

CLIENT:



Government Of Nepal  
**Ministry Of Education**  
Central Level Project Implementation Unit (CLPIU)  
Gyaneshwor, Kathmandu, Nepal.

DONOR:



Japan International Cooperation Agency

PROJECT:

# Emergency School Reconstruction Project

**TYPE DESIGN:**  
**3 Small Rooms**  
**3C(S)-A**



CONSULTANTS:



**ORIENTAL CONSULTANTS GLOBAL** Joint Venture  
Global Consulting for sustainable Development



**MOHRI, ARCHITECT & ASSOCIATES, INC**



**East West Engineering Service Pvt. Ltd.**  
P. Box-8621, Bansbari, Kathmandu, Nepal. web: ewesnepal.com  
Tel: 9771-4373316, Fax: 4650203, email - hbgewe@gmail.com

September, 2016

**3 SMALL CLASSROOMS**  
**3C(S)-A**

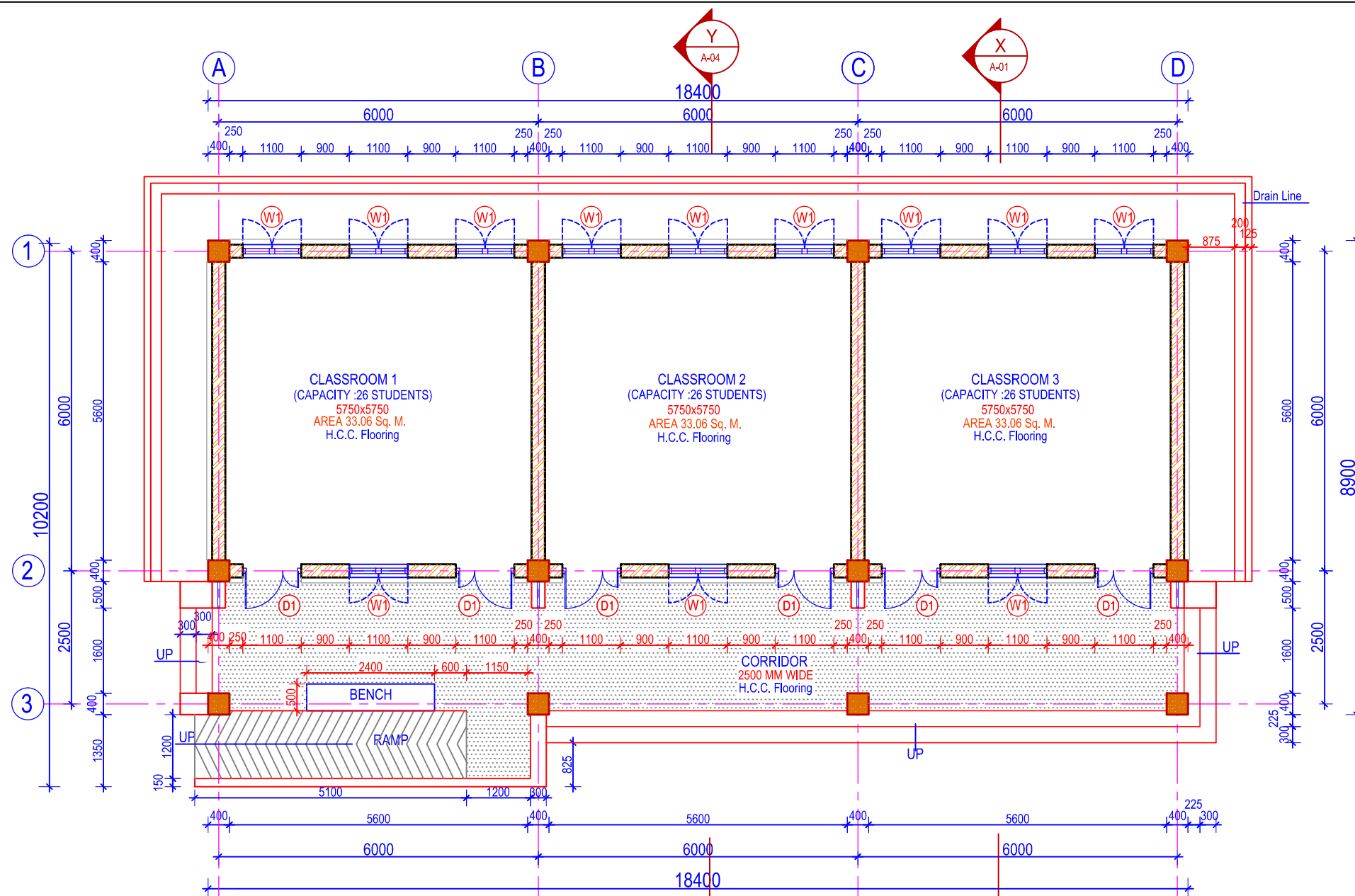
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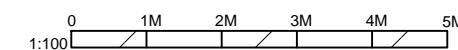
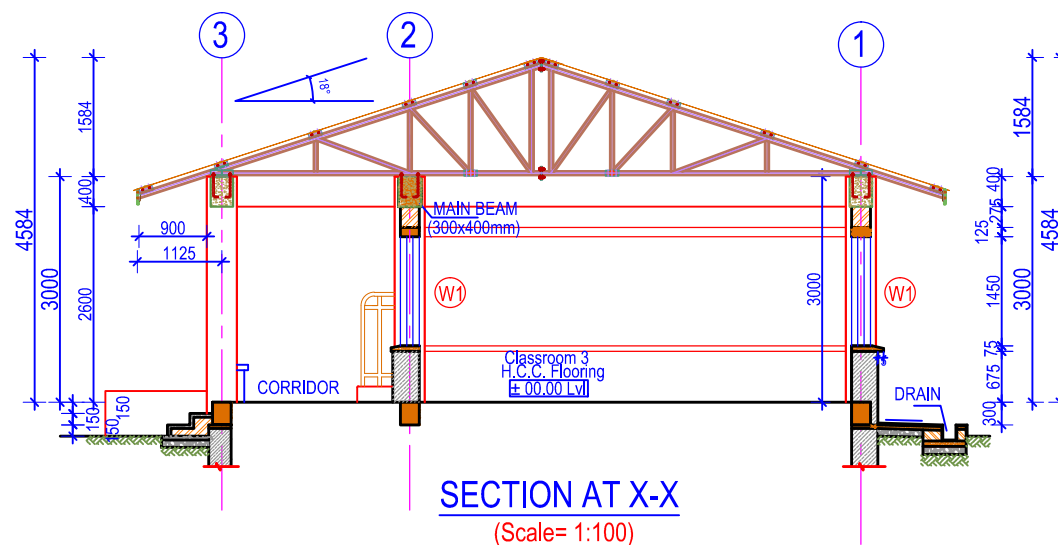
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Mr. Hisafumi Michikawa	Mr. A.S. Tamang
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Type Design :  
3 SMALL CLASSROOMS

Sheet Title :  
GROUND FLOOR PLAN &  
SECTION

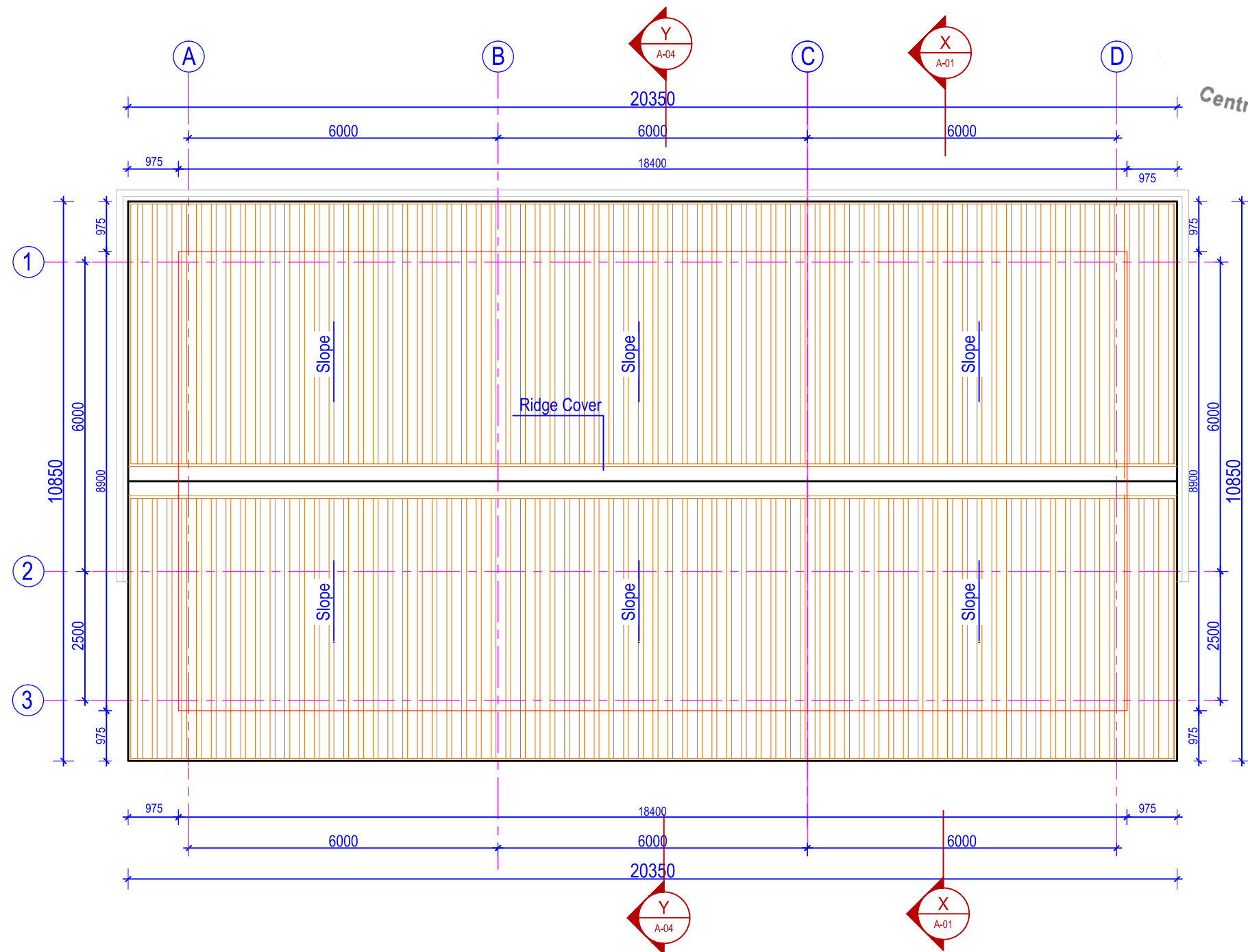
Date : September, 2016

Print Sheet : A3' Size

Sheet No.

