

FLOOR PLAN DETAIL

NOTES:-

- All dimensions are in m, unless wherever specified diameter of the bars shown in mm
- Dimensions are not to be scaled out, only written dimensions may be taken as correct.
- Nominal mix concrete 1:1.5:3 according IS 456 Clause 9.3
- The reinforcement shall be of high strength deformed steel bars conforming to IS:1786-2008
- Second class brick must be used
- Mortar 1:4 according to Table 3 IS 4326-2013
- All walls are one Brick Thick Masonry walls or Autoclaved Aerated Block of Class 7.5
- Any discrepancy in the structural drawings should be correlated with architectural drawing.
- Walls which not supported to slab constructed after slab casting (wall between Bath & WC)
- Refer DWG-2 to DWG-4 for earthquake resistance and structural detail.

Schedule of Door & Windows

Name	Lintel	Width	Sill lvl	Description
D1	2.10	0.90	--	PVC DOOR
D2	2.10	0.75	--	
W1	2.10	1.50	0.90	
W2	2.10	0.90	0.90	
V	2.10	0.60	1.65	

NOTES:-

Clear height of DU = 2.85 m
 Chajja projection over windows is 450 mm .
 * All the Dimensions in m

DRG. No. - NIT/CED/2017/PMAY-OPI-RCC-FR-ZV/DWG-1

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

**BUILDING NAME:
 PMAY HFA
 OPTION 1
 RCC BUILDING
 FLAT ROOF
 ZONE V**

**DRAWING TITLE:
 FLOOR PLAN**

**DESIGNED BY:
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 Dr. Hemant Kumar Vinayak**

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Sl. No.	Column	Transverse reinforcement	Sectional plan with longitudinal reinf.
1.	C1	8Ø @100mm C/C "A" 8Ø @150mm C/C "B"	

All Column Size are 35cm x 35cm and Grade is M20

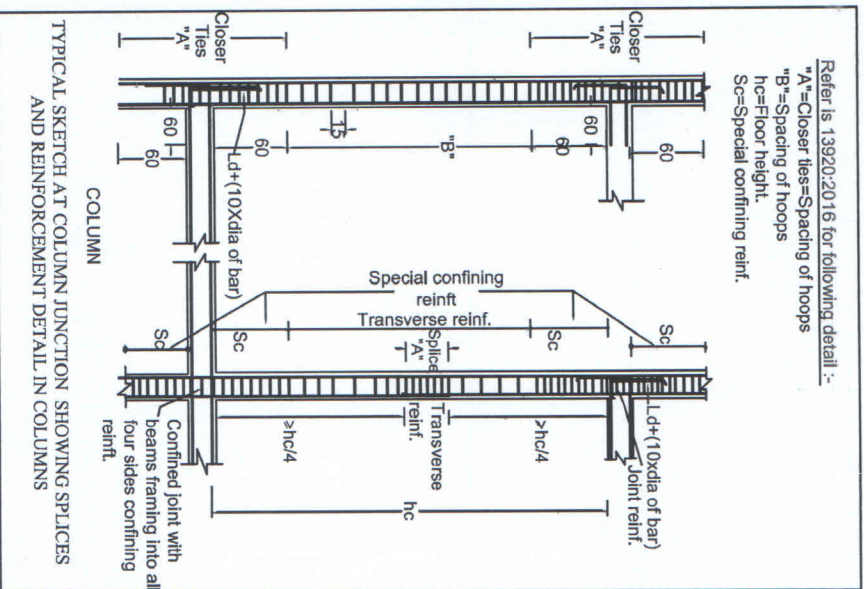
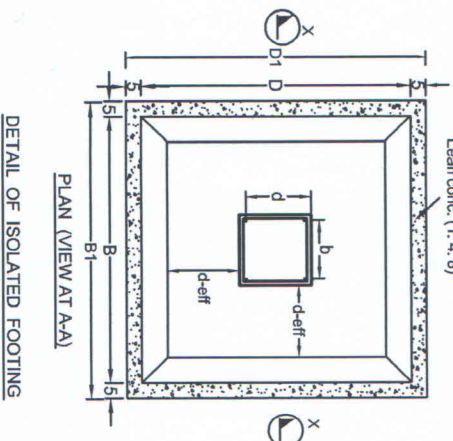
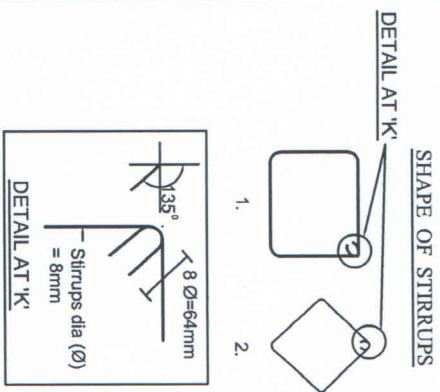
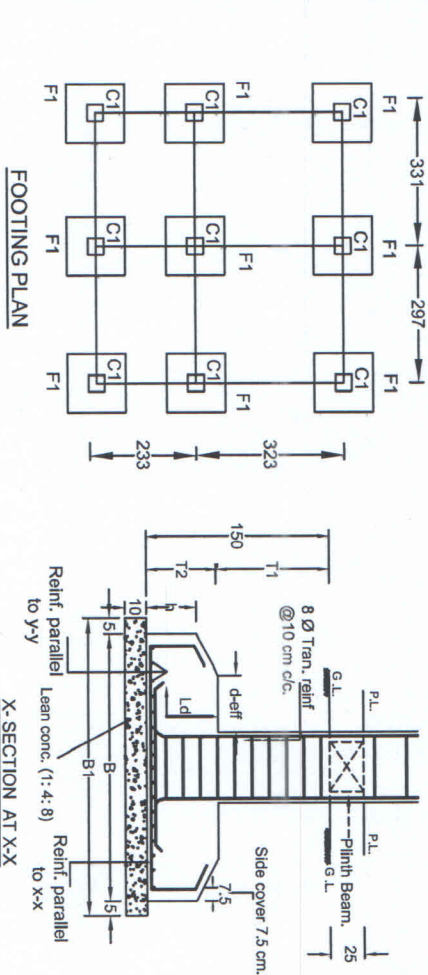


