


CONSTRUCTION OF FOOD SCIENCE LABORATORY

STRUCTURAL DRAWING

PROJECT:PROPOSED FACILITIES AT COLLEGE OF NATURAL RESOURCES IN THE 12TH FIVE YEAR PLAN							NORTH	NOTES	DATE	SCALE	DRAWING NO	
FUNDED BY:GOVERNEMENT OF INDIA / GNH COMMISSION.		COLLEGE OF NATURAL RESOURCES www.cnr.edu.bt www.rub.edu.bt	DESIGNED AND DRAWN BY:	ENDORSED BY:	APPROVED BY:		<div>ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE</div> <div>ALL RELATIVE LEVELS ARE IN METERS UNLESS SPECIFIED OTHERWISE</div> <div>ALL DIMENSIONS MEASURE UNFINISHED SURFACES UNLESS SPECIFIED OTHERWISE</div> <div>ALL DIMENSIONS ARE TO BE READ AND NOT SCALED OFF</div> <div>ANY DISCREPANCY IN DRAWING IS TO BE BROUGHT TO THE IMMEDIATE NOTICE OF THE CONSULTANT'S/SUPERVISION TEAM</div> <div>MINOR ADJUSTMENTS NEED TO BE CARRIED OUT ON SITE TO MATCH WITH EXISTING BUILDING</div>			1:1		
DRAWING NAME: FOOD SCIENCE LABORATORY			YADAV DHUNGANA Email: yadav0718@cnr.edu.bt Phone:17525823	PRESIDENT COLLEGE OF NATURAL RESOURCES, ROYAL UNIVERSITY OF BHUTAN, LOBEYSA	PUNAKHA DZONGKHAG							
LOCATION: LOBEYSA, PUNAKHA, BHUTAN.												
								PLOT NO:				
								THARM NO:				
								DRAWING TITLE: COVER PAGE - STRUCTURAL				

A. General:

ALL DIMENSIONS ARE IN "millimetres" UNLESS OTHERWISE SPECIFIED
ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS
DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWINGS UNDER ANY CIRCUMSTANCES
ALL MATERIALS TO BE USED FOR CONSTRUCTION SHALL BE SQCA APPROVED BRANDS UNLESS OTHERWISE SPECIFIED

B. Technical Datas:

Grade of Concrete : M20
Grade of Reinforcing Bars : TMT Fe415
Safe Bearing Capacity of Soil : 100KN/m² (if abnormal soil condition exists, consult the Design Engineer)

C. Unit Weight of Materials

Reinforced Cement Concrete : 25 KN/m³
Plain Cement Concrete : 22 KN/m³
Brick Masonry : 20 KN/m³
Stone Masonry : 24 KN/m³
Timber : 7.0 KN/m³
Structural Steel : 78.5 KN/m³
Fresh snow : 1.8 KN/m³
Compacted snow : 5.0 KN/m³

D. Loadings for structural design:

► Dead Loads:

Derived from the above unit weights

► Live Loads:

1. School Buildings:

Dromitory, Rooms : 4.0 KN/m²
Staircases, Corridors, Toilets & Bathrooms & Stores : 3.0 KN/m²

2. Roofs: Less than 10° slope

Inaccessible roofs : 0.75 KN/m²
Accessible roofs : 1.50 KN/m² (for slope > 10°, minus 2KN/m² for each degree increase from 10°)

► Wind Loads:

Wind Velocity : 44 m/s or Basic Wind Pressure : 1.5 KN/m²

► Seismic Loads:

As per IS 1893-1993
Zone Factor : 0.36
Medium Soil Sites
Importance Factor : 1.5
Response Reduction Factor : 5.0

E. Load Combinations:

1. For Reinforced Concrete Structures:

1.5 (Dead Loads + Imposed Loads)
1.2 (Dead Loads + Imposed Loads ± Seismic Loads)
1.5 (Dead Loads + Seismic Loads)
0.9 (Dead Loads) ± 1.5(Seismic Loads)

F. Nominal Covers to Steel Reinforcement:

For fire resistance between 2 to 3 hours

● Bottom Covers:

Beams : 40mm
Slabs : 35mm
Columns : 40mm or not less than Ø of bar
Footings : 50mm (minimum)

● Side Covers:


Beams : 25mm
Slabs : 15mm
Columns : 40mm or not less than Ø of bar
Footings : 40mm

