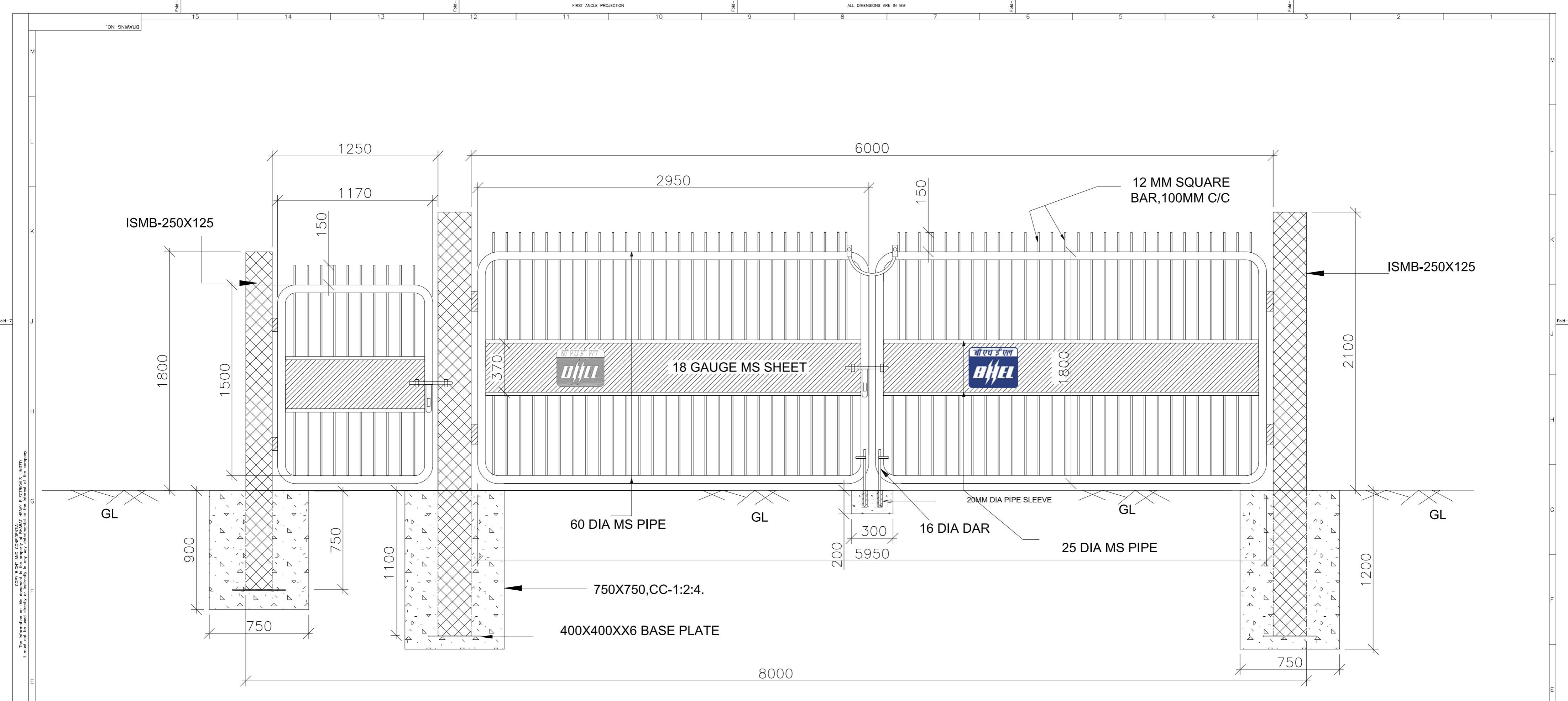
**TECHNICAL SPECIFICATIONS FOR MODULAR FURNITURE**

**Detailed technical specifications of modular office furniture items such as Mastro type table for site incharge room, Conference hall table, Modular office type cubicle 4-seater, 2- seater, 1- seater, Tables, Racks, Site incharge chairs, Chairs for senior executive, Chairs for executive & conference hall, Chairs for visitors, Three seater sofa, Teapoy table, L type table for executives, Office table, Office running tables, Plain cupboards, Vertical filing cabinets & High glass hinged door unit etc.**

SL. NO.	ITEM DESCRIPTION	DEATEILED SPECIFICATION	REFERENCE IMAGE
1	<b>Mastro type table for site incharge including fixed side written table, mobile pedestal etc.</b>	Supplying & Placing Modular table size 2100mm X 1800mm X 750mm that is to be assembled at site. The top shall have the size 1900mm X 900mm made up of 45mm thick Pre-laminated particle board , Edges shall be sealed with 2mm thick thin strip PVC . The table top shall be supported on 75mm Peg mounted over side storage unit and fixed pedestal. The end wall of the table on the side shall be topped by gable end. 18mm thick modesty panel which provide structural support for the table. The table shall have side unit for storage purpose with an overall size 1800mm X 510mm X 625mm. It shall have 3 drawer and 2 sliding shutter. Indian Design Mark Certify, Pedestal shall be provided with an overall size 455mm X 685mm X 485mm. The pedestal shall have 2 nos. of drawer.	
2	<b>Conference hall table of seating capacity minimum 22nos.</b>	Conference table in size 11250mm X 1800mm X 750mm that is to be assembled at site. Made up of back to back 25mm thick pre-laminated particle board . The modesty panel shall be 18mm thick pre-laminated particle board with appropriate PVC edge banding Wire carrier shall be provided below the table top for power connection having size 60mm X 125mm made of 0.8mm thick high yield strength of CRCA sheet.	
3	<b>Conference hall table of seating capacity minimum 10nos.</b>	Conference table overall size 3600mm X 1200mm X 750mm , The table top shall have the size 1800mm X 1200mm made up of 2 nos. 25mm thick Pre-laminated particle board , The table shall be supported by particle board base gable end. The table shall be clad with 18mm thick modesty panel which provide structural support for the table. The modesty panel shall have have with 18mm thick Pre-laminated particle board with appropriate PVC edge banding connected with both end.	
4	<b>Modular office type cubicle with supporting pedestal, keyboard tray, CPU trolley etc. as per finalised furniture layout drawing by BHEL Engineer incharge.</b>	Workstation table in completely knock down conditions with an overall height 1200mm that is to be assembled at site. The worktop shall have the size 1800mm/600mm X 1800mm/600mm made up of 25mm thick Pre-laminated particle board , The top shall be supported on particle board base gable end. keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The workstation shall have aluminium panel based partition of 45 mm thick Lowest section size (from floor) - 2'6" partial board (25mm thick prelaminated partial board with 2mm edge banding) and top section size - 1'6" pin ub board duly upholstered. with overall height 1200mm with duly powder coated with 40-60µ thick. 2 Nos. of Aluminium Raceway shall be situated below the worktop with an overall size 116mm(H) X 60mm(D) with 1.4 mm cover thickness and 2mm back thickness as per requirement of inlaying the electrical management and carrying the wire horizontally. Mobile pedestal size W400 x D450 x H680mm. A CPU unit shall be provided with an overall size 470mm X 286mm with 18mm thick Pre-laminated particle board.	
4.1	<b>4 seater cubicle</b>		
4.2	<b>2 seater cubicle</b>		
4.3	<b>1 seater cubicle</b>		
5	<b>Site Incharge chair</b>	High back chair with 18mm thick hot pressed commercial plywood. The same shall be upholstered with leatherite tapestry 0.8mm thick and 535 GSM. The chair Arms: PP Arm with cushion, Powder coated Base with 5 Nos.Twin Wheel Castor, Chair shall have Torsion bar 360 degree revolving mechanism, user can adjust seat height up to 65mm with BIFMA standard class-3 Gas-lift . The seat size shall be 480±10 mm(D) X 520±10 mm(W) and back size shall be 540±10 mm(W) X 710±10 mm(H) from seat. Overall height shall be = 1140±10 mm, overall depth/width = 700±10 mm.	