3C(S)  
-A

A-01



ROOF PLAN



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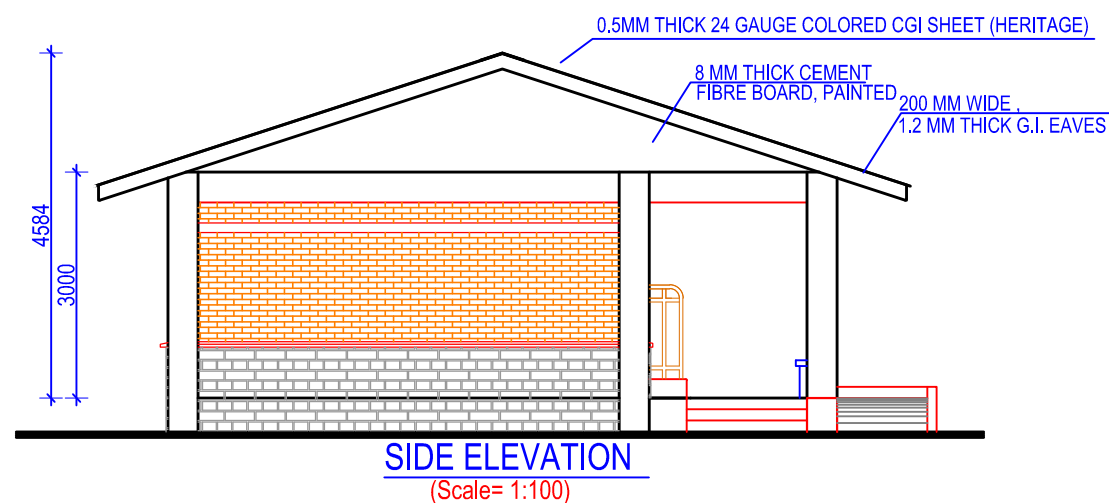
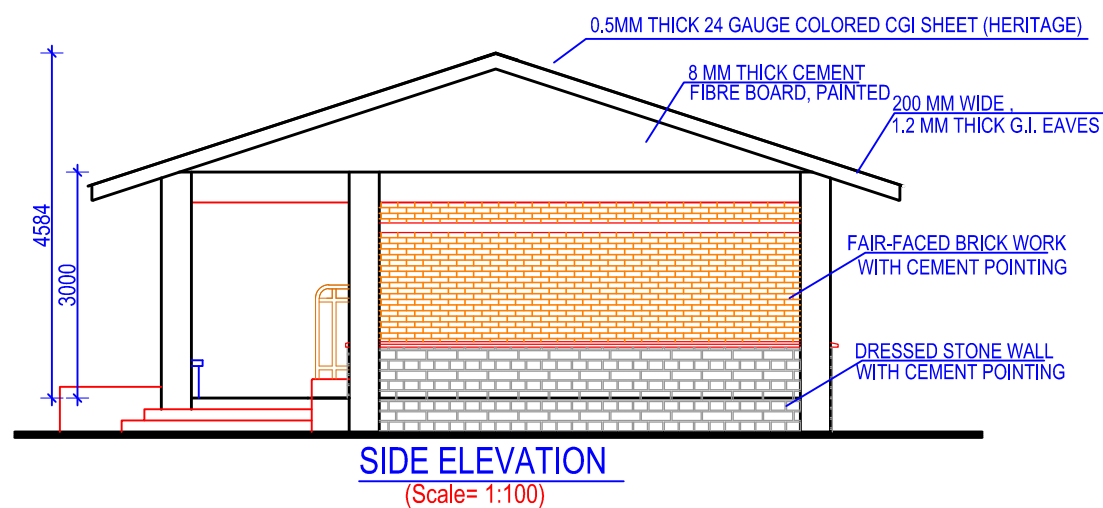
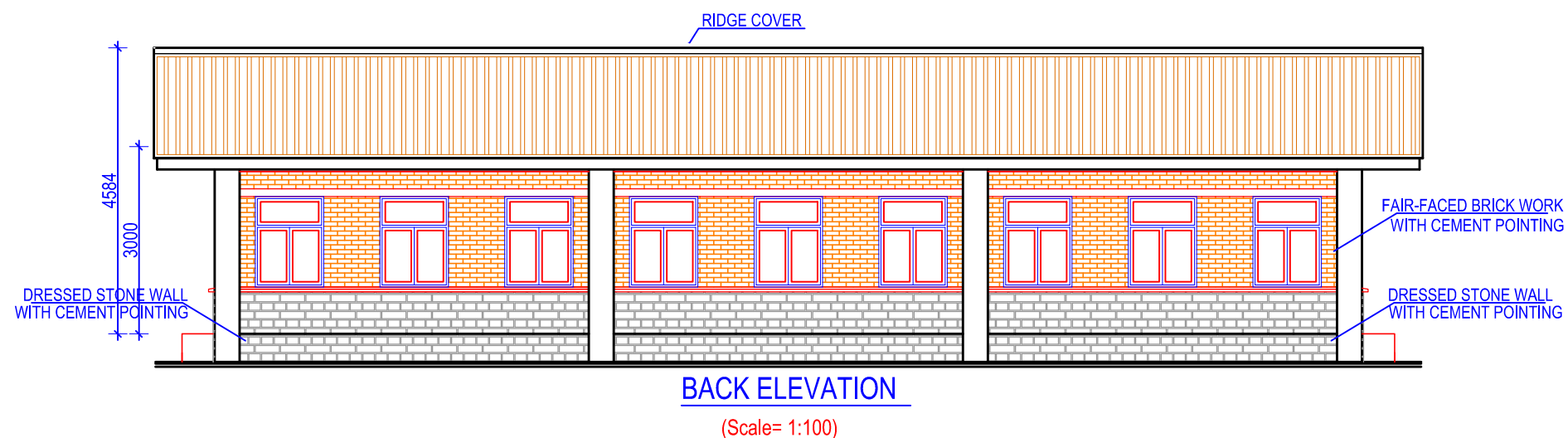
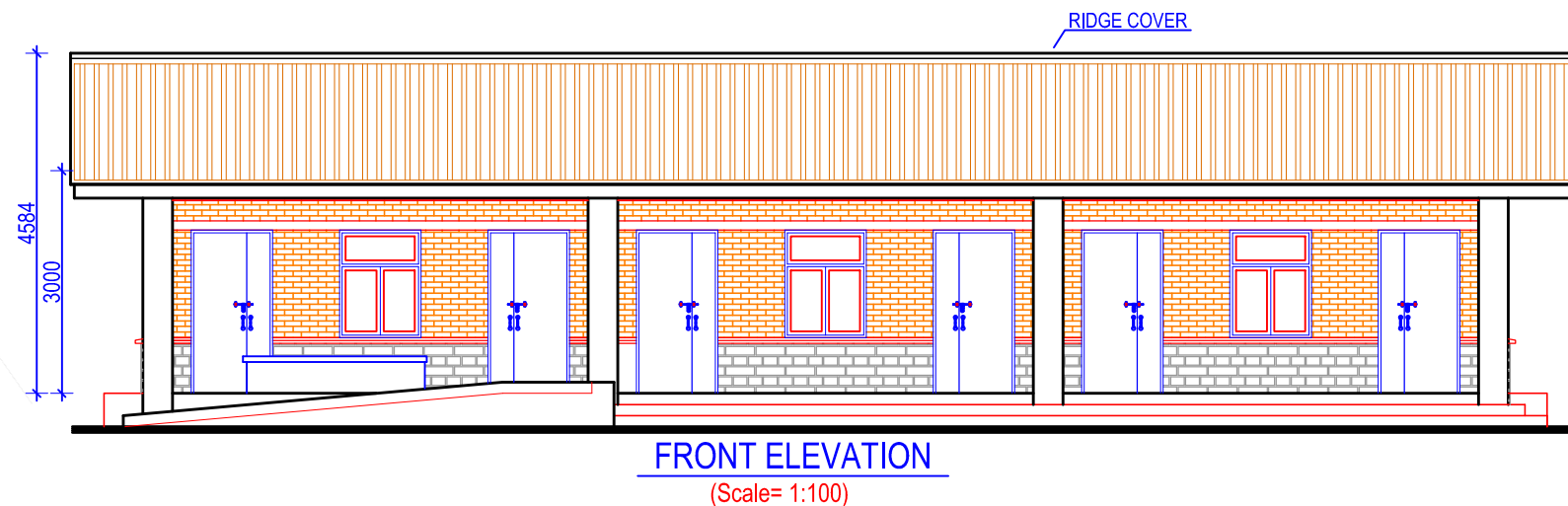
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Sheet Title : ROOF FLOOR	Sheet No. 3C(S) -A
Date : September, 2016 Print Sheet : A'3' Size	A-02



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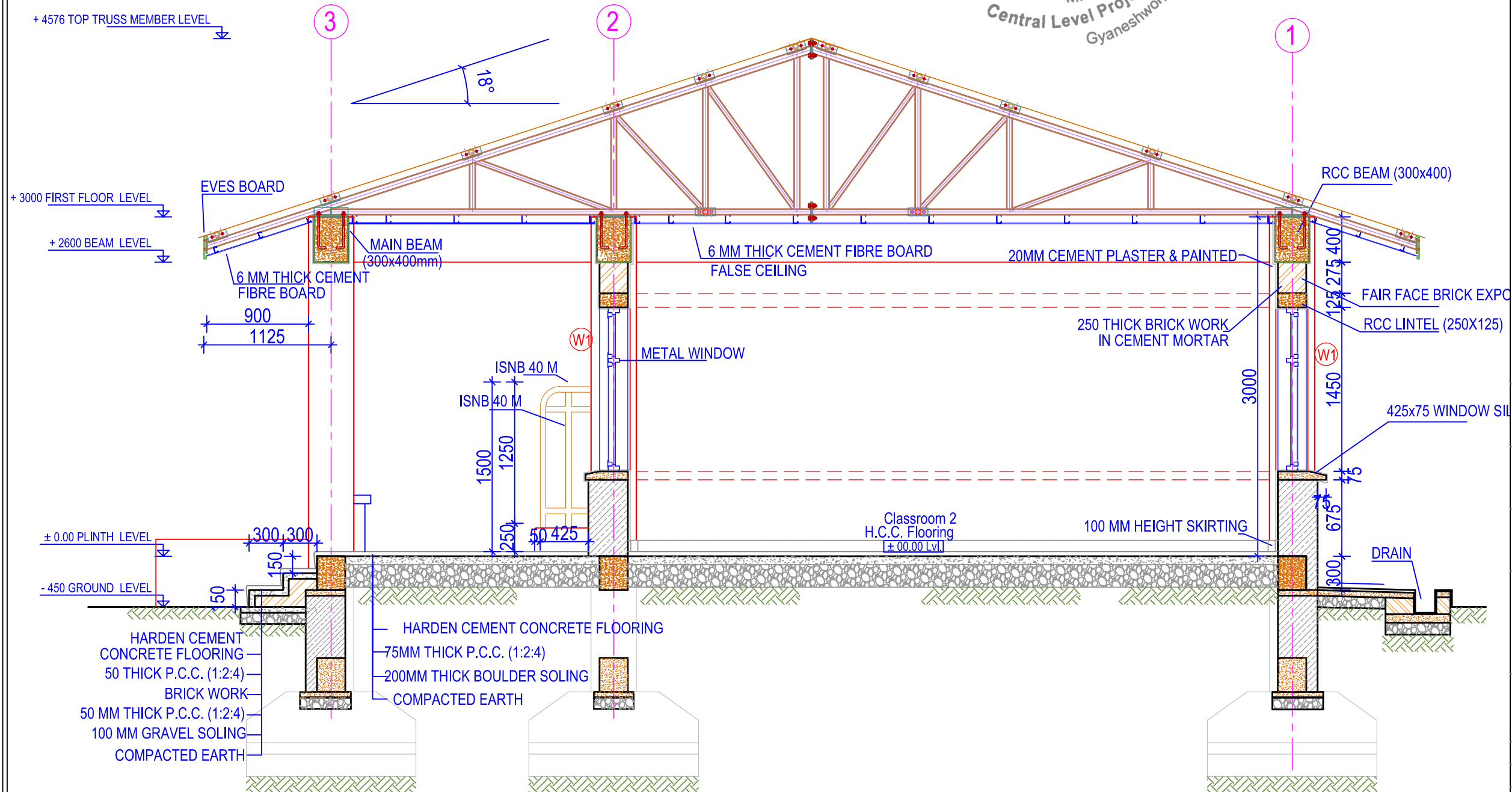
Sheet Title :  
ELEVATIONS

Sheet No.  
**3C(S)  
-A**

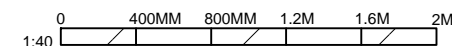
Date : September, 2016

Print Sheet : A'3' Size

**A-03**



WALL SECTION AT Y-Y  
(Scale= 1:40)



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Type Design :  
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Sheet Title :

WALL SECTION

Date : September, 2016

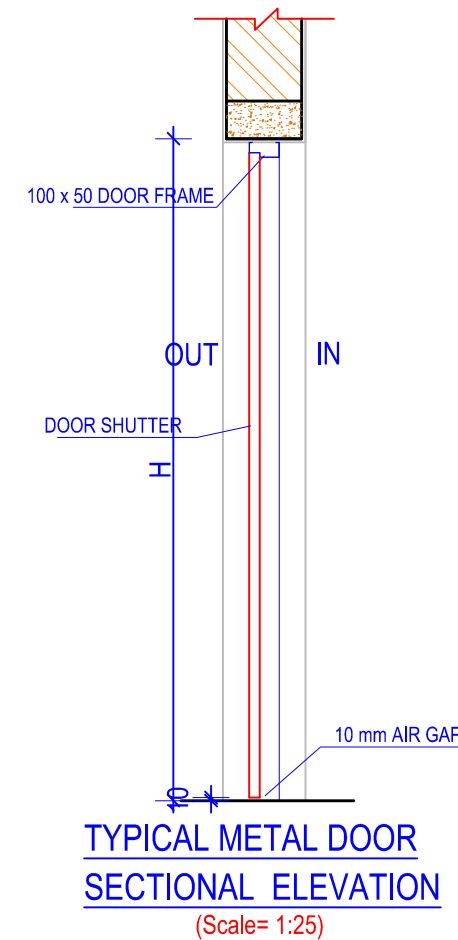
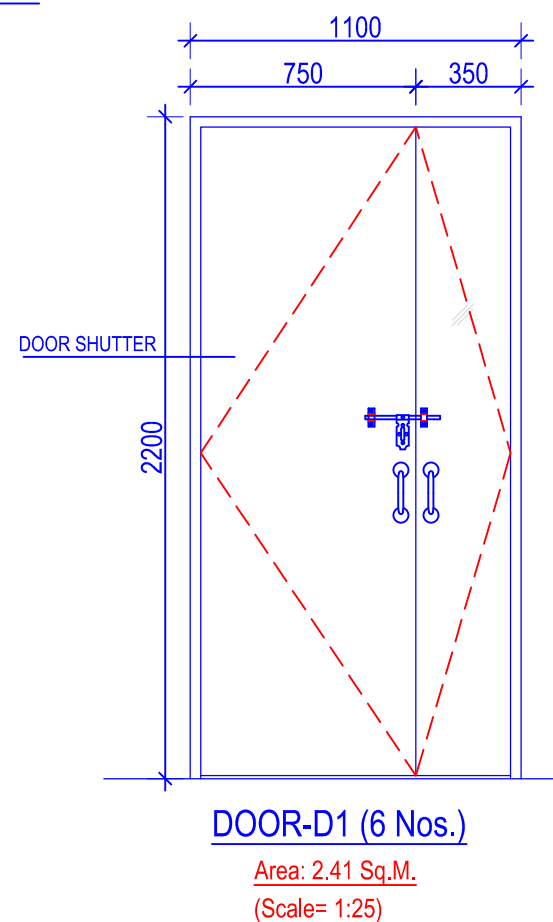
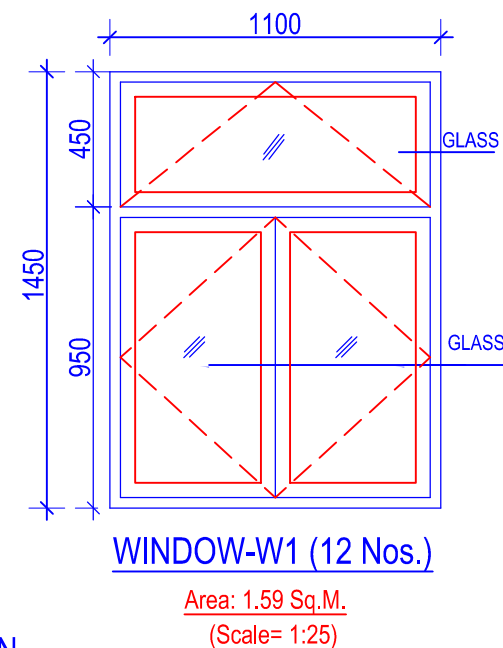
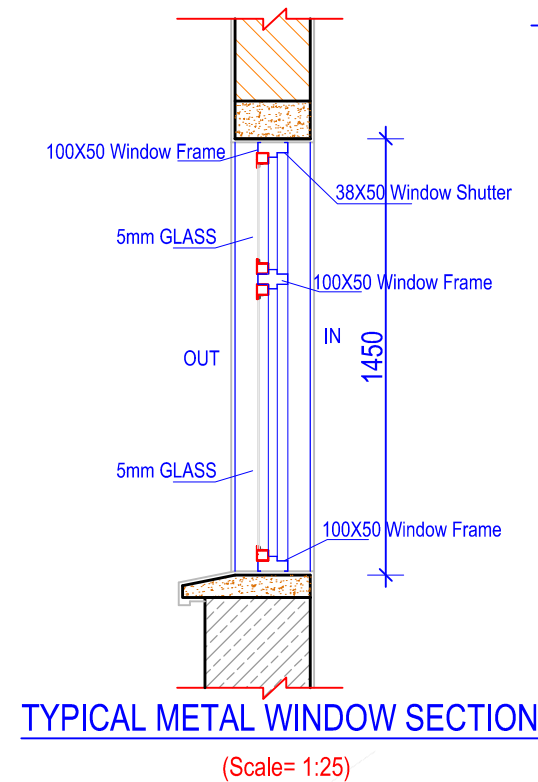
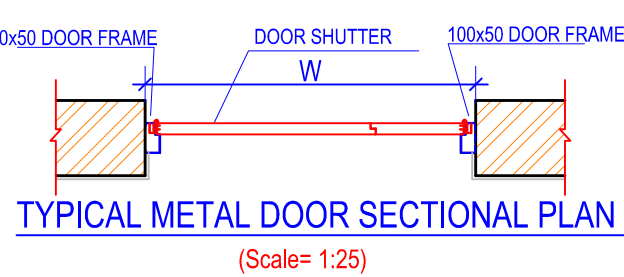
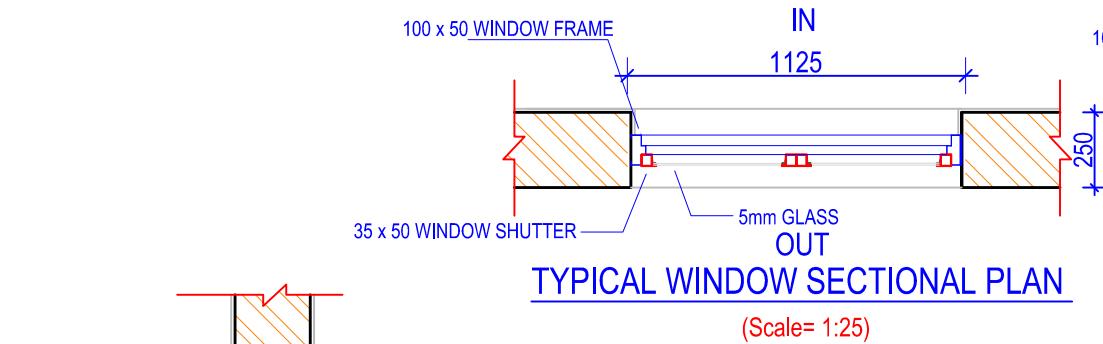
Print Sheet : A3' Size

Sheet No.