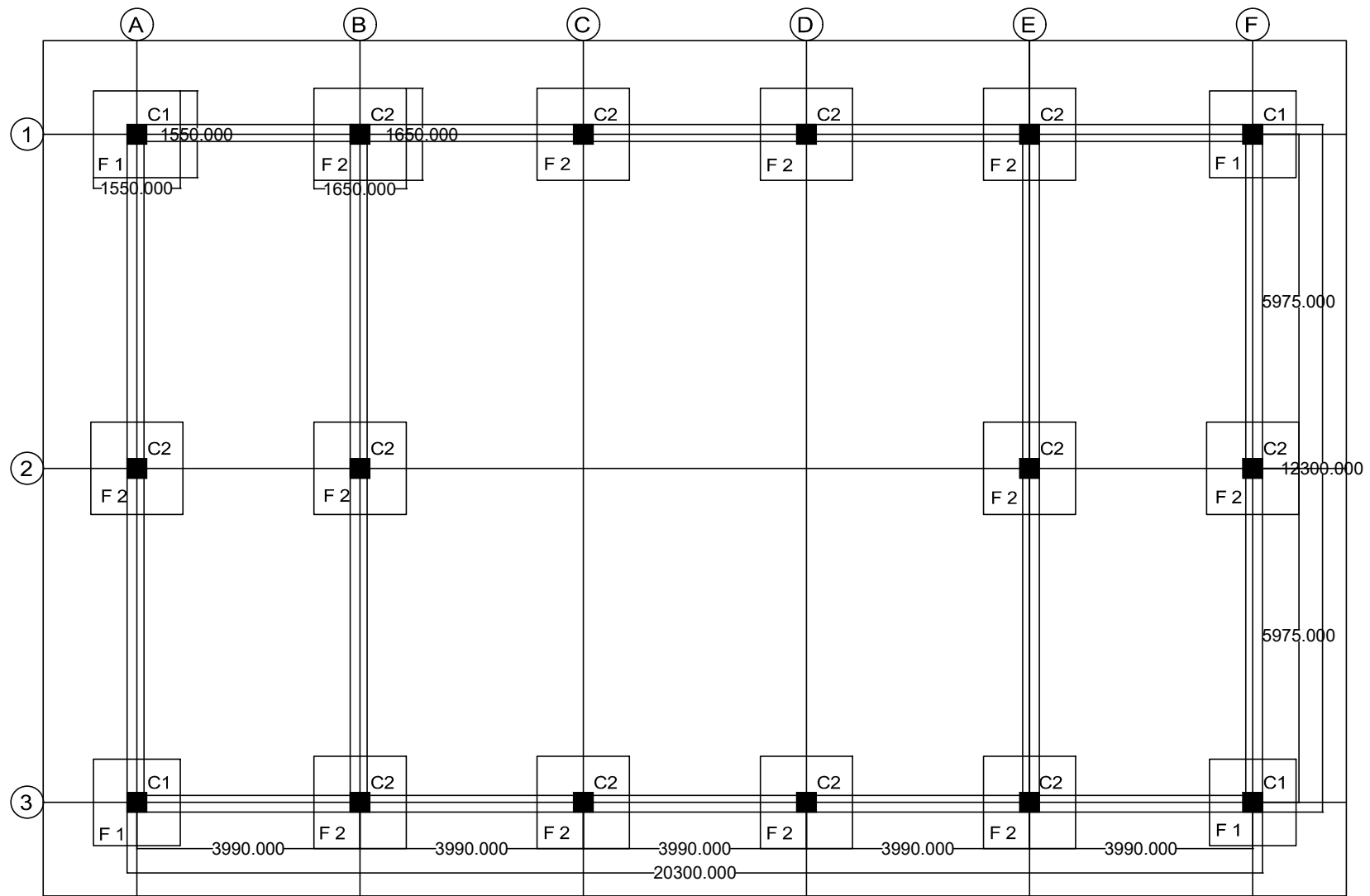
G. IS Codes Referred:

IS 456 : 2000 - Plain and Reinforced Concrete
IS 875 (part 1 to 5) : 1987 - Design Loads (Other than earthquake) for Buildings and Structures
IS 1983 (part 1) : 2002 - Criteria for Earthquake Resistant Design of Structures
IS 4326 : 1993 - Earthquake Resistant Design & Construction of Buildings
IS 13920 : 1993 - Ductile Detailing of RC Structures subjected to Seismic Forces
NUDC/002/1985 - Manual for Timber Engineering Design, RGoB


► Special Notes (For Framed RC Structures):