6	<b>Chair for senior executive</b>	High Back Chair, PU Adjustable Arm, Gas Lift, Nylon Base, Seat & Back Mesh Tapestry Synchro Tilt Macheisum, The seat size shall be 465±10 mm(W)X465±10 mm(D) and back size shall be 505±10 mm(W)X510±10 mm(Ht) from seat.	
7	<b>Chairs for executive and conference hall</b>	Medium Back Chair, PU Adjustable Arm, Gas Lift, Nylon Base, Seat & Back Mesh Tapestry Synchro Tilt Macheisum, The seat size shall be 465±10 mm(W)X465±10 mm(D) and back size shall be 505±10 mm(W)X510±10 mm(Ht) from seat.	
8	<b>Chairs for visitors</b>	Visitor Chair, PP Fixed Arm, Gas Lift, Powder Coated Stand , Seat & Back Mesh Tapestry. The seat size shall be 465±10 mm(W)X465±10 mm(D) and back size shall be 505±10 mm(W)X510±10 mm(Ht) from seat.	
9	<b>Three seater sofa</b>	Three seater sofa that shall be constructed from natural hard wood and commercial plywood having inner frame. The frame shall be padded with high resilience polyurethane foam having density 40Kg/m <sup>3</sup> in seat and 32Kg/m <sup>3</sup> in back. There shall be cushion arm , The seat size shall be 540±10 mm(D) X 1550±10 mm(W), seat height = 430±10 mm, overall width = 1920±10 mm, overall depth = 755±10 mm & overall height = 750±10 mm.	
10	<b>Teapoy table</b>	Center table with an overall size 1200mm X 600mm X 450mm. The top shall be made up of 12mm thick toughened glass. The bottom storage shelf shall be provided with an overall size 1155mm X 280mm made of 8mm thick toughened glass with bevelled edges. The glass shall be supported on vacuum caps situated over SS 202 grade pipe frame. The under structure shall have SS pipe frame having size 67mm X 13.5mm. There shall be PPCP shoe provided to avoid scratches on the floor.	
11	<b>L type table for executives size 4 1/2' x 2' or 4 1/2' x 1 1/2'</b>	L Types Table, overall size 1800mm X 1650mm X 750mm of 25mm thick particle board with approved laminate . A keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. The table shall have side unit for storage purpose with an overall size 900mm X 450mm X 750mm. The side unit shall be made up of Pre-laminated particle board . A mobile pedestal shall be provided with an overall size 400mm X 450mm X 680mm. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. A movable type CPU unit shall be provided with an overall size 468mm X 284mm.	
12	<b>Office table size 4 1/2'x2</b>	Office Table overall size 1200mm X 600mm X 750mm . The construction of the main table shall be free standing structure constructed with the help of minifix dowels and pins. The table top shall be made up of 25mm thick particle board with approved laminate . A pullout keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 550mm X 280mm. Mobile pedestal shall be provided with an overall size 400mm X 450mm X 650mm. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. A movable type CPU unit shall be provided with an overall size 468mm X 284mm. The CPU unit shall be made up of 18mm thick Pre-laminated particle board and mounted on nylon castors.	

13	<b>Office running table with centre partition size 4'x2'</b>	<p>Workstation table in completely size 1320mm X 660mm X 1200mm that is to be assembled at site. The work top shall have the size 1200mm X 600mm made up of 25mm thick Pre-laminated particle board . Keyboard tray shall be provided of 18mm thick Pre-laminated particle board having size 525mm X 350mm. panel based partition of 60 mm thick with overall height 1200mm. The partition shall be linear in profile and provided in the front side of user as well as on the both sides of the user. The top trim, top bar, mid bar, vertical bar, raceway, skirting shall be made up of aluminium extrusions (pre-treated) and duly powder coated with 40µ-60µ thick. The pedestal shall have 3 nos. of drawer i.e. 2 box drawer and 1 filing drawer. The drawer shall be operated with SS handle and easily close &amp; open with the assistance of roller channel and ball bearing channel to enable smooth operation. The drawer shall have central locking mechanism in which all the drawer shall be synchronized lock with one single key. To protect the wall from kicks, abrasion and serve as a decorative moulding, skirting shall be provided at bottom. A nylon castor based CPU unit shall be provided with an overall size 468mm X 284mm with 18mm thick Pre-laminated particle board.</p>	
14	<b>Plain Cupboards- 1800 mm</b>	<p>Supplying &amp; placing storage unit with an overall size 900mm X 450mm X 1800mm. It should be made up 18 MM Thick of Pre-laminated particle board . The storage shall have four fixed shelf. 2 nos. of door shutters shall be provided for opening and closing the storage operated with concealed crank hinge and SS handle.</p>	
15	<b>Vertical Filing Cabinets- 4 Drawers</b>	<p>Providing, supplying and placing vertical filing cabinet. The overall size of the cabinet shall be 470mm (W) X 620mm (D) X 1320mm (H). The cabinet shall be supplied with 4 nos. of drawer. The entire body panel and shelves shall be made of prime quality 0.8mm thick CRCA sheet , The complete steel structure shall be constructed by welding and provide finishing with epoxy polyester powder coated to the thickness 40-50µ</p>	
16	<b>1200 mm High Glass Hinged Door Units</b>	<p>The overall size of the Almirah shall be 900mm (W) X 450mm (D) X 1200mm (H). The Almirah shall be supplied with 2 nos. of glass door adjustable shelves. Uniformly distributed load capacity of each shelf shall be 40 Kg maximum. Each rack shall be provided with stiffener at bottom for strength. The entire body panel, shelf shall be made of high yield strength 0.8mm thick CRCA sheet.</p>	
<b>Note:</b>		<p><b>1. The board used should meet Indian/ International Standard of quality. Indian standard IS 12823 grade II or equivalent international standard.</b>  <b>2. Equivalent or superior specifications for furniture Items can be considered with the approval of BHEL-Engineer-In-charge.</b>  <b>3. Furniture Items shall be procured from renowned brands only with prior approval of BHEL.</b></p>	

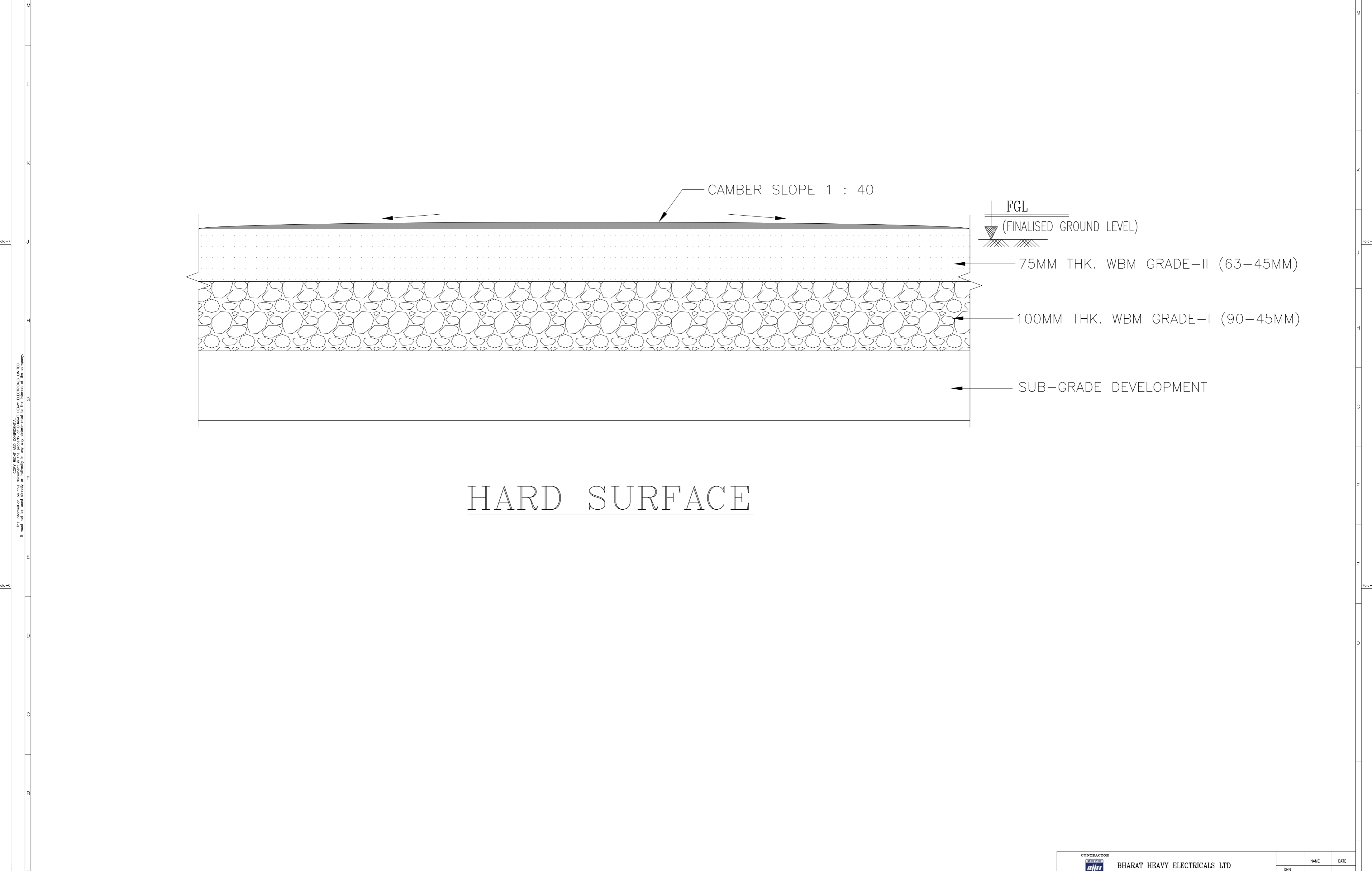


# GATE

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REV	DESCRIPTION	DESIGN	DATE
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15			
14			
13			
12			
11			
10			
9			
8			
7			



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<b>TITLE</b> <b>GATE</b>		SCALE	
<b>DRAWING NO.</b> 4		SHEET	OF
RELEASED FOR: <input type="checkbox"/> PRELIMINARY <input type="checkbox"/> TENDER <input type="checkbox"/> INFORMATION <input type="checkbox"/> APPROVAL <input type="checkbox"/> CONSTRUCTION		PROJECTION	REV.
PROJECT: STANDARDIZATION OF PROJECT INFRASTRUCTURE FACILITIES			



