
THIMPHU, BHUTAN. 17656338		
PROJECT TITLE		
PROPOSE CONSTRUCTION OF TASHI CELL REGIONAL OFFICE, P/LING, BHUTAN		
ENGINEER		
BHAKTA BDR MONGER		
CLIENT		
TASHI CELL		
DRAWING TITLE		
GENERAL NOTES		
NOTES		
		1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. 2. DIMENSIONS ARE TO BE READ NOT TO BE MEASURED OR SCALED OFF. 3. ONLY APPROVED DRAWINGS SHALL BE USED UNLESS AS MENTIONED BY DESIGNERS.
DATE		26-Jun-23
SCALE		NTS
DWG No		S _{TR} (1)
A. GENERAL	C. LOADING	
1. READ THIS DRAWINGS IN CONJUNCTION WITH ARCHITECTS' AND OTHER ENGINEERS' DRAWINGS AND SPECIFICATIONS, AND SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.	1. THIS STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING NOMINAL LOADS:	
2. ALL DIMENSIONS ARE IN MILIMETRE UNLESS STATED OTHERWISE.	1.1 DEAD LOADS:	
3. DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWINGS.	UNIT WEIGHT OF AAC BLOCK	10 KN/M3
4. DESIGN CONFORMS TO:	UNIT WEIGHT OF BRICK WALL	19 KN/M3
IS456:2000 CODE OF PRACTICE FOR PLAIN AND REINFORCED CONCRETE	UNIT WEIGHT OF RCC	25 KN/M3
IS4326:1993 EARTHQUAKE RESISTANT DESIGN AND CONSTRUCTION OF BUILDINGS	UNIT WEIGHT OF PCC	24 KN/M3
IS13920:2016 DUCTILE DETAILING OF REINFORCED CONCRETE STRUCTURES SUBJECTED TO SEISMIC FORCES	1.2 SUPERIMPOSED LOADS(LIVE LOADS):	
IS 875 : 1987(Part 1 to 3) CODE OF PRACTICE FOR DESIGN LOADS(OTHER THAN EARTHQUAKE) FOR BUILDINGS AND STRUCTURES.	LIVE LOAD FOR ROOMS	2.0 N/MM2
IS 1893 (Part 1) : 2002 CRITERIA FOR EARTHQUAKE RESISTANT DESIGN OF STRUCTURES.	LIVE LOAD FOR STAIRCASE	3.0 N/MM2
5. VERIFY ALL SETTING OUT DIMENSIONS WITH THE ENGINEER/ARCHITECT. VERIFY LOCATION AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, WASHES, DRIPS, DEPRESSIONS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.	LIVE LOAD FOR ROOF	0.75 N/MM2 (Non-accessible)
6. IF IN DOUBT, ASK.	LIVE LOAD FOR GANTRY	5 N/MM2
7. REFER ANY DISCREPANCY TO ENGINEER/ARCHITECT BEFORE PROCEEDING WITH THE WORK.	1.3 WIND LOAD:	
8. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE SPECIFICATIONS FOR BUILDING AND ROAD WORKS TOGETHER WITH THE REQUIREMENTS OF ALL RELEVANT CODES OF PRACTICE REFERRED TO HEREIN AND THE REQUIREMENTS OF ALL STATUTORY AUTHORITIES.	BASIC WIND SPEED (ASSUMED)	45 M/S
9. CHECK ALL DIMENSIONS BEFORE STARTING WORK.	BUILDING CLASS	A
10. ALWAYS REFER ADDITIONAL NOTES PROVIDED IN THE DRAWINGS.	TERRAIN CATEGORY	III
11. UNLESS OTHERWISE INDICATED, DETAILS SHOWN ARE TO BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS.	1.4 EARTHQUAKE DESIGN DATA	
12. NO FRAMING OR STRUCTURAL MEMBERS ARE TO BE MODIFIED, NOTCHED, OR CUT WITHOUT THE APPROVAL OF THE ENGINEER.	SEISMIC ZONE	V
13. THE OWNNER SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED WORK. ANY VARIATIONS OR SUBSTITUTIONS OF MATERIALS OR DETAILS FROM THOSE INDICATED ON THE DRAWINGS MAY ONLY BE MADE WITH PRIOR APPROVAL OF THE ENGINEER.	BASIC SEISMIC FORCE RESISTING SYSTEM	SPECIAL MOMENT RESISTING FRAME
	ANALYSIS PROCEDURE	EQUVALENT LATERAL FORCE PROCEDURE
	2. MAINTAIN STRUCTURE IN STABLE CONDITION DURING CONSTRUCTION.	
	3. DO NOT PLACE OR STORE BUILDING MATERIALS ON CONCRETE MEMBERS WITHOUT ENGINEER'S APPROVAL.	
B. FOUNDATION	D. CONCRETE	
1. FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING CAPACITY OF 150KPA. VERIFY THE SOIL STRENGTH AND OBTAIN APPROVAL FROM THE ENGINEER BEFORE PLACING CONCRETE.	1. CONCRETE QUALITY SHALL COMPLY WITH IS456:2000	
2. FOUNDATION SHALL BEAR ON UNDISTURBED NATURAL MATERIAL OR PROPERLY PLACED AND COMPACTED CONTROLLED STRUCTURAL FILL HAVING A MINIMUM BEARING CAPACITY OF 150 KPA.	2. PROJECT ASSESSMENT OF CONCRETE STRENGTH IS REQUIRED.	
3. CONTROLLED STRUCTURAL FILL SHALL CONSIST OF CLEAN GRANULAR MATERIAL FREE OF ORGANIC OR OTHER DELETERIOUS MATTER AND CONFORM TO THE REQUIREMENTS OF STANDARDS AND QUALITY CONTROL AUTHORITY.	3. GRADE OF CONCRETE IS M20(1:1.5:3) FOR ALL RCC WORKS	
4. MASONRY WALLS IN THE FORM OF RANDOM RUBBLE MASONRY SHALL BE PROVIDED BELOW THE EXTERIOR AS WELL AS INTERIOR PLINTH BEAM.	4. FOR THE ABOVE GRADE TO BE ACHIEVED, MAXIMUM FREE WATER-CEMENT RATIO SHALL BE 0.55, MINIMUM CEMENT CONTENT SHALL BE 300KG/M3 AND MAXIMUM AMOUNT OF WATER SHALL BE 165L FOR 300KG/M3 OF CEMENT.	
5. FOOTINGS ARE DESIGNED CONSIDERING THE MINIMUM DEPTH OF 1500MM BELOW THE ORIGINAL GROUND LEVEL. NOTIFY ENGINEER IF THE DEPTH OF FOOTINGS REQUIRED TO BE PROVIDED VARIES FROM THE DEPTH SPECIFIED ABOVE.	5. ONLY POTABLE WATER SHALL BE USED FOR MIXING AND CURING, AND SHALL COMPLY TO THE REQUIREMENTS OF IS456:2000.	
6. ALL EXCAVATION SHALL BE DRY BEFORE PLACING ANY CONCRETE.	6. MECHANICALLY VIBRATE CONCRETE IN THE FORM TO GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION OF THE CONCRETE.	
7. IF SEEPAGE IS ENCOUNTERED DURING FOUNDATION EXCAVATION, PUMP OUT WATER BEFORE PLACING CONCRETE.	7. CURE CONCRETE AS REQUIRED BY THE CLASUE 13.5 OF IS456:2000 AND WORK SPECIFICATIONS.	
8. THE FOUNDATIONS UNDER THE CONCRETE BASE SLAB SHALL BE COMPACTED THROUGHLY AND A MINIMUM 200MM LAYER OF COURSE AGGREGATE SHALL BE PLACED OVER THE COMPACTED EARTH AND SEALED WITH 75MM THICK LAYER OF BLINDING CONCRETE.	8. IN THE DRAWINGS THE BEAM SIZES ARE DESIGNATED WIDTH X DEPTH (INCLUDES SLAB THICKNESS IF ANY).	
9. BACKFILLING AGAINST BUILDING FOUNDATION WALLS SHALL BE DONE ONLY AFTER WALLS ARE BRACED TO PREVENT MOVEMENT.	9. CONCRETE SIZES AS DRAWN ARE MINIMUM AND DO NOT INCLUDE APPLIED FINISHES.	
10. CARE SHALL BE TAKEN NOT TO OVERSTRESS ANY ADJACENT RETAINING WALLS AND STRUCTURES DURING BACKFILLING AROUND FOUNDATIONS.	10. DO NOT MAKE UNSPECIFIED HOLES OR CHASES WITHOUT ENGINEER'S PRIOR APPROVAL.	
11. COMPACTION OF FOUNDATION SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT OF CONCRETE.	11. DO NOT PLACE CONDUITS, PIPES AND THE LIKE WITHIN COVER CONCRETE.	
	12. AGGREGATES SHALL COMPLY WITH CLAUSE 5.3 OF IS456:2000. NOMINAL SIZE OF COARSE AGGREGATES SHALL BE 20MM.	
	13. THE CHARACTERISTIC STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 20MPA. THE CONCRETE SHALL BE ASSESSED AS PER THE ACCEPTANCE CRITERIA OUTLINED IN CLAUSE 16 OF IS456:2000 OR ANY OTHER STATUTORY AUTHORITIES.	
	14. ALL FORMWORKS FOR BEAMS AND SLABS ARE TO BE REMOVED BEFORE CONSTRUCTION OF WALLS OR OTHER PERMANENT LOADINGS. ALL FORMWORK AND ITS REMOVAL MUST BE IN ACCORDANCE TO IS456:2000.	
	15. ALL FLOOR SLABS ARE REINFORCED CONCRETE SLABS.	