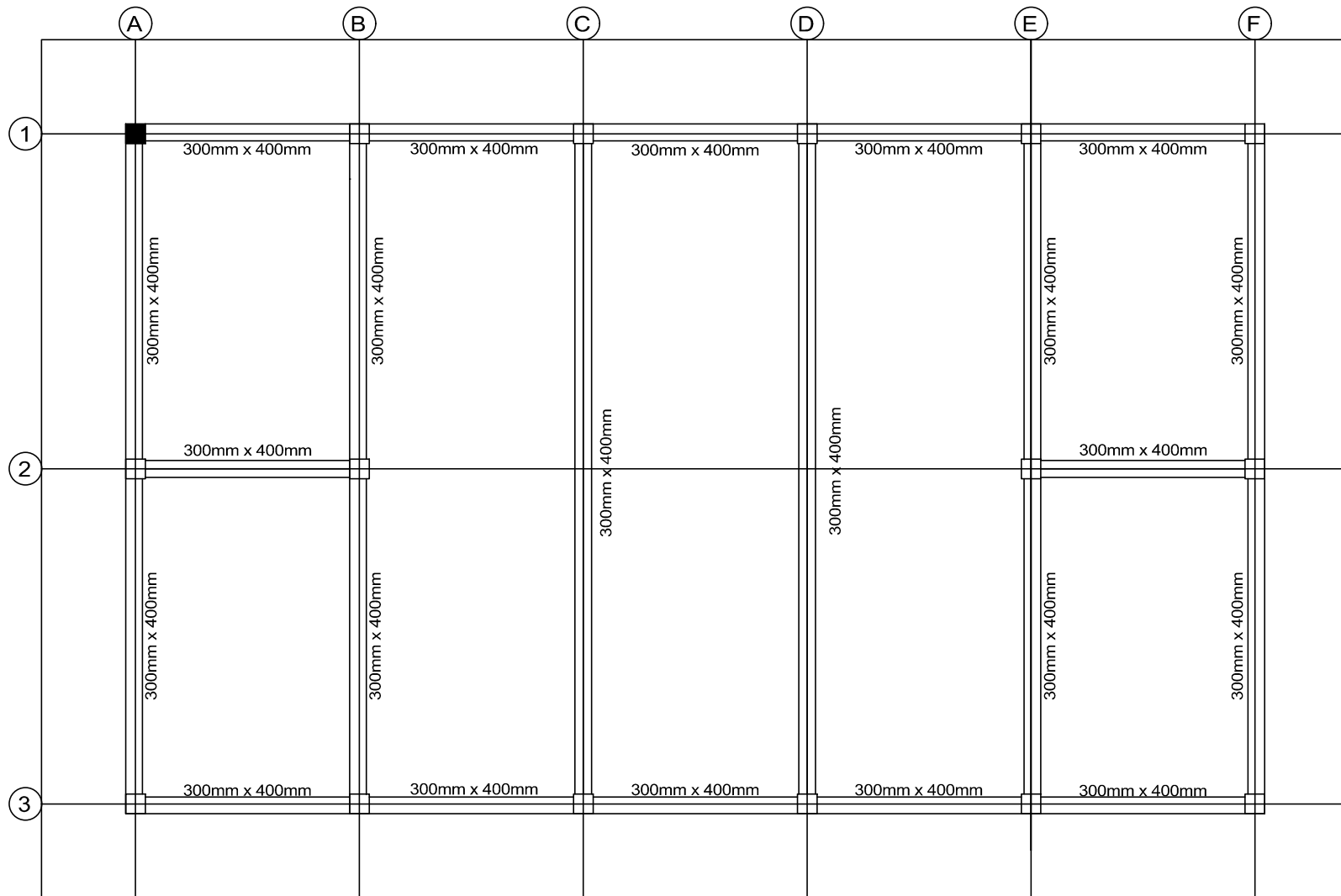
- All foundations shall be laid on well compacted and levelled soil.
- Stirrups shall be provided with 135° hooks with 10Ø extension at each end embedded in concrete
- Splicing in beams shall not be provided within a distance of 2D from the joint face and not in mid span at bottom
- Not more than 50% of the bars shall be spliced at a section
- Spacing of stirrups shall not exceed 150mm c/c in the splice region.
- Lap splices for column reinforcement shall be provided only in the centre half of the member.