CHART SHOWING DETAIL OF ISOLATED FOOTING REINFORCEMENT

Sr. No.	Name of footing	Size of column (bxd)	Size of footing (BxD)	Size of pit (B1XD1)	Thickness of footing T ₂	d-eff.	h	Spacing of reinf. parallel to x-x	Spacing of reinf. parallel to y-y
1.	F1	35X35	135X135	145X145	30	25	20	8Ø @ 175mm C/C	8Ø @ 175mm C/C



NOTES:-

- All dimensions are in cm, unless wherever specified diameter of the bars shown in mm.
- Dimensions are not to be scaled out, only written dimensions may be taken as correct.
- Safe bearing capacity for design of footing is 15 T/m² to be ensured at site.
- Grade of concrete M:20.
- The reinforcement shall be of high strength deformed steel bars conforming to IS:1786.
- Minimum clear cover to the reinforcement including stirrups:-
 - Beam 25 mm
 - Column 40 mm
 - Footing 50 mm
- Lap length and development length (L_d)
 - For 16 mm Ø = 800
 - For 12 mm Ø = 600
 - For 8 mm Ø = 400
- The concrete shall be mechanically mixed and vibrated with water-cement ratio not exceeding 0.55.
- Incase the proposed building is at probable landslide prone area the soil should be retained properly with adequate retaining wall to prevent differential settlement of the foundation.
- Any discrepancy in the structural drawing should be correlated with architectural drawing

