

STRUCTURAL DRAWINGS FOR PROPOSED FUEL
RETAIL OUTLET, G+J STORIED SALES BUILDING
AND OTHER STRUCTURES.

LOCATION: DECHEN LAM, TABA, THIMPHU
THROMDE.

OWNER: STATE TRADING CORPORATION OF
BHUTAN LTD. THIMPHU

OFFICE: FLAT NO 8,GONGDZIN LAM ABOVE 8/11 CONVENIENT STORE NEXT TO THIMPHU THROMDE BUILDING THIMPHU:BHUTAN	
PROJECT:	
TITLE:	FUEL RETAIL OUTLET
LOCATION:	DECHEN LAM, TABA
OWNER:	STCBL
PLOT ID:	LTA1-101
CERTIFICATE NO:	THM-211-78
FLOORS:	G+J STRUCTURE
OWNER SIGNATURE	
DESIGNED BY:	
SUGAN PRADHAN (GENERAL MANAGER, PETROLEUM DIVISION) CIVIL ENGINEER STCBL, THIMPHU	
DRAWING TITLE:	
STRUCTURAL DRAWING	
DATE: APRIL 2021	
SCALE: NTS	
DRAWING	
SHEET NO : ST/00	
REVISION SUFFIX	NORTH
<div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div></div>
GENERAL NOTE:	
<div><div>• ALL DIMENSIONS ARE IN METERS (FEETS) UNLESS SPECIFIED OTHERWISE.</div><div>• ALL DIMENSIONS MEASURE UNFINISHED SURFACES UNLESS SPECIFIED OTHERWISE.</div><div>• ALL DIMENSIONS ARE TO BE READ AND NOT SCALE OFF.</div><div>• ANY DISCREPANCY IN DRAWING IS TO BE BROUGHT TO THE IMMEDIATE NOTICE OF THE ARCHITECT AND THE ENGINEER.</div></div>	

**OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN**

TITLE:	FUEL RETAIL OUTLET
LOCATION:	DECHEN LAM, TABA
OWNER:	STCBL
PLOT ID:	LTA1-101
CERTIFICATE NO:	THM-211-78
FLOORS:	G+J STRUCTURE

DESIGNED BY:
SUGAN PRADHAN (GENERAL MANAGER, PETROLEUM DIVISION) CIVIL ENGINEER STCBL, THIMPHU

STRUCTURAL DRAWING LAYOUT PLAN

SCALE: 1:100

DRAWING :

SHEET NO : ST/01

REVISION SUFFIX

NORTH



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THIMPHU: BHUTAN

PROJECT:

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OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING
FLOOR PLAN

DATE: APRIL 2021

SCALE: 1:100

DRAWING :

SHEET NO : ST/02

REVISION SUFFIX

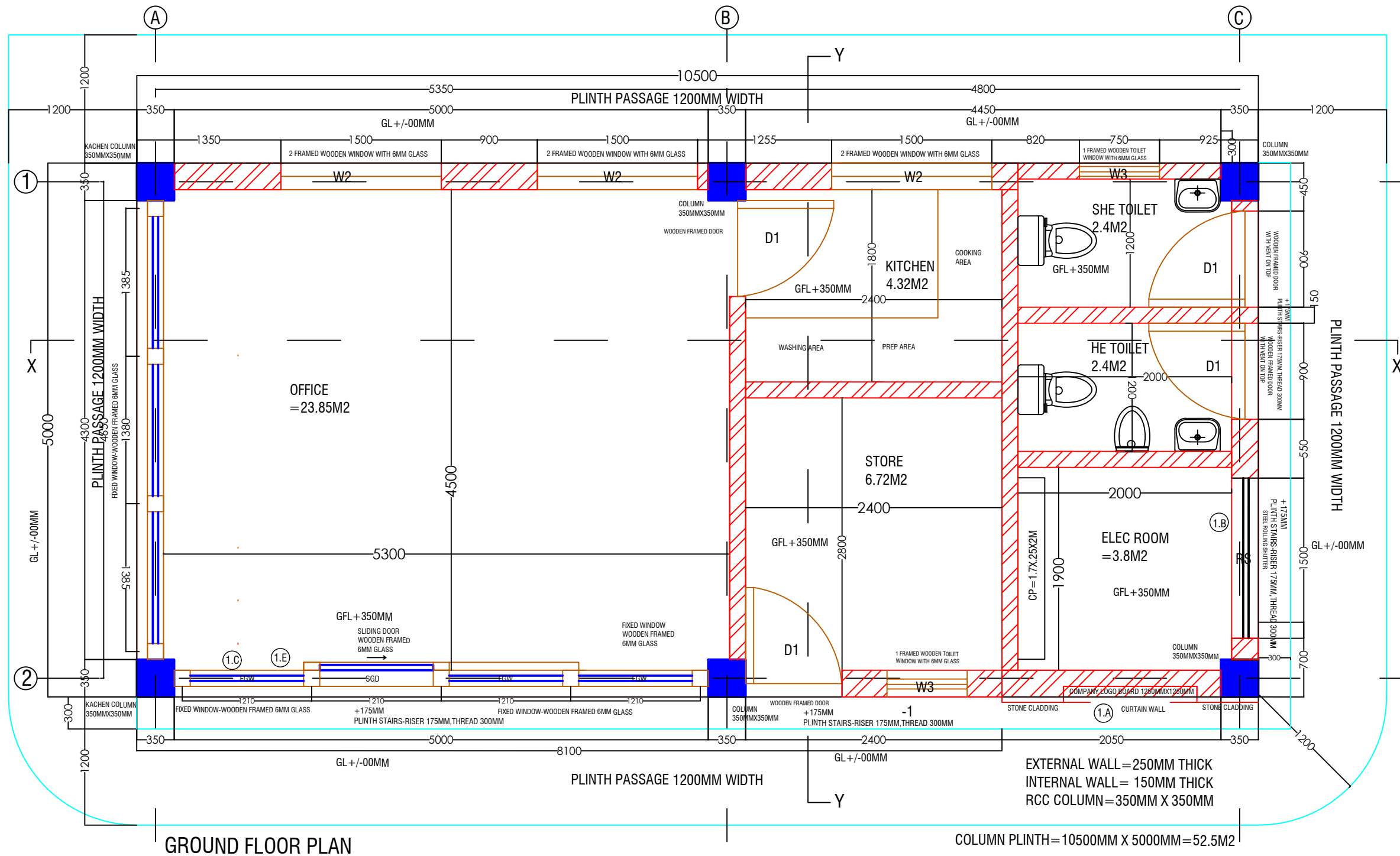
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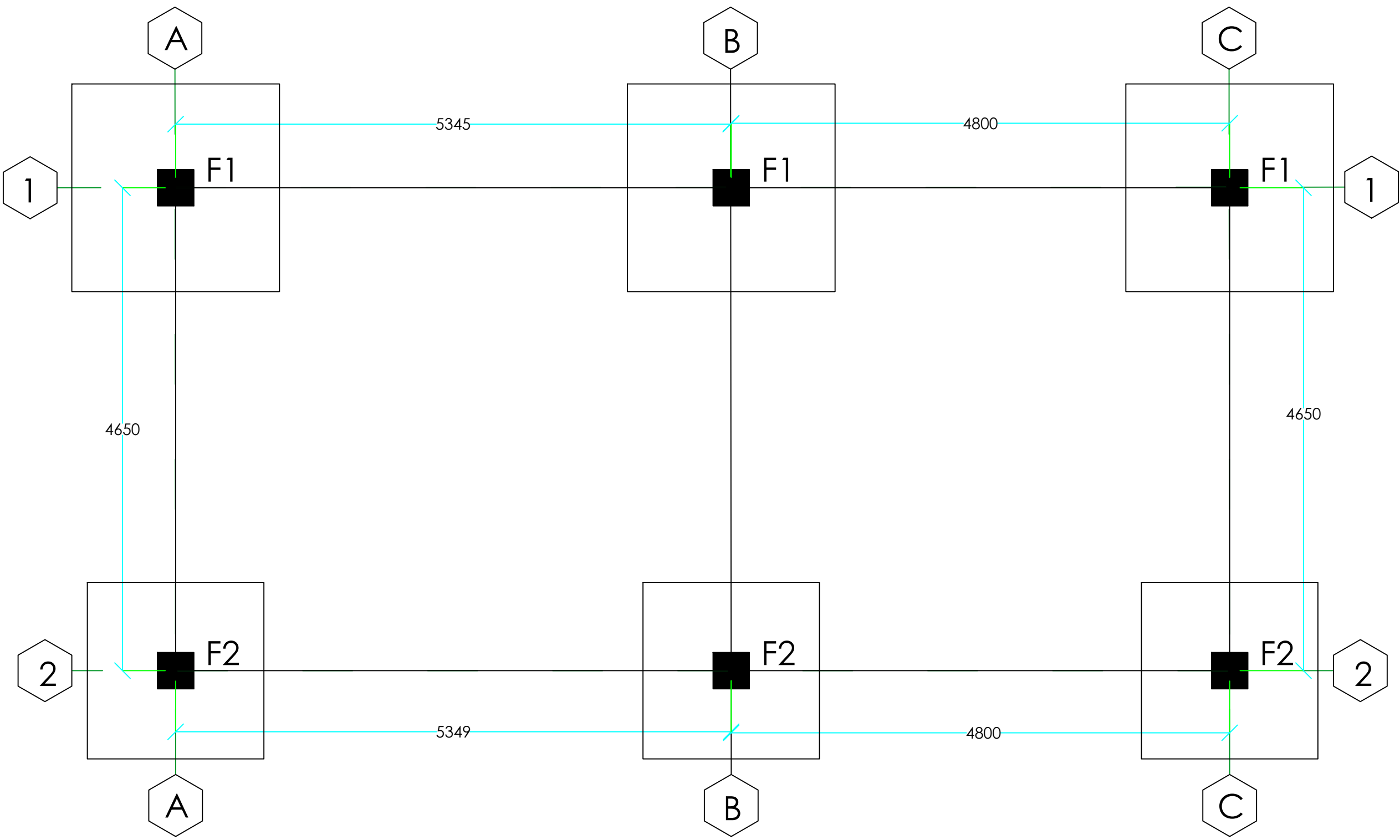
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FOOTING F1 IS 750MM BELOW FOOTING F2

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FLOORS: G+J STRUCTURE

OWNER SIGNATURE

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(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU
DRAWING TITLE:

STRUCTURAL DRAWING
FOOTING LAYOUT

DATE: APRIL 2021

SCALE: NTS

DRAWING
SHEET NO : ST/03

REVISION SUFFIX	NORTH
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CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING FOOTING DETAILS

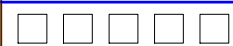
DATE: APRIL 2021

SCALE: NTS

DRAWING
SHEET NO : ST/04

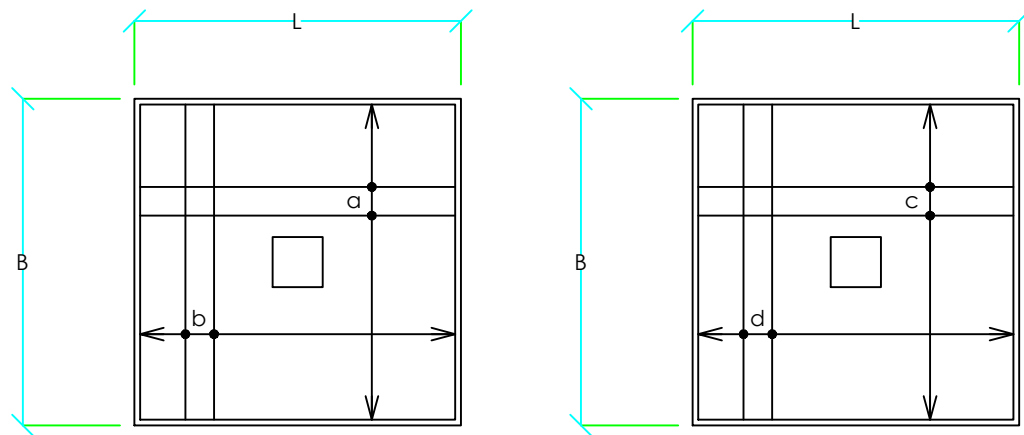
REVISION SUFFIX

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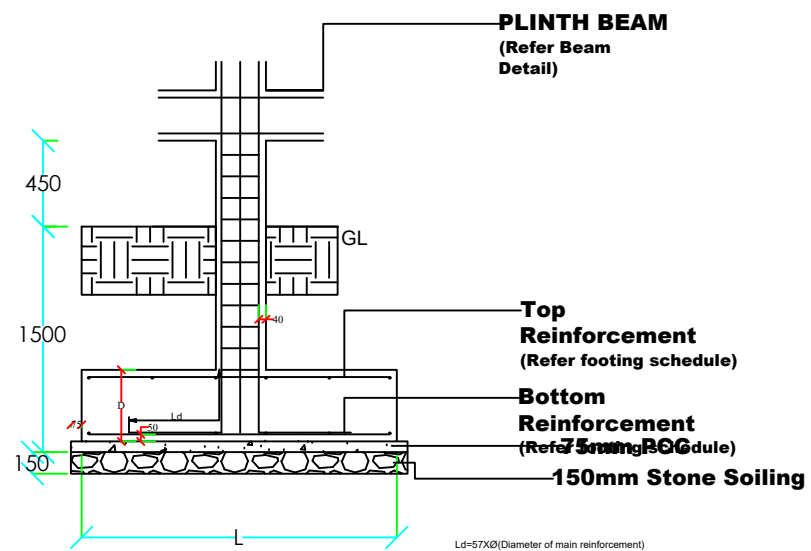
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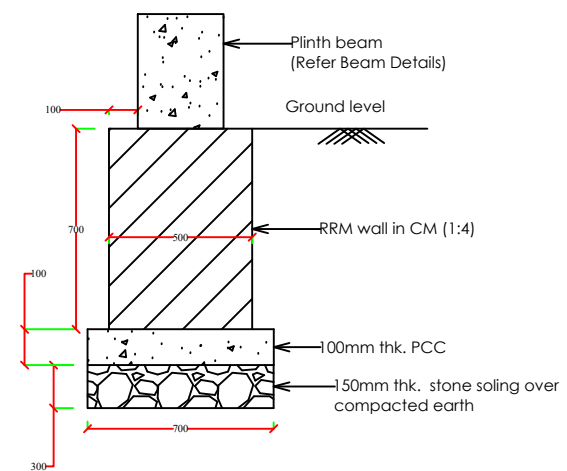


BOTTOM REINFORCEMENT

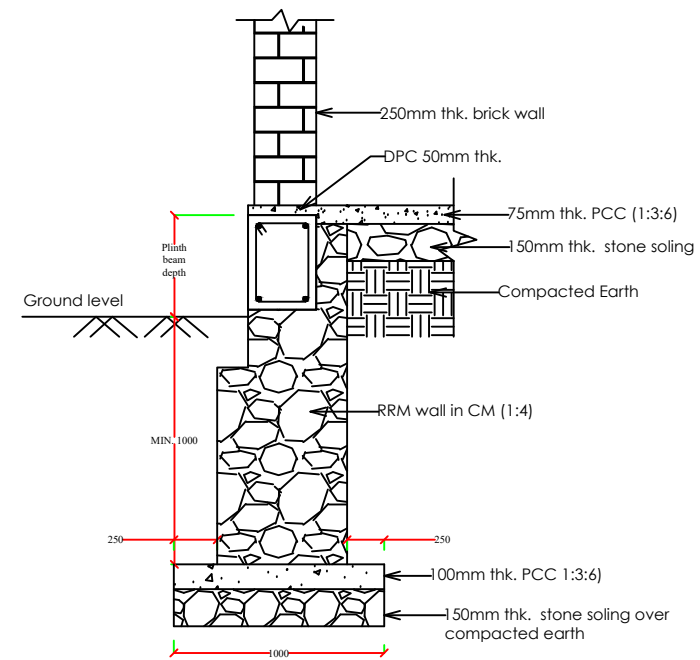
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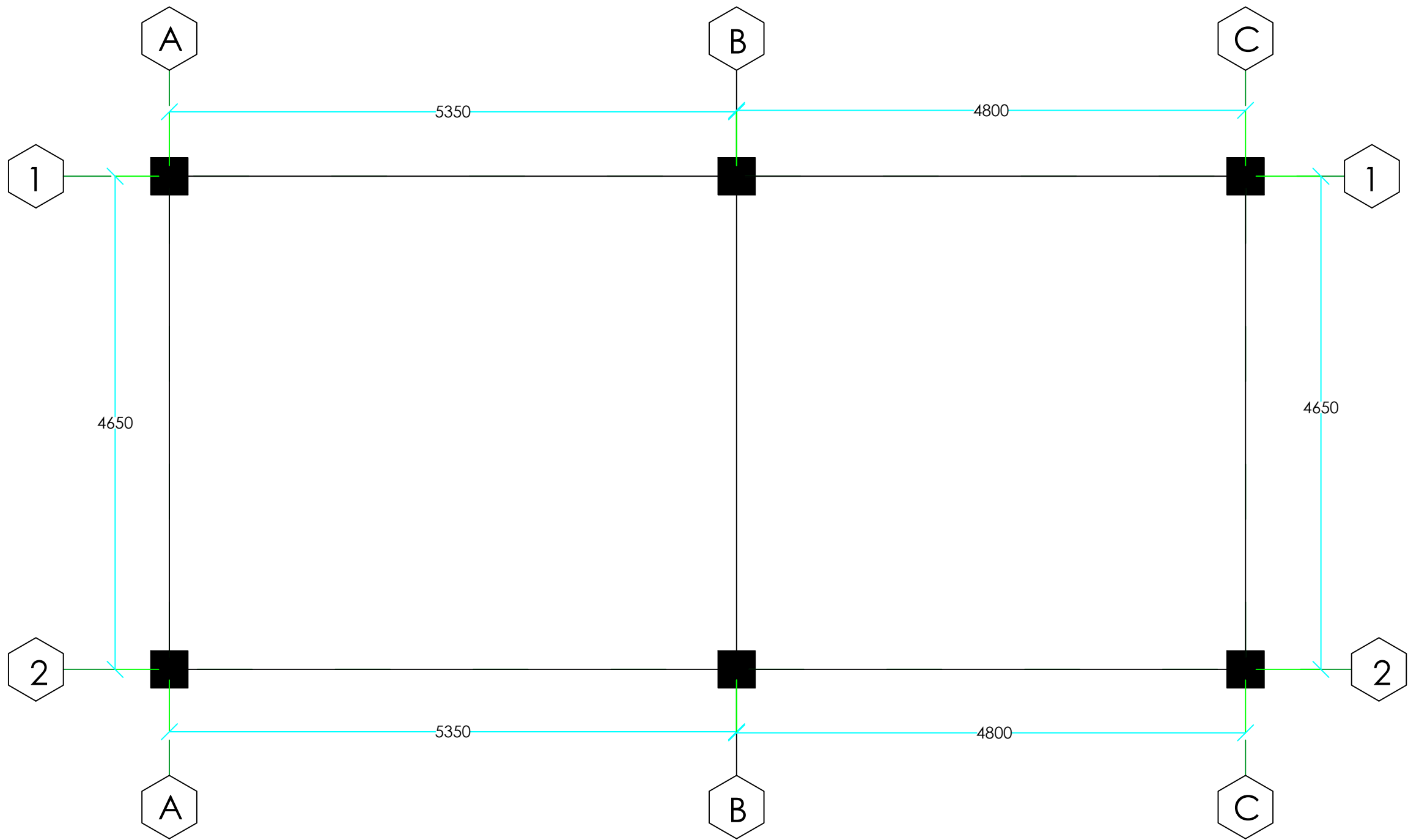


**FOUNDATION SECTION DETAIL
BELOW PLINTH BEAM
(INTERNAL WALL)**



**FOUNDATION SECTION DETAIL
BELOW PLINTH BEAM
(EXTERNAL WALL)**





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DRAWING TITLE:

STRUCTURAL DRAWING
COLUMN LAYOUT

DATE: APRIL 2021

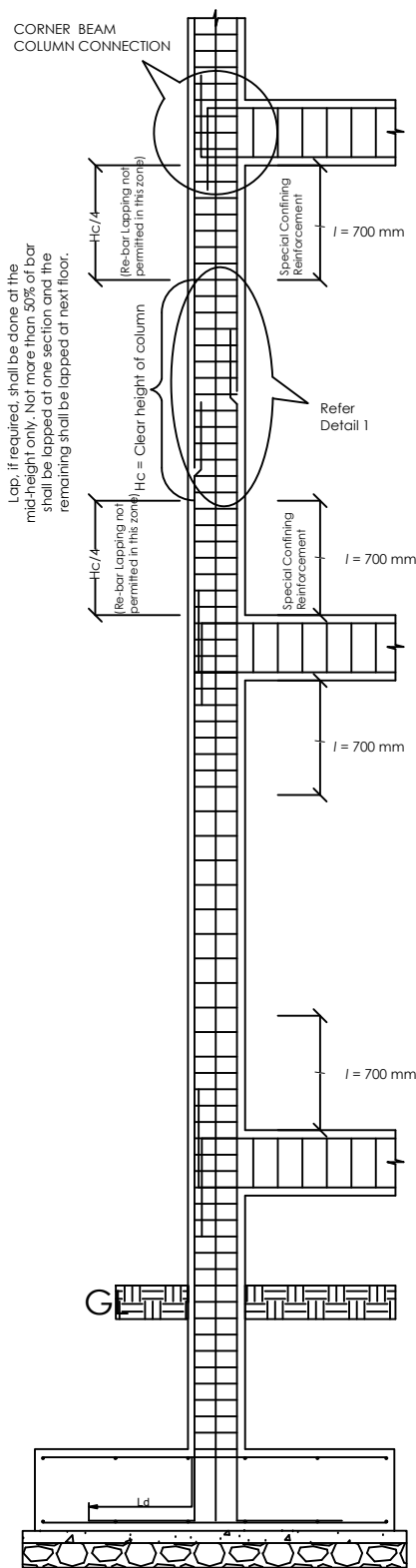
SCALE: NTS

DRAWING
SHEET NO : ST/05

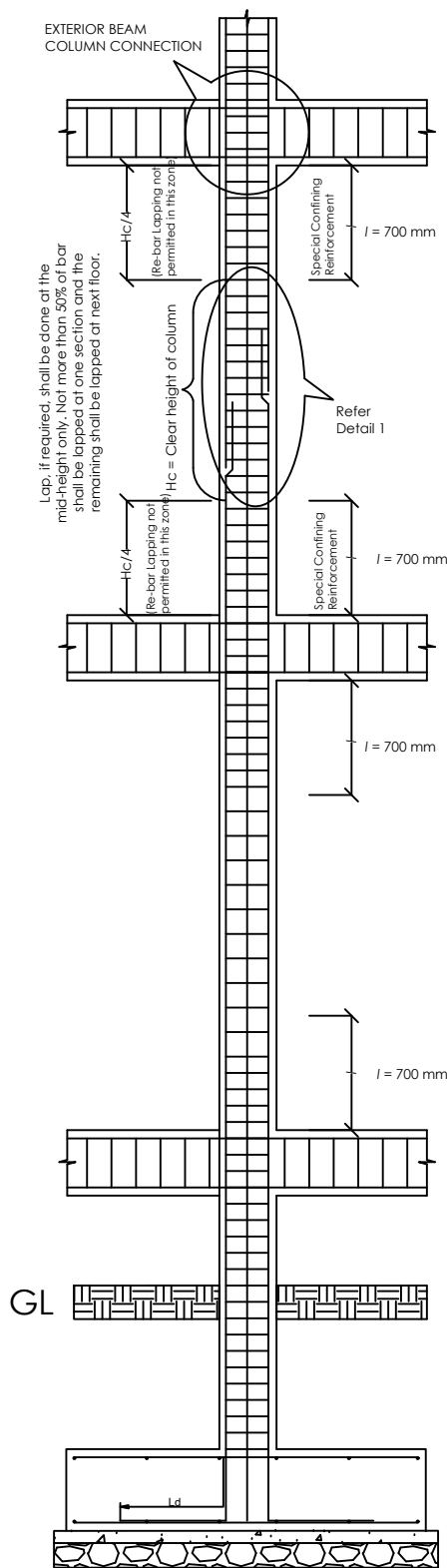
REVISION SUFFIX	NORTH
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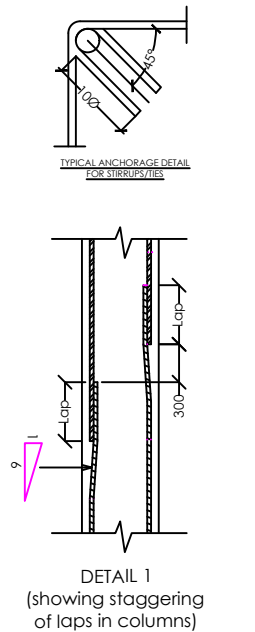
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

TYPICAL SECTION
EXTERIOR(showing typical
arrangement of rebar and
ties in columns)

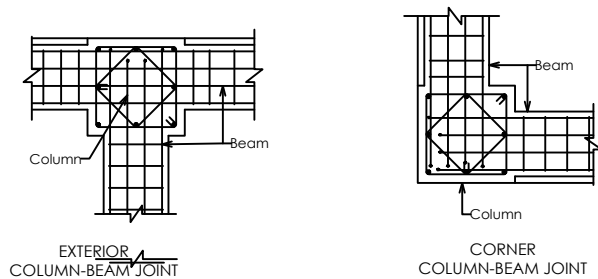


TYPICAL SECTION INTERIOR
(showing typical
arrangement of rebar and
ties in columns)



Bar Diameter	Splice Length (mm)
10Ø	485
12Ø	583
16Ø	777
20Ø	971
25Ø	1214

COLUMN DETAILS				
Column Mark	Column Mark (mm)	MAIN REINFORCEMENT	SHEAR REINFORCEMENT	
		Foundation to Full Height	SHAPE	SPACING
C	350 x 350	 • 4-25Ø		Within height l ST1=8Ø @ 100 c/c Remaining Height ST2=8Ø @ 150 c/c



TYPICAL COLUMN-BEAM JOINT DETAILS

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THIMPHU: BHUTAN

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CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE


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(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU
DRAWING TITLE:

STRUCTURAL DRAWING
COLUMN DETAILS

DATE: APRIL 2021

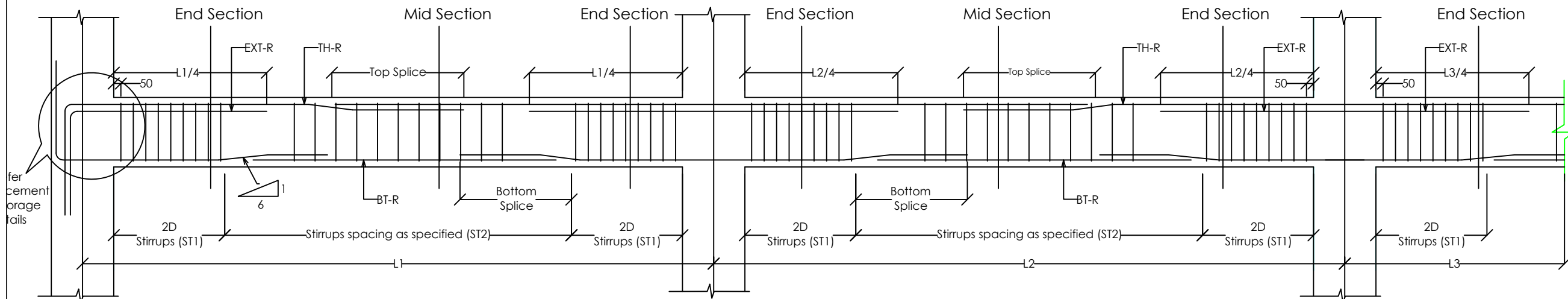
SCALE: NTS

DRAWING
SHEET NO : ST/06

REVISION SUFFIX	NORTH
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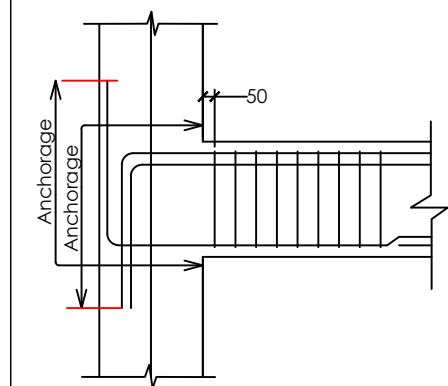
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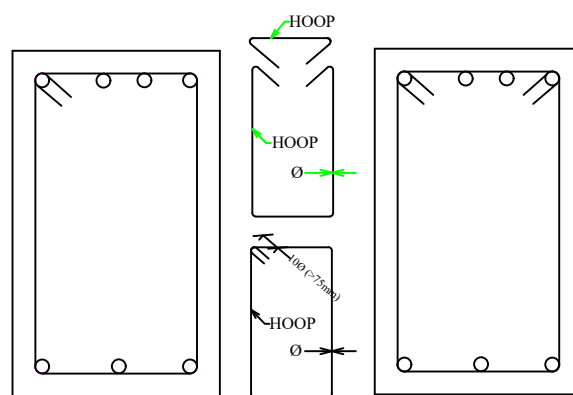
LEGEND:
EXT-R.....Extra re-bars
TH-R.....Through re-bars
BT-R.....Bottom re-bars

TYPICAL ARRANGEMENT OF RE-BARS AND SPLICE DETAILS IN BEAMS



Reinforcement Anchorage Details

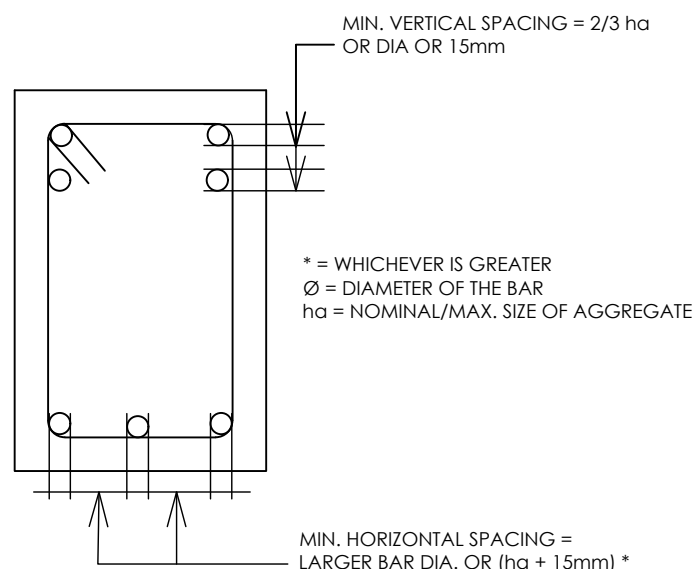
Bar Diameter	Minimum Length (mm)	
	Ld	Anchorage Length
12Ø	684	703
16Ø	912	937
20Ø	1140	1171
25Ø	1425	1464



STIRRUP/HOOP DETAILS

NOTE:

- At junction of two different beams provide EXT-R of higher side from either of the beams
- Lap splice for tension or bottom reinforcement shall not be provided
 - within a joint
 - within a distance of 2D from the joint face or
 - within a quarter length of the member
- The splicing of the compression or top reinforcement shall be near or at the mid-span of the member.
- Not more that 50% of the re-bars shall be spliced at a section.
- The lap length shall not be less than development length in tension.
- Where rebars are lapped, stirrups must be provided to the full lap length at a spacing same as that provided within a distance 2D from the face column.
- The first stirrup should be provided at the distance of 50mm (maximum) from the face of the column.



TYPICAL DETAILS FOR MINIMUM CLEARANCE BETWEEN INDIVIDUAL BARS

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THIMPHU:BHUTAN

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PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

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(GENERAL MANAGER, PETROLEUM
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CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING
BEAM

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/07

REVISION SUFFIX

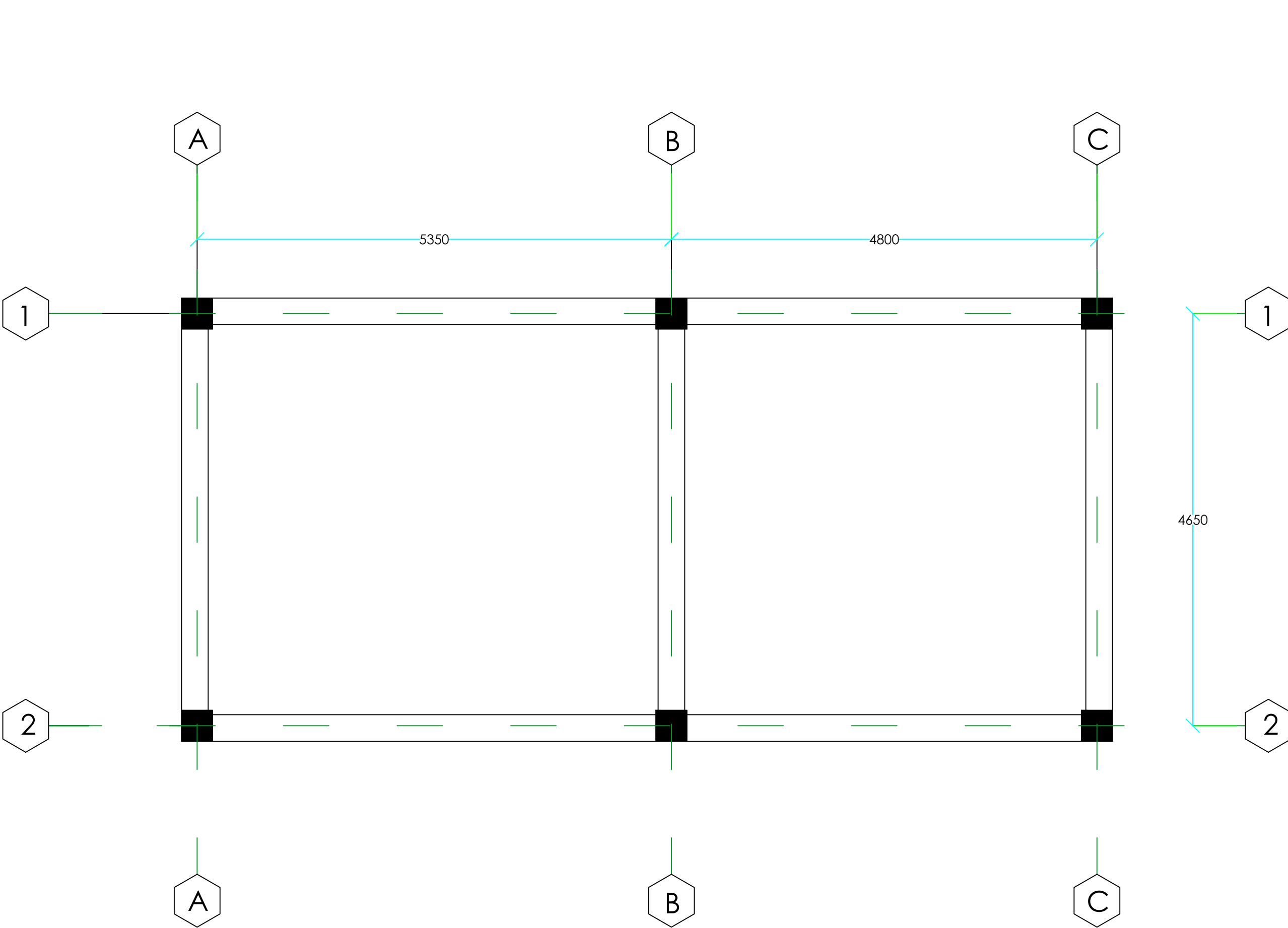
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PLINTH BEAM DETAILS

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OWNER SIGNATURE

DESIGNED BY:
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CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:
STRUCTURAL DRAWING
PLINTH BEAM

DATE: APRIL 2021

SCALE: NTS

DRAWING
SHEET NO : ST/08

REVISION SUFFIX	NORTH
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OWNER SIGNATURE

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STCBL, THIMPHU


DRAWING TITLE:

STRUCTURAL DRAWING
PLINTH BEAM DETAILS

DATE: APRIL 2021

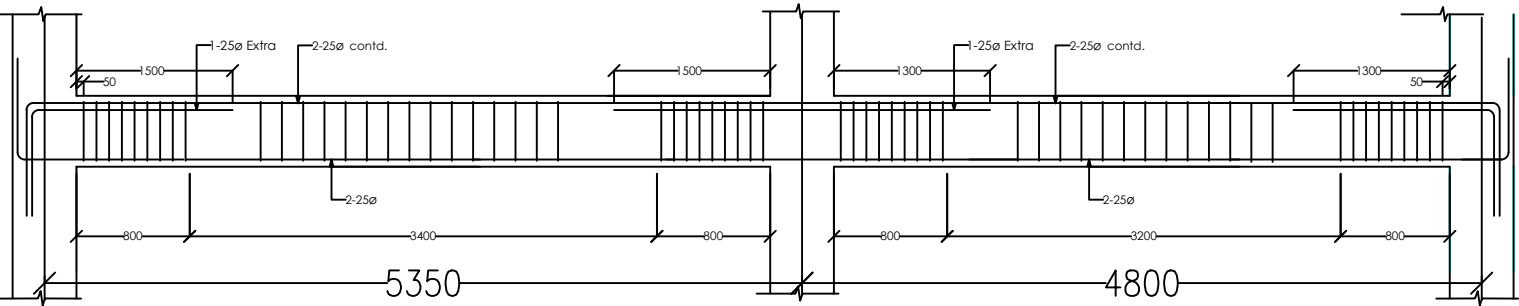
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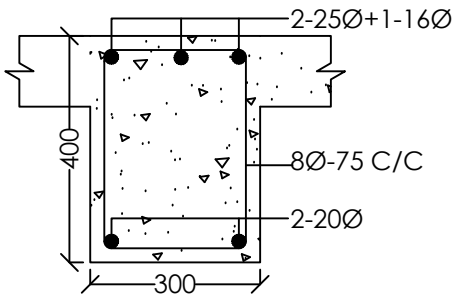
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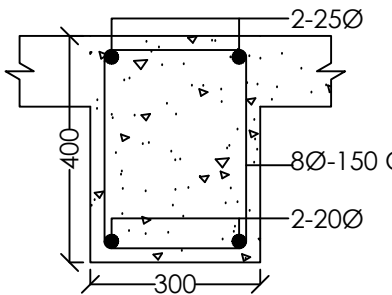
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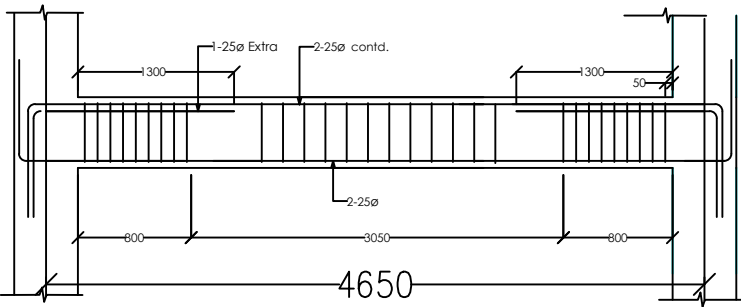
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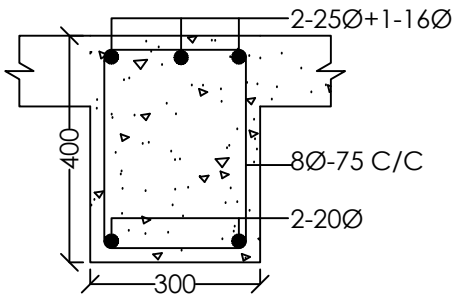
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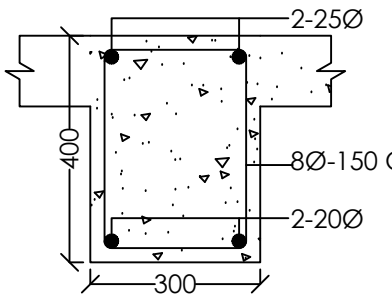
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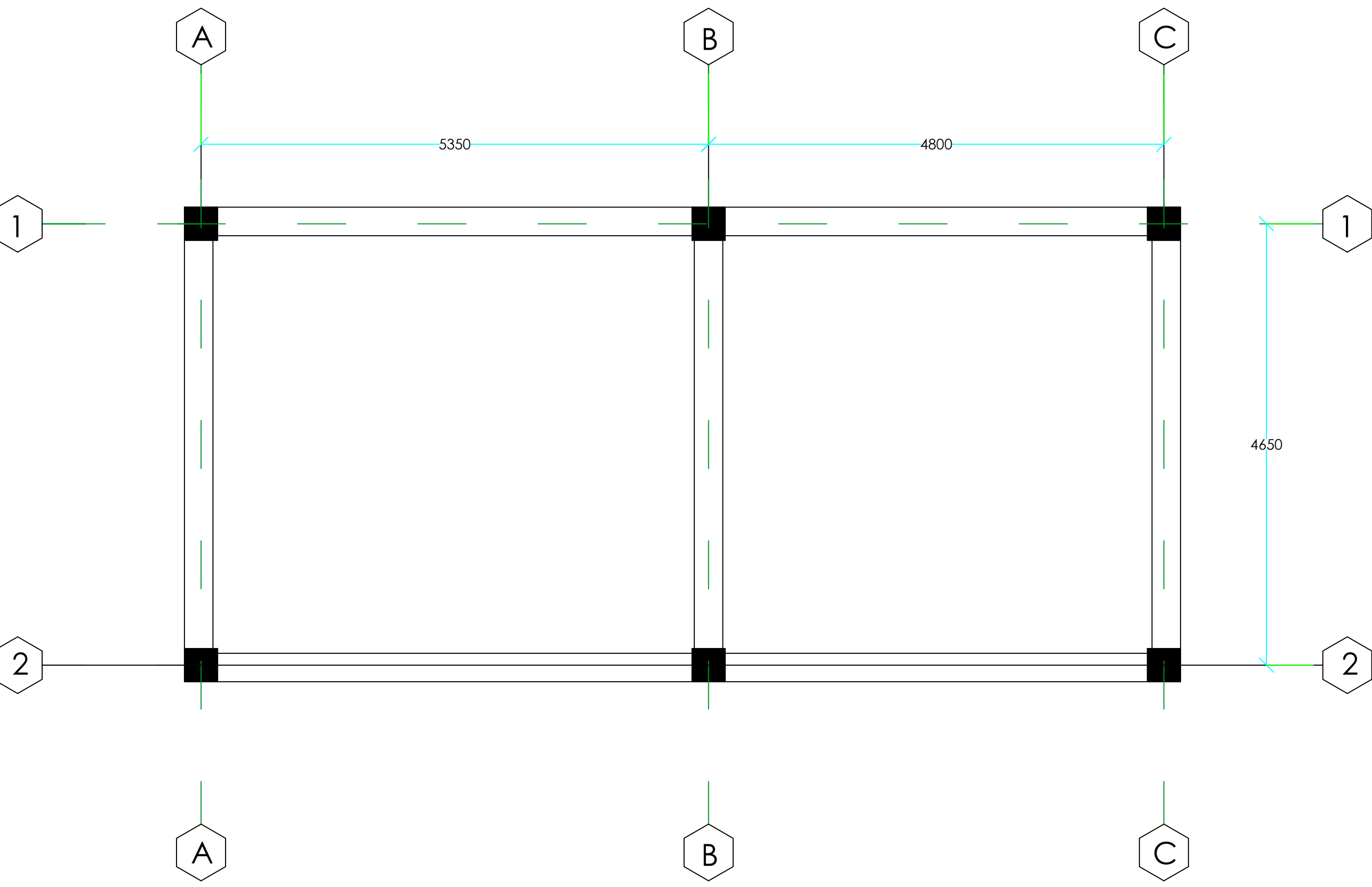