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DRAWING NAME: FOOD SCIENCE LABORATORY		YADAV DHUNGANA Email: yadav07@cnr.edu.bt Phone:17525823	PRESIDENT COLLEGE OF NATURAL RESOURCES, ROYAL UNIVERSITY OF BHUTAN, LOBEYSA	PUNAKHA DZONGKHAG							
LOCATION: LOBEYSA, PUNAKHA, BHUTAN.											




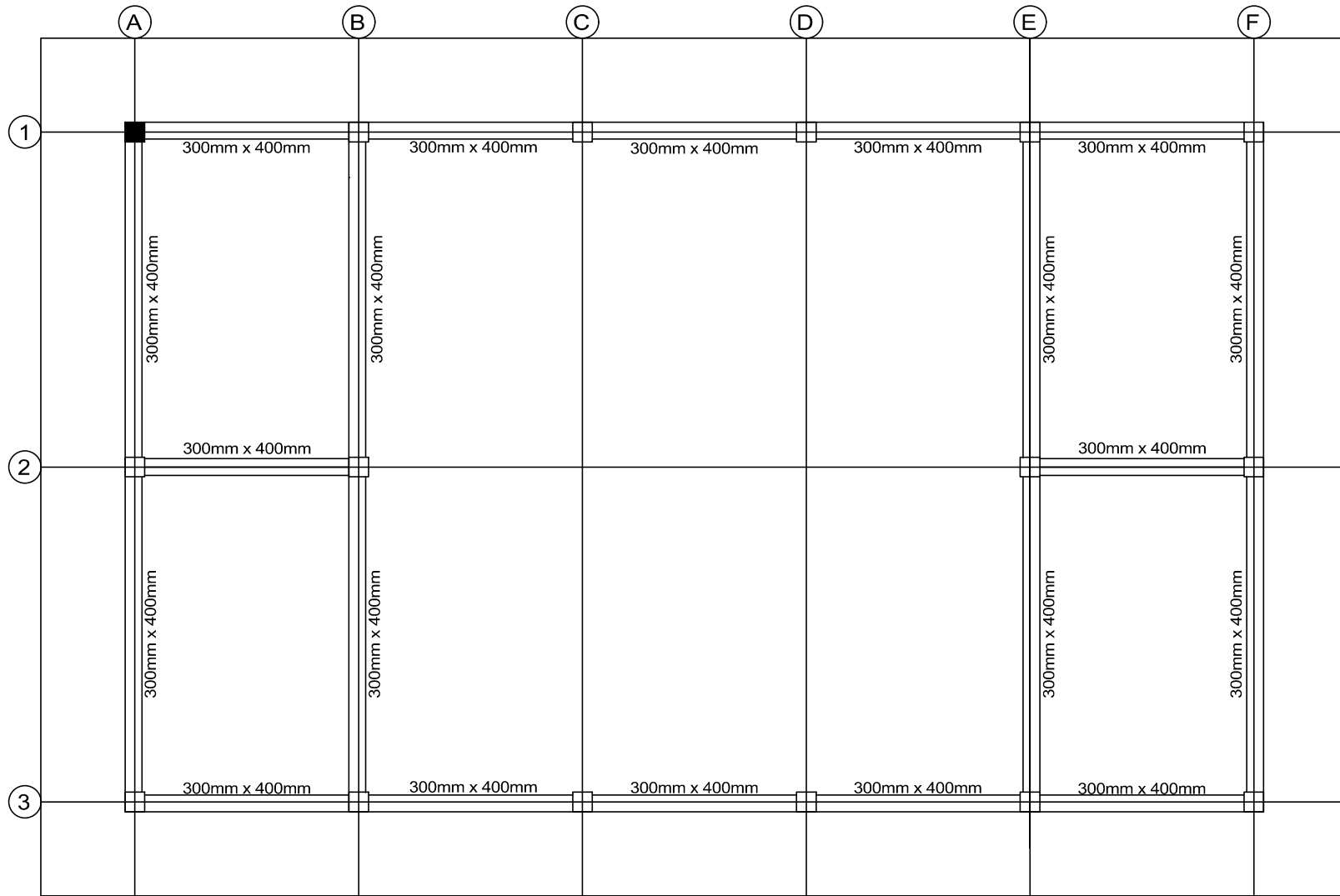
FOUNDATION LAYOUT

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DRAWING NAME: FOOD SCIENCE LABORATORY									
LOCATION: LOBEYSA, PUNAKHA, BHUTAN.									




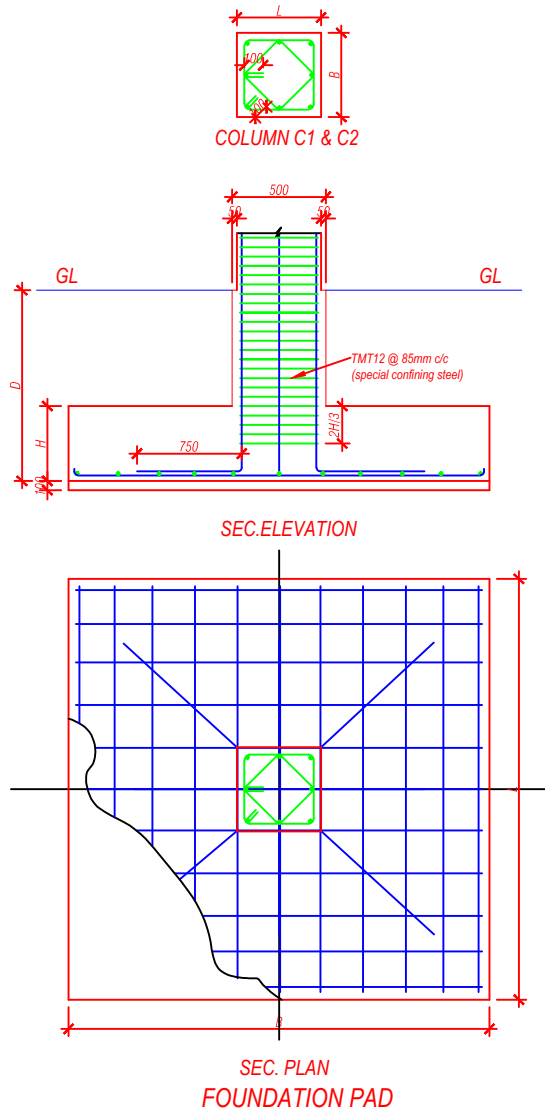
PLINTH BEAM LAYOUT

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LOCATION: LOBEYSA, PUNAKHA, BHUTAN.					THARM NO:						



FIRST FLOOR BEAM LAYOUT

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		YADAV DHUNGANA Email: yadav0178@cnr.edu.bt Phone:17525823	PRESIDENT COLLEGE OF NATURAL RESOURCES, ROYAL UNIVERSITY OF BHUTAN, LOBEYSA	PUNAKHA DZONGKHAG					
DRAWING NAME: FOOD SCIENCE LABORATORY				PLOT NO:			DRAWING TITLE: FIRST FLOOR BEAM LAYOUT		
LOCATION: LOBEYSA, PUNAKHA, BHUTAN.				THARM NO:					