E. REINFORCEMENT

1. GRADE OF STEEL USED FOR RCC WORKS SHALL BE FE500(TMT).
2. BAR NOTATION GIVES THE FOLLOWING INFORMATION IN THIS ORDER:NUMBER OF BARS; BAR SIZE(MM); SPACING (MM, IF REQUIRED).
3. REINFORCEMENT IS REPRESENTED DIAGRAMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
4. LAP REINFORCEMENT ONLY AT LOCATIONS SHOWN IN THE DRAWINGS. LAP LENGTH SHALL COMPLY WITH IS456:2000. LAP SPLICES SHALL NOT BE LESS THAN THE DEVELOPMENT LENGTH IN TENSION(GENERALLY 47X Ø).
5. REINFORCEMENT SHALL NOT BE CUT, BENT OR HEATED ON SITE WITHOUT ENGINEER'S PRIOR APPROVAL.
6. THE DEVIATION OF REINFORCEMENT FROM ITS SPECIFIED POSITION SHALL NOT EXCEED THE FOLLOWING(MM):

6.1) TOLERENCE FOR COVER -0,+10 MM. WHERE A NEGATIVE VALUE INDICATES A DECREASE IN SPECIFIED COVER, AND POSITIVE VALUE INDICATES AN INCREASE IN COVER.

6.2) TOLERENCES ON PLACING OF REINFORCEMENT:

I) FOR SLABS AND STAIRCASE -10,+10MM.
II) FOR BEAMS COLUMNS AND FOUNDATION -15,+15 MM.
7. SPACERS AND SUPPORTS SHALL BE LOCATED AT CENTRES CLOSE ENOUGH(PREFERABLY NOT EXCEEDING 750MM C/C FOR COLUMN AND BEAM REINFORCEMENT, AND 450MM FOR SLAB REINFORCEMENT) TO PREVENT DISPLACEMENT OF REINFORCEMENT BY WORKMEN OR EQUIPMENT DURING FIXING AND SUBSEQUENT CONCRETE PLACEMENT WITHIN THE TOLERENCE GIVEN IN 6 ABOVE.
8. THE COVER TO THE REINFORCEMENT NEAREST TO THE CONCRETE SURFACE SHALL NOT BE LESS THAN THE FOLLOWING EXCEPT WHERE SPECIFIED OTHERWISE:

BEAMS25 MM
COLUMNS40 MM
FLOOR SLABS AND STAIRCASE20 MM
FOUNDATION50 MM
9. BENDING OF REINFORCEMENT IN BEAMS AND COLUMNS SHALL COMPLY WITH THE REQUIREMENTS OF IS456:2000.
10. REINFORCEMENT SHALL BE SUBJECT TO LABORATORY TEST TO DETERMINE DUCTILE PROPERTY.
11. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT. NOTIFY ENGINEER AT LEAST 48 HOURS PRIOR TO SCHEDULED CONRETE PLACEMENT, TO ALLOW TIME FOR INSPECTION.