AT END



AT MID SPAN

PLINTH BEAM DETAILS



ROOF BEAM DETAIL

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OWNER SIGNATURE

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CIVIL ENGINEER
STCBL, THIMPHU
DRAWING TITLE:

STRUCTURAL DRAWING
SECOND FLOOR BEAM

DATE: APRIL 2021

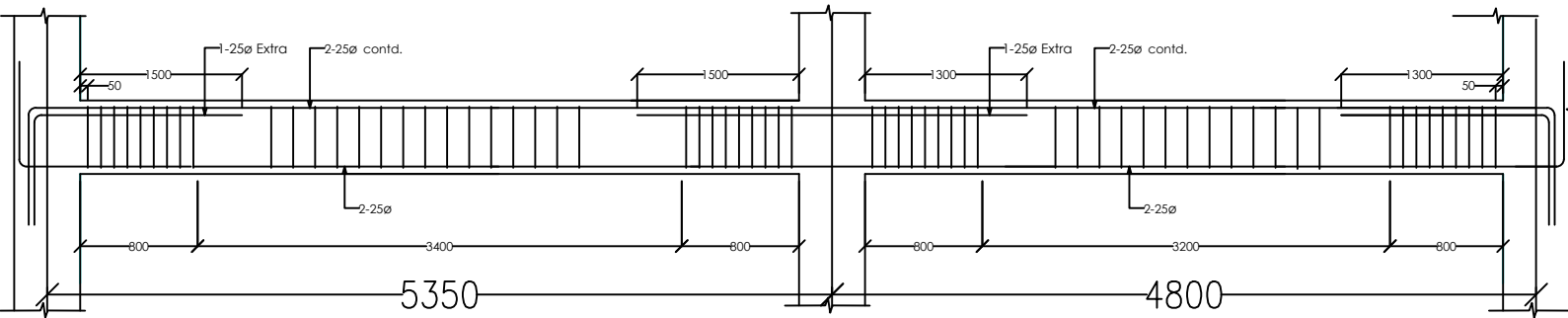
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DRAWING
SHEET NO : ST/10

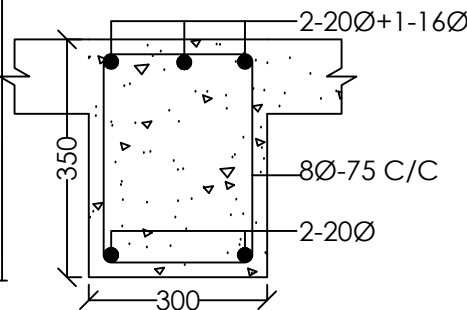
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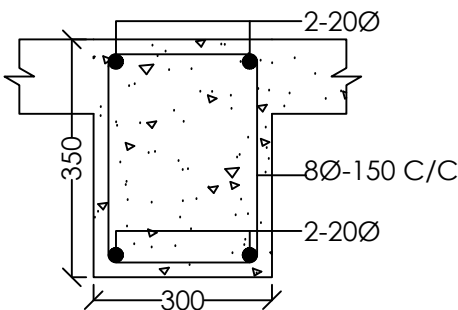
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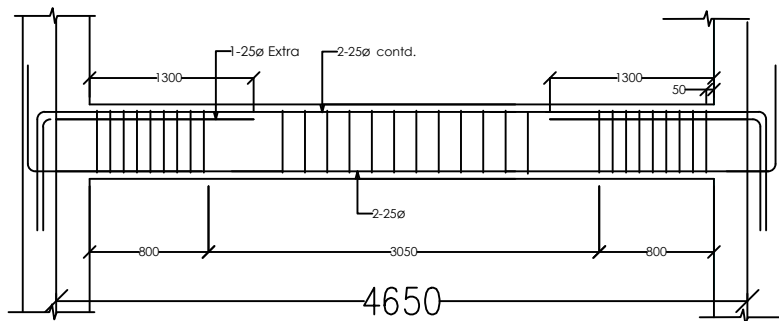
ALONG GRID 1 & 3



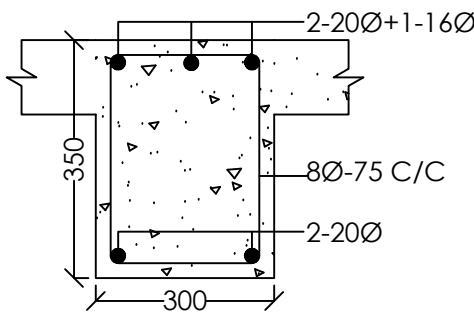
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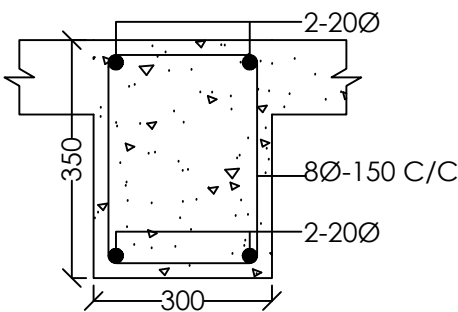
AT MID SPAN



ALONG GRID A, B & D



AT END



AT MID SPAN

ROOF BEAM DETAIL

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DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/11

REVISION SUFFIX

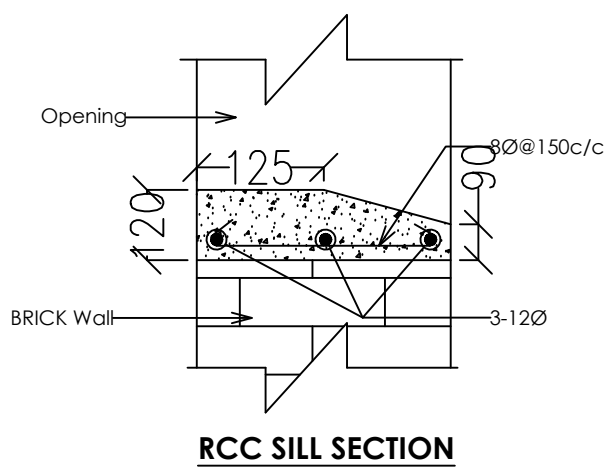
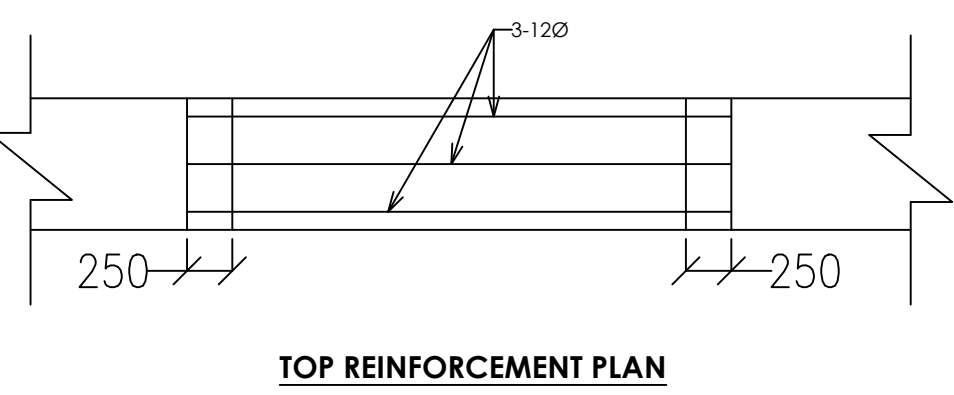
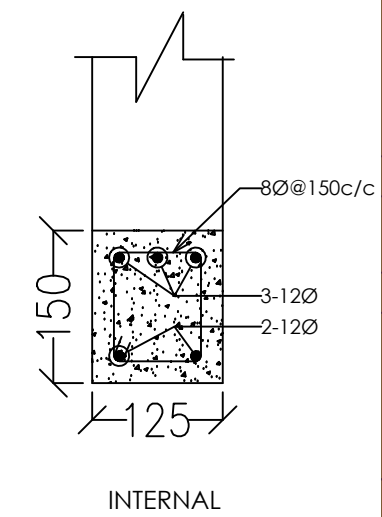
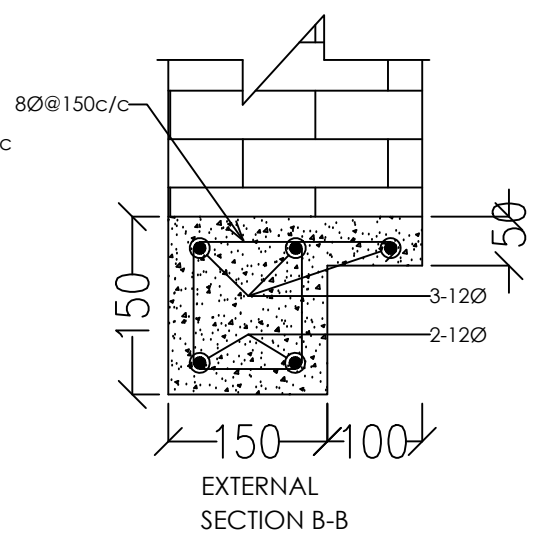
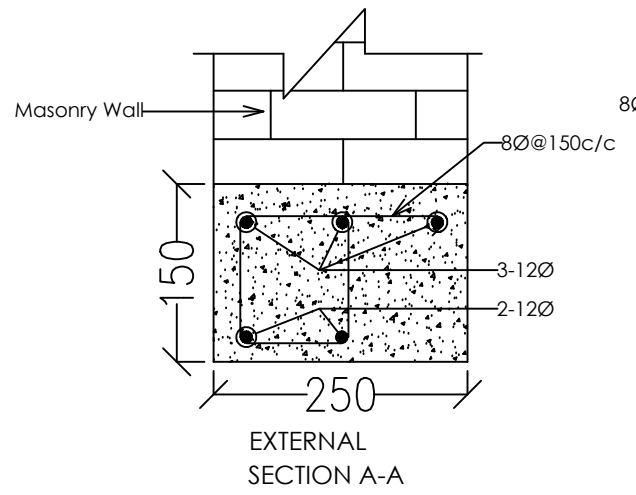
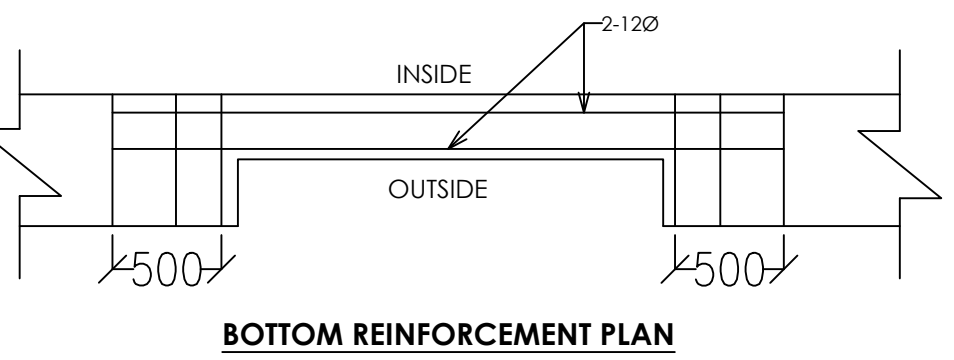
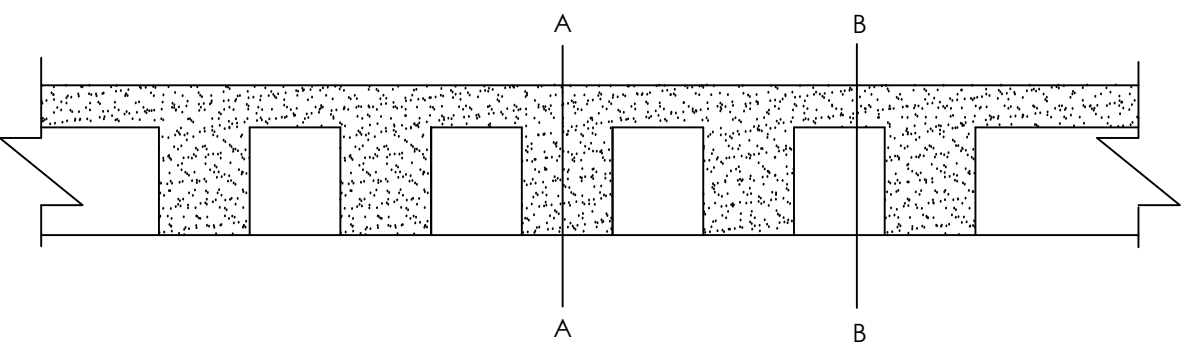
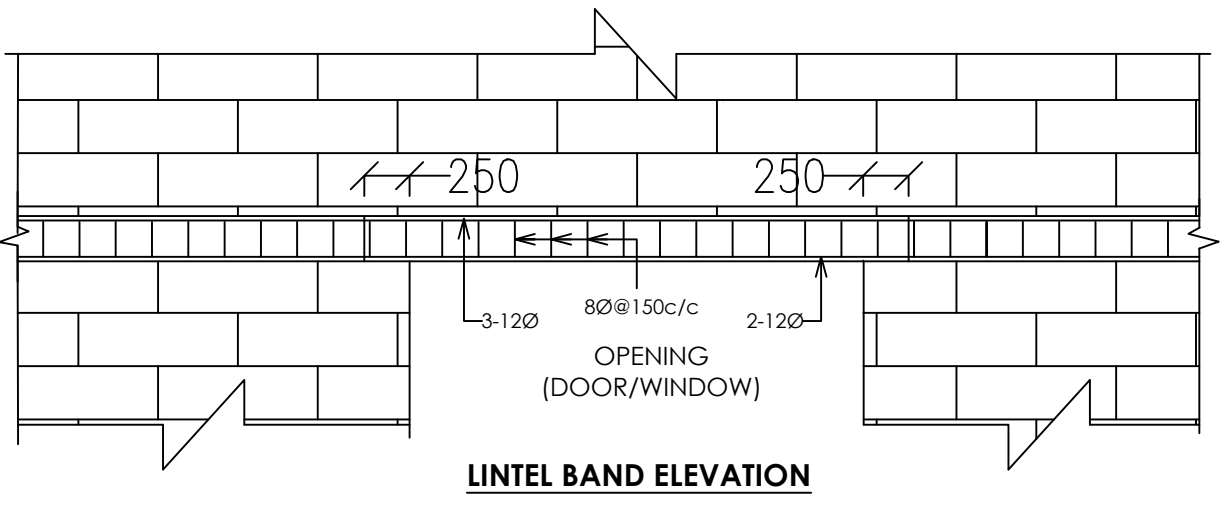
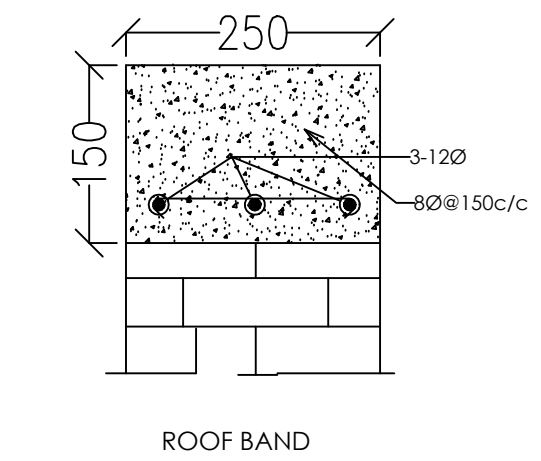
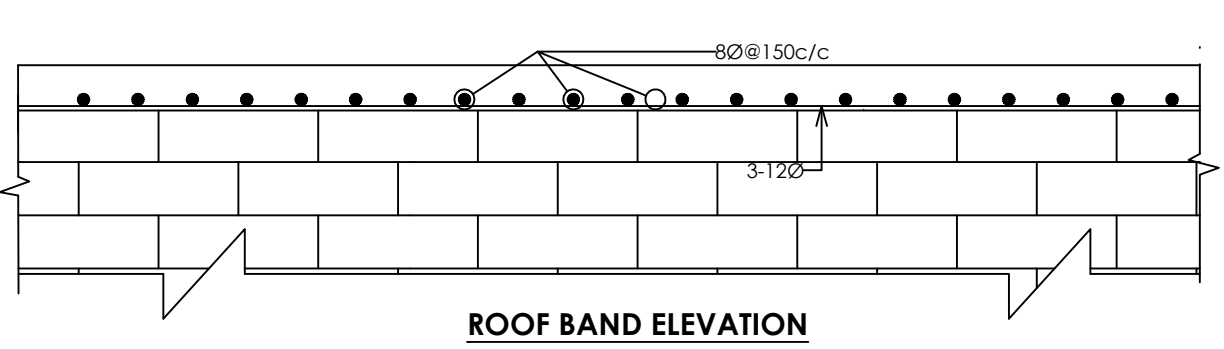
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NORTH



GENERAL NOTE:

- ALL DIMENSIONS ARE IN METERS (FEET) UNLESS SPECIFIED OTHERWISE.
- ALL DIMENSIONS MEASURE UNFINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
- ALL DIMENSIONS ARE TO BE READ AND NOT SCALE OFF.
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TYPICAL REINFORCEMENT LAYOUT IN LINTEL BAND OVER OPENING

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OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN

PROJECT:
TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU
DRAWING TITLE:

STRUCTURAL DRAWING
LINTEL BEAM

DATE: APRIL 2021

SCALE: NTS

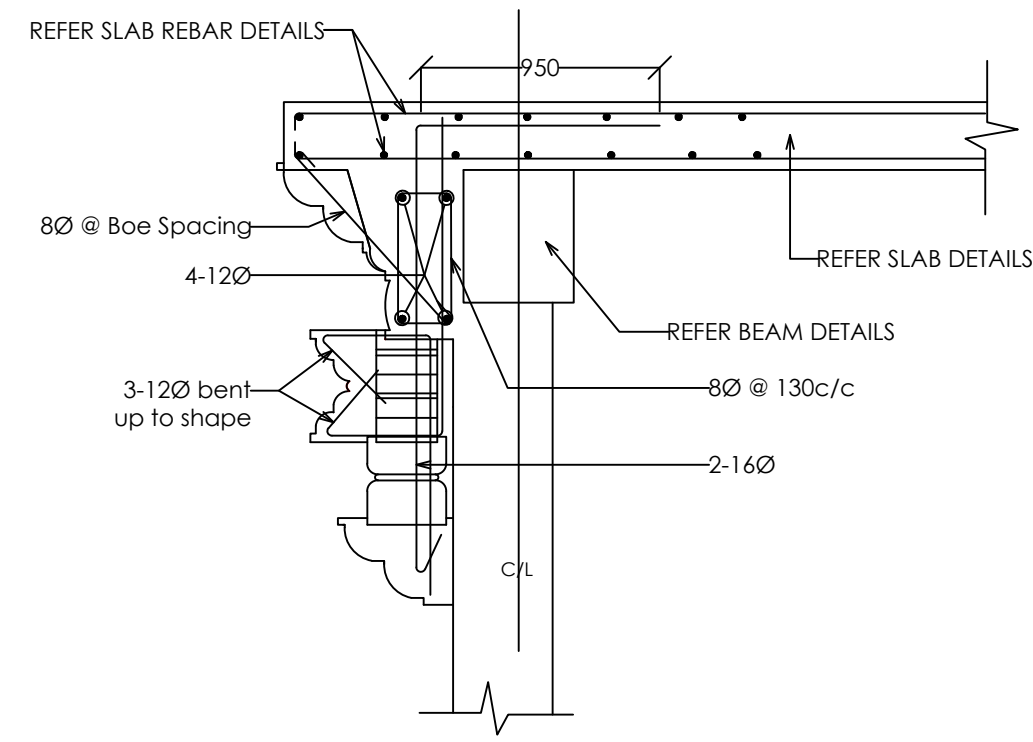
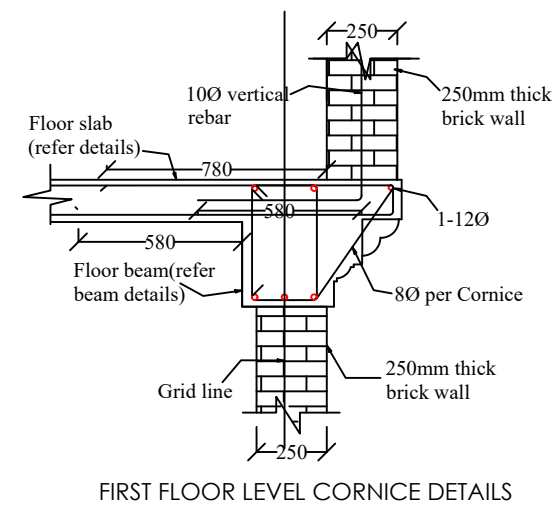
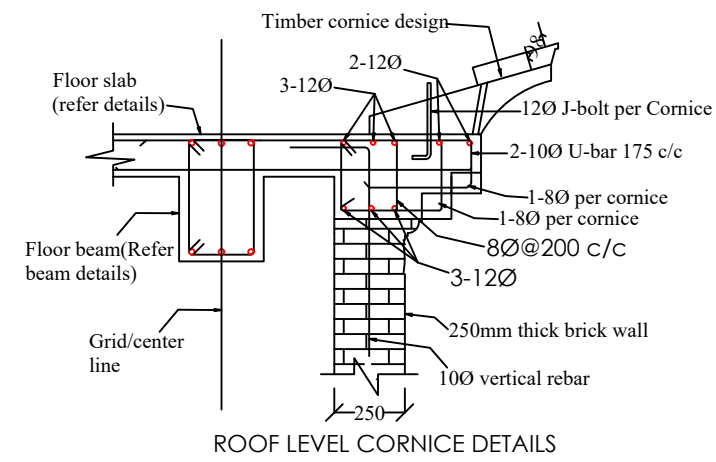
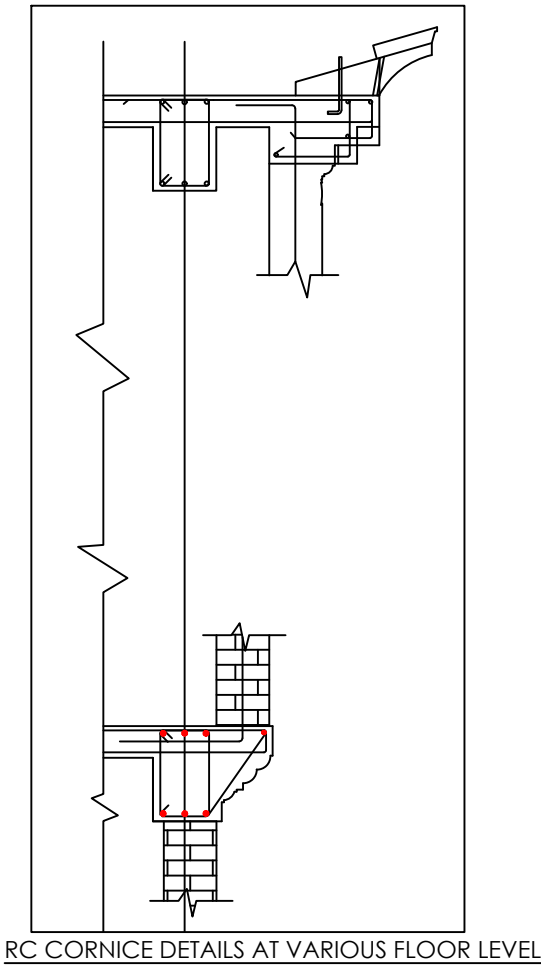
DRAWING
SHEET NO : ST/12