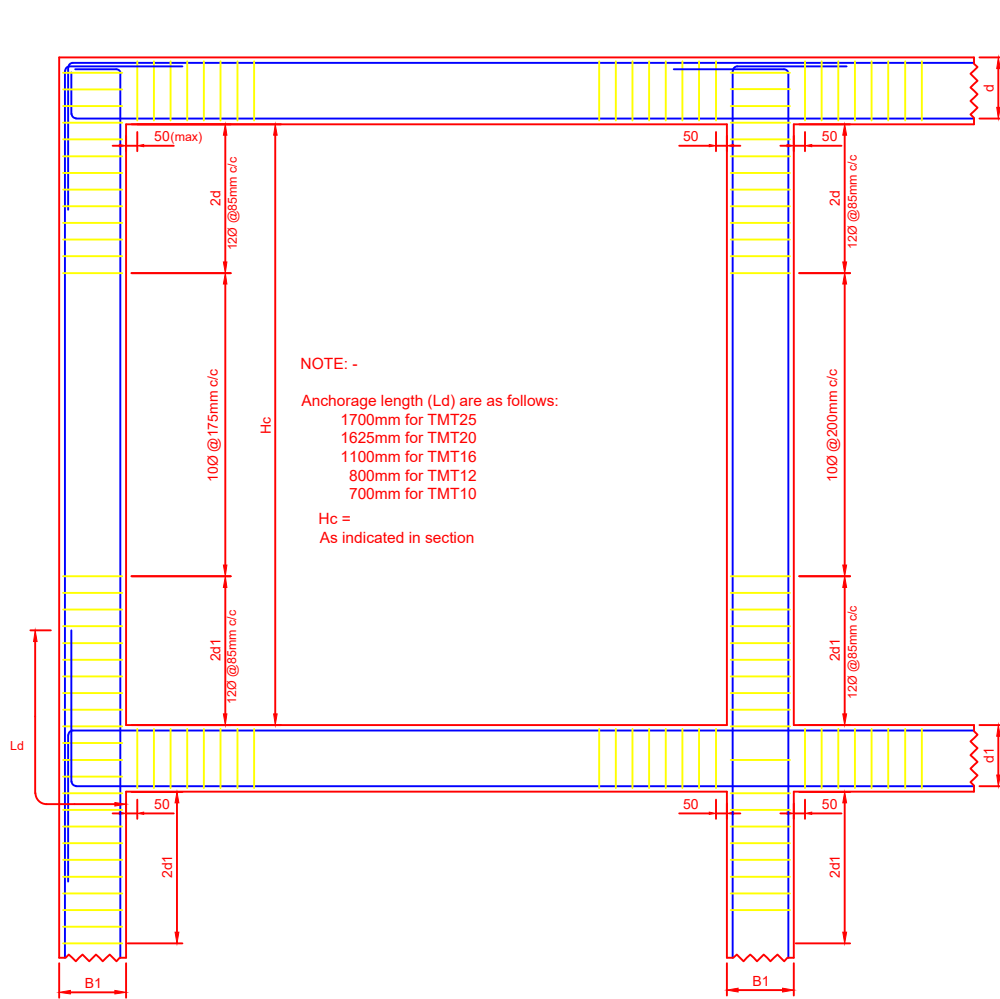
SCHEDULE FOR COLUMNS

COLUMN NUMBER	COLUMN SIZE L x B (mm)	REINFORCEMENTS	STIRRUP SPACING (mm)
COLUMN C1	350 x 350	8-TMT20Ø	TMT12Ø @85 c/c TMT10Ø @175 c/c
COLUMN C2	350 x 350	8-TMT16Ø	TMT12Ø @85 c/c TMT10Ø @175 c/c

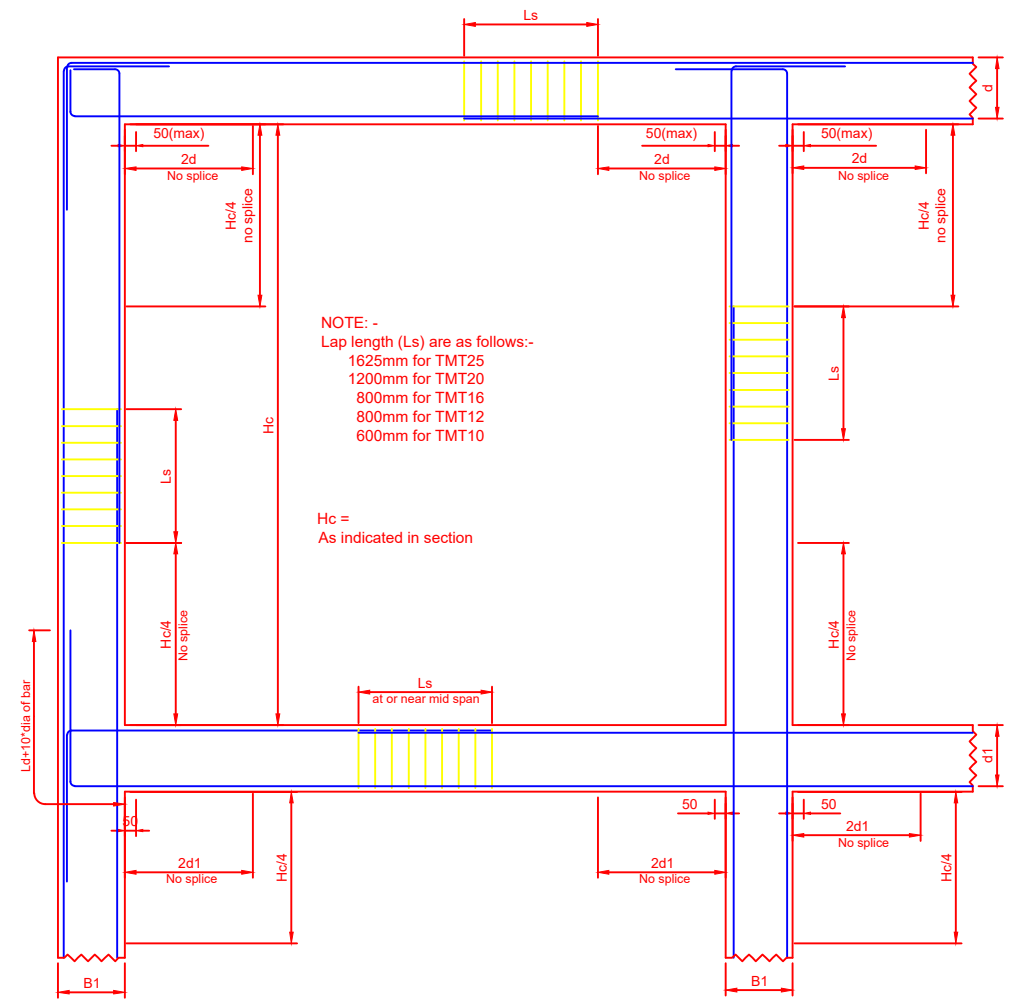
SCHEDULE FOR FOUNDATION PADS

PAD NUMBER	FOUNDATION SIZE L x B x H (mm)	REINFORCEMENTS	FOUNDATION DEPTH D (mm)	REMARKS
F 1	1550 x 1550 x 275	TMT12Ø @ 150mm c/c bothways	1500	Under all the foundation footings, provide 100mm lean concrete (1:3:6) as levelling concrete
F 2	1650 x 1650 x 300	TMT12Ø @ 150mm c/c bothways	1500	
GENERAL NOTES: <div>1. Grade of concrete : M20 2. Type of steel : Fe415 3. Cover to main footing steel : 50mm (min) 4. Cover to column steel : 40mm (min)</div>			<div>5. Laps to be staggered. 6. Min. foundation depth : 1500mm from GL.</div>	