3C(S)  
-A

A-04





# DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	G.F.	TOTAL	REMARKS
1.	W1	1100 x 1450	12	12	MS Frame & Shutter Grill Only For Ground Floor
2.	D1	1100 x 2200	6	6	MS Frame & Shutter
TOTAL			18	18	



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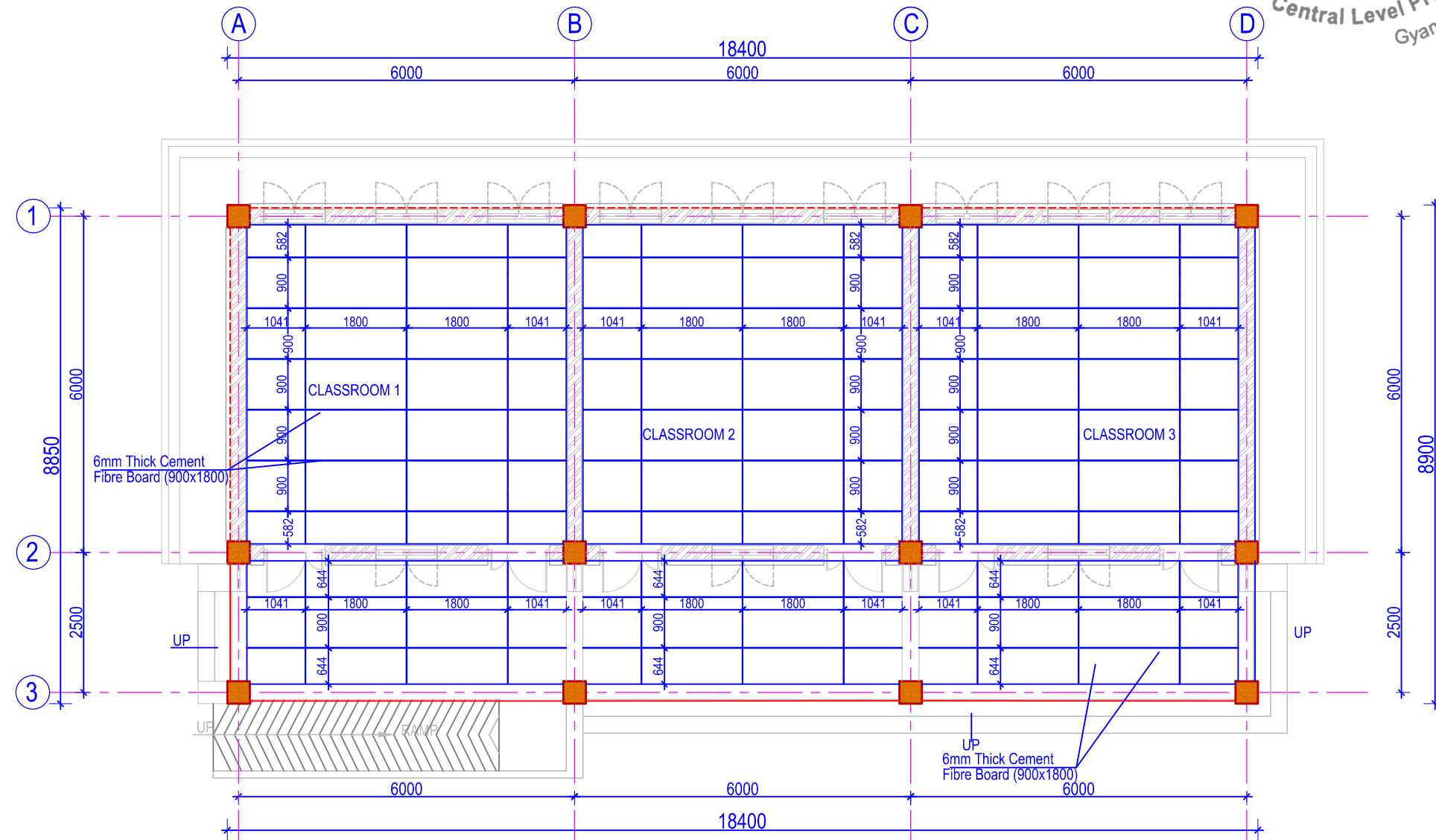
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Type Design :  
3 SMALL CLASSROOMS

Sheet Title :	Sheet No.
DOOR & WINDOW DETAILS	3C(S) -A
Date : September, 2016	A-05
Print Sheet : A'3' Size	

0 250MM 500MM 1M 1.25M 1.5M  
1:25



GROUND FLOOR FALSE CEILING LAYOUT PLAN

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Type Design :  
3 SMALL CLASSROOMS

Sheet Title :	Sheet No.
FALSE CEILING PLAN	3C(S) -A
Date : September, 2016	A-06
Print Sheet : A3' Size	



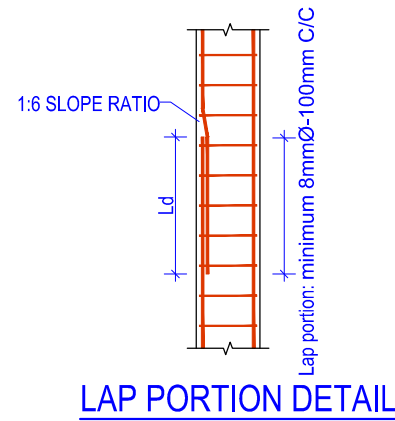
GENERAL NOTE:

- 1. USE M20 (1:1.5:3) GRADE CONCRETE FOR SLAB, BEAM, COLUMN, FOUNDATION, SILL & LINTEL BANDS (ALL RCC WORKS)
- 2. USE Fe500 GRADE STEEL ( $f_y=500\text{N/mm}^2$ ) for stirrups Fe415 N/mm<sup>2</sup>
- 3. CLEAR COVER TO BARS
  - a. FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = MIN 50mm
  - b. FOR LONGITUDINAL (VERTICAL) BARS IN COLUMN = 40mm
  - c. FOR MAIN BARS IN BEAMS = 25mm
  - d. FOR OUTER BARS IN SLAB = 20mm
- 4. BARS IN COLUMNS SHALL BE SPLICED ONLY AT MID HEIGHT OF COLUMN AS PER DUCTILE DETAILING IS 13920- 2014
- 5. BARS SPLICING IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN ON DWG.

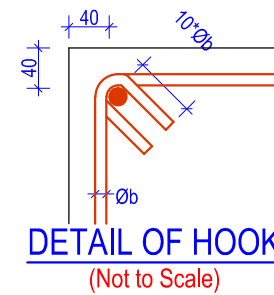
6. DEVELOPMENT / LAP LENGTH (Ld.) FOR BARS.

BAR DIA-(mm)	8	10	12	16	20	25	32
FOR M20 Ld	480	600	720	960	1200	1500	1920

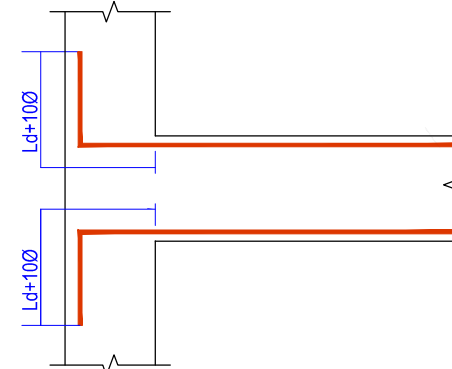
- 7. TEMP./DISTRIBUTION REINFORCEMENT FOR SLAB - TMT 8Ø @ 150 C/C
- 8. CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYERS) OF BARS=25mm.
- 9. PROVIDE SHEAR REINFORCEMENT AT 100 C/C AT LAP LOCATIONS.
- 10. H = CLEAR SPAN OF FLOOR.
- 11. h = H/6 OR 450mm OR LARGER LATERAL DIMENSION OF THE MEMBER ,WHICHEVER IS GREATER.
- 12. Z = DEPTH OF BEAM.
- 13. STRUCTURAL STEEL SHALL HAVE STRENGTH  $F_y$  345MPa
- 14. FOUNDATION TYPE SHOULD BE DECIDED BY SITE CONDITION AFTER EXCAVATION OF FOUNDATION.
- 15. IF BEARING CAPACITY IS LESS THAN 50 kN/m<sup>2</sup>, FOUNDATION SHOULD BE RE-DESIGNED.
- 16. PROVIDE 2-16dia TORSION BARS IN 525mm DEEP BEAM



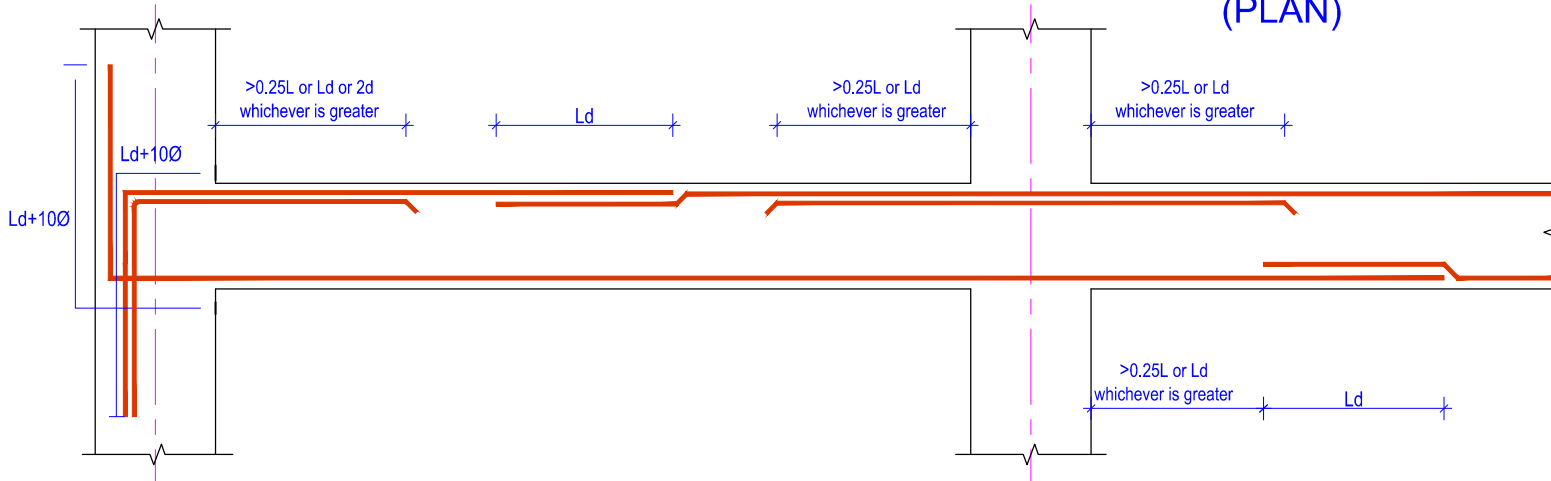
LAP PORTION DETAIL



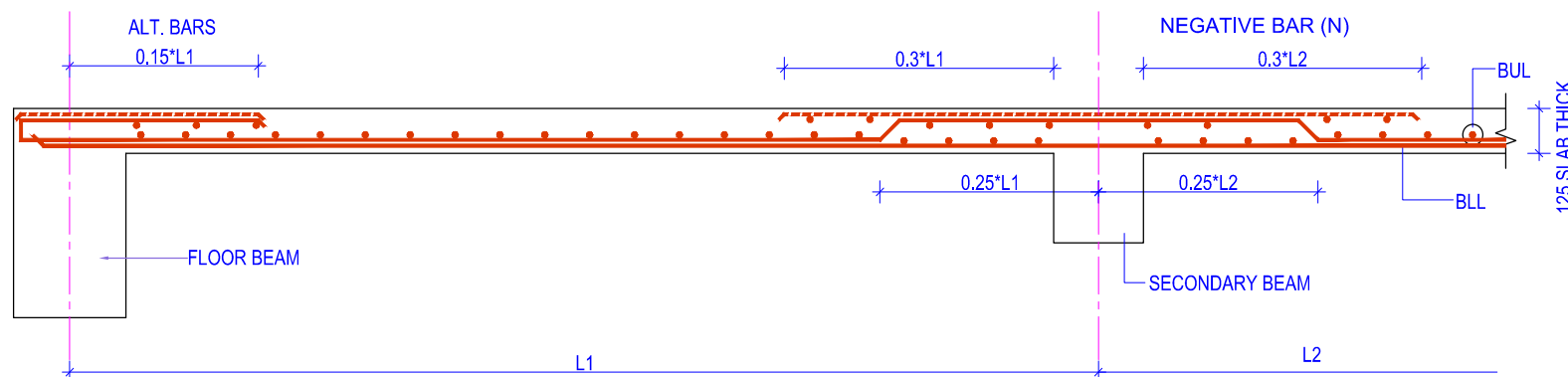
DETAIL OF HOOK  
(Not to Scale)