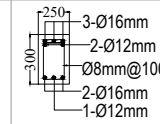
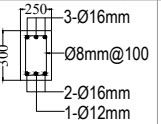
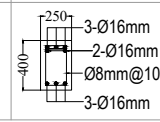
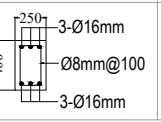
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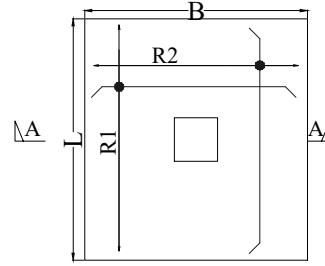
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CLIENT:										TITLE: <b>HARD SURFACE</b>		SCALE							
PROJECT: <b>STANDARDIZATION OF PROJECT INFRASTRUCTURE FACILITIES</b>										DRAWING NO.		SHEET	OF						
PROJECT: 7										RELEASED FOR:		<input type="checkbox"/> PRELIMINARY	<input type="checkbox"/> TENDER	<input type="checkbox"/> INFORMATION	<input type="checkbox"/> APPROVAL	<input type="checkbox"/> CONSTRUCTION	PROJECTION	REV.	
REV	16	15	14	DESN	13	12	DRN	11	10	9	APPD	8	7	6	5	4	3		

### COLUMN SCHEDULE

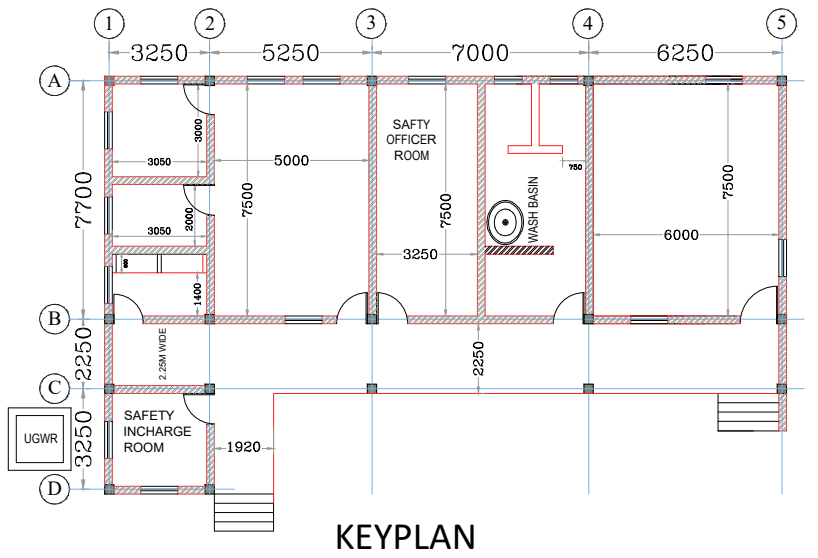
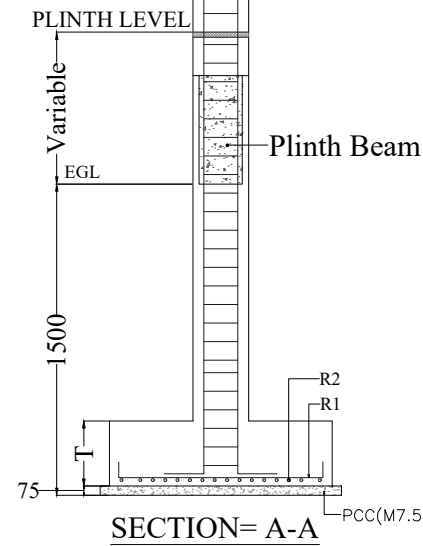
Column Type	Below PL	Above PL
C1	 <p>Size: 300X300 8-12 mm Ø Tie 8 mm Ø @ 100 mm C/C</p>	 <p>Size: 300X300 8-12 mm Ø Tie 8 mm Ø @ 150 mm C/C</p>

### PLINTH BEAM SECTION DETAILS

BEAM NAME	END SECTION	MIDDLE SECTION	
PB-1	 <p>3-Ø16mm 2-Ø12mm Ø8mm@100 2-Ø16mm 1-Ø12mm</p>	 <p>3-Ø16mm Ø8mm@100 2-Ø16mm 1-Ø12mm</p>	FOR SPAN UPTO 6M
PB-2	 <p>3-Ø16mm 2-Ø16mm Ø8mm@100 3-Ø16mm</p>	 <p>3-Ø16mm Ø8mm@100 2-Ø16mm 3-Ø16mm</p>	FOR SPAN GREATER THAN 6M



PLAN OF FOOTING



KEYPLAN


### SCHEDULE OF FOOTING AND REINFORCEMENT

TYPE	LENGTH L (mm)	BREADTH B (mm)	THICKNESS T (mm)	REINFORCEMENT	
				LONG DIRECTION BAR R1	SHORT DIRECTION BAR R2
F1	1400	1400	300	10 mm Ø @ 175 mm c/c	10 mm Ø @ 175 mm c/c

**NOTES:-**

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- ALL DIMENSIONS ARE IN MM & ELEVATIONS IN METERS UNLESS STATED OTHERWISE.
- ALL ELEVATIONS ARE REFERRED TO THE FINISHED FLOOR LEVEL
- NO DIMENSIONS FROM THIS DRAWING ARE TO BE SCALED OFF AND ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
- CHECK ALL DIMENSIONS, CO-ORDINATES & ELEVATIONS IMMEDIATELY. REPORT ANY DISCREPANCIES CONFLICTS OR ERROR FOR CLARIFICATION PRIOR TO COMMENCING WORK.
- NET SBC CONSIDERED IS 10T/SQM. AT FOUNDING LEVEL AT 1.5M BELOW EGL/FGL.
- BACK FILLING SHALL HAVE TO BE DONE WITH EARTH IN LAYERS NOT EXCEEDING 300 MM DEPTH EACH LAYER TO BE COMPACTED SO AS TO ACHIEVE ATLEAST 90% COMPACTION AS PER STANDARD PROCTOR DENSITY TEST
- FOUNDATION SIZES ARE FOR GIVEN LAYOUT AND ARRANGEMENT OF SAFETY PARK.
- ANY MODIFICATION IN LAYOUT SHALL BE SUITABLY TAKEN CARE AT SITE.
- CLEAR COVER TO OUTERMOST REINFORCEMENT (INCLUDING TIES) SHALL BE 40MM FOR COLUMN AND 25MM FOR BEAM.
- REINFORCED CONCRETE USED SHALL BE OF GRADE M20/M25 CONFORMING TO IS: 456-2000.(AS PER AVAILABLE BOQ ITEM).
- REINFORCEMENT USED AT SITE SHALL BE GRADE Fe 500D (TMT) CONFORMING TO IS: 1786 WITH MINIMUM ELONGATION OF 14.5%
- IN THE PROPOSED LAYOUT THE ROOM DESCRIPTION IS SHOWN TENTATIVELY ONLY. SITE SHALL MODIFY THE SAME SUIT TO SITE CONDITION.

### PROJECT SITE

 <p>Maharaja Company</p>	BHARAT HEAVY ELECTRICALS LTD POWER SECTOR CENTRAL PROCUREMENT CELL (CPC) PSHQ	DEPT CODE C	NAME DRN DEEPANKER DESN AMAN SHARMA CHD SONAM GUPTA APPD Dr. ABDULLAH AHMED
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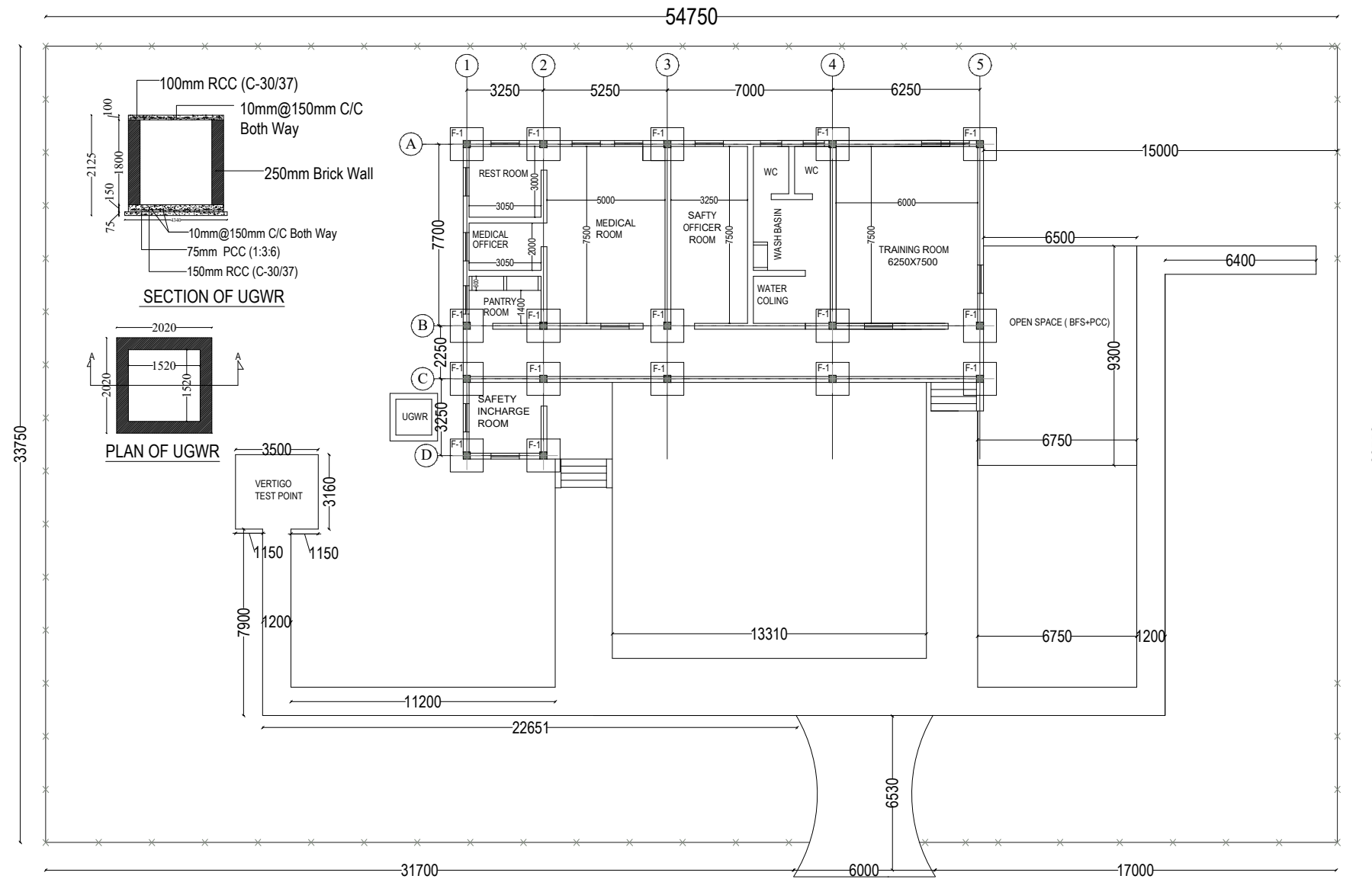
TITLE  
BHEL SAFETY PARK – GA & RC DETAILS OF FOUNDATION,COLUMN & PLINTH BEAM DRAWING