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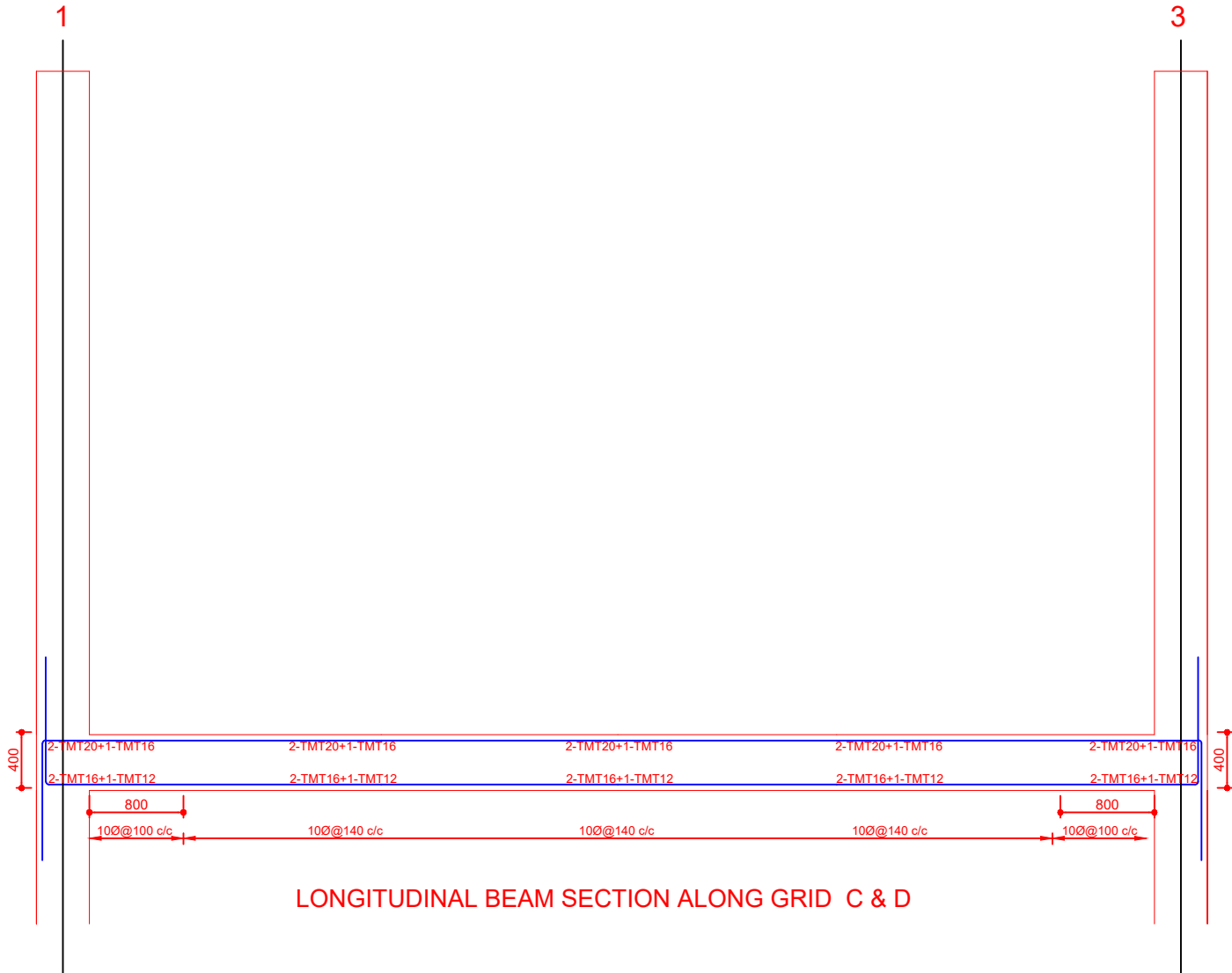