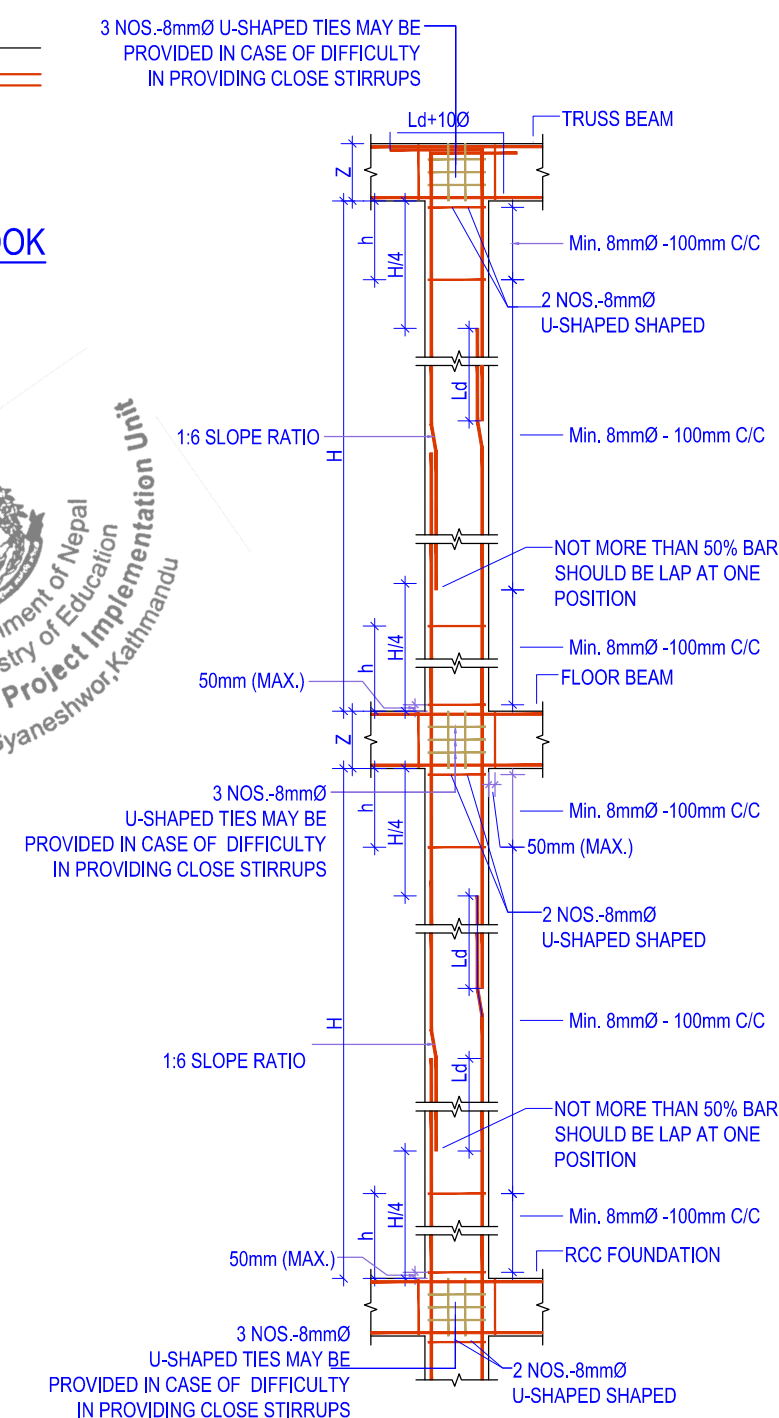
CONNECTION DETAIL  
BETWEEN  
MAIN & SECONDARY BEAM  
(PLAN)



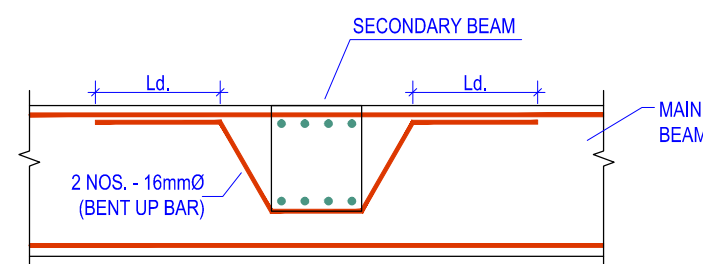
TYPICAL LAP LOCATION FOR BEAM BARS



TYPICAL BENT-UP DETAIL FOR SLAB BARS



TYP. COLUMN SHEAR  
REINFORCEMENT DETAIL



CONNECTION DETAIL BETWEEN  
MAIN & SECONDARY BEAM

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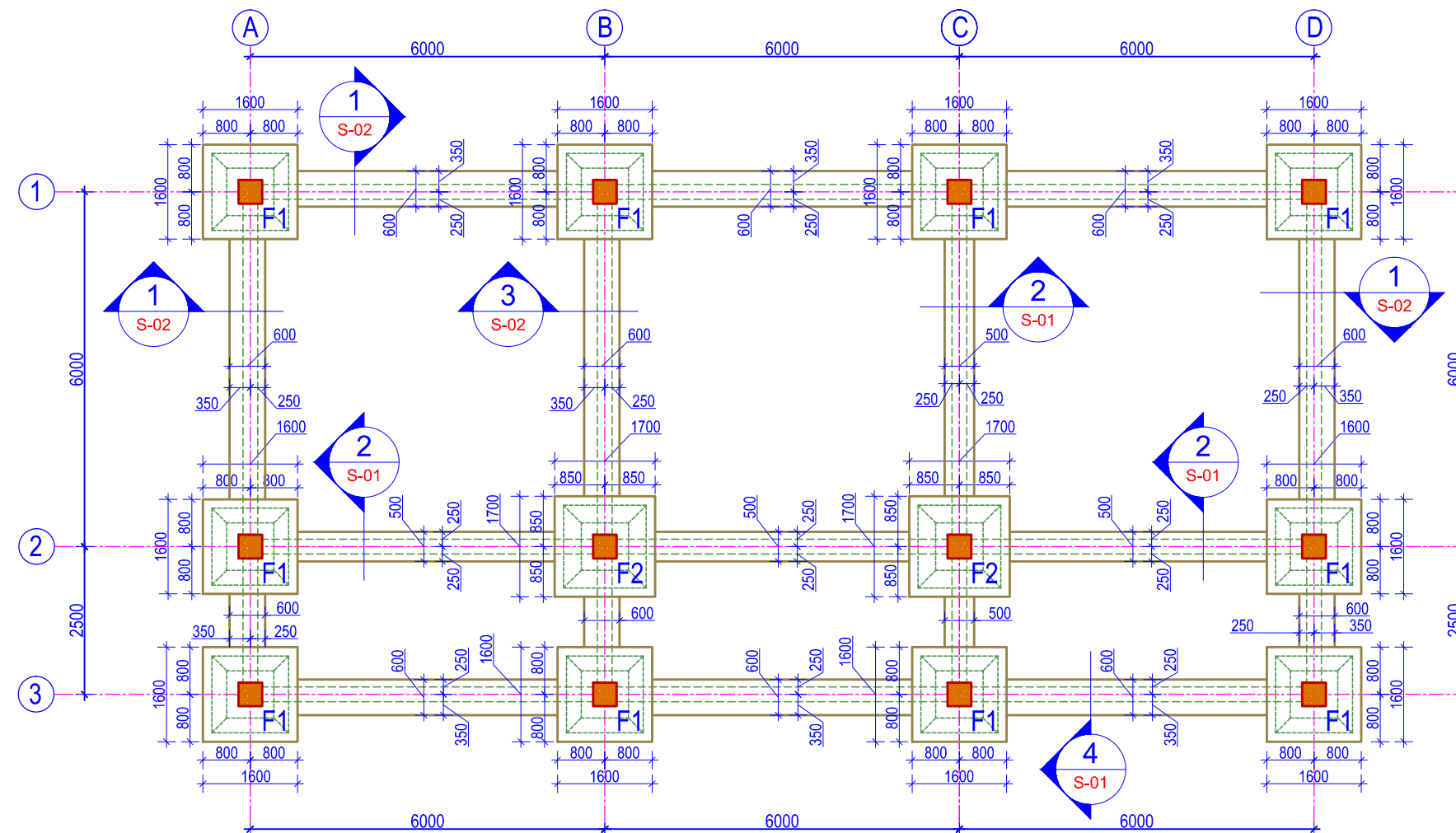
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Type Design :  
3 SMALL ROOMS -  
ECD & 2 CLASSROOMS

Sheet Title : GENERAL NOTES & TYPICAL DETAILS	Sheet No. 3C(S)-A
-----------------------------------------------------	----------------------

Date : September, 2016	S-00
Print Sheet : A'3' Size	

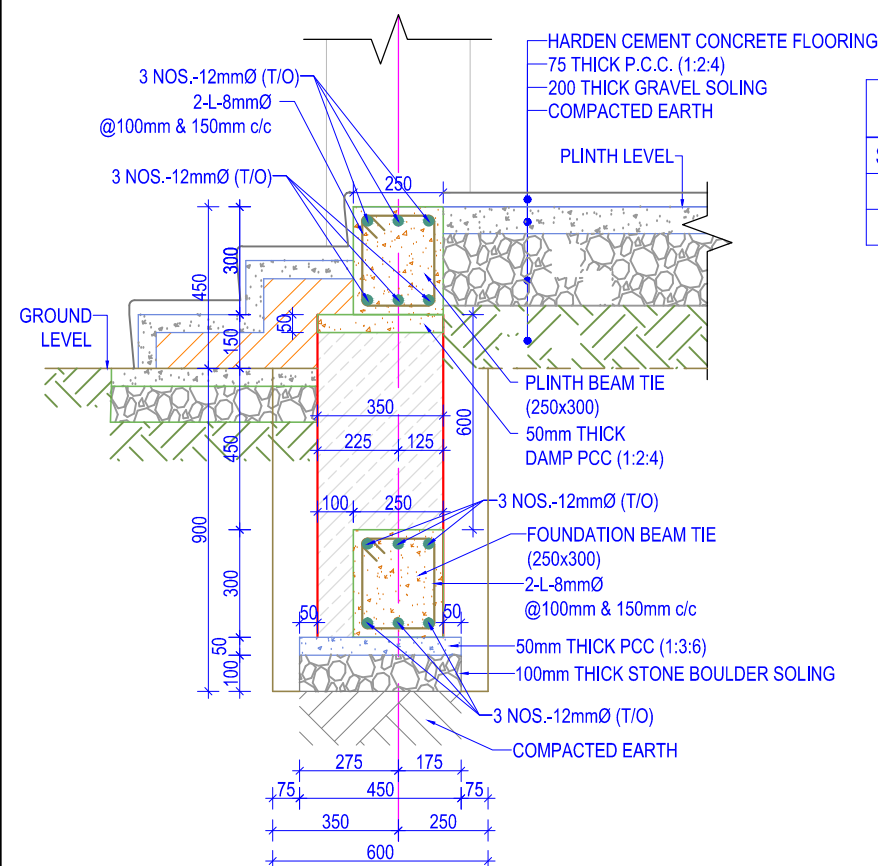


**TRENCH PLAN**  
(Scale= 1:100)



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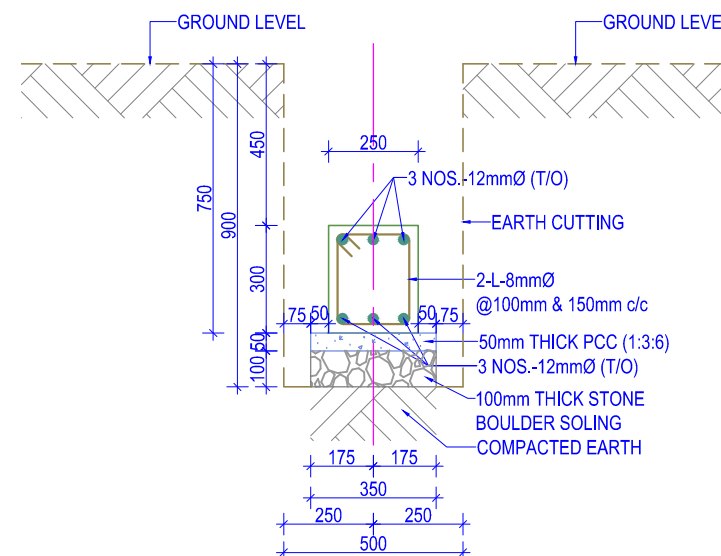


**WALL FOUNDATION DETAIL SECTION AT -4**  
(Scale= 1:20)

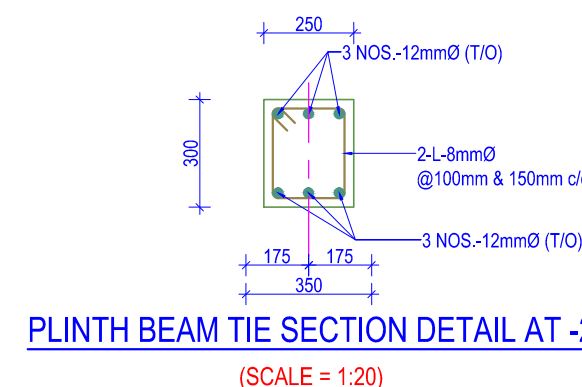
FOOTING TABLE				
S.N.	FOOTING	LENGTH	BREADTH	DEPTH
1.	F1	1300	1300	450
2.	F2	1400	1400	450

**Footing Design for 3C(S)**

Soil Bearing Capacity	Grid	Foundation Size L x B (mm)	Thickness (mm)	Reinforcement Each way (AS)
180, 100, 50 kN/m <sup>2</sup>	A1, B1, C1, D1, A2, D2, A3, B3, C3, D3	1300 x 1300	450	12Ø - 150 c/c
	B2, C2	1400 x 1400	450	12Ø - 150 c/c



**FOUNDATION BEAM TIE SECTION DETAIL AT -2**  
(SCALE = 1:20)



**PLINTH BEAM TIE SECTION DETAIL AT -2**  
(SCALE = 1:20)



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Sheet Title :  
TRENCH PLAN,  
TIE BEAM DETAILS &  
WALL FOUNDATION DETAILS

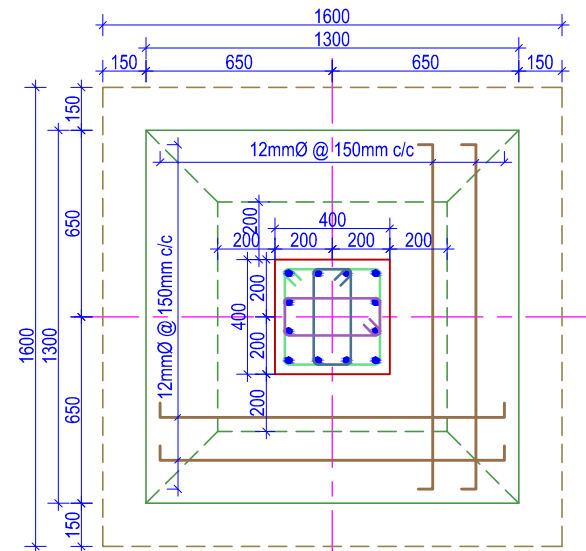
Sheet No.