BHEL-CPC-SP-F001

SCALE 1:100 REVISION NO. - 00  
SHEET 1 OF 1 | 01.04.2026

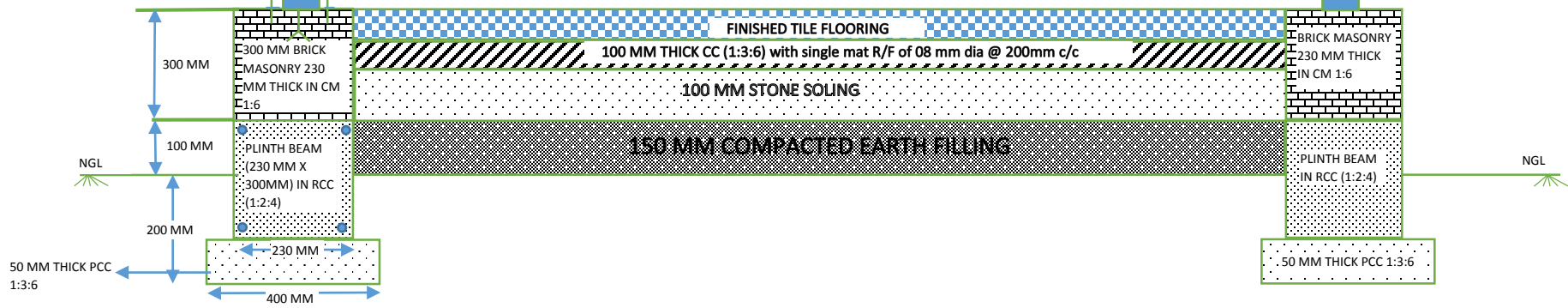
SIZE-A3


### FOUNDATION LAY-OUT PLAN

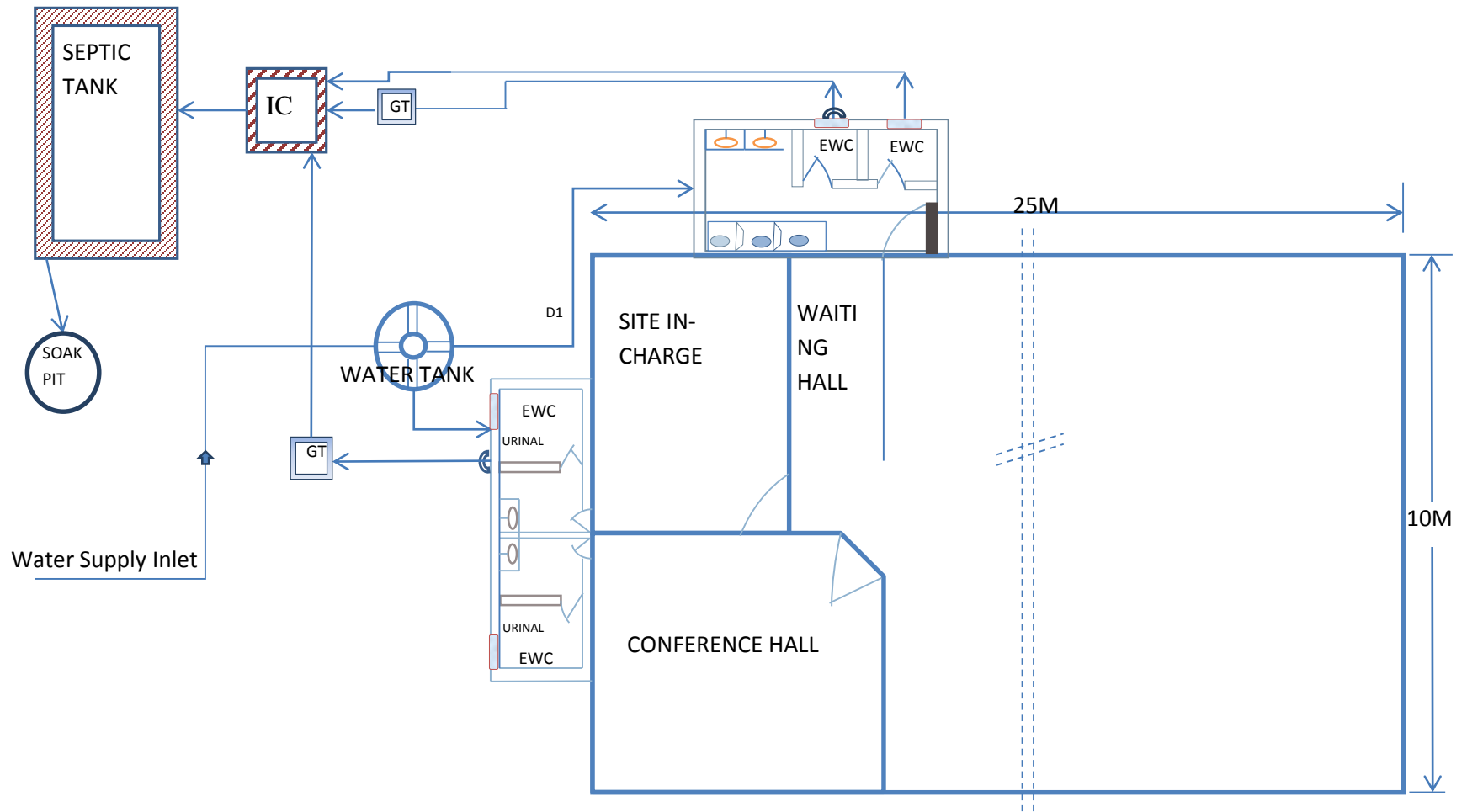



COLOUR COATED  
PROFILED GI (PPGI)  
ROOF SHEET

OUTER FRAMING  
COLUMNS OF ISMC 75

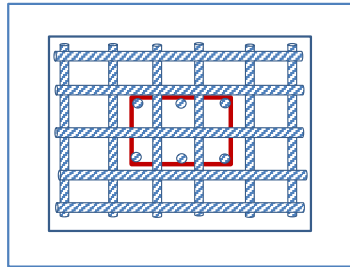
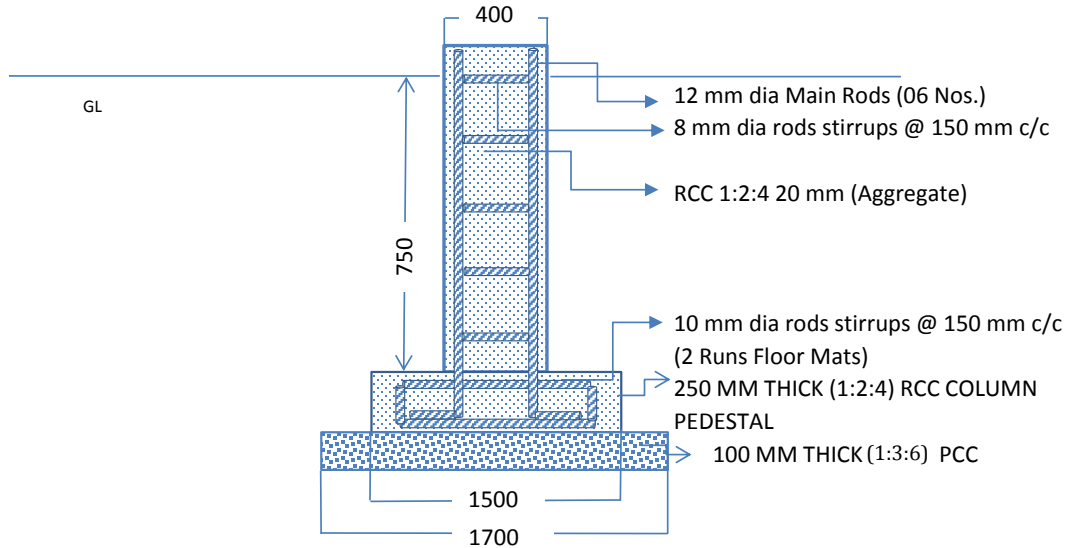
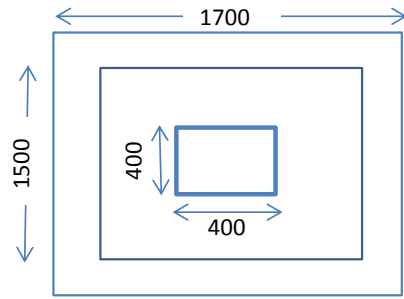


