FLOOR PLAN DETAIL

Schedule of Door & Windows

<table>
<thead>
<tr>
<th>Name</th>
<th>Lintel</th>
<th>Width</th>
<th>Sill M</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>2.10</td>
<td>0.90</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>D2</td>
<td>2.10</td>
<td>0.75</td>
<td>--</td>
<td></td>
</tr>
<tr>
<td>W1</td>
<td>2.10</td>
<td>1.50</td>
<td>0.90</td>
<td></td>
</tr>
<tr>
<td>W2</td>
<td>2.10</td>
<td>1.20</td>
<td>0.90</td>
<td></td>
</tr>
<tr>
<td>W3</td>
<td>2.10</td>
<td>0.90</td>
<td>0.90</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>2.10</td>
<td>0.60</td>
<td>1.80</td>
<td></td>
</tr>
</tbody>
</table>

NOTES:-
Clear height of DU = 2.85 m
Earthquake resistance structure as per site condition
* All the Dimensions in m

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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
- Lap length and development length (Ld) for 8 mm φ is 400 mm
- Second class brick must be used
- Mortar 1:5 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.
- Refer DWG-2 to DWG-5 for earthquake resistance and structural detail.
DETAILED DRAWING OF REINFORCEMENT
OF BEAMS AT PLINTH/ROOF LEVEL

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

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-3-RCC-SR Z-V/DWG-3
NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR
BUILDING NAME: PMAY HFA
OPTION 3
RCC BUILDING
SLOPING ROOF
ZONE V

DETAIL OF PLINTH/ROOF BEAM

DESIGNED BY:
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Dr. Hemant Kumar Vinayak

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ELEVATION OF TRUSS

DRG. No. - NIT/CED/2017/PMAY-OP3-RCC-SR-Z-V/DWG-4

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR

BUILDING NAME: PMAY HFA
OPTION 3
REINFORCED CONCRETE BUILDING
SLOPING ROOF
ZONE V

DRAWING TITLE:
ELEVATION OF TRUSS

DESIGNED BY:
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Dr. Hemant Kumar Vinayak

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Assistant Professor
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Dr. Pardeep Kumar
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Civil Engineering Department
NIT, Hamirpur (H.P.-177005)
All dimensions are in mm unless specified.
Dimensions are not to be scaled out, only written dimensions may be taken as correct.
Grade of concrete M:20.
Any discrepancy in structural Drawings should be correlated with Architectural drawing.
Scale: Not to scale
Truss has been designed for 0.3m snow depth.

Typical Details of Weld Length


National Institute of Technology Hamirpur

Building Name:
PMAY HFA
Option 3
Reinforced Concrete Building
Sloping Roof
Zone V

Drawing Title:
Cross Section of Truss

Designed By:
Dr. Pardeep Kumar
Dr. Hemant Kumar Vinayak