3C(S)-A

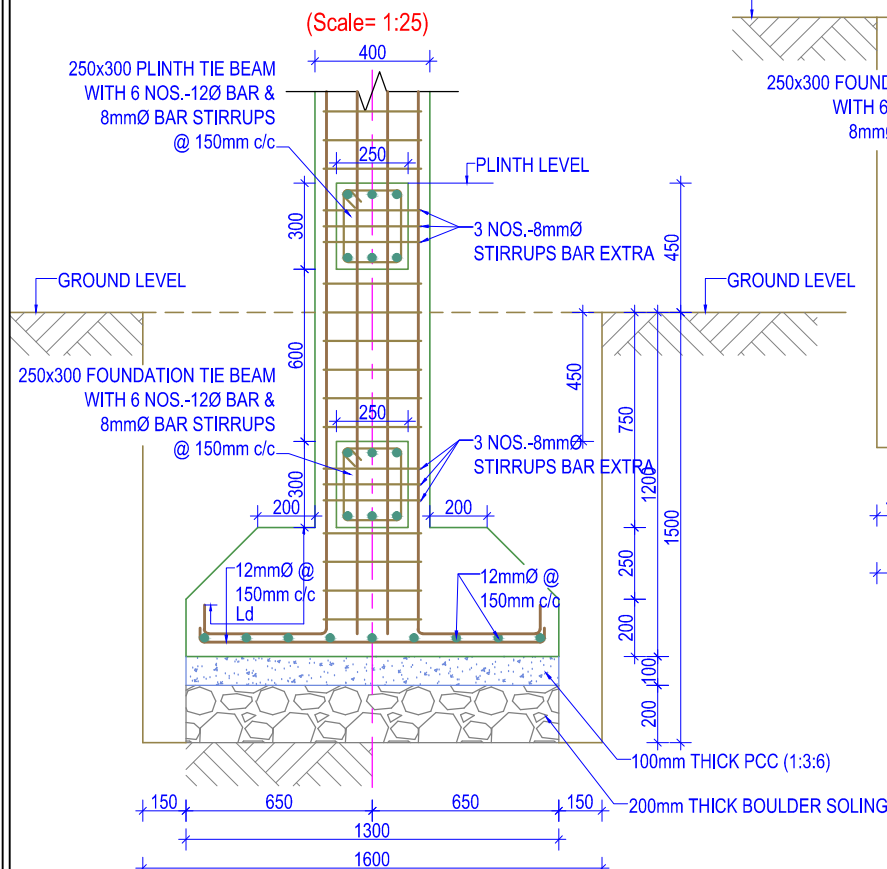
Date : September, 2016

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S-01

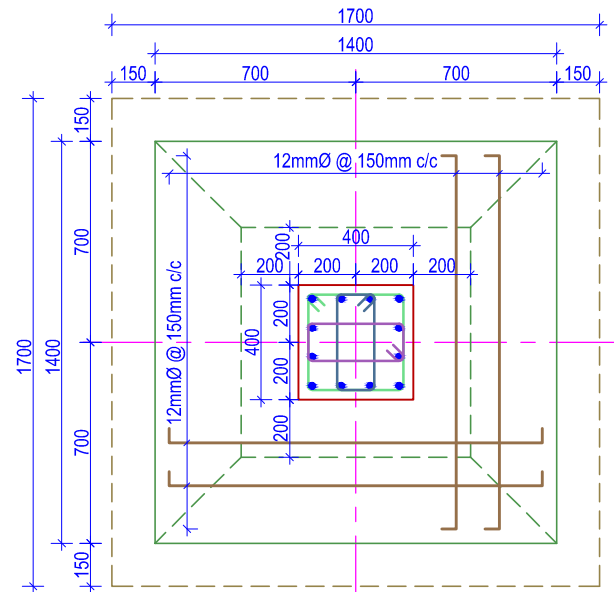


**COLUMN FOOTING PLAN -F1**

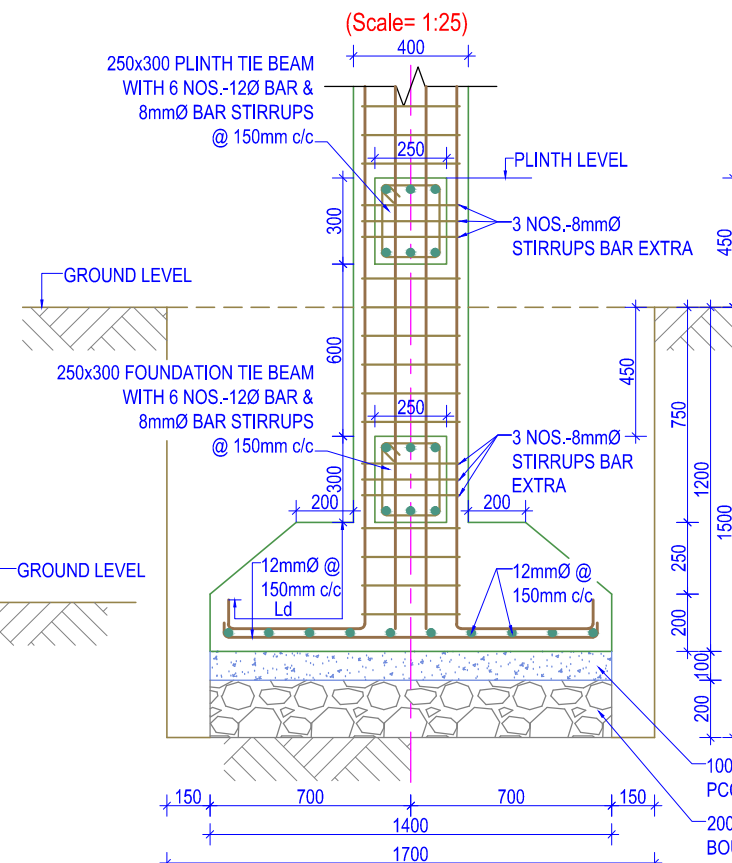


**COLUMN FOOTING SECTION -F1**

(Scale= 1:25)

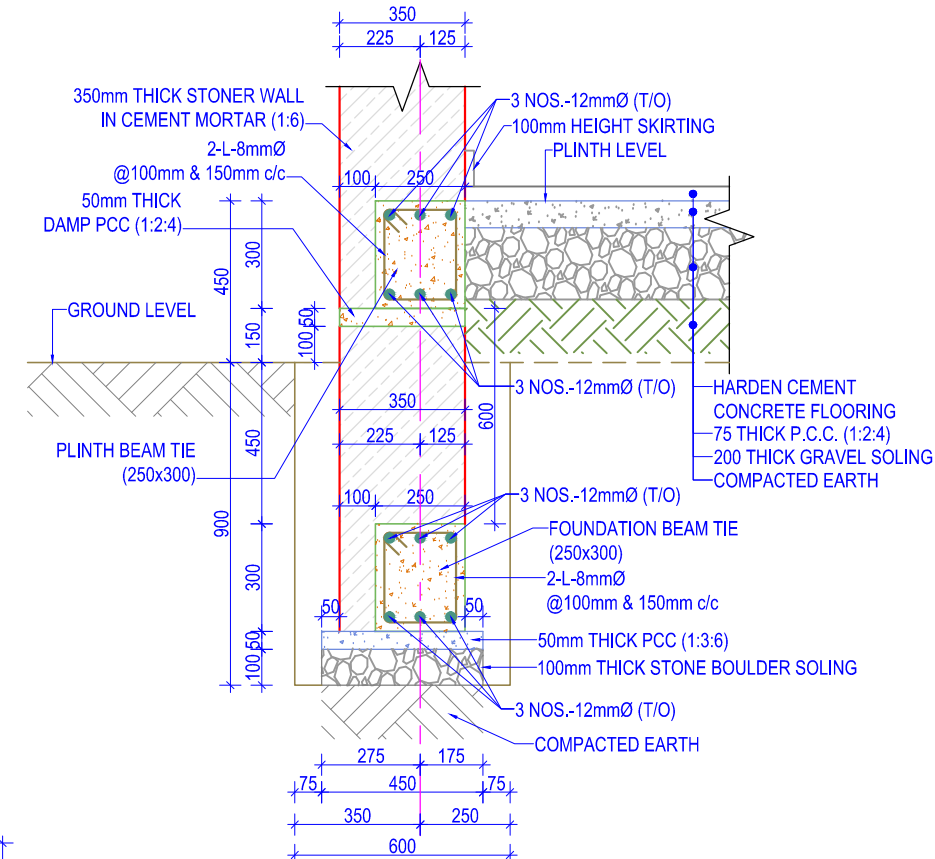


**COLUMN FOOTING PLAN -F2**



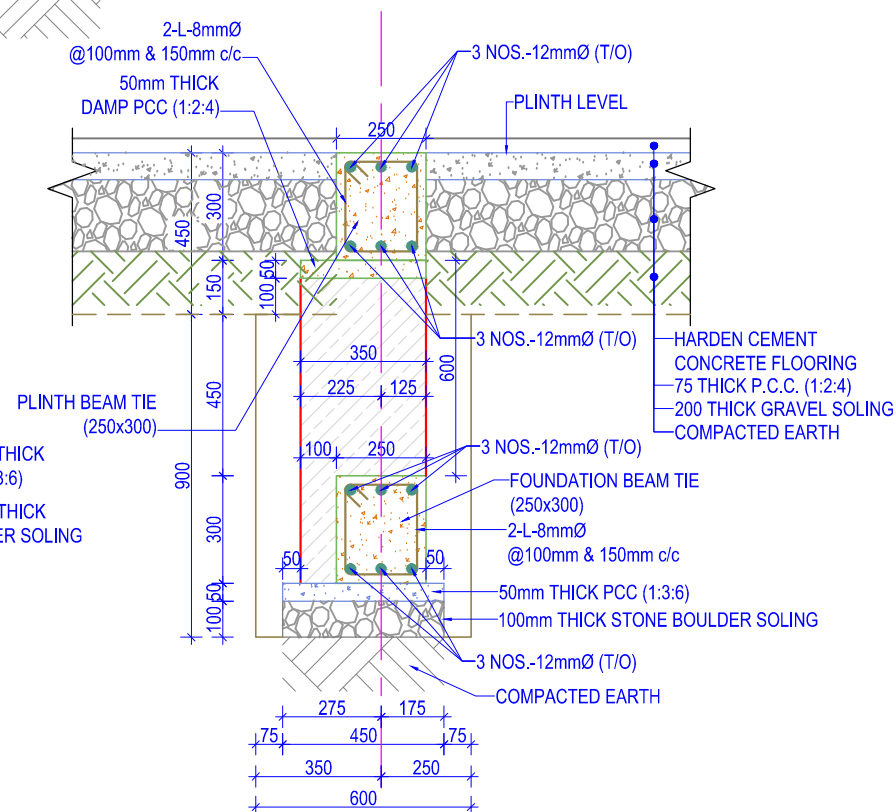
**COLUMN FOOTING SECTION -F2**

(Scale= 1:25)



**WALL FOUNDATION DETAIL SECTION AT -1**

(Scale= 1:20)



**WALL FOUNDATION DETAIL SECTION AT -3**

(Scale= 1:20)



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Cooperation Agency

Project Title:

Emergency School Reconstruction Project



ORIENTAL CONSULTANTS GLOBAL  
Global Consulting for sustainable Development  
Joint Venture with  
MOHRI, ARCHITECT & ASSOCIATES, INC

Sub-Consultant:

**EWES** East West Engineering Service Pvt. Ltd.  
P. Box-8621, Bansbari, Kathmandu, Nepal. web: ewesnepal.com  
Tel: 9771-4373316, Fax: 4650203, email: hbgewe@gmail.com

Mr. Tomoki Miyano	Mr. H.B. Gurung
Mr. Hisafumi Michikawa	Mr. A.S. Tamang
Mr. Wong Kuok Hung	Mr. S. Malla

Type Design :

3 SMALL ROOMS -  
ECD & 2 CLASSROOMS

Sheet Title : FOOTING PLAN & SECTION, WALL FOUNDATION DETAILS	Sheet No. 3C(S)-A
---------------------------------------------------------------------	----------------------