		<b>BHARAT HEAVY ELECTRICALS LTD.</b> POWER SECTOR – NORTHERN REGION NOIDA	
TITLE:		FLOORING DETAILS FOR OFFICE	
DEPT.	CIVIL	BHEL DRAWING NO.:	
SIGN		BHEL:PSNR:PMX:OFC:005	
DATE	07.12.2019	SHEET 1 OF 1	REV. NO. 00



		<b>BHARAT HEAVY ELECTRICALS LIMITED</b> POWER SECTOR – NORTHERN REGION NOIDA	
<b>TITLE:</b>		<b>WATER SUPPLY AND SANITARY SYSTEM LAYOUT</b>	
DEPT.	CIVIL	BHEL DRG. NO.	
SIGN		BHEL:PSNR:PMX:OFC:002	
DATE	07.12.2019	SHEET 1 OF 1	REV. 00

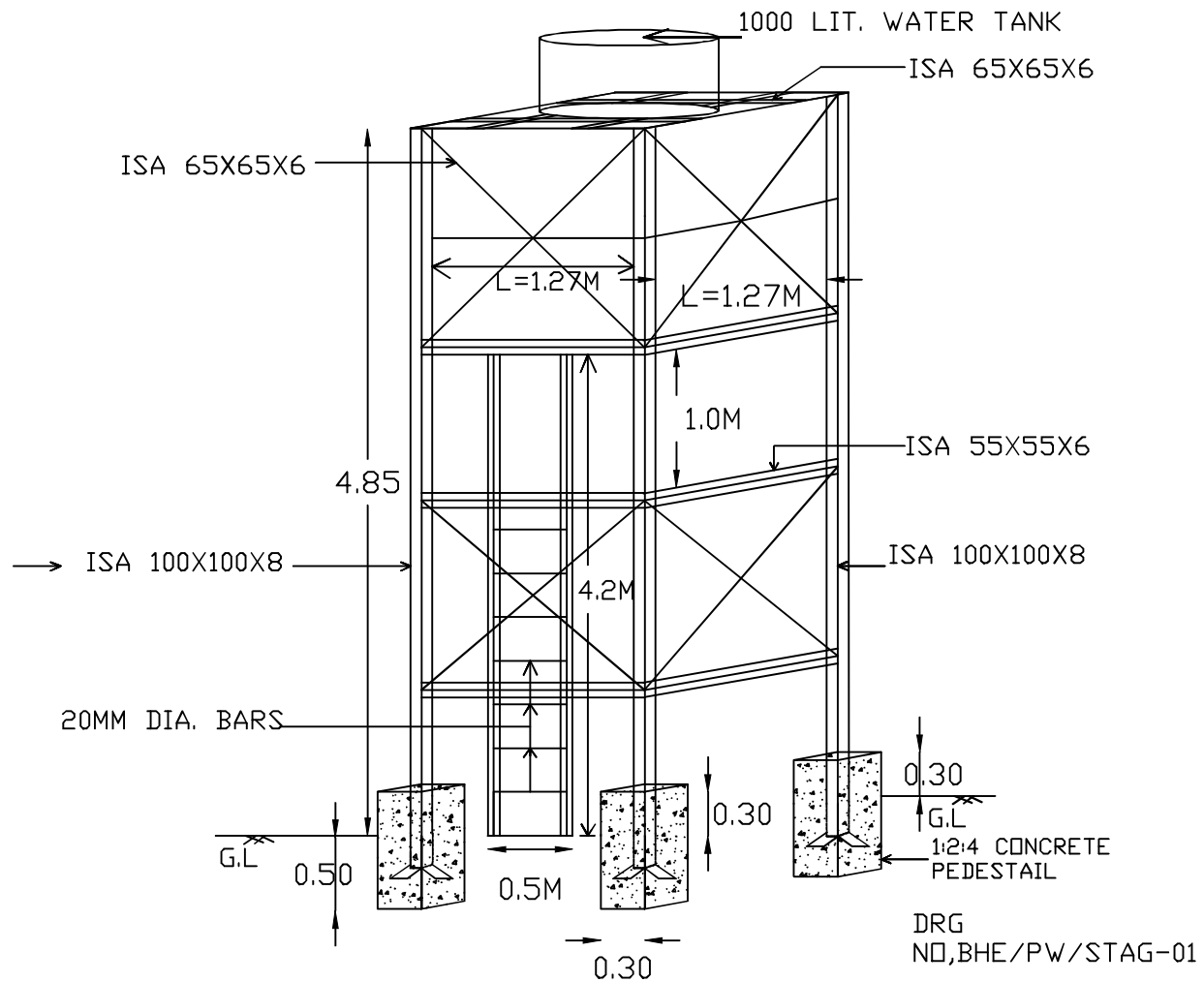




BHARAT HEAVY ELECTRICALS LTD.  
POWER SECTOR – NORTHERN REGION NOIDA

TITLE: FOOTING CROOS SECTIONAL VIEW

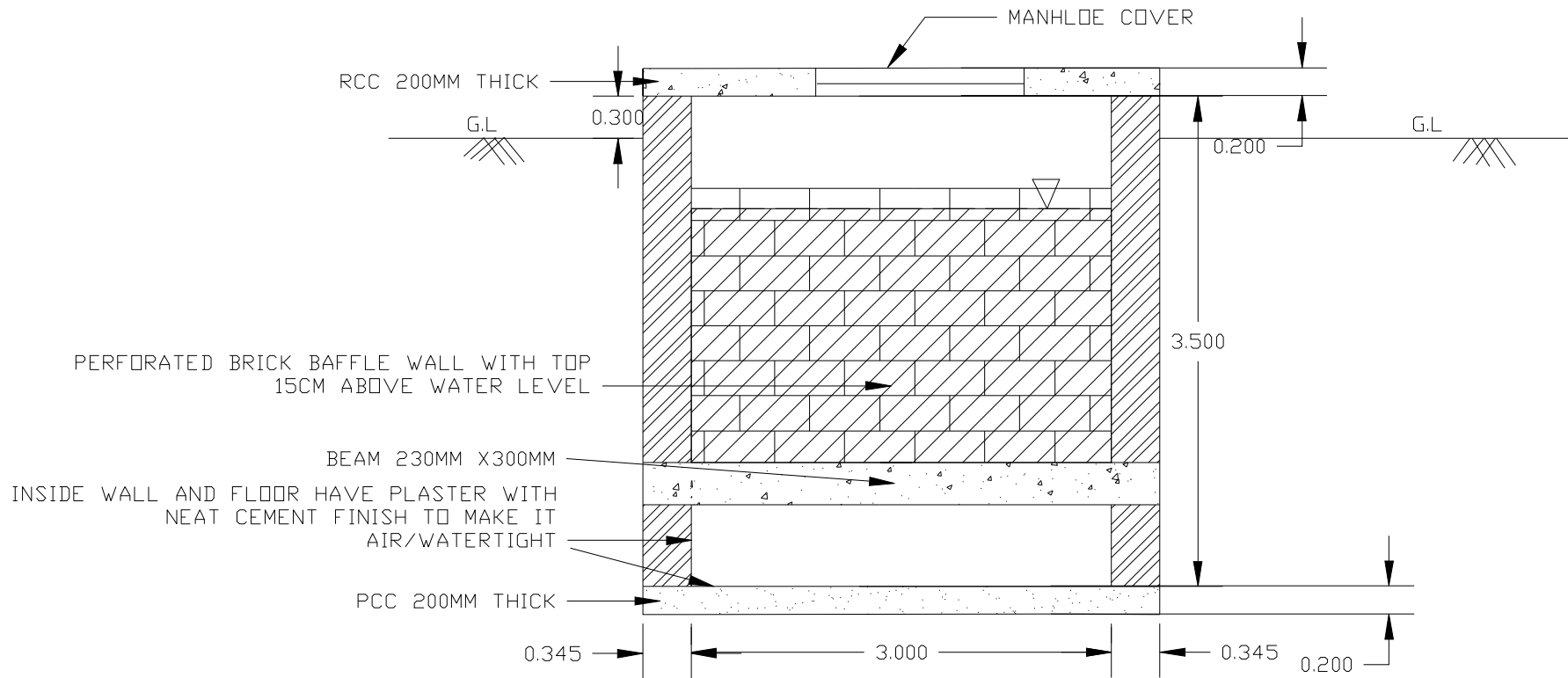
DEPT.	CIVIL	BHEL DRAWING NO.:	
SIGN		BHEL:PSNR:PMX:OFC:004	
DATE	07.12.2019	SHEET 1 OF 1	REV. NO. 00