F. TIMBER

1. ALL STRUCTURAL TIMBER SHALL CONFORM TO THE IS883.(If available use the Bhutanese Timber Code)
2. MOISTURE CONTENT OF THE STRUCTURAL TIMBER SHALL NOT EXCEED 12%.
3. ALL STRUCTURAL TIMBER SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS, Fb, OF 7MPA, A MINIMUM ALLOWABLE HORIZONTAL SHEAR STRESS, Fv, OF 0.6MPA, A MINIMUM MODULUS OF ELASTICITY, E, OF 9800MPA, AND MAXIMUM UNIT WEIGHT OF 5.75 KN/M3.

G. FORMWORK

1. PROPERLY BRACE AND SHORE FORMWORK TO MAINTAIN ALIGNMENT AND TOLERANCE IN ACCORDANCE WITH IS456:2000.
2. FORMWORK SHALL COMPLY WITH CLAUSE 11 OF IS456:2000.
3. STRIPPING OF FORMWORK SHALL COMPLY WITH CLAUSE 11.3 OF IS456:2000.



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ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

GENERAL NOTES

NOTES

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DATE26-Jun-23

SCALENTS

DWG NoS_{TR} (2)



PROPOSE CONSTRUCTION OF TASHI CELL REGIONAL OFFICE, P/LING, BHUTAN

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TASHI CELL

FOUNDATION LAYOUT

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SCALE	NTS
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COLUMN & JOINT DETAILING

- SPECIAL CONFINING REINFORCEMENT AS PER 7.4.1
- TRANSVERSE REINFORCEMENT AS PER 7.3.3
- JOINT REINFORCEMENT AS PER 8.1
- COVER
- SPLICE
- TRANVERSE REINFORCEMENT AS PER 7.2.1
- CONFINED JOINT WITH BEAMS FRAMING INTO ALL FOUR SIDES CONFINING REINFORCEMENT AS PER 8.2
- SPECIAL CONFINING REINFORCEMENT ≥ 300 mm

SPLICE WITH OFFSET CRANKED BAR IN COLUMN

ANCHORAGE OF BEAM BARS IN AN EXTERNAL JOINT

CANTILEVER BEAM PROJECTING FROM A BEAM OVER A COLUMN

CANTILEVER SLAB PROJECTING FROM A BEAM

ADDITIONAL REINFORCING BARS

- ADDITIONAL REINFORCEMENT AROUND RECTANGULAR OPENING IN A SLAB
- ADDITIONAL REINFORCEMENT AROUND CIRCULAR OPENING IN A SLAB

LAP, SPLICE IN BEAM

SECONDARY-MAIN BEAM CONNECTION DETAILS

BEAM REINFORCEMENT

	Fe500	8 ϕ	10 ϕ	12 ϕ	16 ϕ	20 ϕ	25 ϕ
M20	456	570	684	912	1140	1425	
M25	403	503	604	805	1006	1258	