REVISION SUFFIX	NORTH
□ □ □ □ □	

GENERAL NOTE:

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CORNICES



Notes:

- 1. Slab rebars shall be extended wherever neccessary for the slab projections & cornice(refer slab details drawings)
- 2. The cornice reinforcements provided are excluding the slab reinforcement already provided
- 3. Cornice patterns/shapes and dimensions shall be as per the architectural drawing details(Refer architectural drawings
- 4. Refer architectural drawings for the location of different types cornices at various floor levels.

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OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN

PROJECT:
TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING
CORNICES

DATE: APRIL 2021

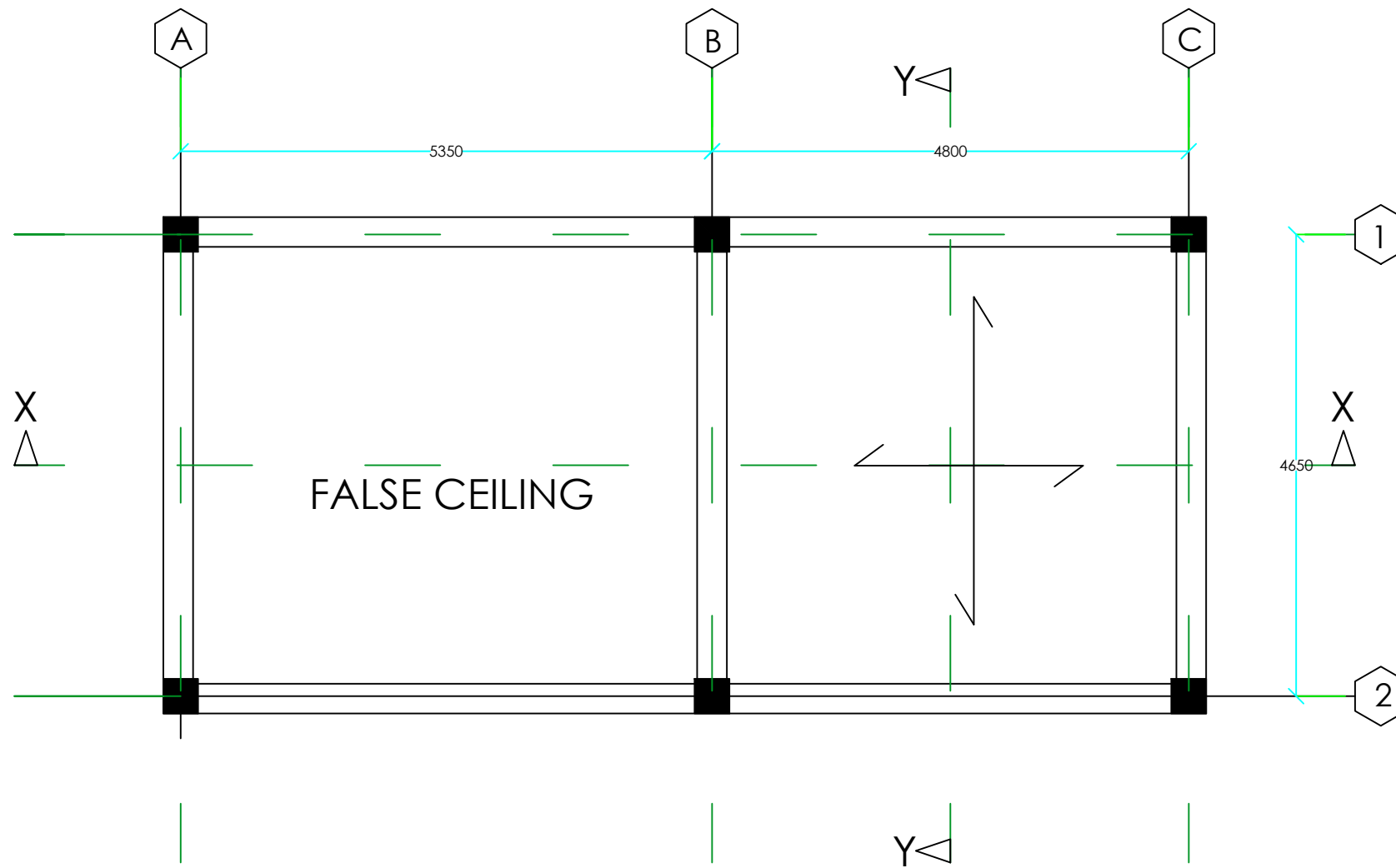
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DRAWING
SHEET NO : ST/13

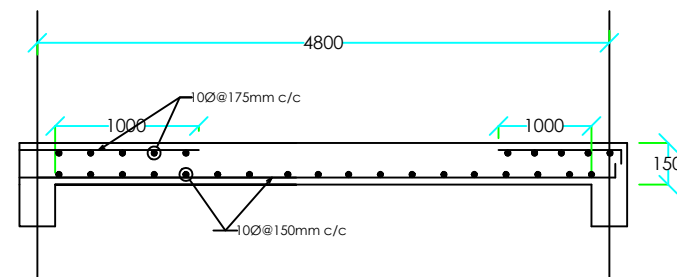
REVISION SUFFIX	NORTH
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GENERAL NOTE:

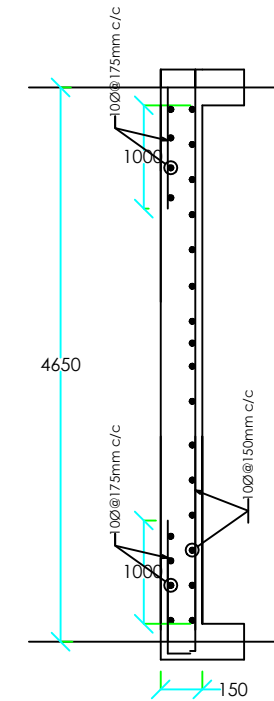
- ALL DIMENSIONS ARE IN METERS (FEET) UNLESS SPECIFIED OTHERWISE.
- ALL DIMENSIONS MEASURE UNFINISHED SURFACES UNLESS SPECIFIED OTHERWISE.
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ROOF SLAB



SECTION X-X



SECTION Y-Y

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NEXT TO THIMPHU THROMDE BUILDING
THIMPHU: BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

REMARKS

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING
SLAB DETAILS

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/14

REVISION SUFFIX

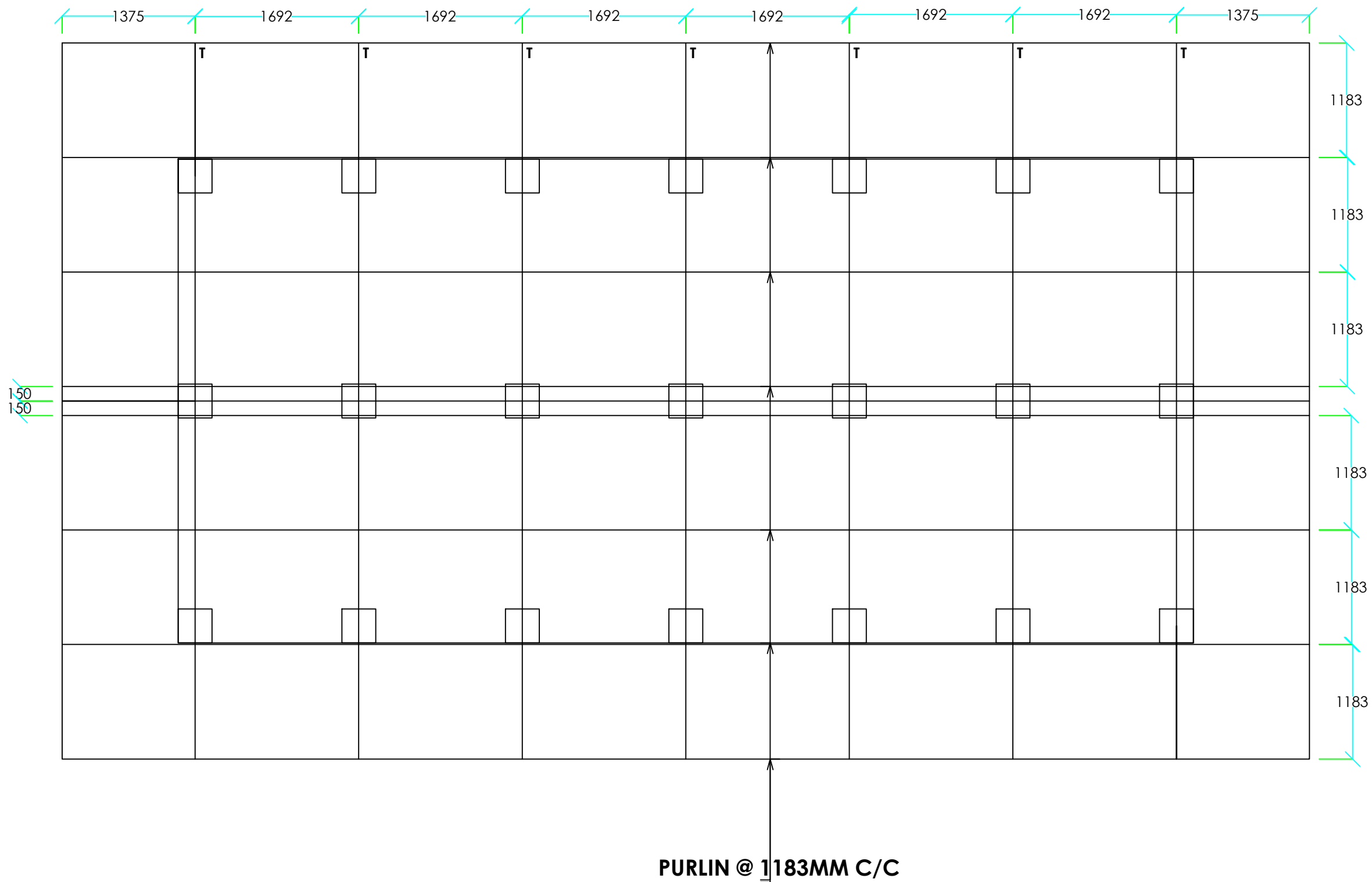
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NORTH



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OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING
ROOF PLAN

DATE: APRIL 2021

SCALE: NTS

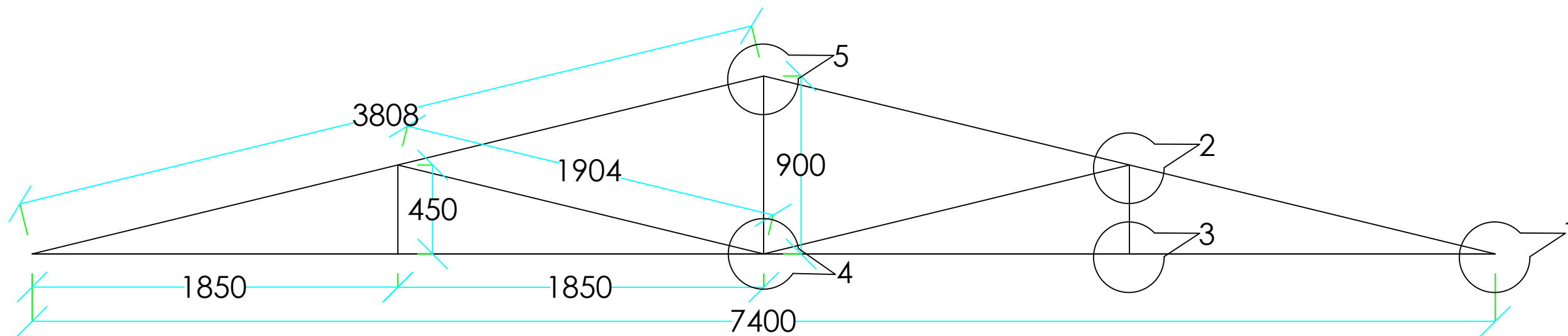
DRAWING

SHEET NO : ST/15

REVISION SUFFIX	NORTH
□ □ □ □ □	

GENERAL NOTE:

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SCHEDULE OF TRUSS MEMBERS

MEMBER	SIZE
Bottom Chord/Tie	60.3mm OD, 3.65mm thick, 5.10Kg/m
Rafter	60.3mm OD, 3.65mm thick, 5.10Kg/m
Post	42.4mm OD, 3.25mm thick, 3.15Kg/m
Strut	42.4mm OD, 3.25mm thick, 3.15Kg/m
Purlin	42.4mm OD, 3.25mm thick, 3.15Kg/m @900c/c

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OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING
ROOF TRUSS

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/16

REVISION SUFFIX

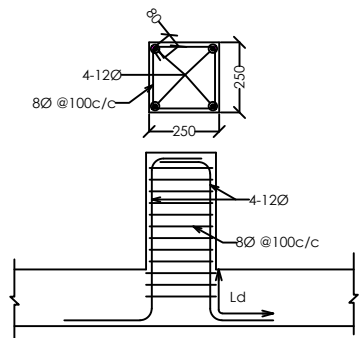
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NORTH

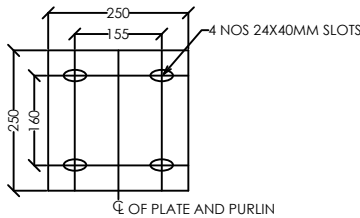


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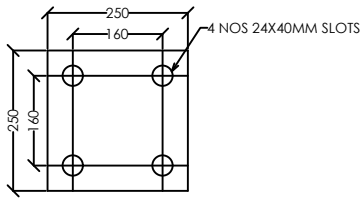
- ALL DIMENSIONS ARE IN METERS (FEETS) UNLESS SPECIFIED OTHERWISE.
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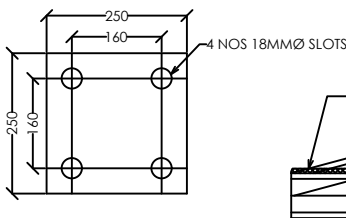
RCC PROP DETAILS



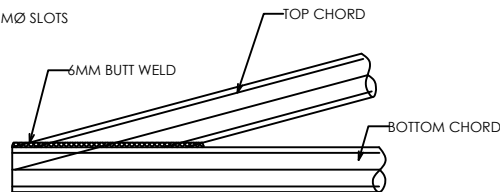
FLEXIBLE SUPPORT SOLE PLATE



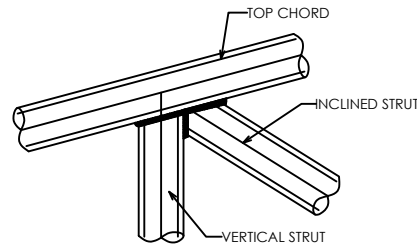
FIXED SUPPORT SOLE PLATE



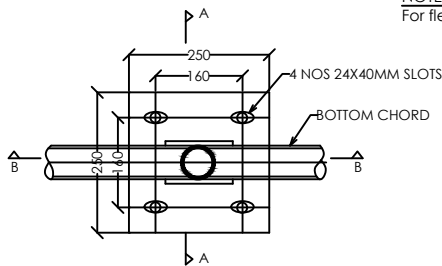
BASE PLATE FOR BOTH
FLEXIBLE SUPPORT AND
FIXED SUPPORT



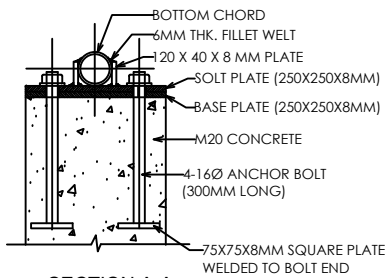
DETAIL 1



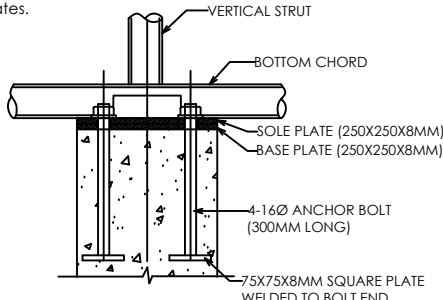
DETAIL 2



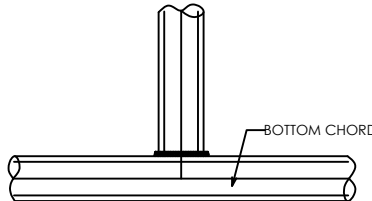
TRUSS HOLDING DOWN DETAILS



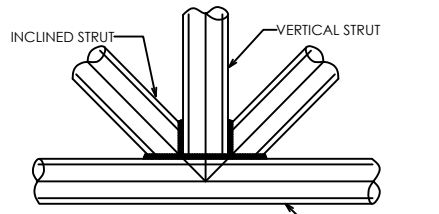
SECTION A-A



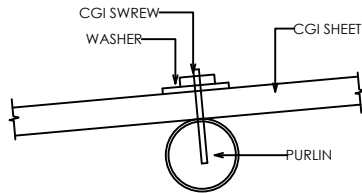
SECTION B-B



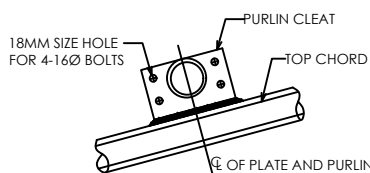
DETAIL 3



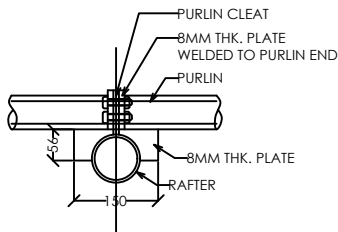
DETAIL 4



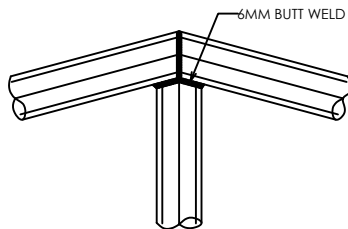
CONNECTION OF CGI SHEET TO PURLIN



PURLIN CLEAT

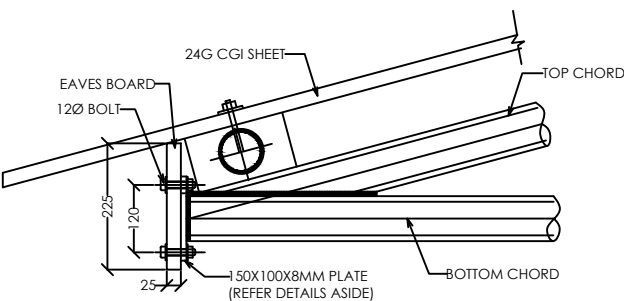


PURLIN CLEAT FOR
ALL TRUSSES

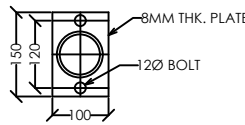


DETAIL 5

- NOTES:
1. All dimensions are in mm unless stated otherwise.
 2. Connection details shown are for different types of joints and to be taken same for similar joints.
 3. Height of RCC prop to be taken as per Architectural drawings.
 4. All members of truss joint shall be in welding.
 5. Welding shall conform to IS 816 and thickness shall be 6mm.
 6. All Steel Tube Sections and Plates shall conform to IS 1161 & IS 2062.
 7. All MS Nuts & Bolts shall conform to IS 1363-1984 and Washers shall conform to IS 5374.