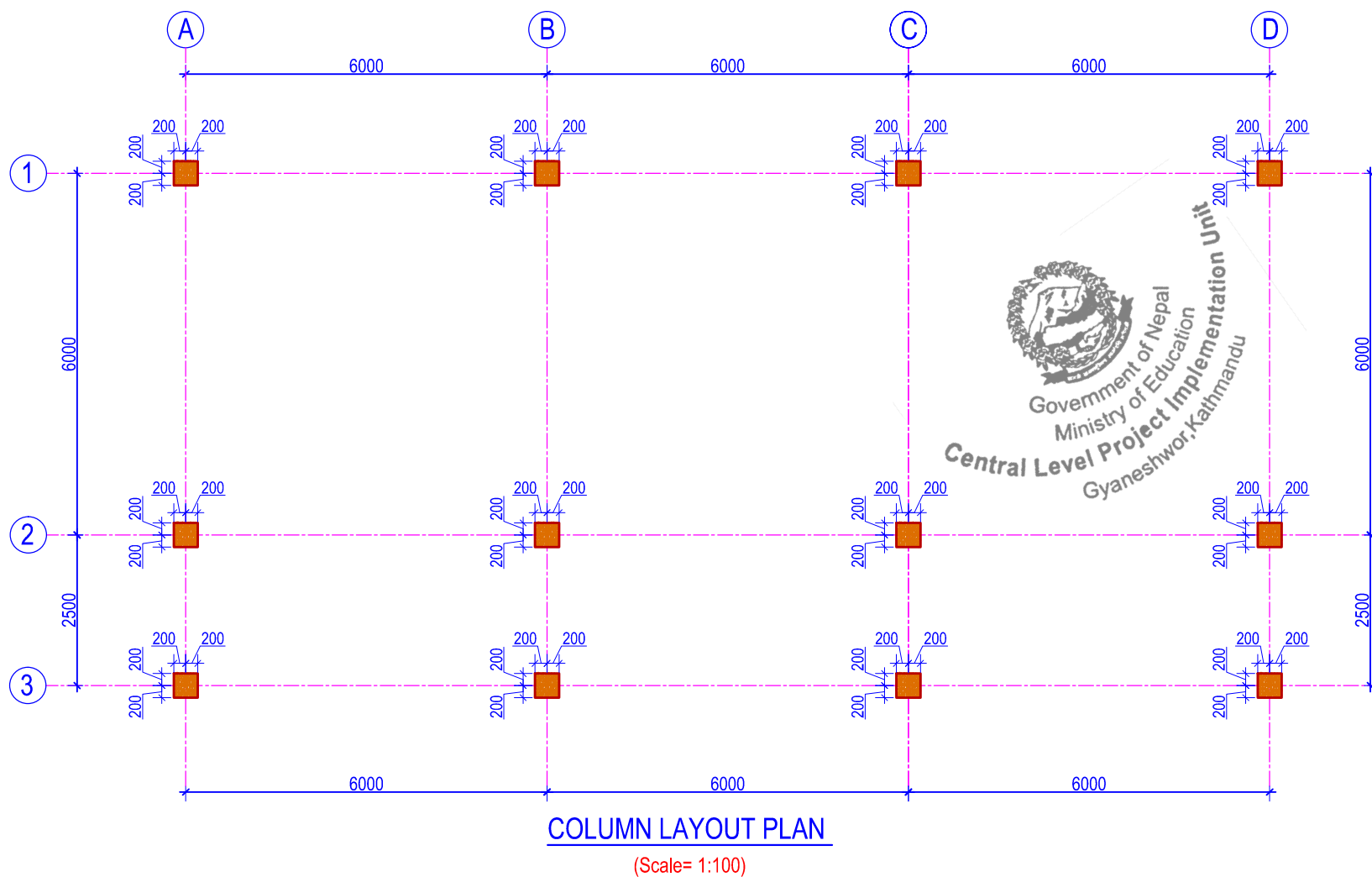
Date : September, 2016

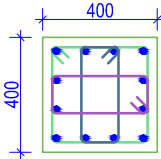
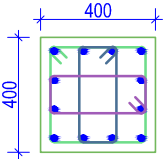
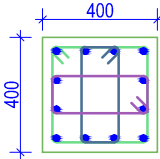
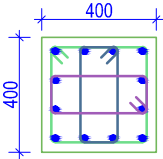

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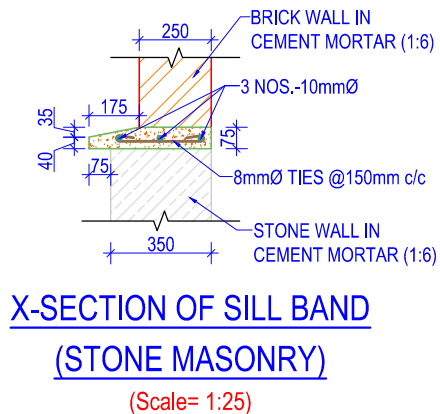
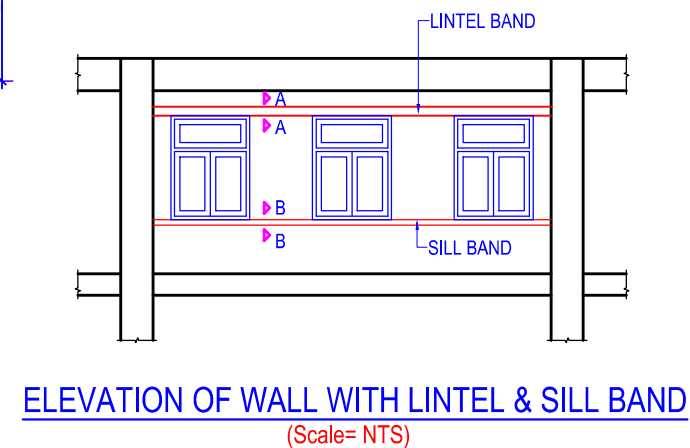
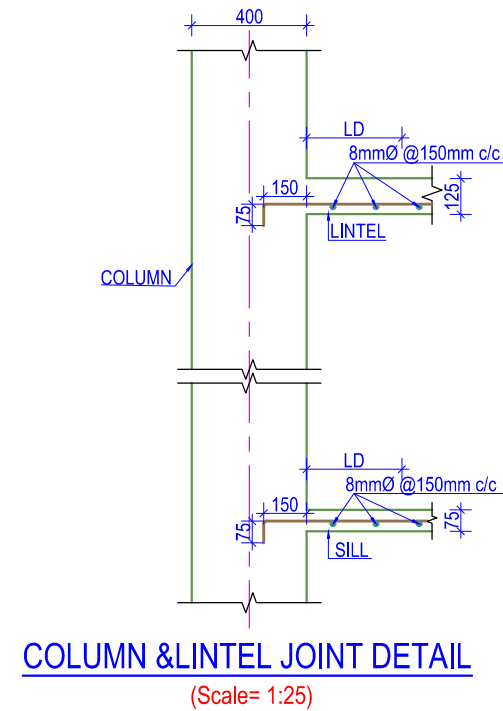
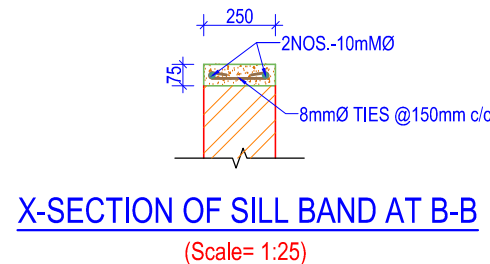
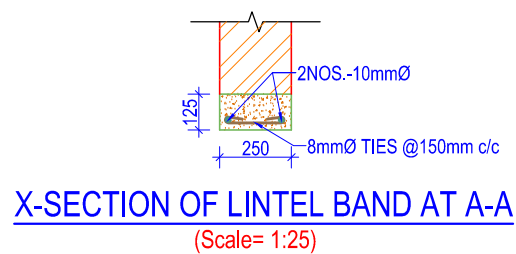
**S-02**

Government of Nepal  
Ministry of Education  
Central Level Project Implementation Unit  
Gyaneshwor, Kathmandu





COLUMN REINFORCEMENT DETAILS						
S. NO.	GRID	GRID -A	GRID -B	GRID -C	GRID -D	STIRRUPS
		COLUMN SIZE (400 x 400)	COLUMN SIZE (400 x 400)	COLUMN SIZE (400 x 400)	COLUMN SIZE (400 x 400)	
1	1, 2 & 3	 <p>4 NOS. -16mmØ 8 NOS. -12mmØ</p>	 <p>4 NOS. -16mmØ 8 NOS. -12mmØ</p>	 <p>4 NOS. -16mmØ 8 NOS. -12mmØ</p>	 <p>4 NOS. -16mmØ 8 NOS. -12mmØ</p>	 <p>8Ø@100mm/c &amp; 150mm/c</p>



- NOTES:**
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  - Drawing are not to be directly measured.
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Government Of Nepal  
Department Of Education  
Sanothimi, Bhaktapur, Nepal



Donor : Japan International  
Cooperation Agency

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Type Design :  
3 SMALL ROOMS -  
ECD & 2 CLASSROOMS

Sheet Title :  
COLUMN PLAN & DETAILS  
SILL & LINTEL DETAILS

Sheet No.

3C(S)-A

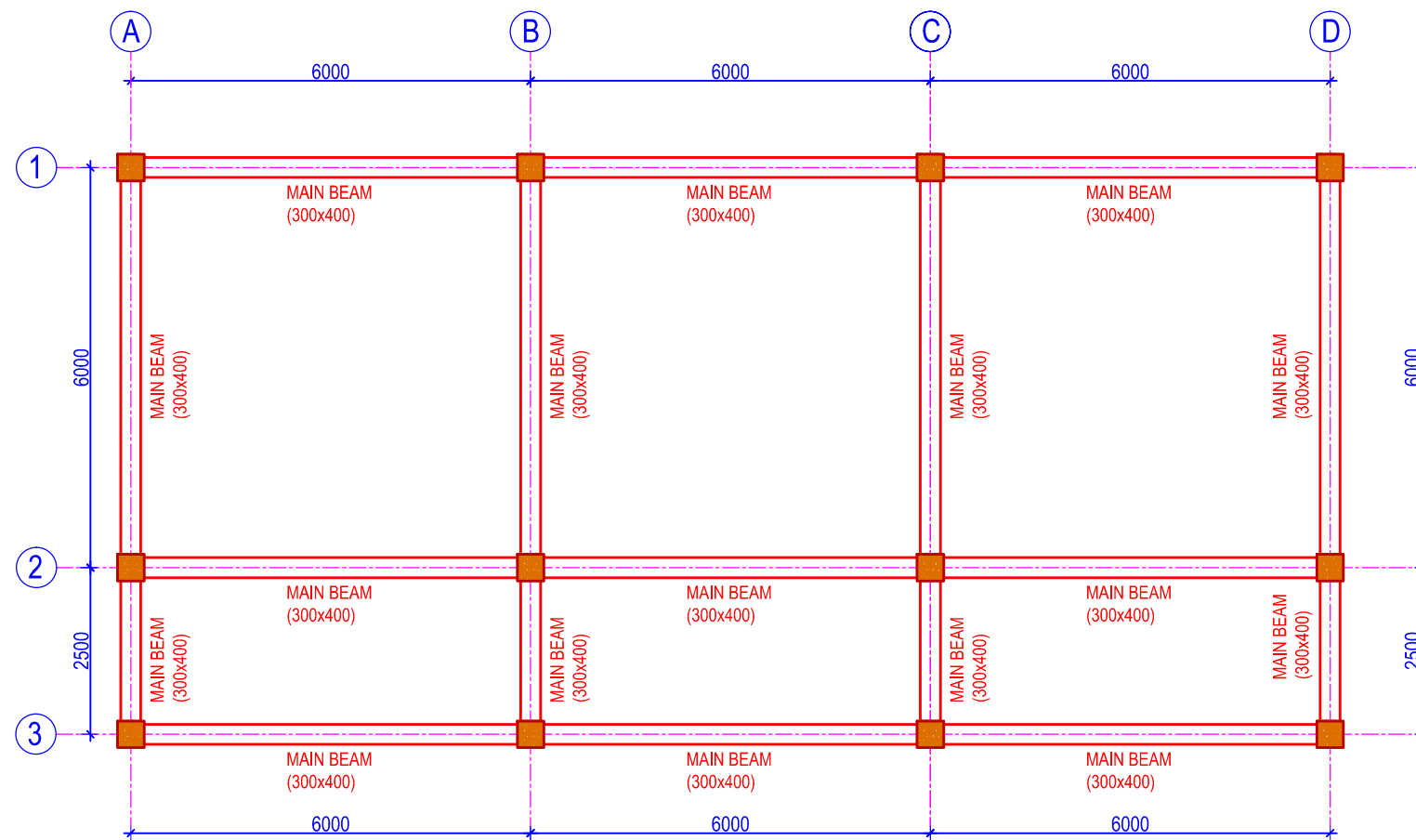
Date : September, 2016

Print Sheet : A'3' Size

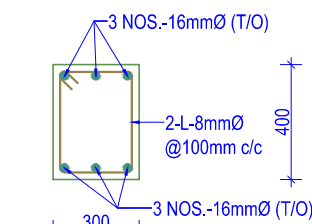
S-03



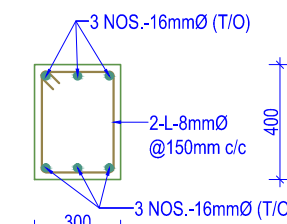
- NOTES:
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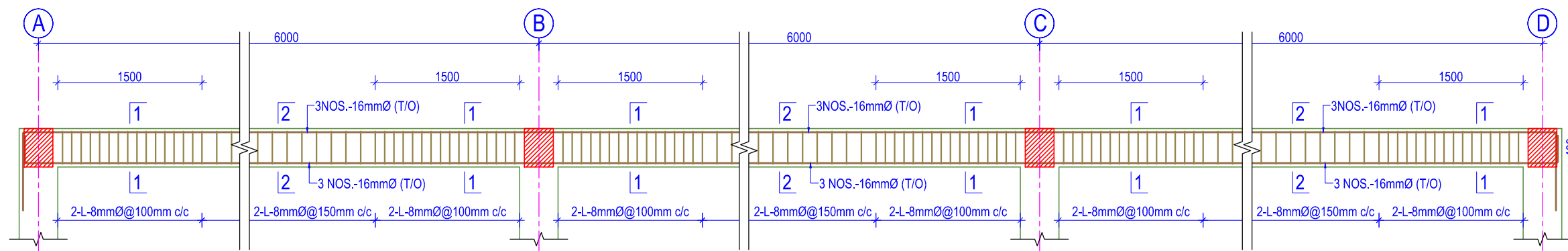
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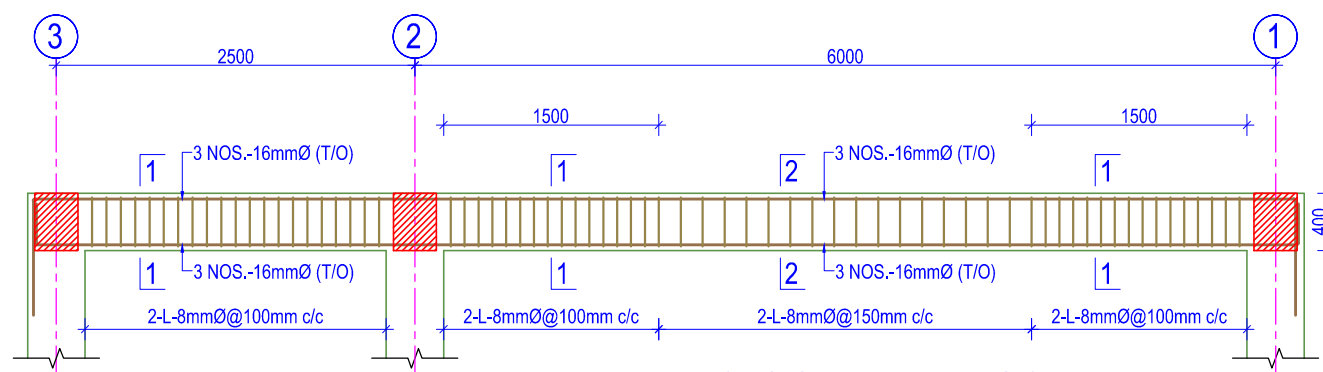
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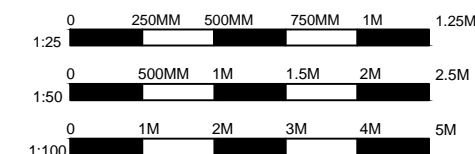
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**BEAM DETAIL ALONG GRID AT -1, 2 & 3**  
(SCALE = 1:50)



**BEAM DETAIL ALONG GRID AT -A, B, C & D**  
(SCALE = 1:40)



Government Of Nepal  
Department Of Education  
Sanothimi, Bhaktapur, Nepal

Donor :  
JICA  
Japan International  
Cooperation Agency

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Type Design :  
3 SMALL ROOMS -  
ECD & 2 CLASSROOMS

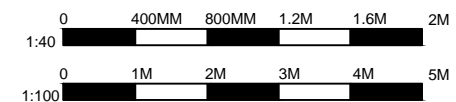
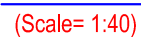
Sheet Title :  
BEAM PLAN & DETAILS

Date : September, 2016  
Print Sheet : A'3' Size

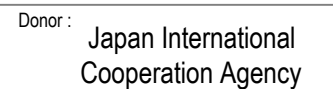
Sheet No.  
3C(S)-A  
S-04



(Scale= 1:100)



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Project Title:	Emergency School Reconstruction Project
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Mr. Wong Kuok Hung	Mr. S. Malla

Type Design :  
3 SMALL ROOMS -  
ECD & 2 CLASSROOMS

Sheet Title :  
**TRUSS PLAN & SECTION**

Sheet No.