DUCTILE DETAILING IN BEAMS AND COLUMNS

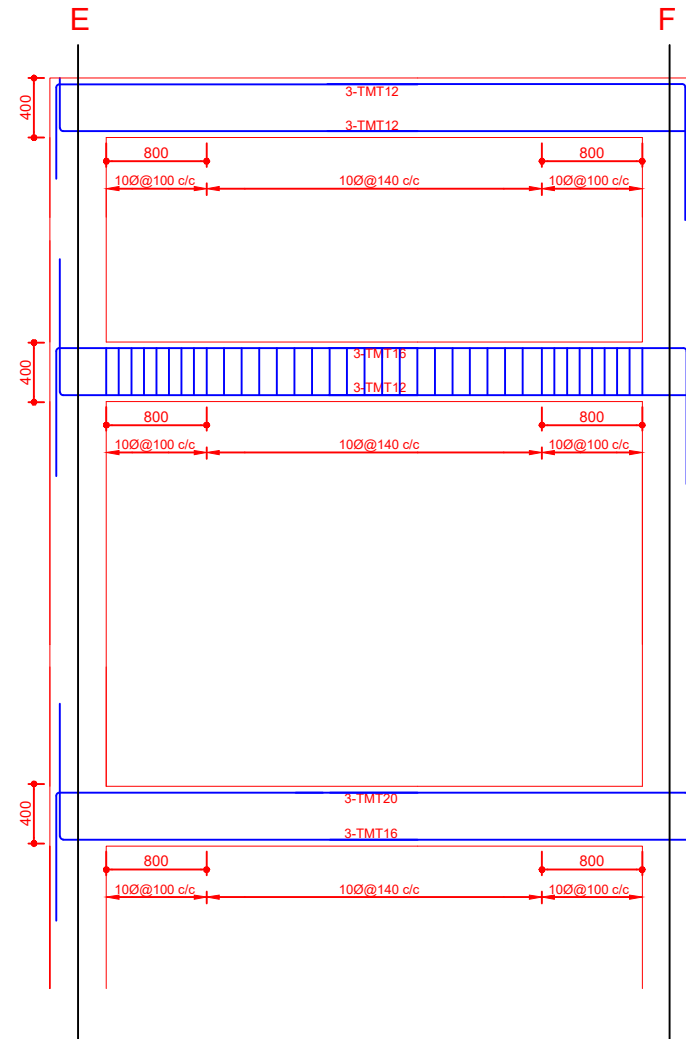
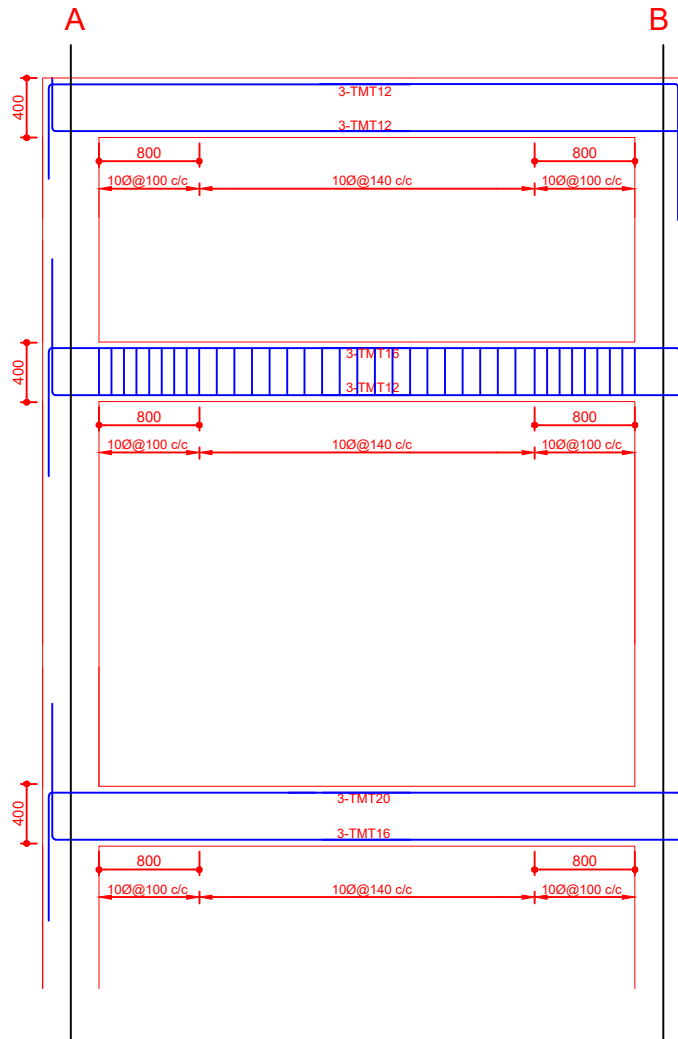


SPLICING IN BEAMS AND COLUMNS


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DRAWING NAME: FOOD SCIENCE LABORATORY						PLOT NO:		DRAWING TITLE: DUCTILE AND SPLICING DETAILS		
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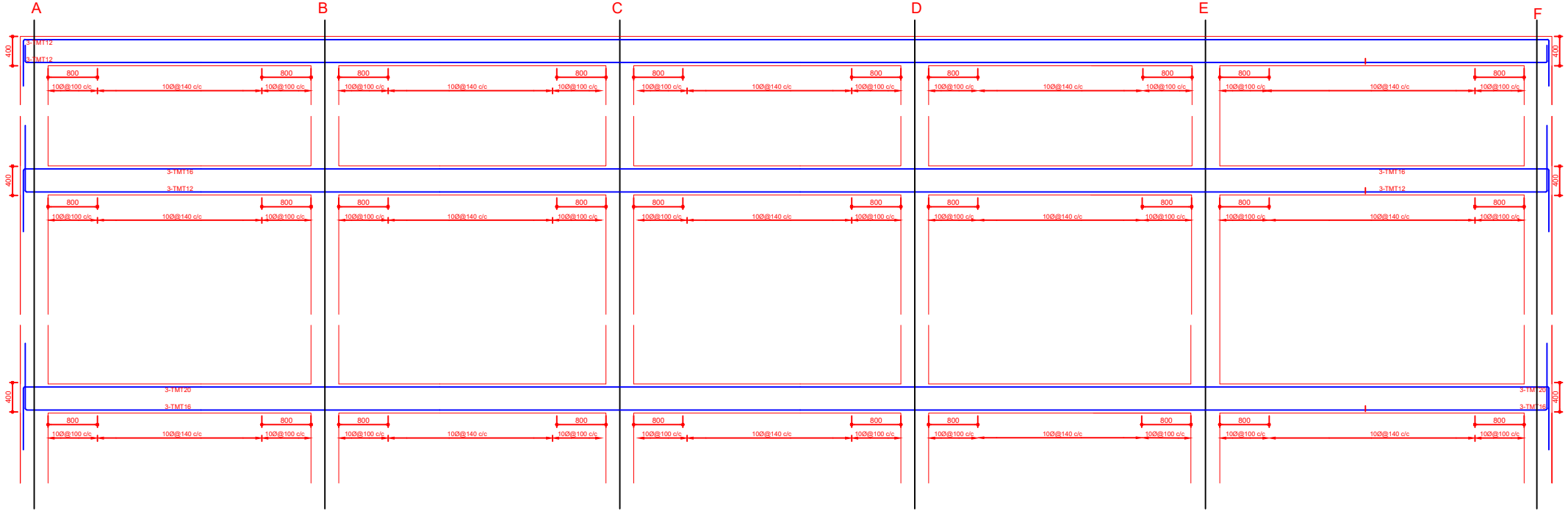