### STAGING OF OVER HEAD WATER TANK

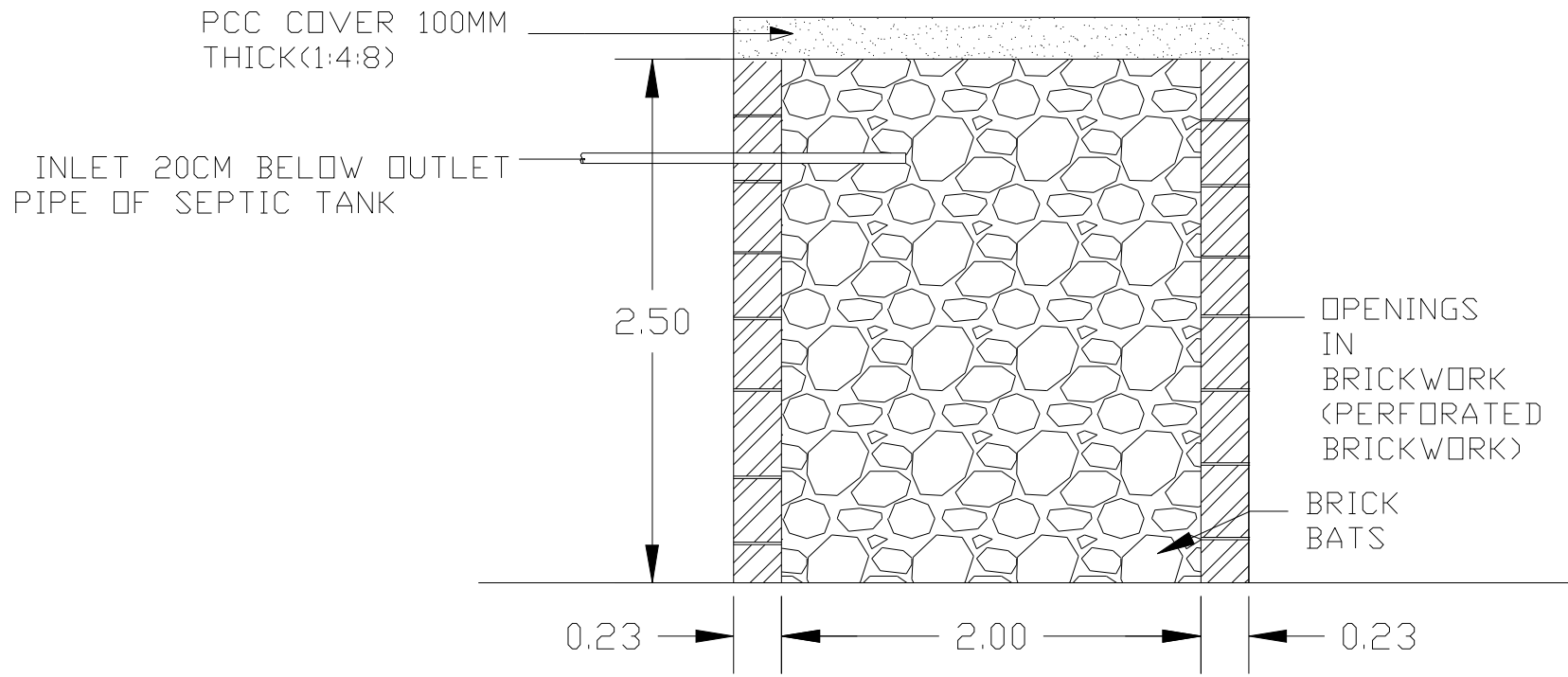
NOTE:

\*CONCRETE 1:2:4 SHALL BE PAID UNDER RELAVENT ITEM IN BOQ



SECTION A-A

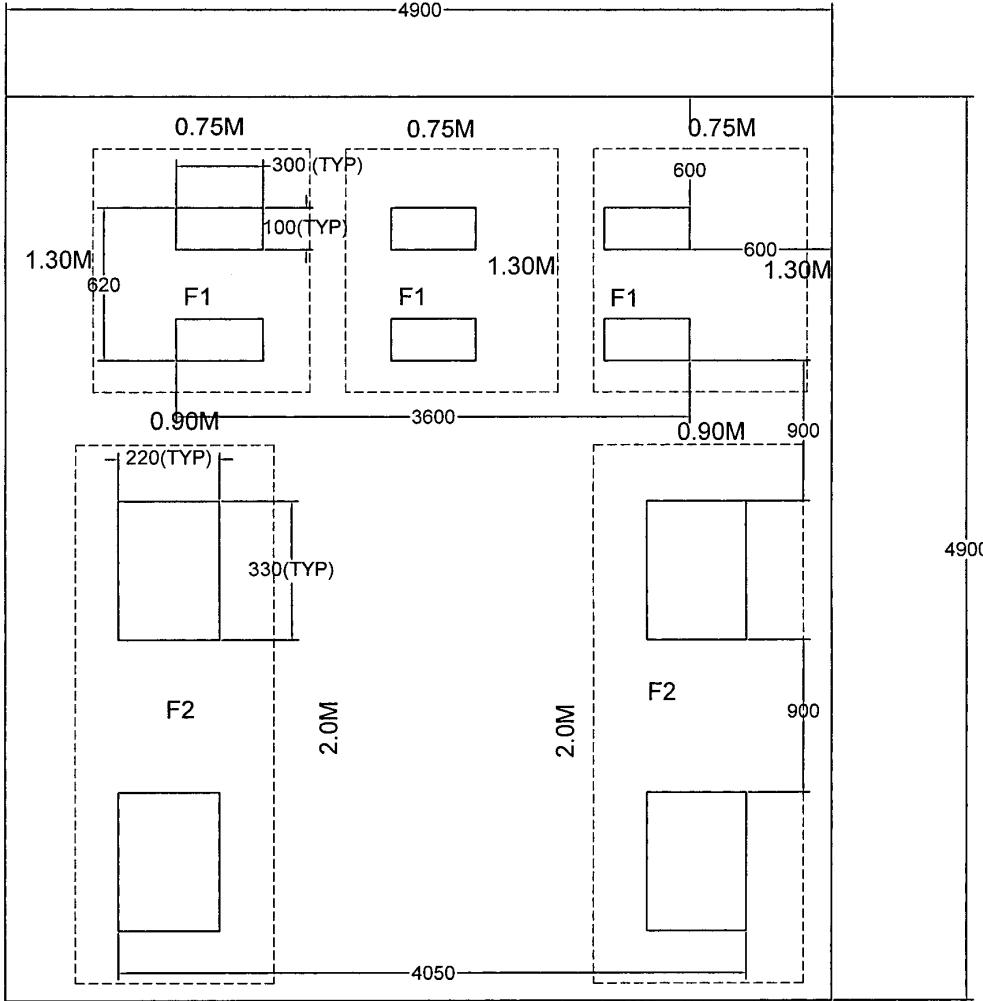
DRG. NO. BHE/PW/ST-SP-01  
SHEET 02 OF 02



DETAILS OF SOAK PIT

DRG. NO. BHE/PW/ST-SP-03

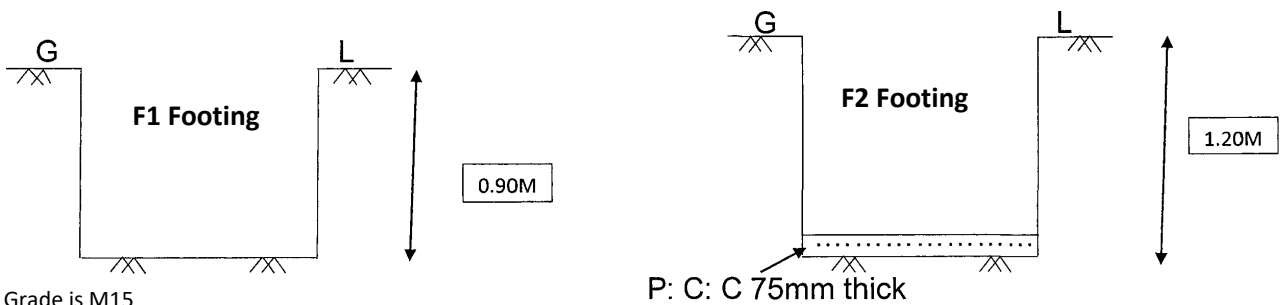
Table 1	
Pg. No.	Topic
1	Vertigo Test Structure Layout – Illustrative/ Sample
2, 3	Structure Layout Sketch
3	Actual Photo of a typical structure
4	Guidelines for Conducting the Test



**Note:**

- All dimensions are in mm
- Drawing is not to scale
- Inside boundary area to be filled with sand to level with road (external)
- Details of F1 and F2 are shown below

**Figure 1: Vertigo / Height Work Test Structure Layout**



**Note:**

- Concrete Grade is M15
- Drawing is not to scale
- TOC is at Road Level
- G L refers to Ground Level