C(S)-A

Date : September,2016

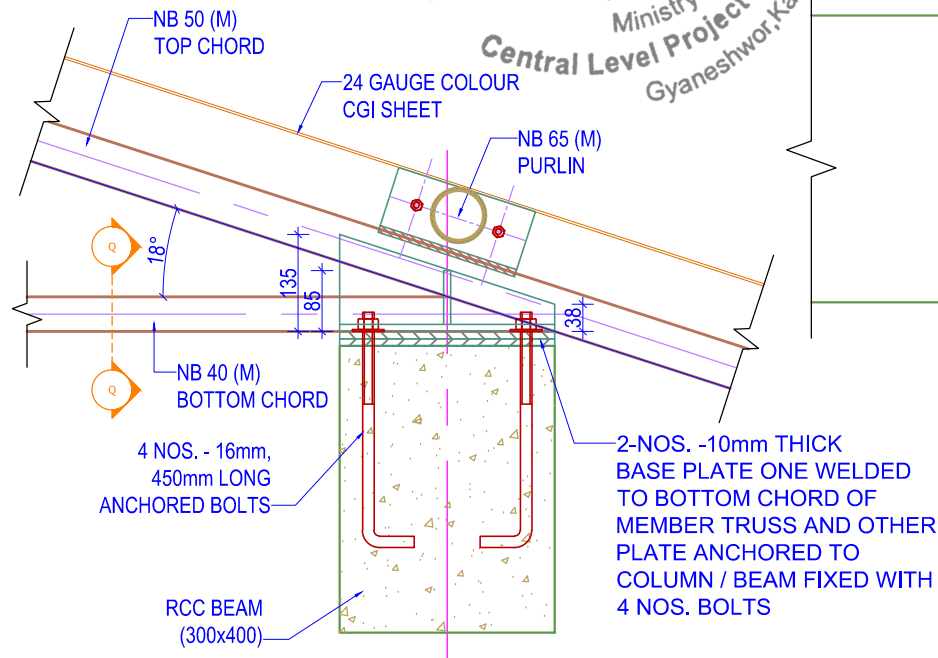
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S-05

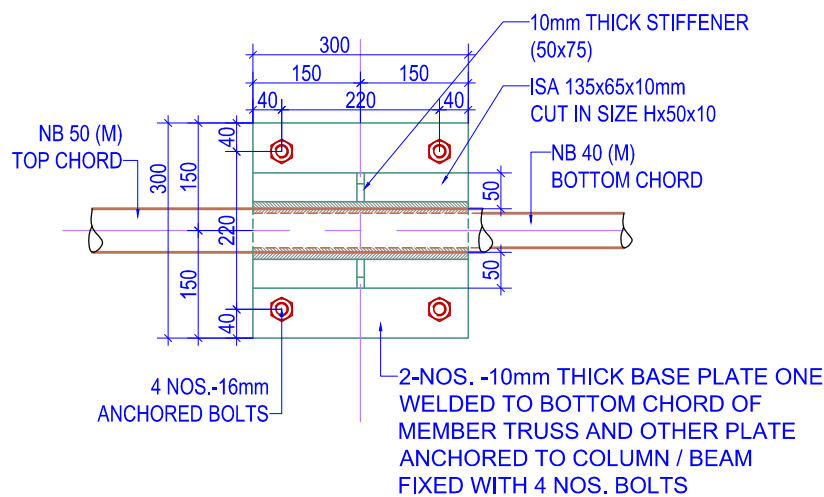




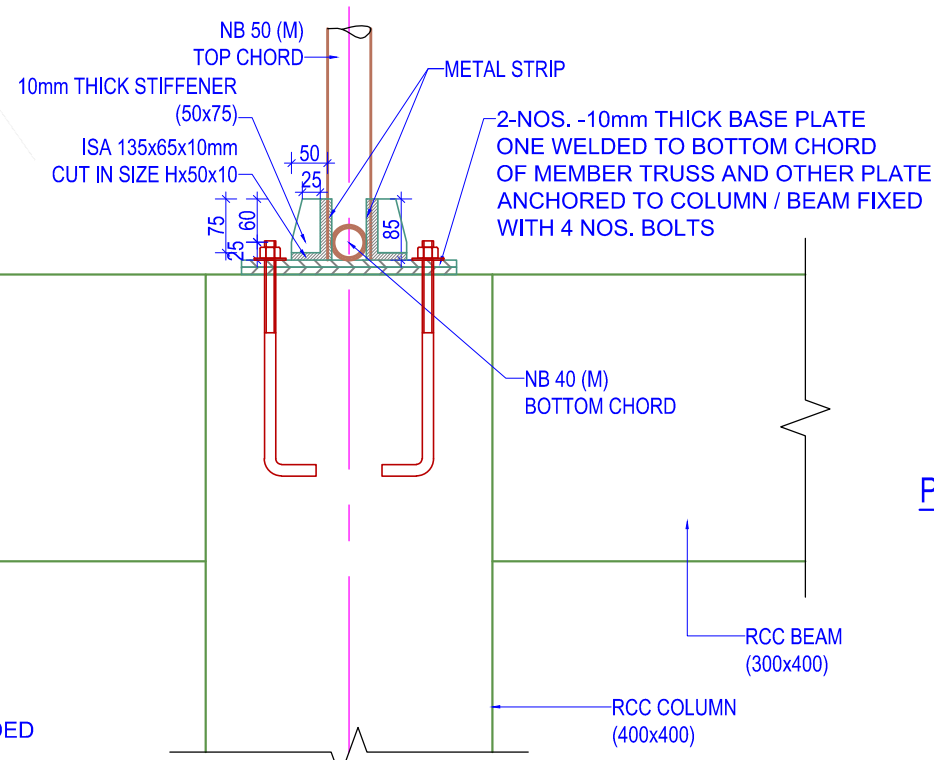
Government of Nepal  
Ministry of Education  
Central Level Project Implementation Unit  
Gyaneshwor, Kathmandu



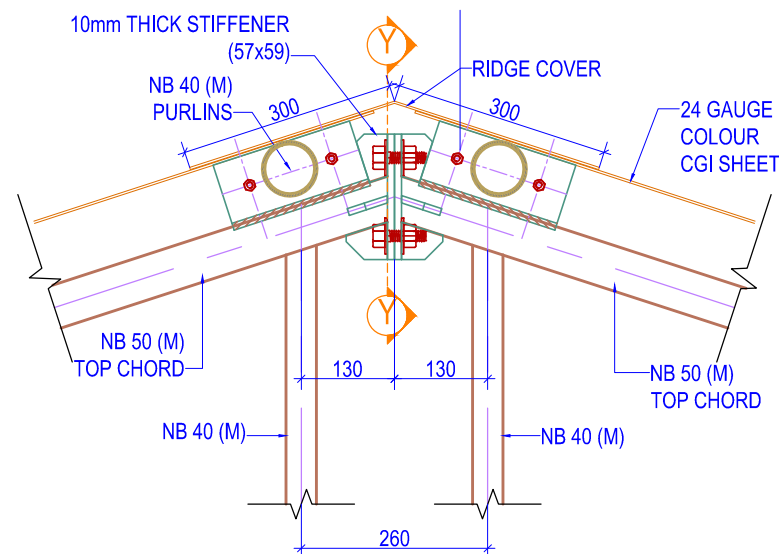
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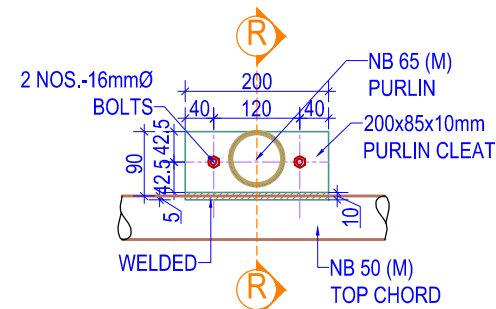
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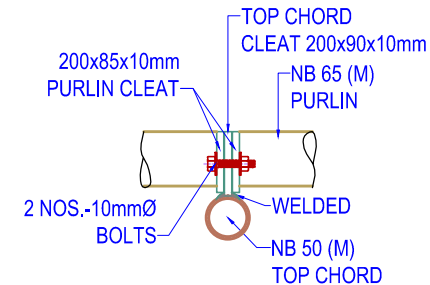
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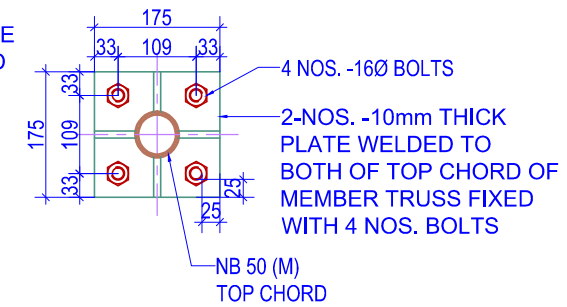
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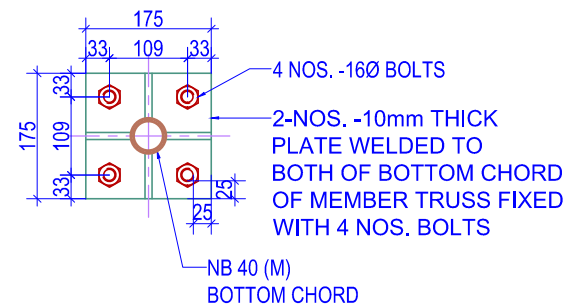
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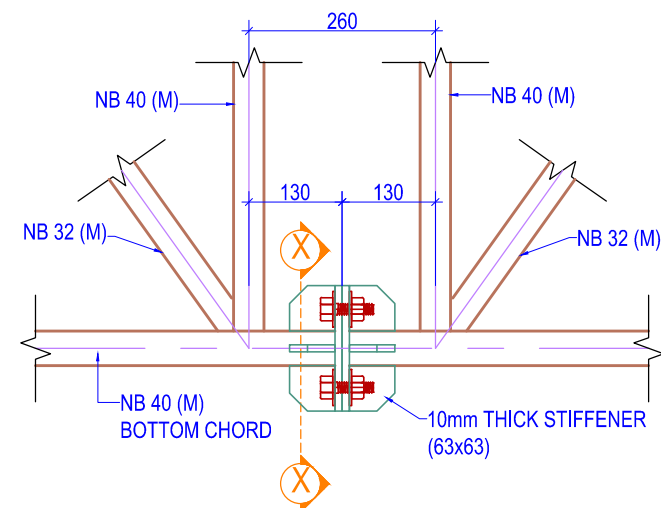
**PURLIN CLEAT DETAIL SECTION -R-R**  
(Scale= 1:10)



**PLATE DETAIL AT -Y-Y**  
(Scale= 1:10)



**PLATE DETAIL AT -X-X**  
(Scale= 1:10)



**DETAIL AT -B**  
(Scale= 1:10)

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Type Design :  
3 SMALL ROOMS -  
ECD & 2 CLASSROOMS

Sheet Title :  
TRUSS DETAILS

Sheet No.