DRG. No. - NIT/CED/2017/OP-1 RCC. FR Z-V/DWG-2

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

BUILDING NAME
PMAY HFA
OPTION I
RCC BUILDING
FLAT ROOF
ZONE V

DETAIL OF FOOTINGS & CLOUMN

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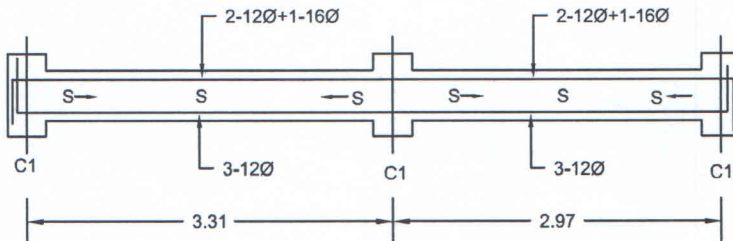
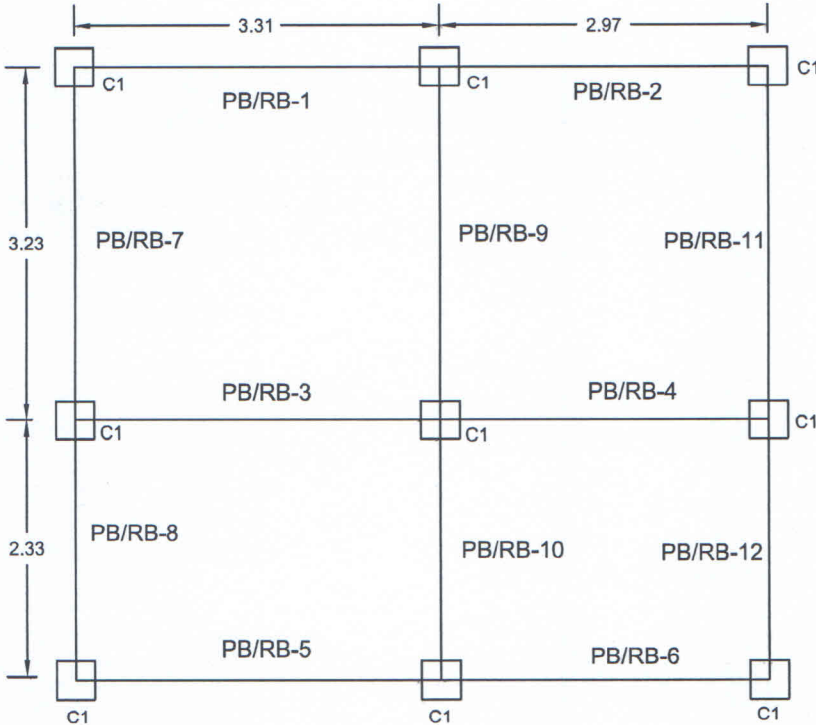
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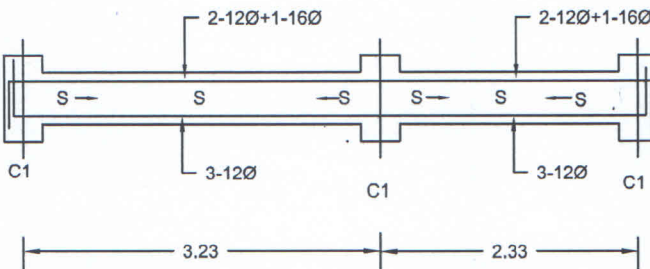
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DETAILED DRAWING OF REINFORCEMENT OF BEAMS AT PLINTH/ROOF LEVEL

S - 8 mm dia bars @ 100 mm c/c



DETAIL FOR BEAM PB/RB-1 to PB/RB-6



DETAIL FOR BEAM PB/RB-7 to PB/RB-12

NOTES :

- All dimensions are in meters, unless wherever specified diameter of the bars shown in mm.
- Dimensions are not to be scaled out, only written dimensions may be taken as correct.
- Size of Beam is 250 X 250 mm.
- Grade of concrete shall be M20.
- All reinforcement shall be of grade Fe 415 confirming to IS:1786-2008.
- Clear Cover to reinforcement shall be 25 mm.
- Bending and fixing of reinforcement shall be as per is:2502-1963.
- Lap length and anchorage length shall be 57 times the bar diameter
- Further refer notes from the drawing of 'Detail' of footings'.