**Figure 2**

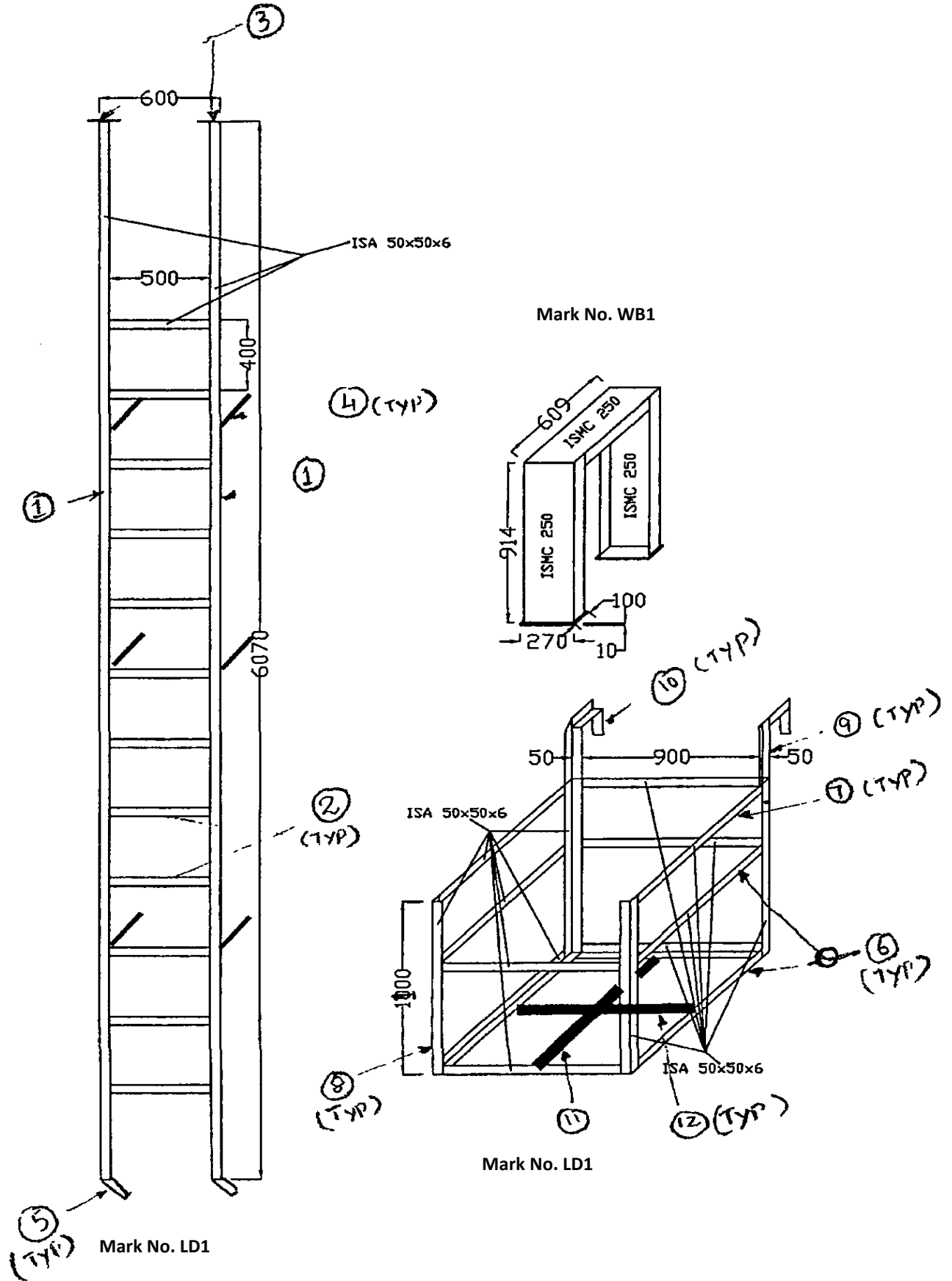
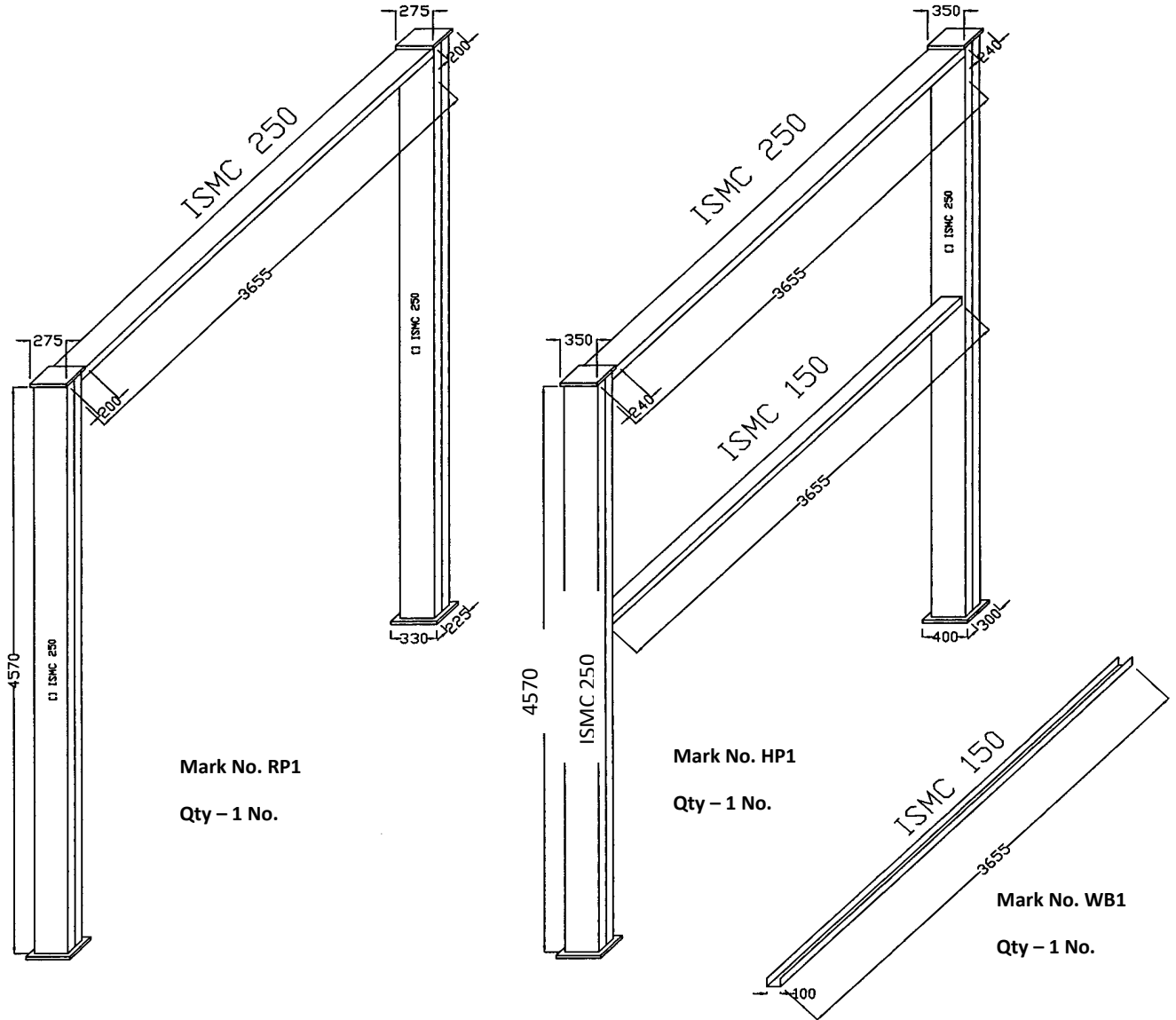
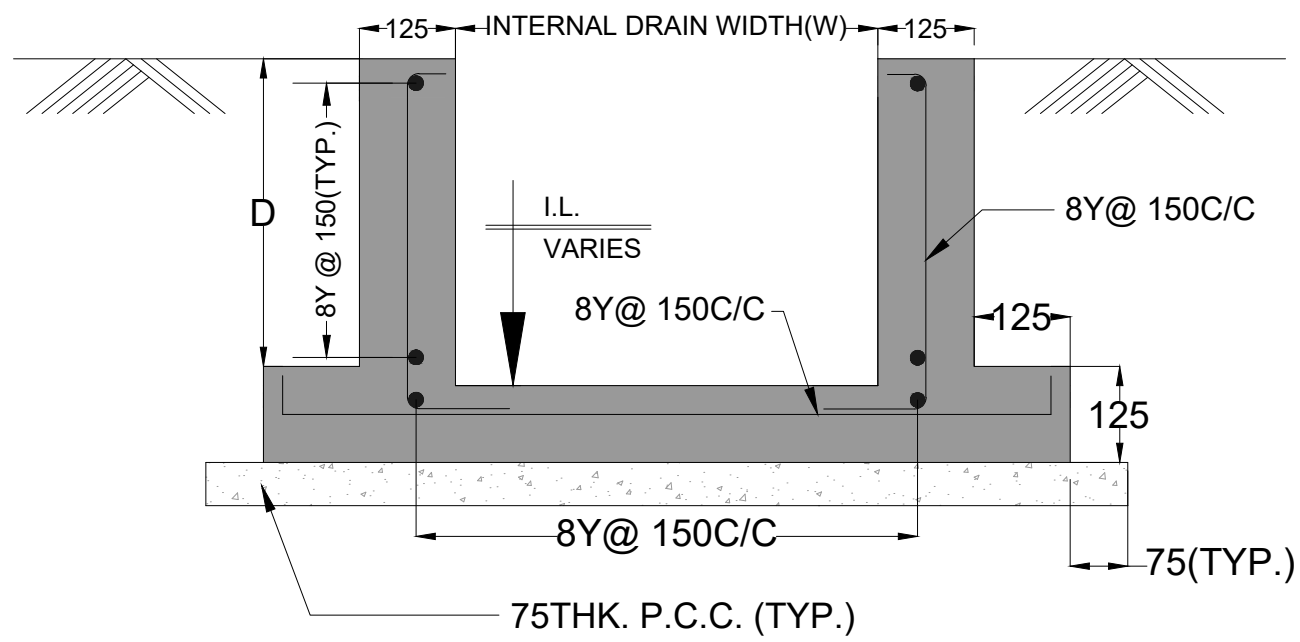