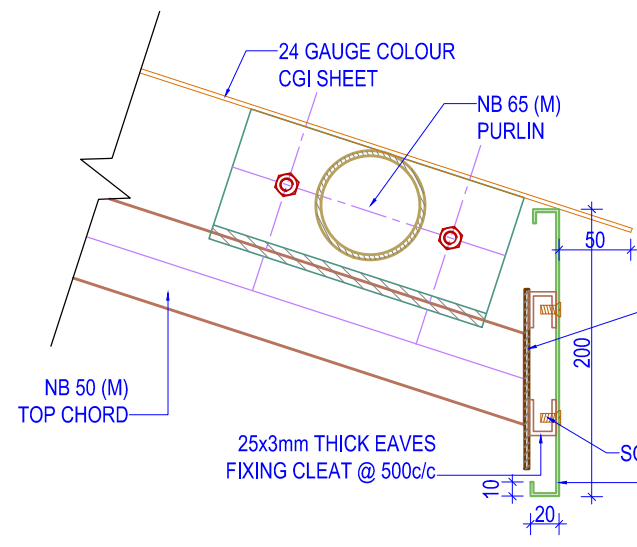
3C(S)-A

Date : September, 2016

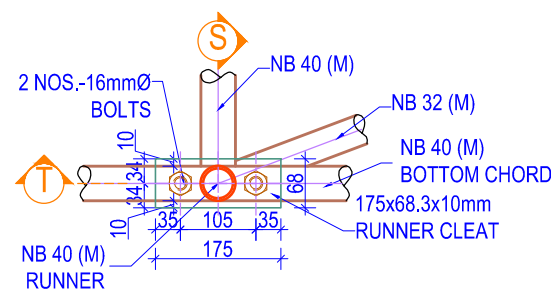
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S-06

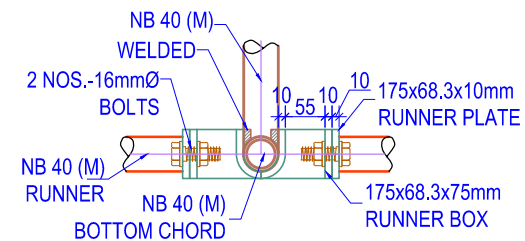
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1:10



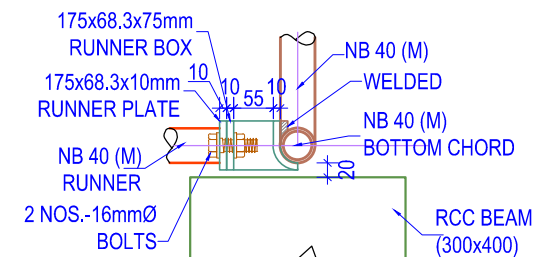
**FASCIA BOARD DETAIL**  
(Scale= 1:5)



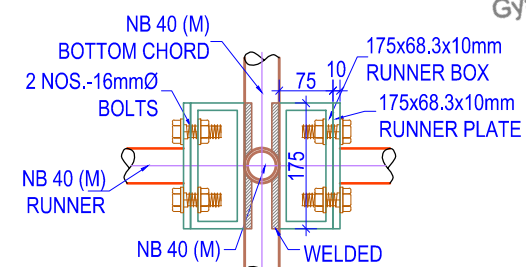
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(Scale= 1:10)



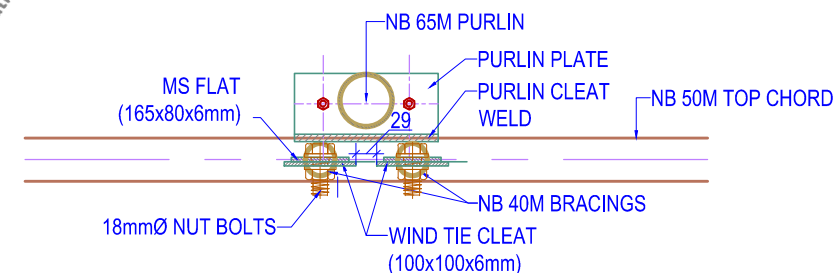
**RUNNER PLATE & CONNECTION BOX DETAIL SECTION -S-S AT MID**  
(Scale= 1:10)



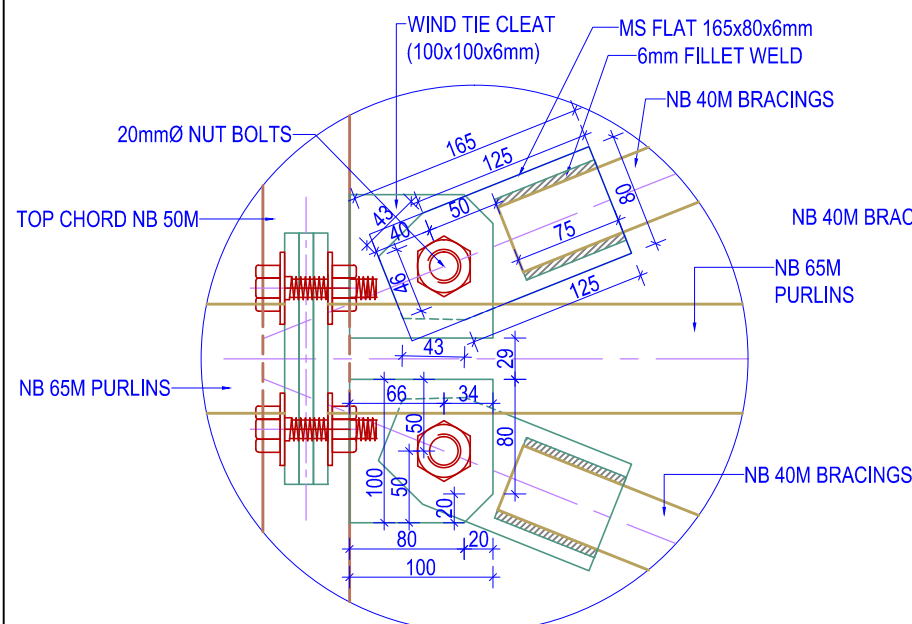
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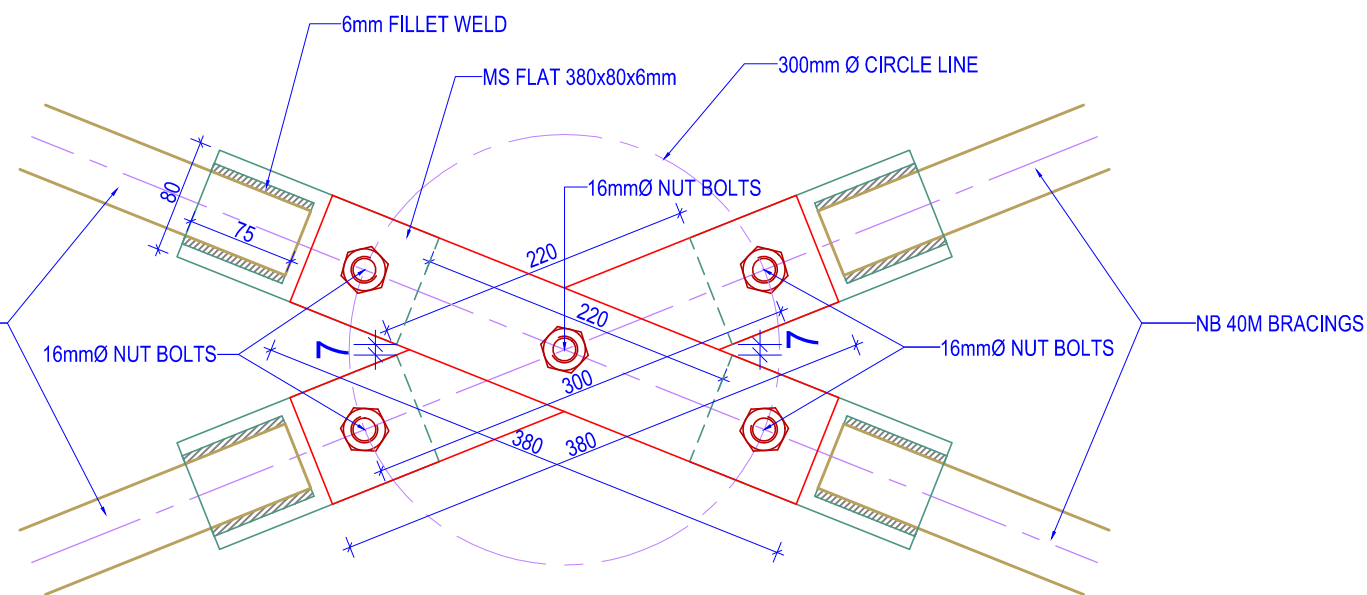
**RUNNER PLATE & CONNECTION BOX DETAIL PLAN -T-T**  
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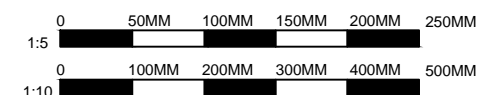
**TRUSS CLEAT FOR WIND TIES SECTION DETAILS**  
(Scale= 1:10)



**TRUSS CLEAT FOR WIND TIES DETAILS**  
(Scale= 1:5)



**TRUSS CLEAT JUNCTION FOR WIND TIES DETAILS**  
(Scale= 1:5)



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Type Design :  
3 SMALL ROOMS -  
ECD & 2 CLASSROOMS

Sheet Title :  
TRUSS DETAILS

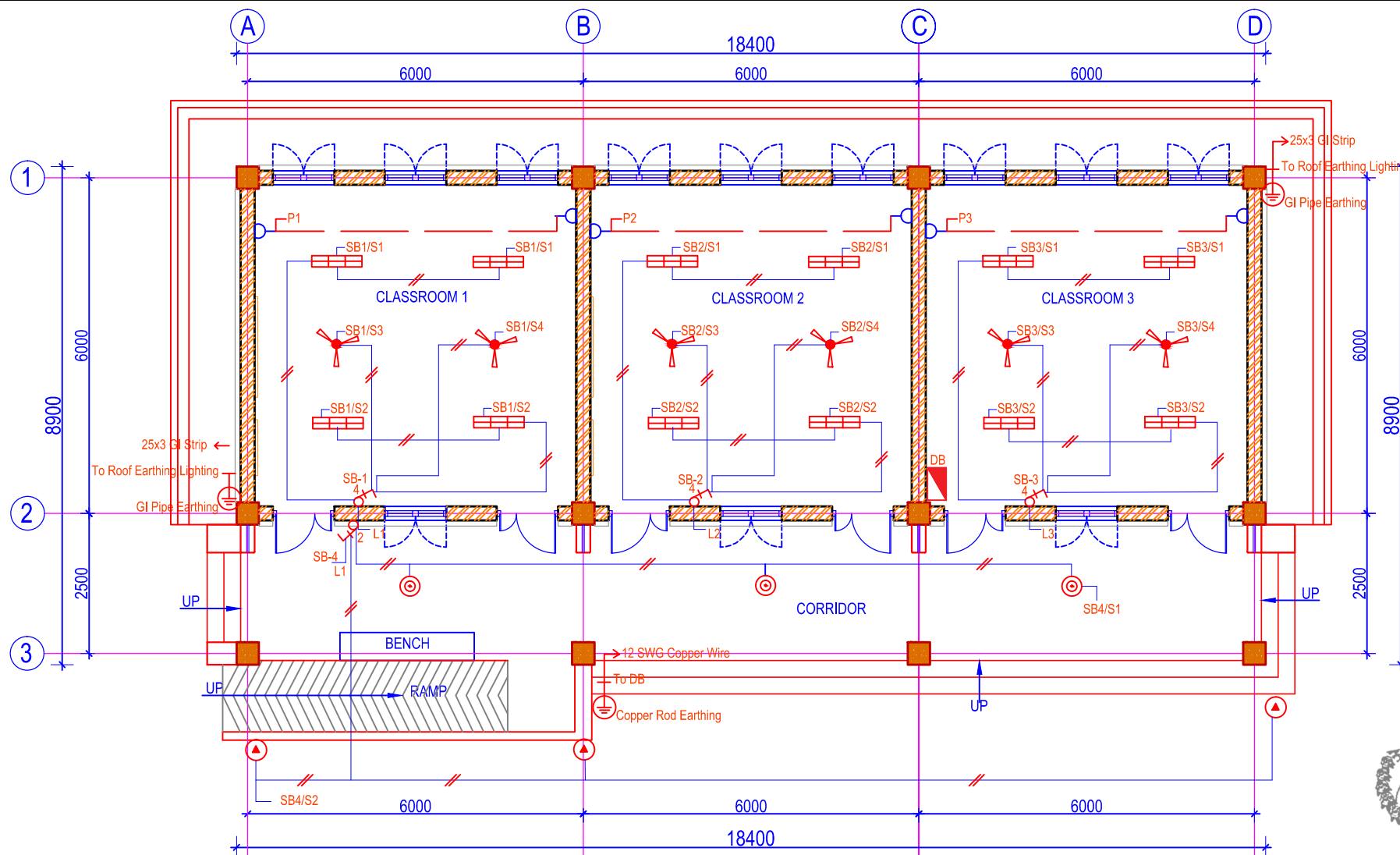
Sheet No.

3C(S)-A

Date : September, 2016

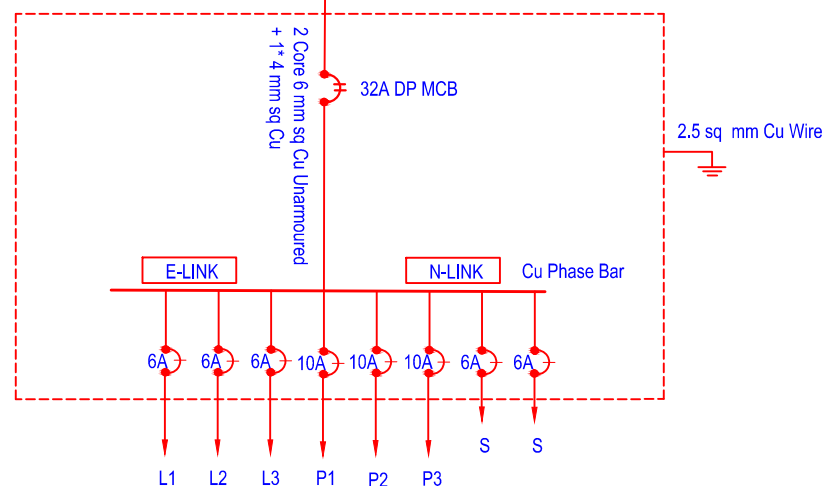
Print Sheet : A'3' Size

S-07



**LIGHT, POWER & DB LAYOUT PLAN**  
**(GROUND FLOOR)**  
 (Scale= 1:100)

Cable from Main Panel Board



**GROUND FLOOR L/P DISTRIBUTION SYSTEM (DB)**

**LEGEND**

SN	SYMBOL	INDICATES	MOUNTING HEIGHT	REMARKS
1		2x28W Recess Type Mirror Optic	Attached to Ceiling	
2		1x28W Recess Type Mirror Optic	Attached to Ceiling	
3		2x28W Surface Type Mirror Optic	Attached to Ceiling	
4		1x28W Surface Type Mirror Optic	Attached to Ceiling	
5		13W CFL Dome Light	Attached to Ceiling	
6		13W CFL Recess Light	Attached to Ceiling	
7		13W LED Post Light	4 Meter Steel Pole	
8		8W CFL Wall Light		
9		1200mm Ceiling Fan	Attached to Ceiling	

SN	SYMBOL	INDICATES	MOUNTING HEIGHT	REMARKS
10		6A Power Socket	Above Skirting	
11		Two way Switch	1.25m above Finished Floor Level	
12		One way Switch	1.25m above Finished Floor Level	
13		Single Pole MCB	-	
14		Double Pole MCB	-	
15		Three Pole MCB	-	
16		NEA Meter	2.5 m above Ground Level	
17		Distribution Board	2.5 m above Ground Level	
18		Main Panel Board	2.5 m above Ground Level	

0 1M 2M 3M 4M 5M  
1:100

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  - The location of ramps to be adjusted as per site condition.



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Mr. Wong Kuok Hung	Mr. A.K.Dhungana

Type Design :  
 3 SMALL CLASSROOMS

Sheet Title :  
 LIGHT, POWER & DB  
 LAYOUT PLAN  
 (GROUND FLOOR)

Date : September, 2016

Print Sheet : A'3' Size

Sheet No.

**3C(S)  
 -A**

**E-01**