DRG. No. - NIT/CED/2017/OP-1 RCC-FR Z-V/DWG-3

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TECHNOLOGY HAMIRPUR**

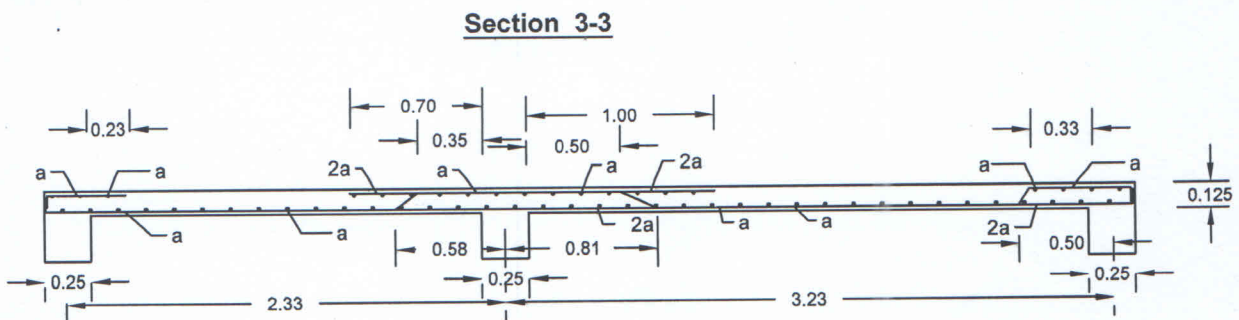
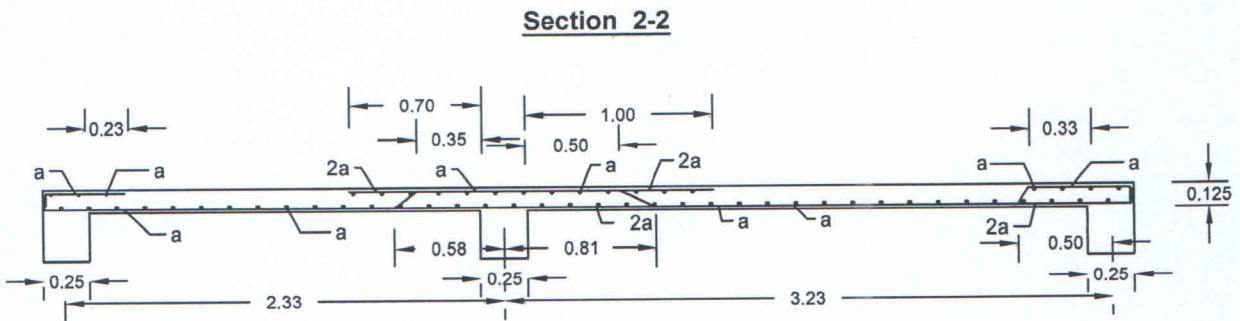
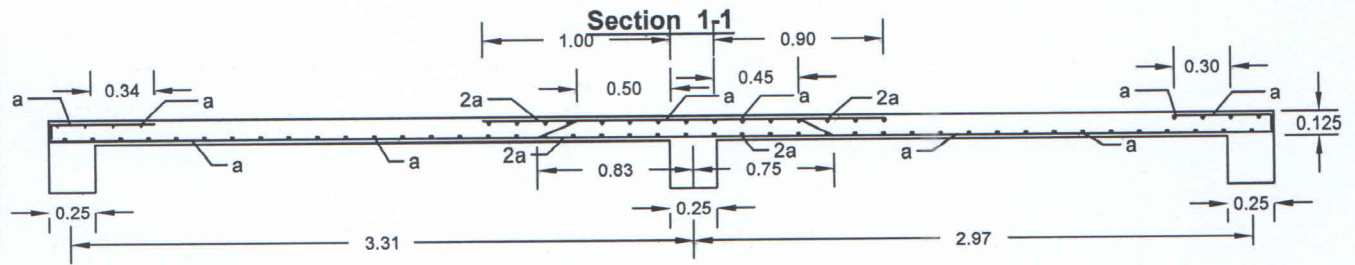
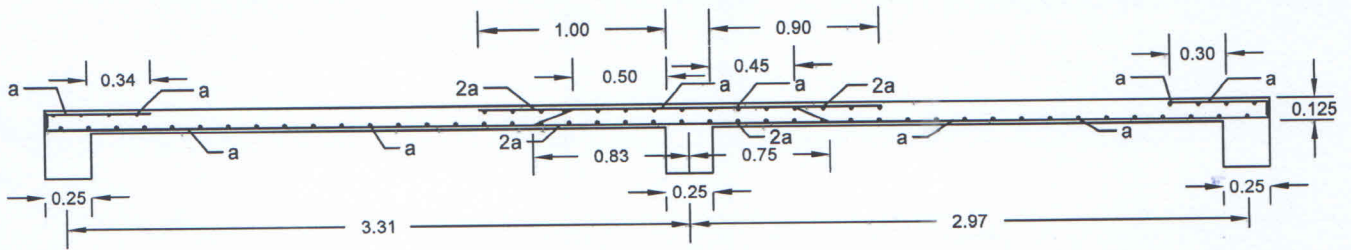
**BUILDING NAME :
PMAY HFA
OPTION 1
RCC BUILDING
FLAT ROOF
ZONE V**

DETAIL OF PLINTH /ROOF BEAM

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Section 4-4

- Clear cover for slab should be 20mm.
- All dimensions are in meter

SCHEDULE OF BARS
a. 8 mm Ø @ 150 mm c/c

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DRG. No. - NIT/CED/2017/PMAY - OP1 RCC-FR Z-V/DWG-4

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

**BUILDING NAME:
PMAY HFA OPTION 1
RCC BUILDING
FLAT ROOF ZONE V**

**DRAWING TITLE:
SLAB DETAILS**

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