CONNECTION OF EAVES BOARD TO STEEL TRUSS



EAVES BOARD
PLATE DETAIL

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ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING
TRUSS DETAILS

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/17

REVISION SUFFIX

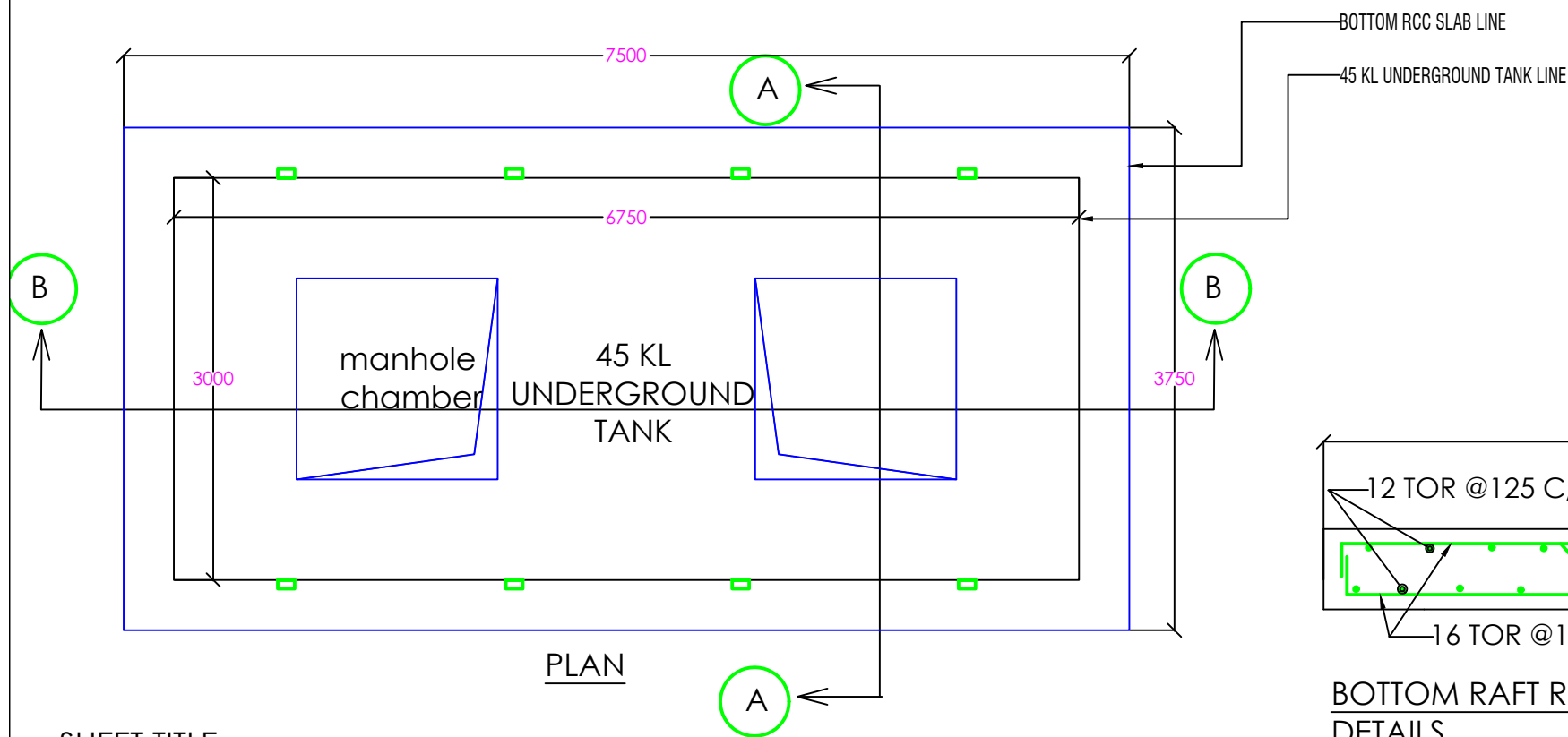
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NORTH

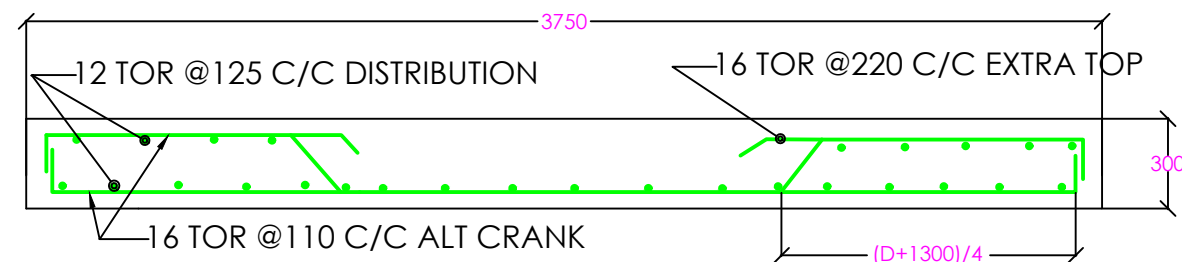


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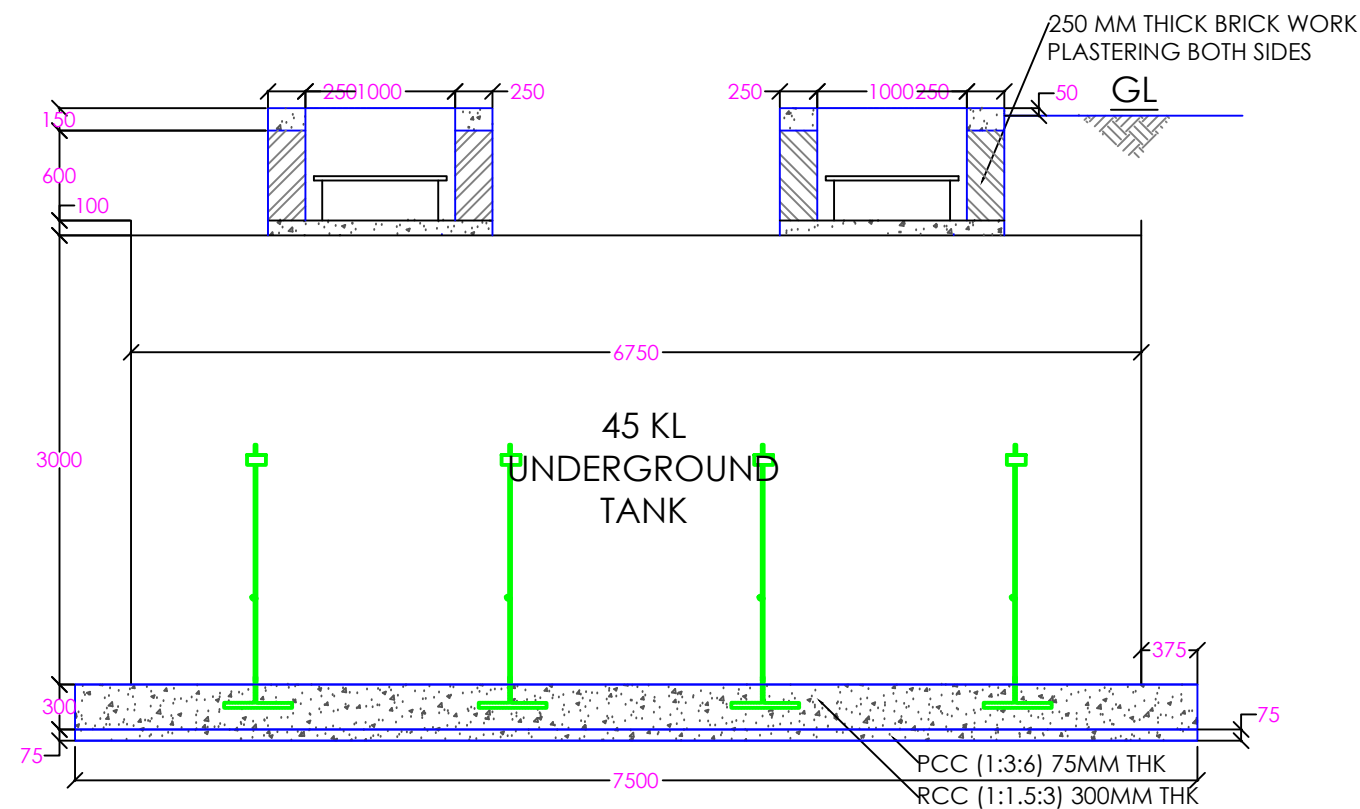


1. ALL DIMENSION ARE IN MILLIMETERS
2. ALL STEEL SURFACES IN CONTACT WITH CONCRETE SHALL NOT BE PAINTED.
3. CONCRETE SHALL BE OF GRADE M-20 (1:1.5:3.)
4. FOR COMMON WALL, WALL THICKNESS SHALL BE 250 MM
5. CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS FOR TOP & BOTTOM SLAB 25MM & SIDES 40MM
6. DEPTH TO BE FINALIZED AT SITE DEPENDING ON SOIL CONDITION.
7. THE WELDING SHALL BE AS PER IS:816 USING ONLY IS MARKED ELECTRODES OF APPROVED MAKE.
8. GRADE OF STEEL SHALL BE Fe 500.
9. MINIMUM LAP LENGTH SHALL BE 50 TIMES OF DIAMETER OF BAR & LAP SHALL BE SUITABLY STAGGERED.
10. BEARING CAPACITY OF SOIL CONSIDERED 10 T/SQM.

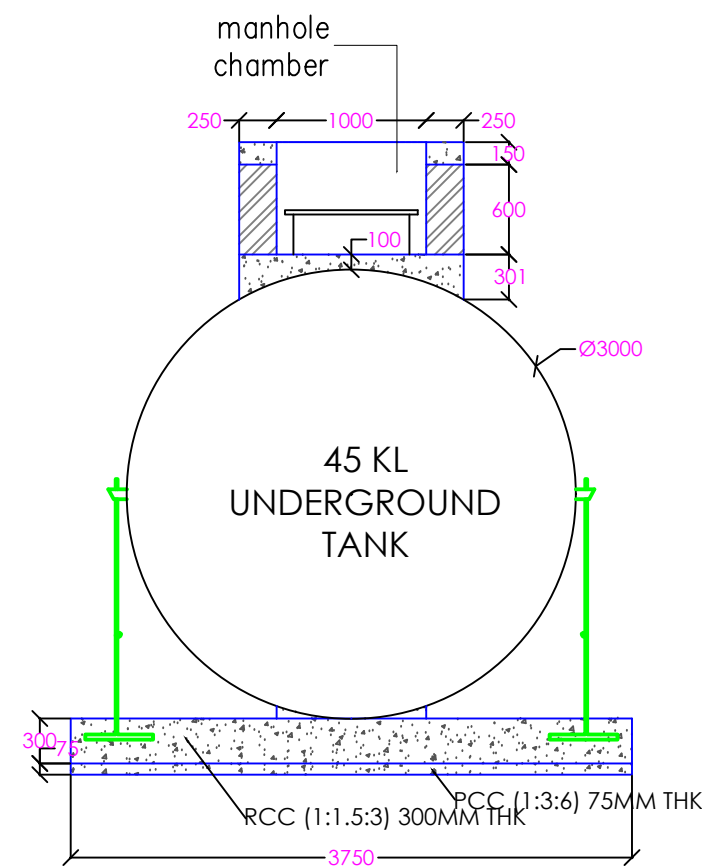


BOTTOM RAFT REINFORCEMENT DETAILS

SHEET TITLE:
DRAWING OF 45 KL UNDERGROUND TANK



CROSS SECTION B-B



CROSS SECTION A-A

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ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU: BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING
UG TANK

DATE: APRIL 2021

SCALE: 1:100

DRAWING

SHEET NO : ST/18

REVISION SUFFIX

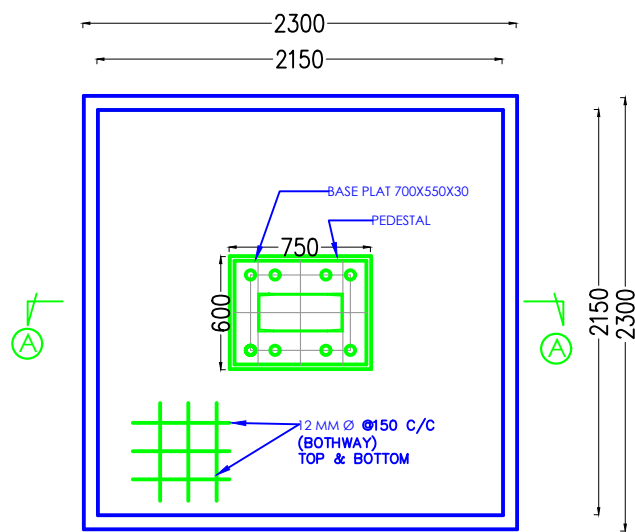
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NORTH

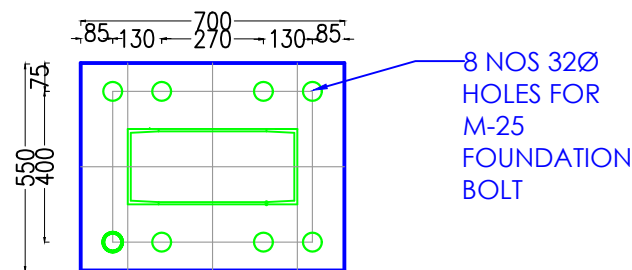


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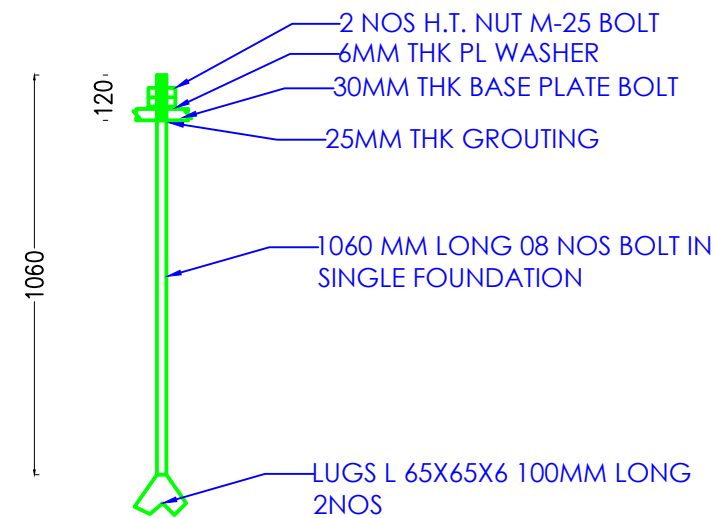
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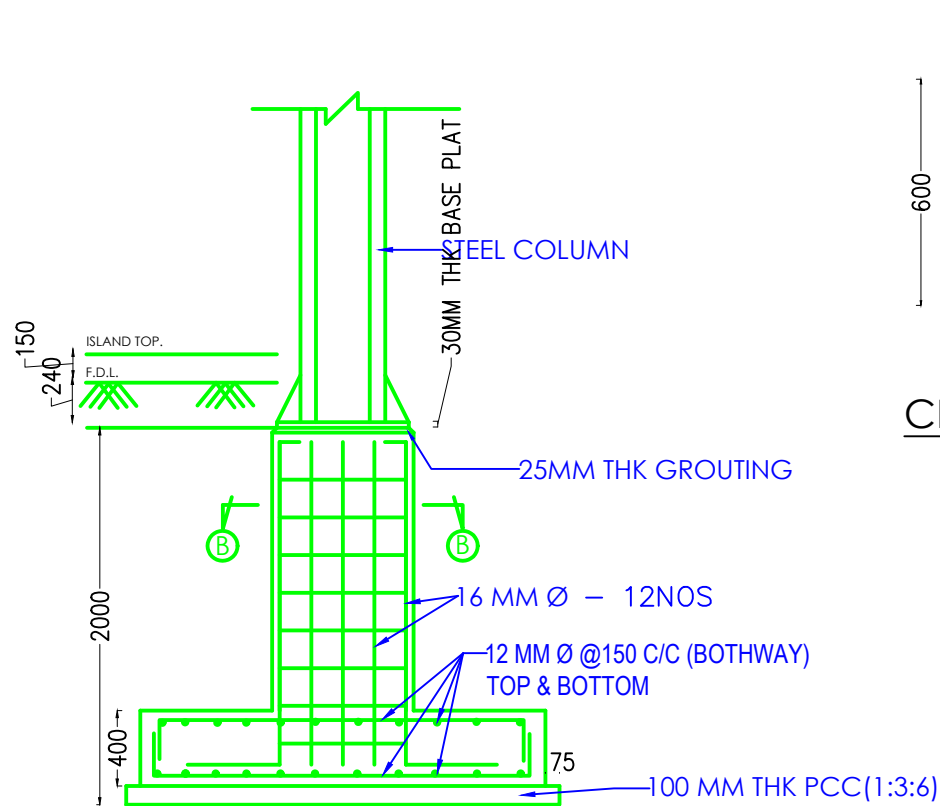
PLAN OF FOOTING



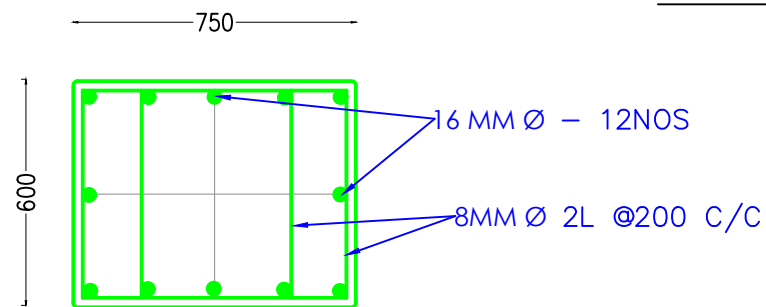
BASE PLATE PLAN



DETAIL OF FOUNDATION BOLT



CROSS SECTION A-A



CROSS SECTION B-B

CANOPY

SHEET TITLE:
DRAWING OF FOUNDATION DETAILS OF CANOPY

- ALL DIMENSION ARE IN MILLIMETERS
- ALL STEEL SURFACES IN CONTACT WITH CONCRETE SHALL NOT BE PAINTED.
- CONCRETE SHALL BE OF GRADE M-20 (1:1.5:3.)
- FOR COMMON WALL, WALL THICKNESS SHALL BE 500MM
- CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS. FOR TOP & BOTTOM SLAB 25MM & SIDES 40MM
- DEPTH TO BE FINALIZED AT SITE DEPENDING ON SOIL CONDITION.
- THE WIELDING SHALL BE AS PER IS:816 USING ONLY IS MARKED ELECTRODES OF APPROVED MAKE.
- GRADE OF STEEL SHALL BE Fe 415
- MINIMUM LAP LENGTH SHALL BE 50 TIMES OF DIA OF BAR & LAP SHALL BE SUITABLY STAGGERED
- BEARING CAPACITY OF SOIL CONSIDERED 10 T/SQM
- DESIGN BASIS : IS 456, IS 875 (PART i - iv)

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OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU: BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING
CANOPY FOUNDATION

DATE: APRIL 2021

SCALE: 1:100

DRAWING
SHEET NO :ST/19

REVISION SUFFIX

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NORTH



GENERAL NOTE:

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OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU: BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU
DRAWING TITLE:

STRUCTURAL DRAWING
CANOPY SUPER STRUCTURE

DATE: APRIL 2021

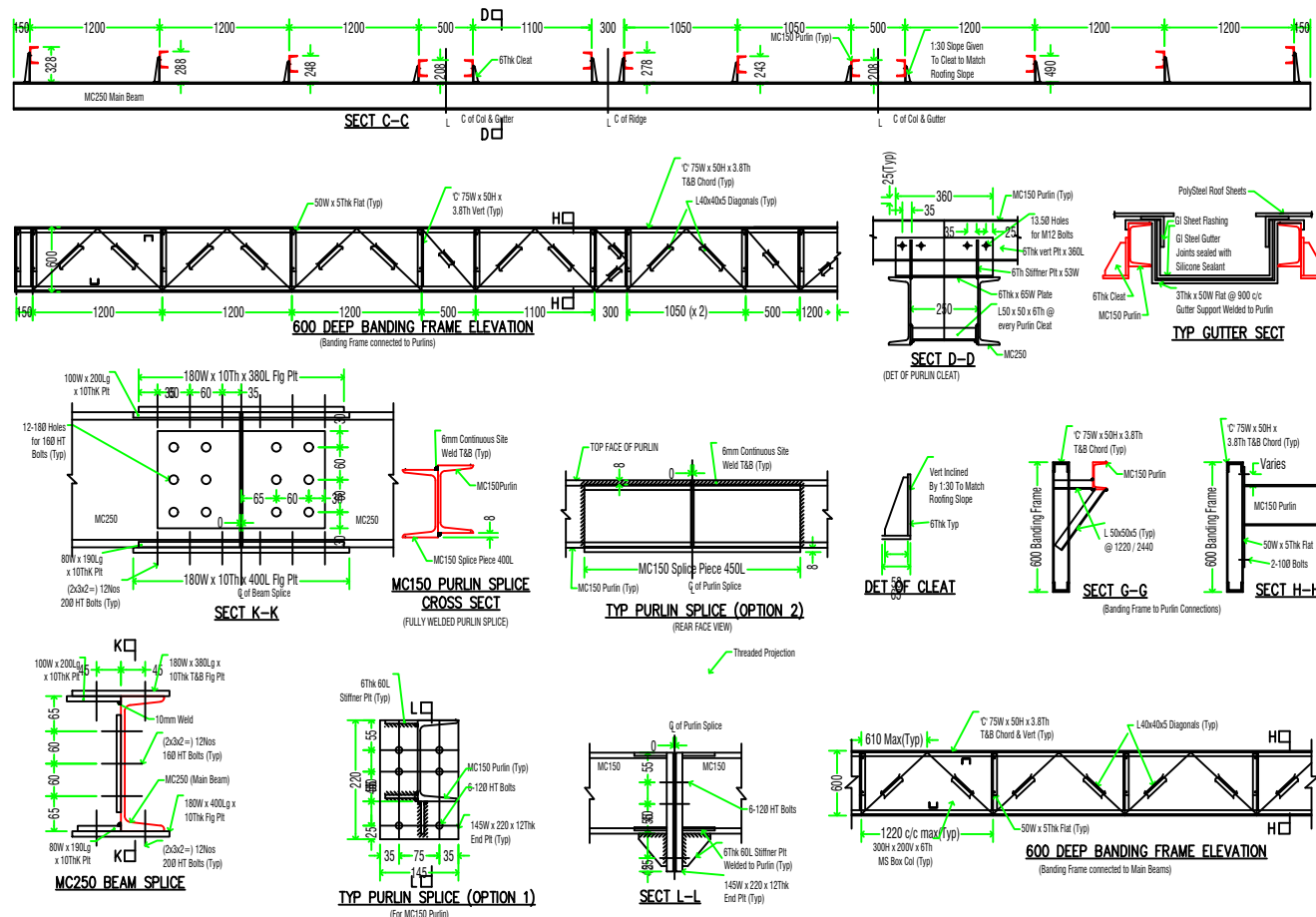
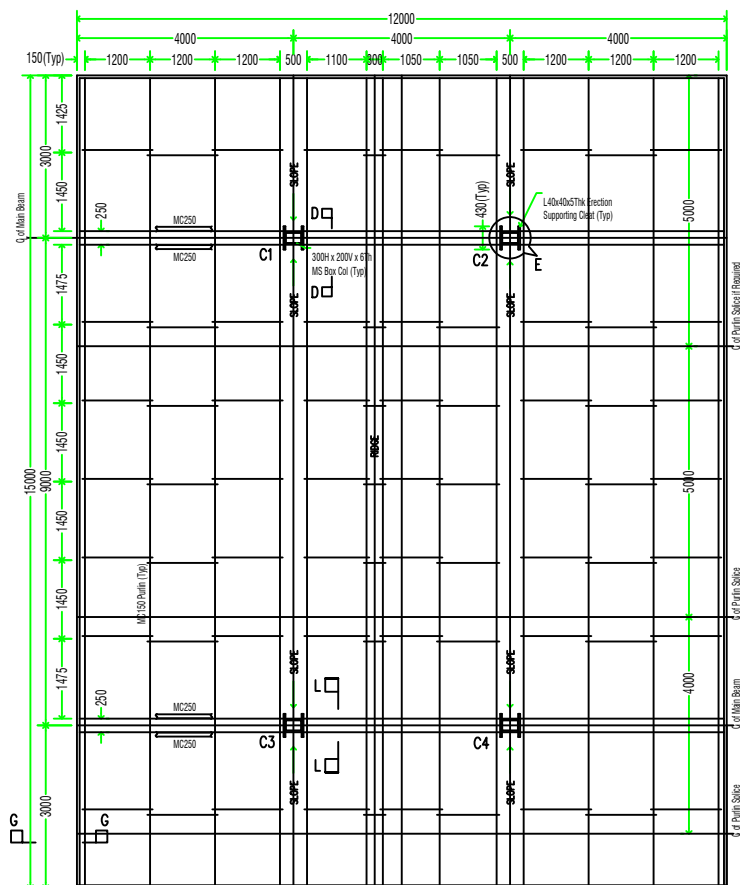
SCALE: 1:100

DRAWING
SHEET NO :ST/20

REVISION SUFFIX	NORTH
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NOTES FOR STRUCTURAL STEEL:

- All Buttwelds Shall Be Complete Penetration Buttwelds Developing Full Strength of Members (Unless Noted Otherwise = UNO).
- All Holes Are 180 For 160 Bolts Typ (UNO).
- All Shop Welds Are 6mm Continuous Fillet Weld (UNO).
- All Fabrication Shall Be Done By Full Scale Setout At Site. The Erection And Assembly Clearances/Tolerances To Be Checked And Provided By The Fabricator.
- All steel Surfaces In Contact With Concrete/Grout/Mortar Shall Be Left Unpainted & Cleaned Thoroughly.
- All Gusset/Pack Plates Shall Be 8mm Thk (UNO).
- No Splices shall be provided without prior approved detail.
- All Splices Shall Develop Full Strength Of The Smaller Section And Shall Be Fully Welded After Erection (UNO).
- All Structural Steel Work Shall Be Painted With Two Coats Of Zinc Rich Primer And Two Coats Of Enamel Paint of approved Shade.

CANOPY

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OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU: BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING
ISLAND DETAILS

DATE: APRIL 2021

SCALE: 1:100

DRAWING
SHEET NO :ST/21

REVISION SUFFIX

□ □ □ □ □

NORTH



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19MM THICK BLACK
POLISHED GRANITE
PLATFORM ROUNDED WITH
BULL NOSE EDGE

25MM TH. C.M.1:6

P.C.C

115MM BRICK WORK

FINISHED FORECOURT LVL.

FORECOURT SUB BASE

CANOPY COLUMN
SIZE: 450X450MM

ELECTRICAL CONDUIT

RAIN WATER PIPE

FOOTING AS PER
STRUCTURAL DESIGN

DISPENSER ISLAND -
SHORT SECTION
SCALE 1:5

DETAIL A
SCALE 1:5

SECTION 'X X'
SCALE 1:5

DISPENSER ISLAND - 6MTS- 2
DISPENSER

DISPENSER ISLAND - 6MTS- 1
DISPENSER

DISPENSER ISLAND -
LONG SECTION
SCALE 1:5

DISPENSER

SUPPLY PIPES FOR FUELS

HOLD FAST

CANOPY COLUMN
SIZE: 450X450MM

2X50MM Ø G.I PIPE FOR
CANOPY + SIGNAGE LIGHTS

RAIN WATER PIPE

500MM HIGH CRASH
BARIOR IN SS TUBES 2MM
THK.

FINISHED FORECOURT LVL.

FORECOURT SUB BASE

19 TH. C.M 1:6

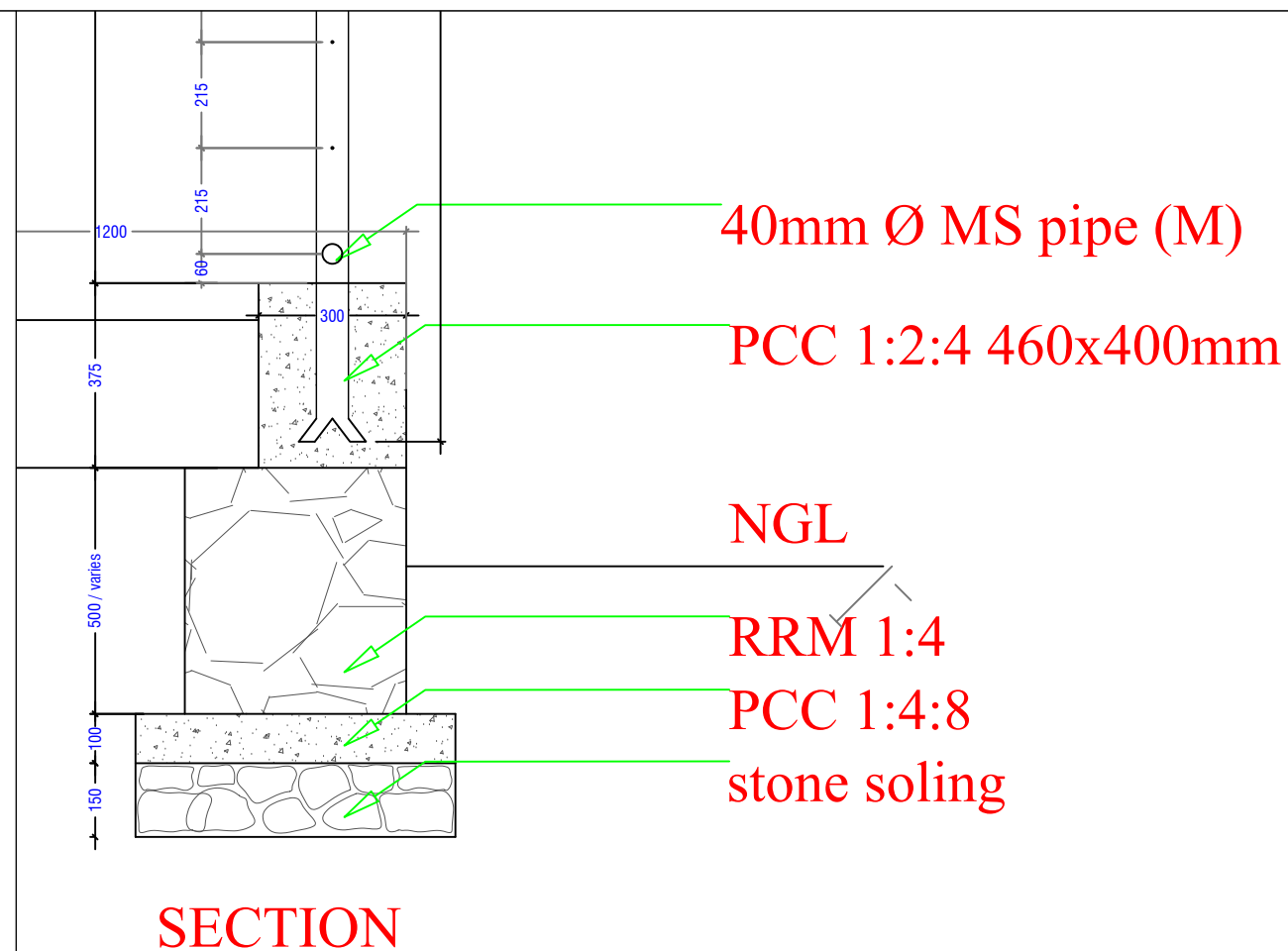
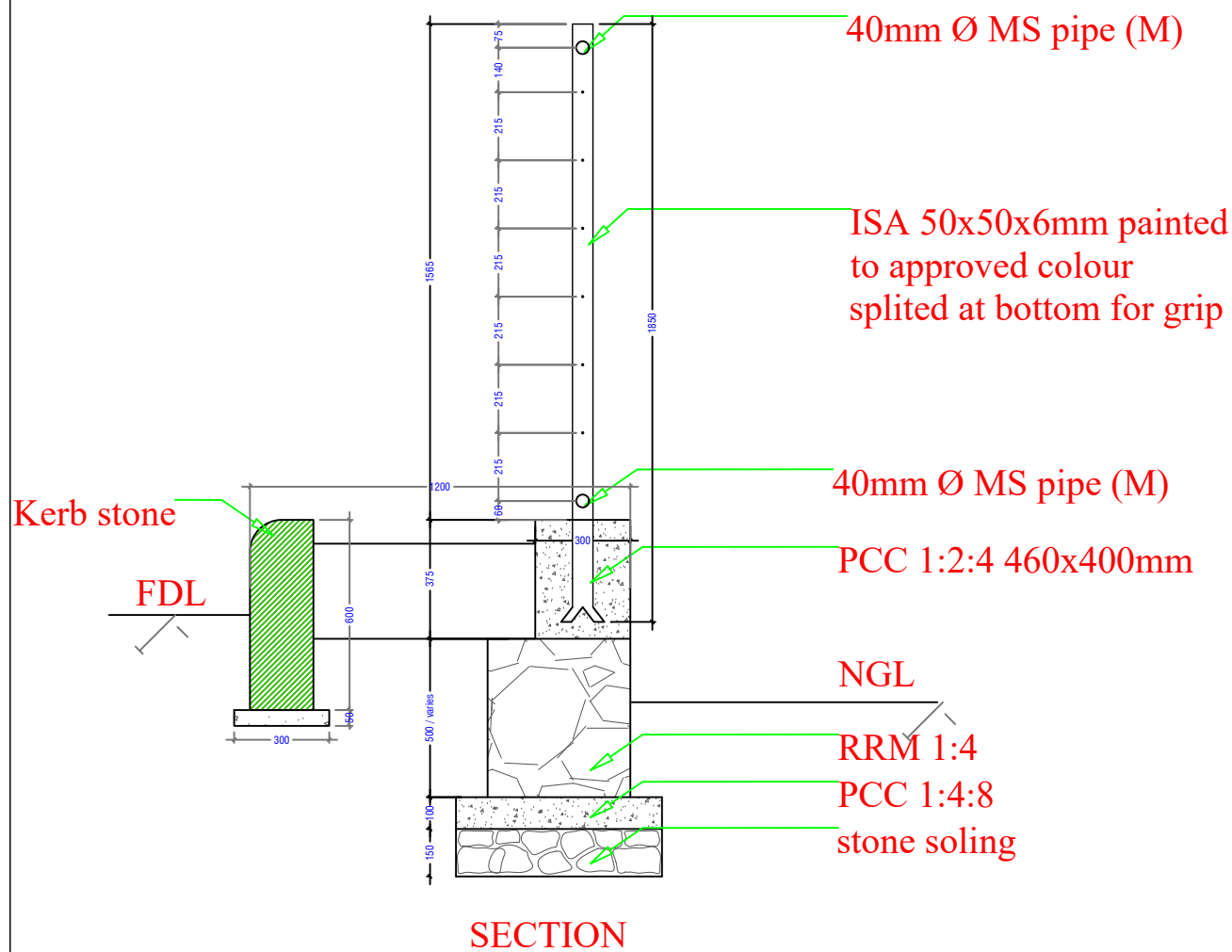
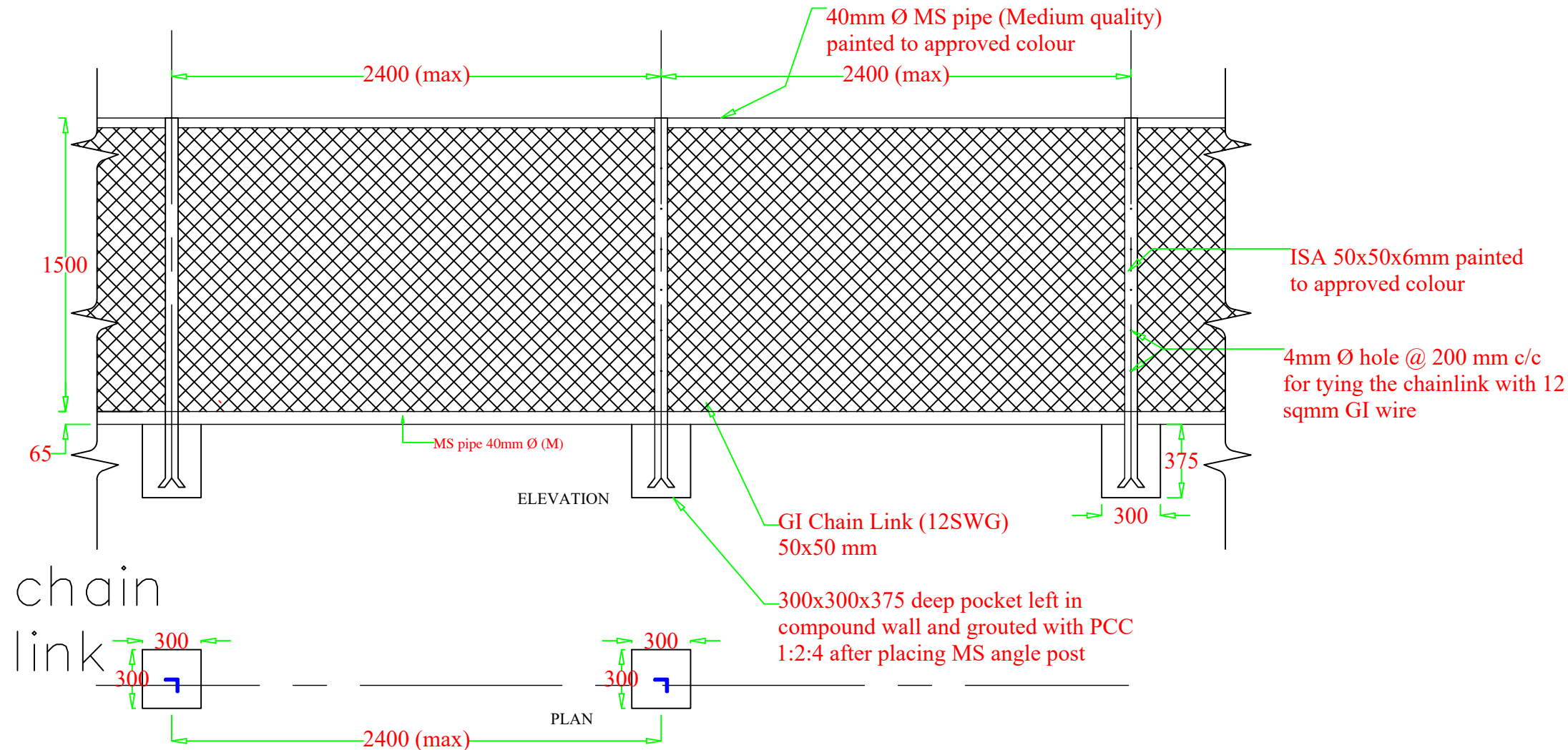
115MM BRICK WORK

P.C.C

25MM TH. C.M.1:6

19MM THICK BLACK
POLISHED GRANITE
PALTFORM ROUNDED WITH
BULL NOSE EDGE

FOOTING AS PER STRUCTURAL
DESIGN



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OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU
DRAWING TITLE:

STRUCTURAL DRAWING
FENCING

DATE: APRIL 2021

SCALE: NTS

DRAWING
SHEET NO : ST/22

REVISION SUFFIX

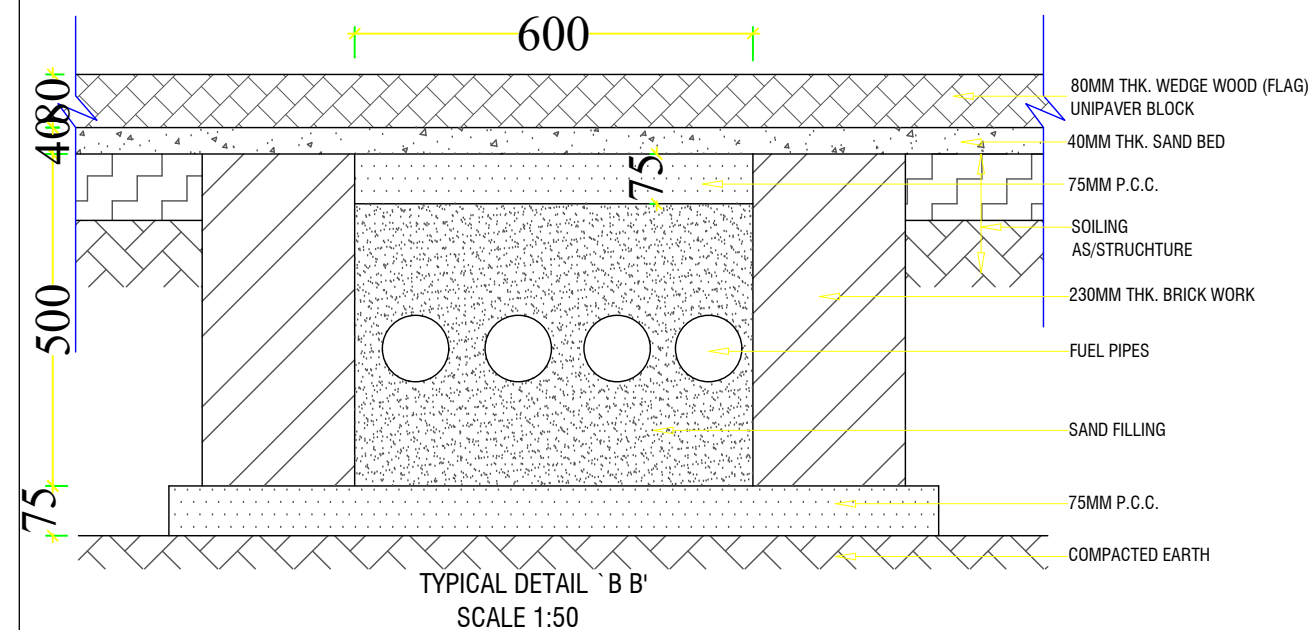
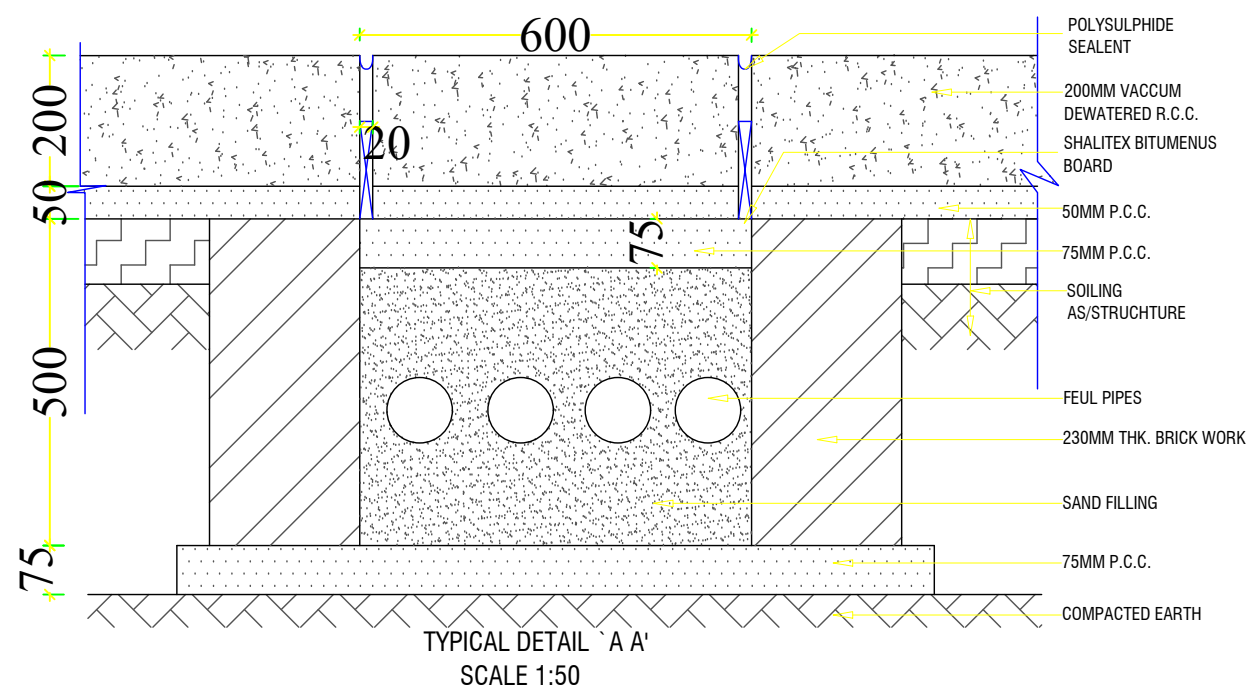
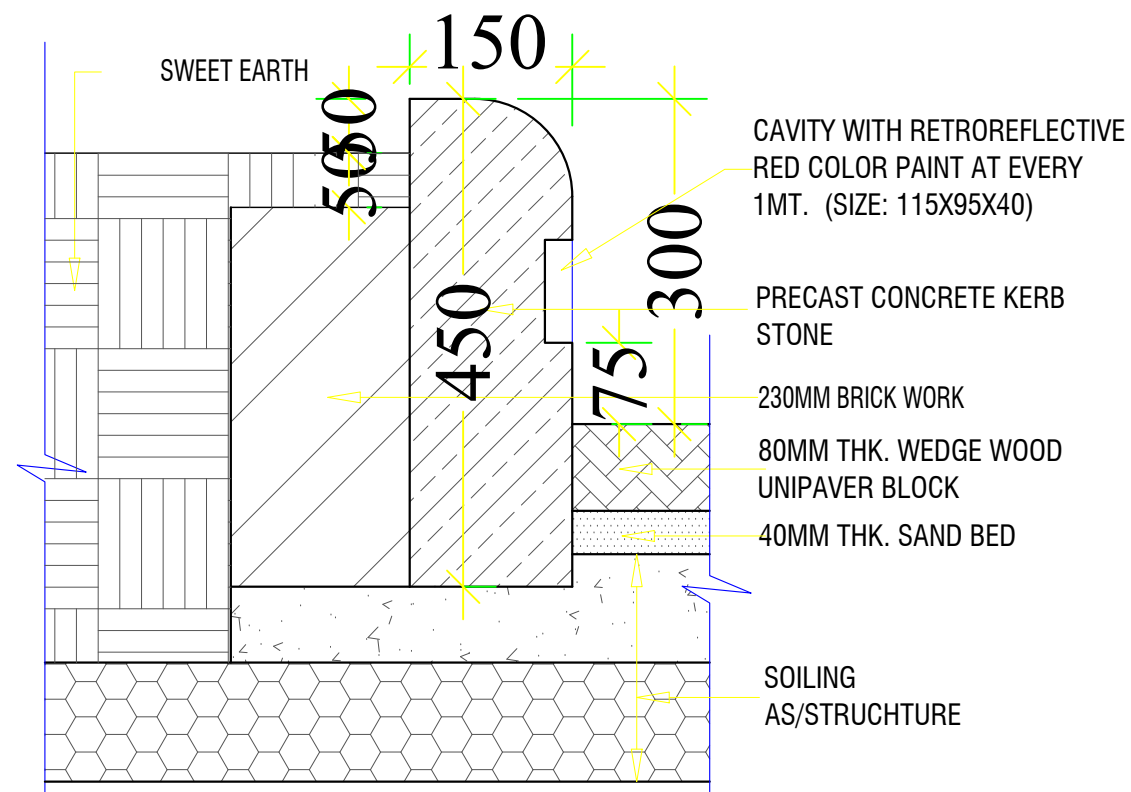
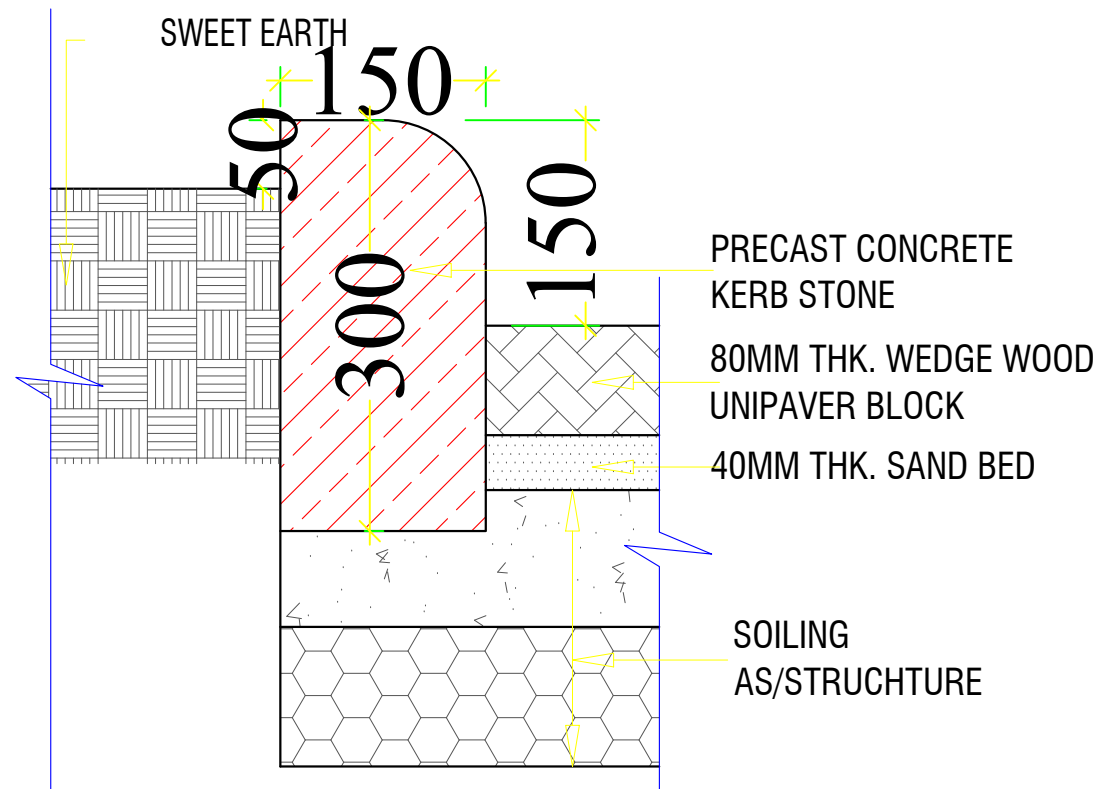
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NORTH



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**OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN**

PROJECT:

TITLE:	FUEL RETAIL OUTLET
LOCATION:	DECHEN LAM, TABA
OWNER:	STCBL
PLOT ID:	LTA1-101
CERTIFICATE NO:	THM-211-78
FLOORS:	G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING

KERB WALL DETAILS AND CHAMBER

DATE: APRIL 2021

SCALE: 1:100

DRAWING
SHEET NO : ST/23

REVISION SUFFIX

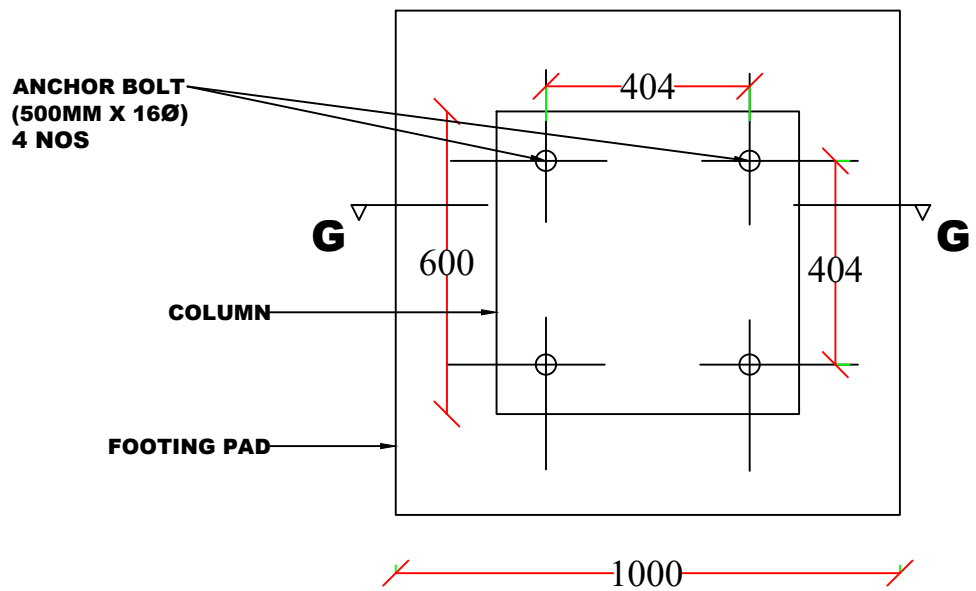
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GENERAL NOTE:

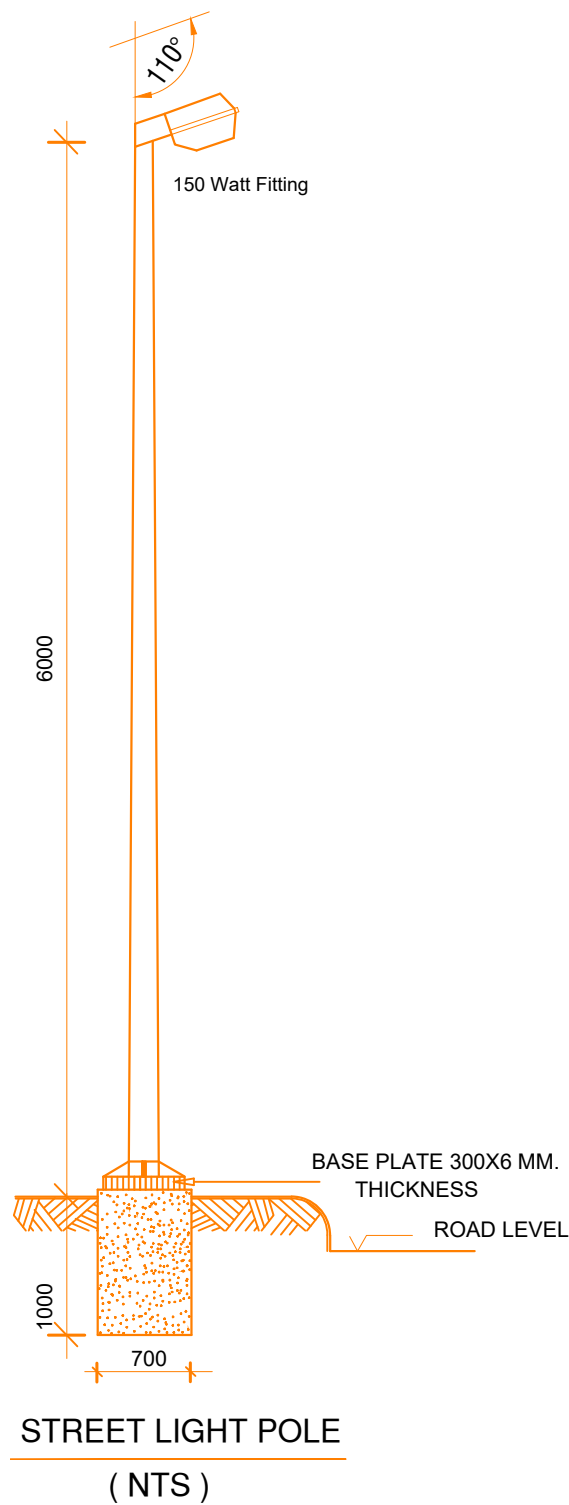
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SECTION G-G

YARD LIGHT FOUNDATION



**COLUMN
SECTION F-F**



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**OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN**

PROJECT:

TITLE:	FUEL RETAIL OUTLET
LOCATION:	DECHEN LAM, TABA
OWNER:	STCBL
PLOT ID:	LTA1-101
CERTIFICATE NO:	THM-211-78
FLOORS:	G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

STRUCTURAL DRAWING

YARD LIGHT

DATE: APRIL 2021

SCALE: NTS

DRAWING
SHEET NO : ST/25

REVISION SUFFIX

NORTH



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OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU: BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

REMARKS

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU
DRAWING TITLE:

STRUCTURAL DRAWING
PYLON FOUNDATION DETAILS

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : ST/26

REVISION SUFFIX

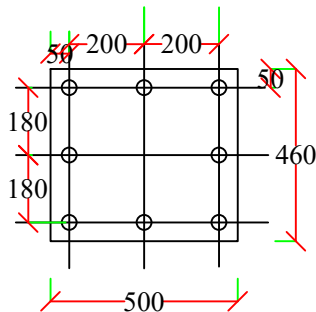
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NORTH

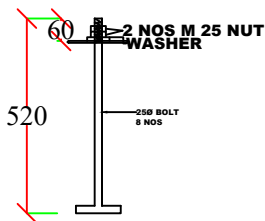


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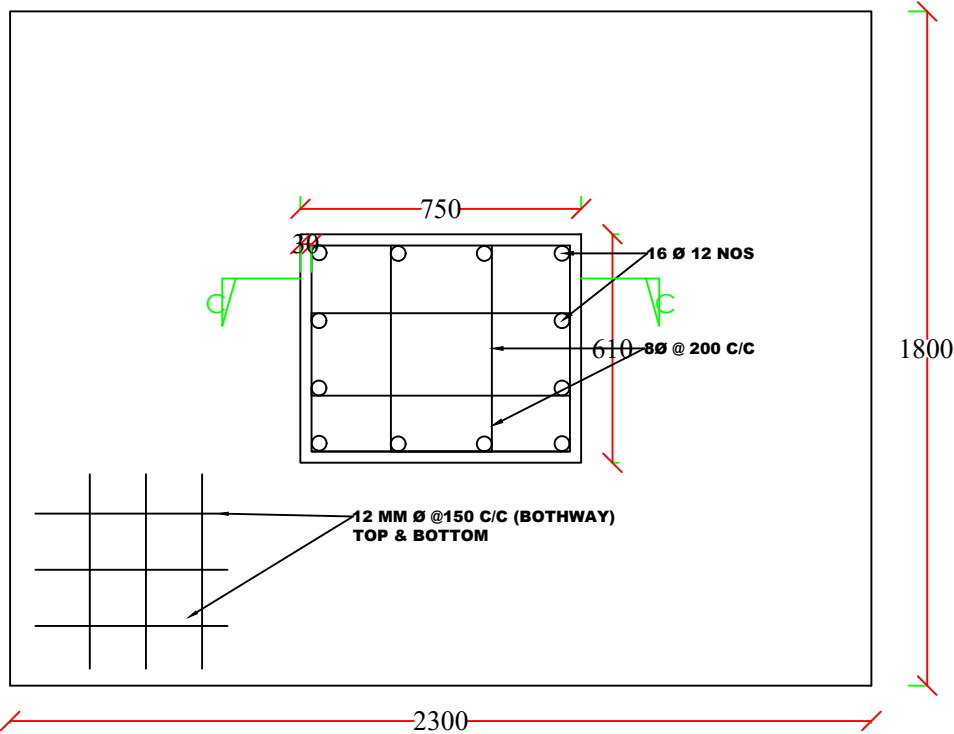
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BASE PLATE

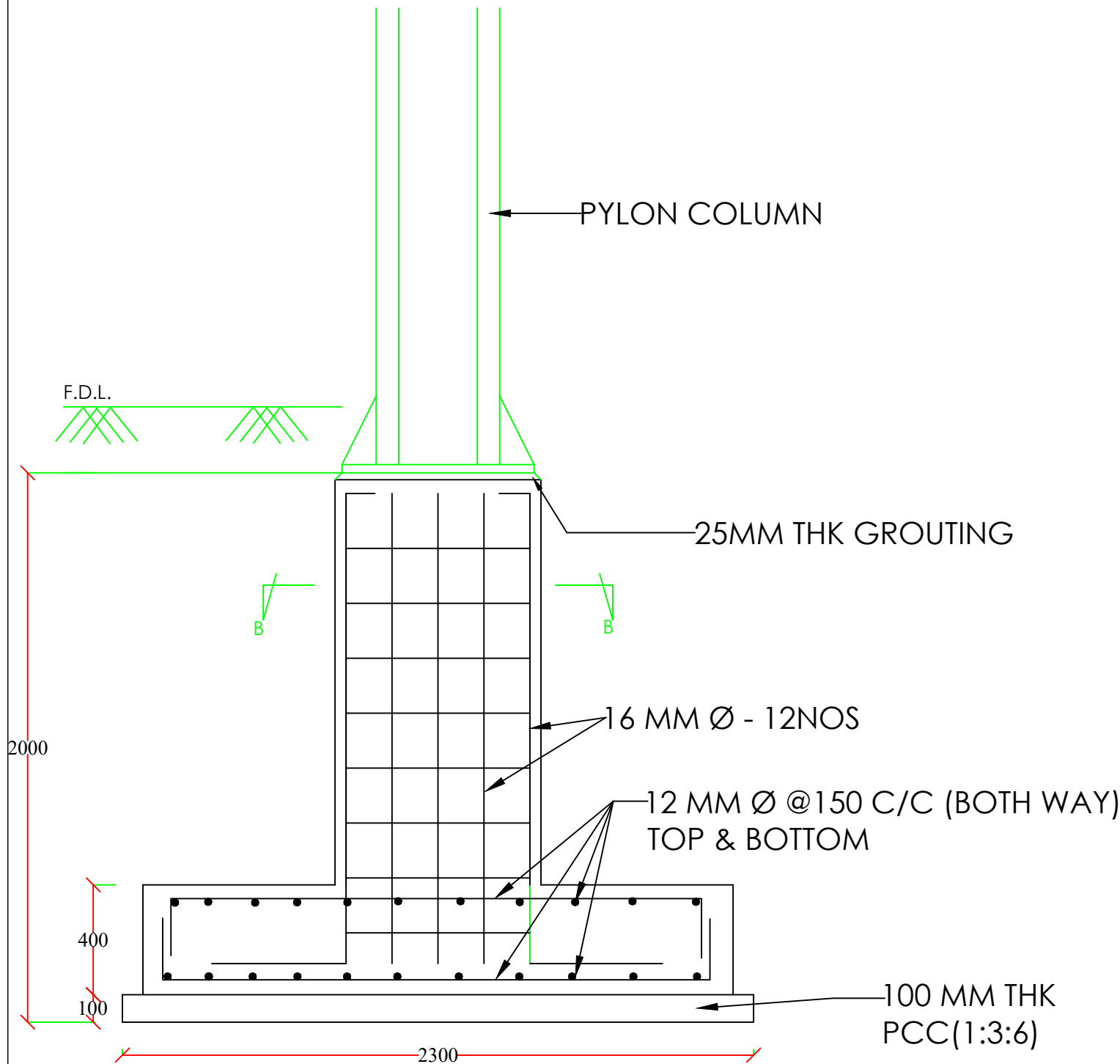


ANCHOR BOLT



SECTION B-B

PYLON FOUNDATION



SECTION C-C

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OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN

PROJECT:

TITLE:	FUEL RETAIL OUTLET
LOCATION:	DECHEN LAM, TABA
OWNER:	STCBL
PLOT ID:	LTA1-101
CERTIFICATE NO:	THM-211-78
FLOORS:	G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU


DRAWING TITLE:

STRUCTURAL DRAWING
SAND BUCKET SHED

DATE: APRIL 2021

SCALE: NTS

DRAWING
SHEET NO : ST/27

REVISION SUFFIX	NORTH
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ZIG ZAG
PAVER BLOCK