Figure 3

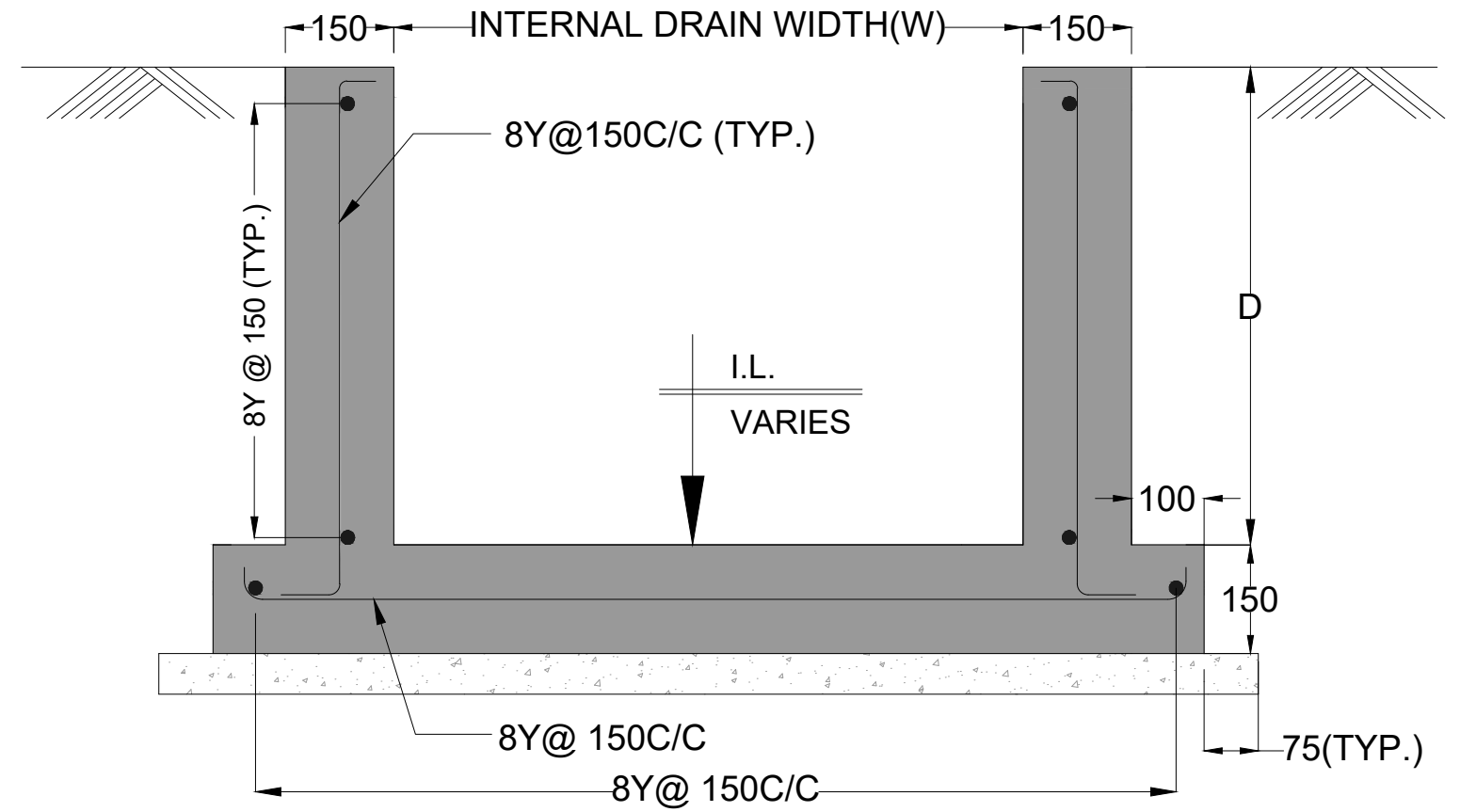
**Figure 4:**



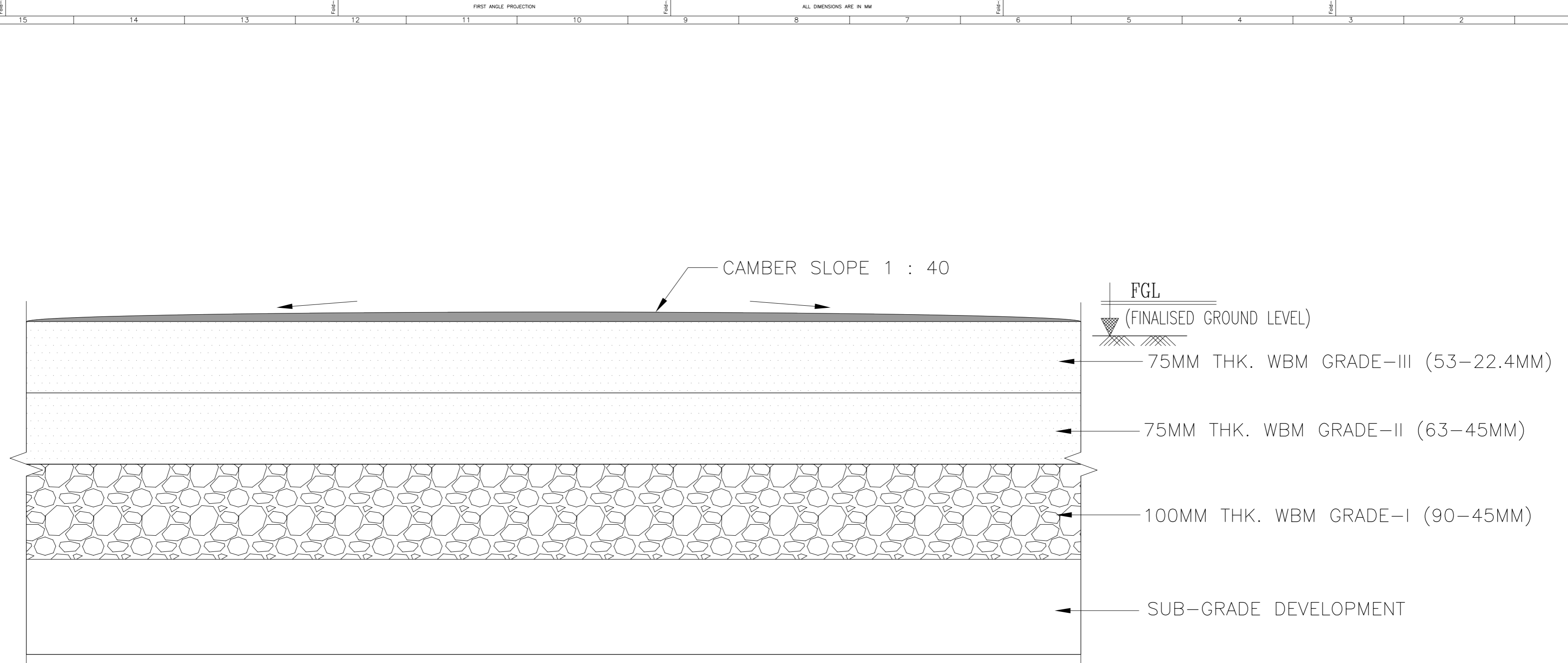
**Pic-1: Actual Photo of a Typical Vertigo Test Structure**



DRAIN TYPE-I  
(FOR  $D \leq 500$ )



DRAIN TYPE-II  
(FOR  $D > 500$ )  
 $D \leq 1000$ )



# WBM APPROACH ROAD

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<b>CONTRACTOR</b>		<b>BHARAT HEAVY ELECTRICALS LTD</b>		NAME	DATE
<small>POWER SECTOR</small>				DRN	
<b>TITLE</b>		<b>WBM APPROACH ROAD</b>		DESN	
<b>DRAWING NO.</b>		<b>SCALE</b>		CHD	
RELEASED FOR		<input type="checkbox"/> PRELIMINARY <input type="checkbox"/> TENDER <input type="checkbox"/> INFORMATION <input type="checkbox"/> APPROVAL <input type="checkbox"/> CONSTRUCTION		APPD	
PROJECT		STANDARDIZATION OF PROJECT INFRASTRUCTURE FACILITIES		SHEET	OF
REV		PROJECTION		REV.	

REV	DESCRIPTION	DESN	DRN	CHD	APPD	PROJECT	CONSULTANT	CLIENT
16						7		