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LONGITUDINAL BEAM SECTION ALONG GRID 2

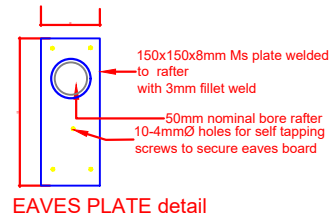
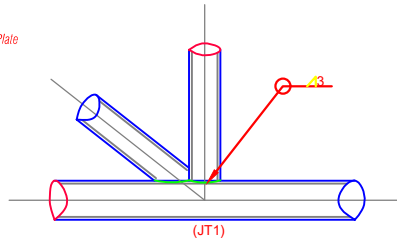
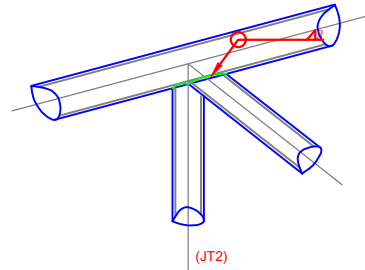
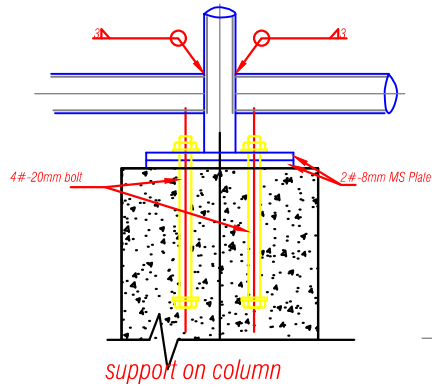
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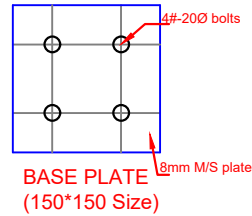
LONGITUDINAL BEAM SECTION ALONG GRID 1 & 3

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NOTES:
Tubular steel of YST22 grade to be used.
All connections to be with fillet weld of 3mm size
Purlin 40mm nominal bore, medium gauge @1200c/c




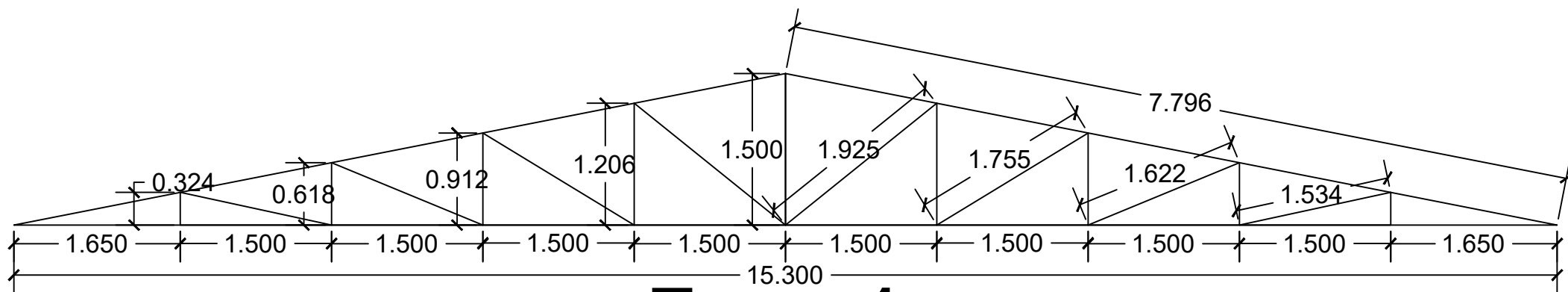
EAVES PLATE detail



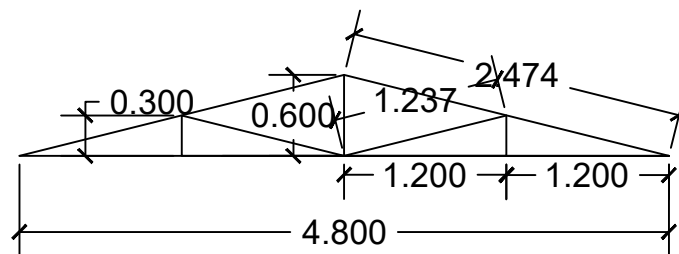
BASE PLATE
(150*150 Size)

	V/Strut	I/Strut	Rafter	Bottom Chord
T1	32M	32M	50M	50M

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DRAWING NAME: FOOD SCIENCE LABORATORY						DRAWING TITLE: TRUSS DETAILS				
LOCATION: LOBEYSA, PUNAKHA, BHUTAN.										



Truss 1



Truss 2

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