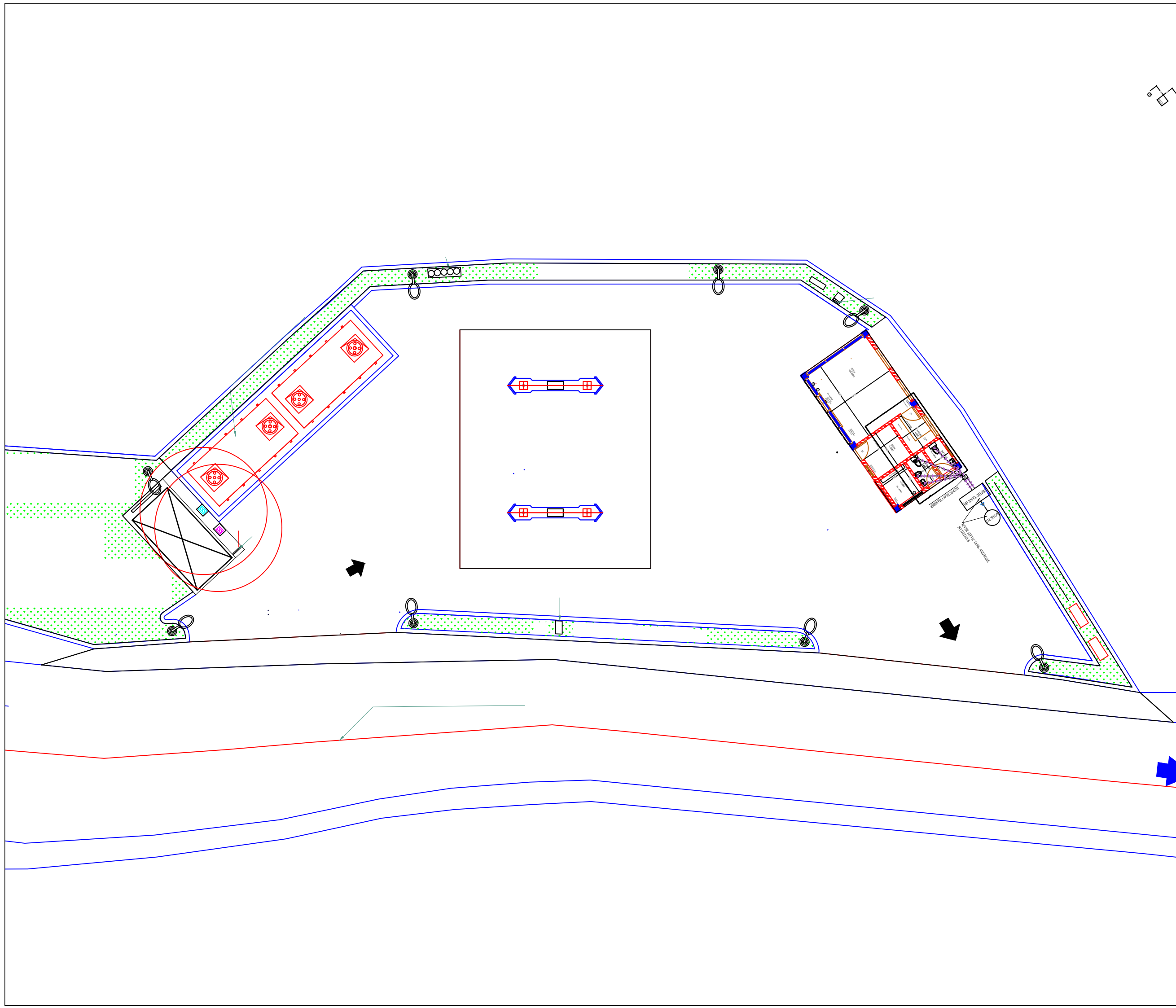
RCC M20 single layer 8mm Ø
@200mm c/c 150mm thick

SEWERAGE DRAWINGS FOR PROPOSED FUEL RETAIL OUTLET, G+J STORIED SALES BUILDING AND OTHER STRUCTURES.

LOCATION: DECHEN LAM,TABA, THIMPHU
THROMDE.

OWNER: STATE TRADING CORPORATION OF
BHUTAN LTD. THIMPHU

OFFICE: FLAT NO 8,GONGDZIN LAM ABOVE 8/11 CONVENIENT STORE NEXT TO THIMPHU THROMDE BUILDING THIMPHU:BHUTAN	
PROJECT:	
TITLE:	FUEL RETAIL OUTLET
LOCATION:	DECHEN LAM, TABA
OWNER:	STCBL
PLOT ID:	LTA1-101
CERTIFICATE NO:	THM-211-78
FLOORS:	G+J STRUCTURE
OWNER SIGNATURE	
DESIGNED BY:	
SUGAN PRADHAN (GENERAL MANAGER, PETROLEUM DIVISION) CIVIL ENGINEER STCBL, THIMPHU	
DRAWING TITLE:	
STRUCTURAL DRAWING	
DATE: APRIL 2021	
SCALE: NTS	
DRAWING	
SHEET NO : SW/00	
REVISION SUFFIX	NORTH
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<div><div>• ALL DIMENSIONS ARE IN METERS (FEETS) UNLESS SPECIFIED OTHERWISE.</div><div>• ALL DIMENSIONS MEASURE UNFINISHED SURFACES UNLESS SPECIFIED OTHERWISE.</div><div>• ALL DIMENSIONS ARE TO BE READ AND NOT SCALE OFF.</div><div>• ANY DISCREPANCY IN DRAWING IS TO BE BROUGHT TO THE IMMEDIATE NOTICE OF THE ARCHITECT AND THE ENGINEER.</div></div>	



OFFICE: FLAT NO 8,GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU:BHUTAN

PROJECT:
TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:
SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU
DRAWING TITLE:

SEWERAGE DRAWING
SITE PLAN

DATE: APRIL 2021

SCALE: NTS

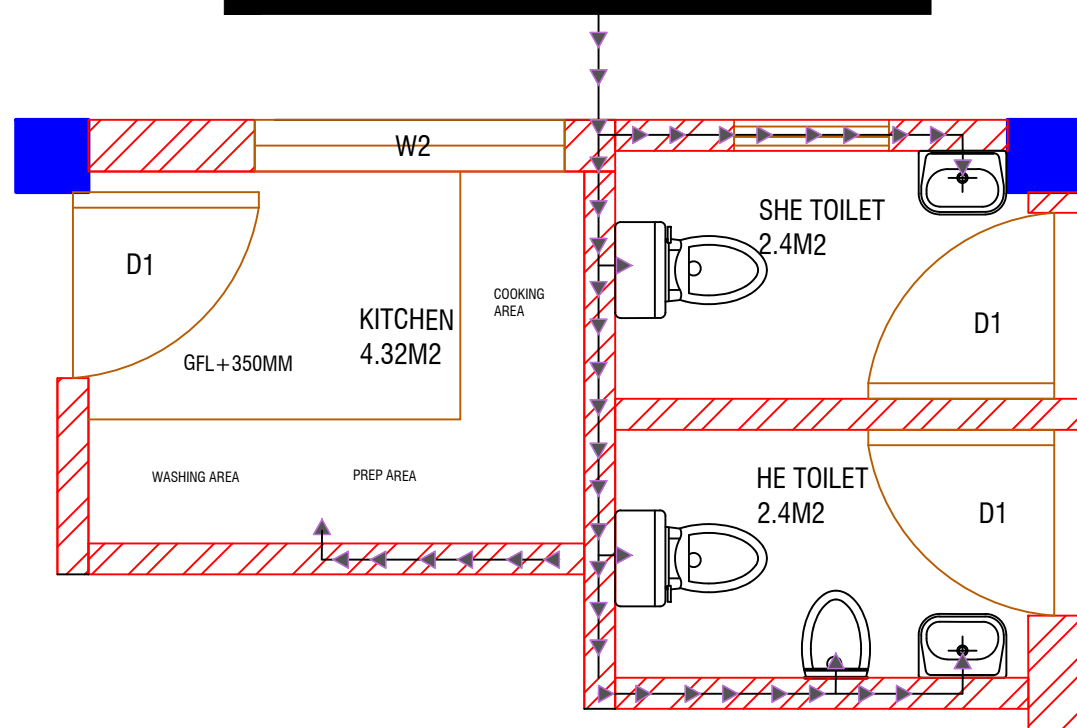
DRAWING
SHEET NO : SW/00

REVISION SUFFIX	NORTH
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Main Supply Pipe from Water Tank



LEGEND

— Main Supply Pipe from Water Tank (32mm dia)

— Distribution Pipe (20mm dia)

Notes for plumbing:

1. Pipes shall be GI, medium duty.
3. Provide separate connections for GF & FF
4. All inlets shall be controlled with gate valve as shown in site plan
5. Pressure testing shall be done before concealing the pipes

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OFFICE: FLAT NO 8, GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU: BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

SEWERAGE DRAWING
WATER SUPPLY & SEWERAGE

DATE: APRIL 2021

SCALE: 1:100

DRAWING :

SHEET NO : SW/02

REVISION SUFFIX

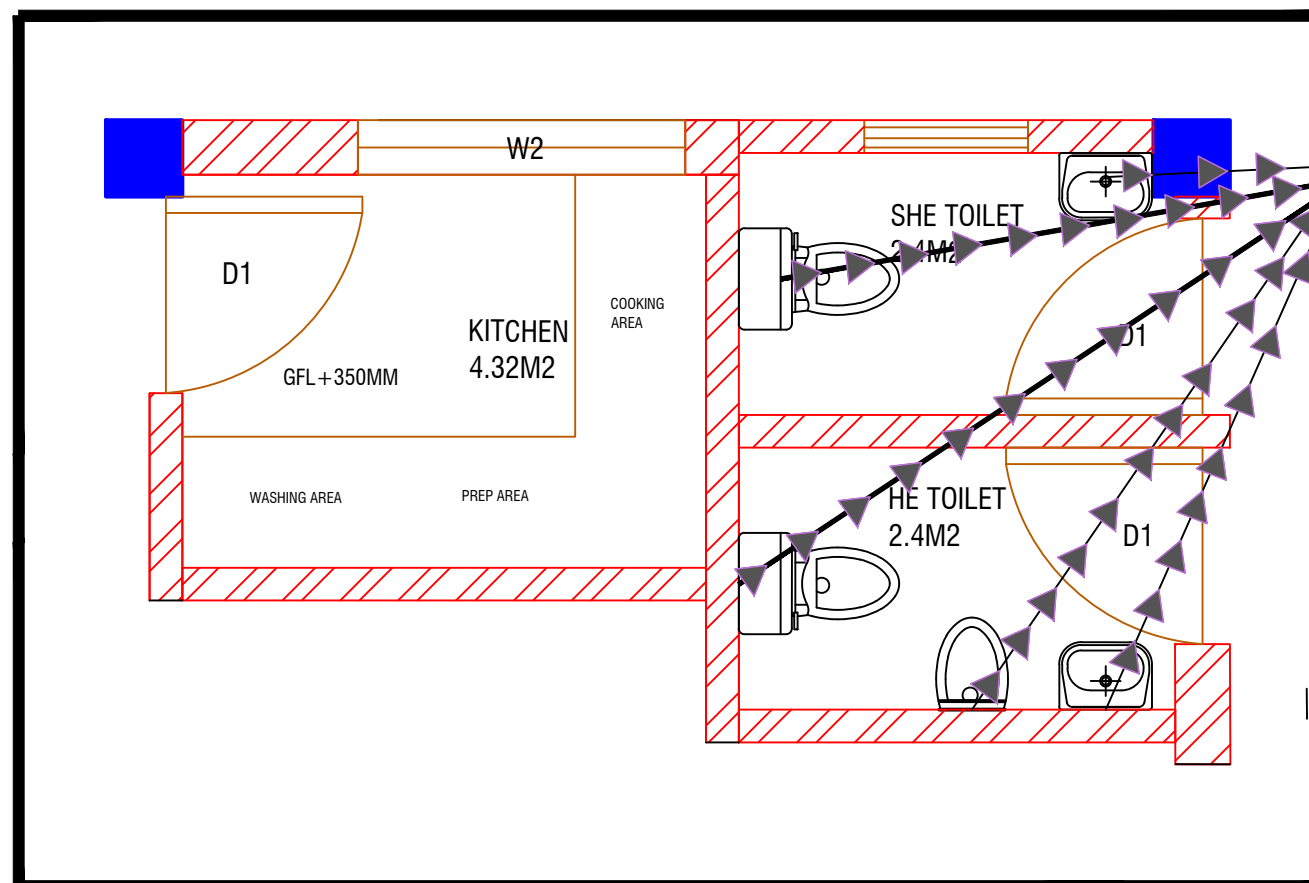
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NORTH



GENERAL NOTE:

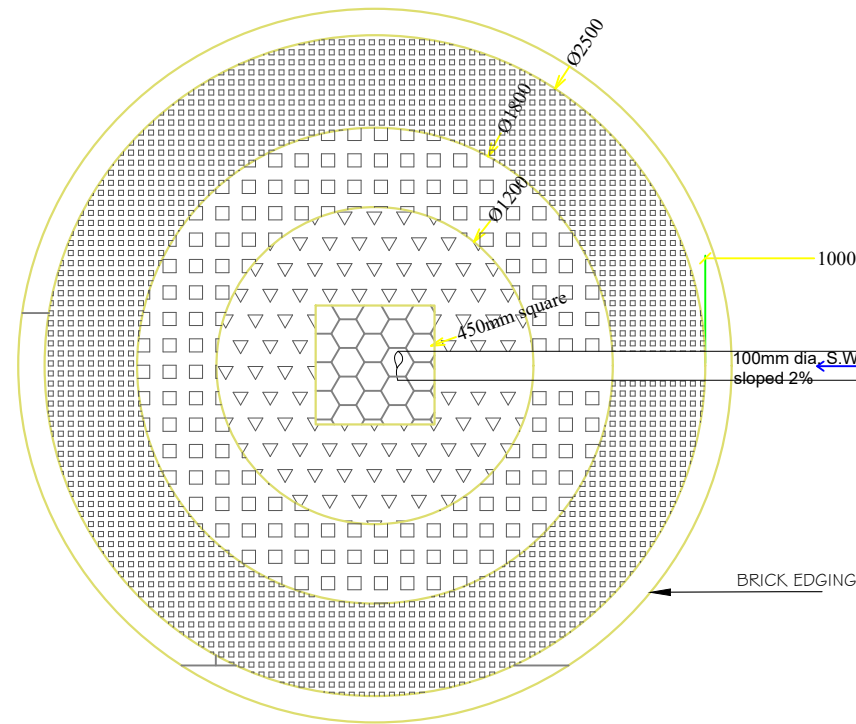
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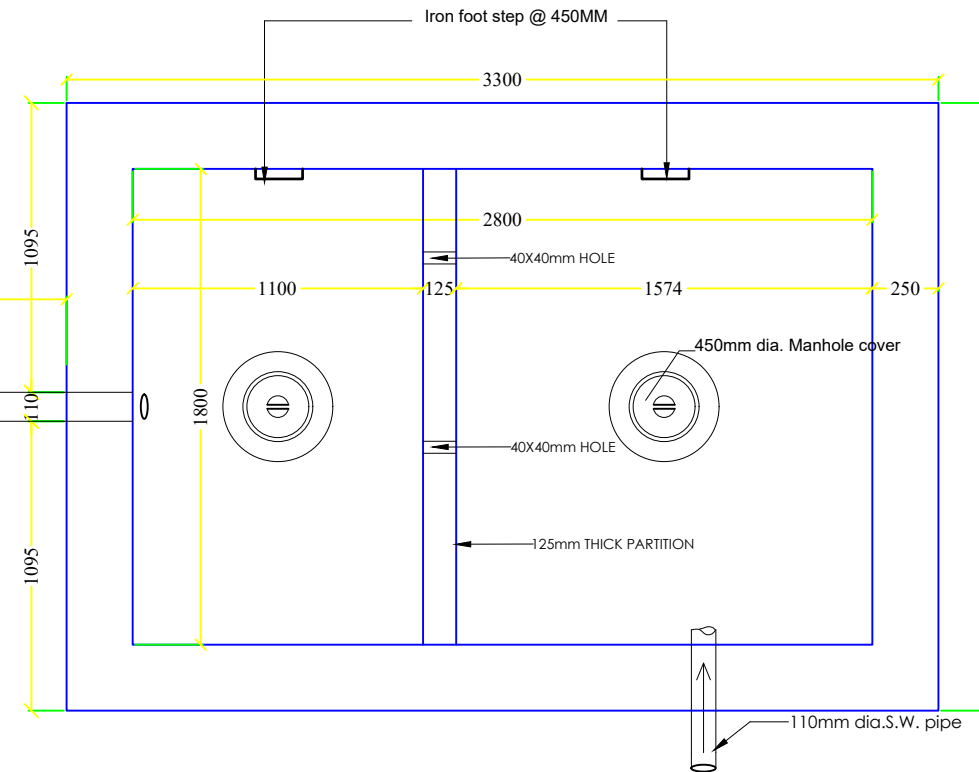
LEGEND

— 50 MM DIA. WASTE PIPE

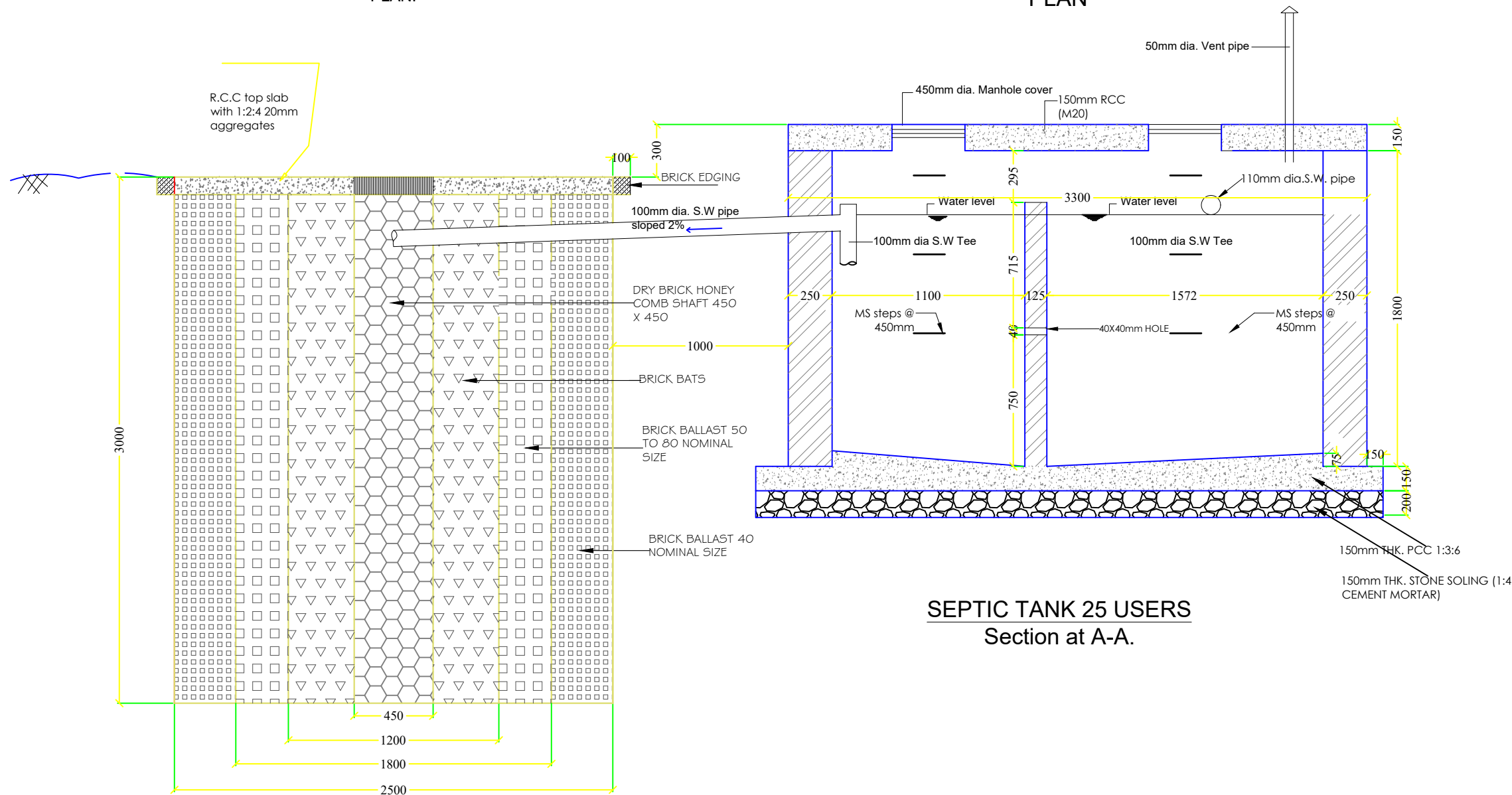
— 110 MM DIA. SOIL PIPE



SOAK PIT
PLAN.



SEPTIC TANK 25 USERS
PLAN



SEPTIC TANK 25 USERS
Section at A-A.

SECTION A-B

SOAK PIT

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OFFICE: FLAT NO 8, GONGDZIN LAM
ABOVE 8/11 CONVENIENT STORE
NEXT TO THIMPHU THROMDE BUILDING
THIMPHU: BHUTAN

PROJECT:

TITLE: FUEL RETAIL OUTLET
LOCATION: DECHEN LAM, TABA
OWNER: STCBL
PLOT ID: LTA1-101
CERTIFICATE NO: THM-211-78
FLOORS: G+J STRUCTURE

OWNER SIGNATURE

DESIGNED BY:

SUGAN PRADHAN
(GENERAL MANAGER, PETROLEUM
DIVISION)
CIVIL ENGINEER
STCBL, THIMPHU

DRAWING TITLE:

SEWERAGE DRAWING
SEPTIC TANK AND SOAK PIT

DATE: APRIL 2021

SCALE: NTS

DRAWING

SHEET NO : SW/03

REVISION SUFFIX

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NORTH



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