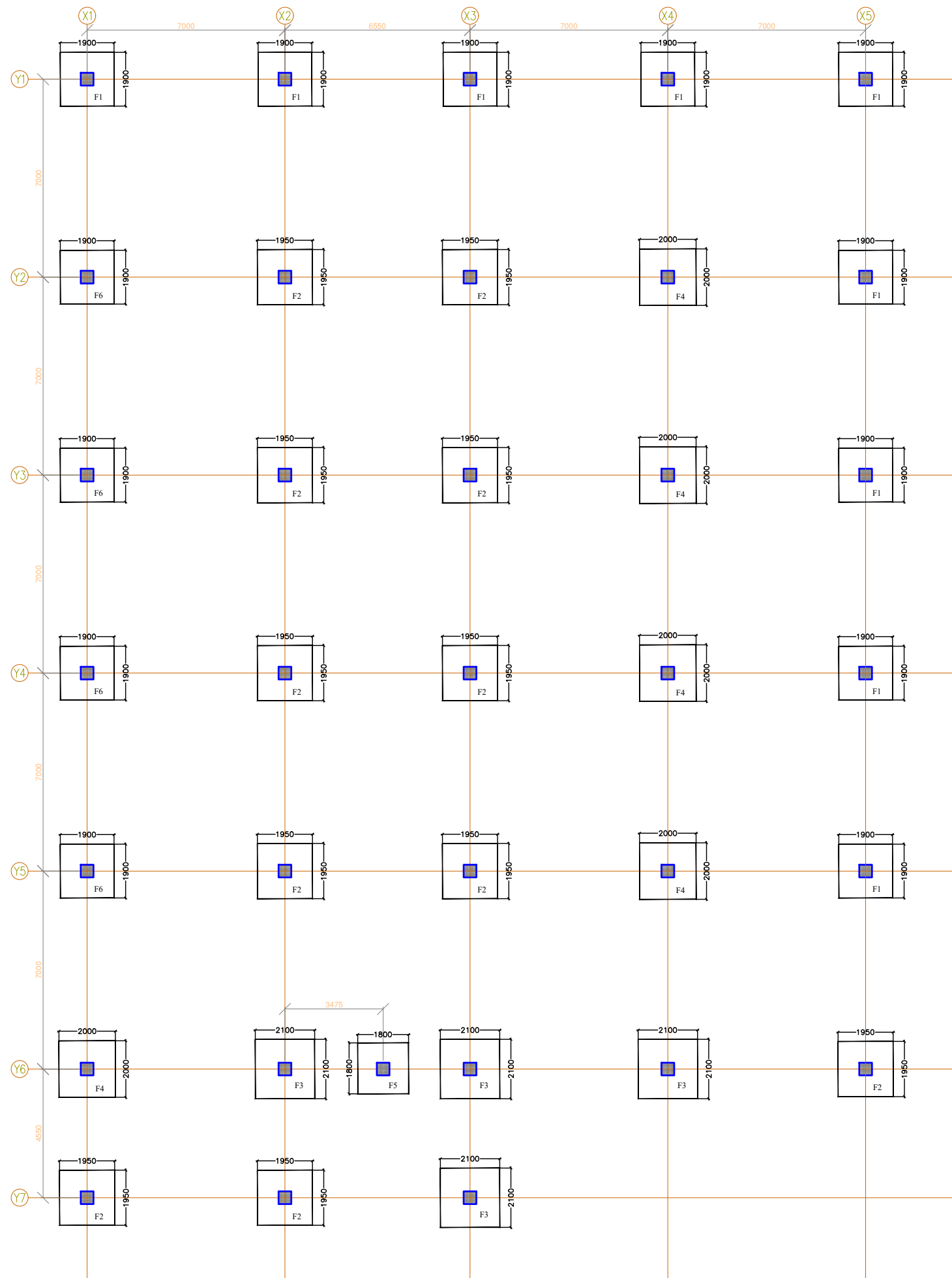
NOTE:

- ALL DIMENSIONS ARE IN MM.
- ANCHORAGE LENGTH, $L_a = L_d + 10 \phi_b$
- LENGTH L_0 SHALL NOT BE LESS THAN EITHER OF THE FOLLOWING
 - LARGER LATERAL DIMENSIONS OF THE MEMBER AT THE SECTION
 - $> 1/6$ OF CLEAR SPAN OF THE MEMBER
 - 450 MM

Fe500	8ø	10ø	12ø	16ø	20ø	25ø
M20	456	570	684	912	1140	1425
M25	403	503	604	805	1006	1258

NOTE:

1. ALL DIMENSIONS ARE IN MM.
2. ANCHORAGE LENGTH, $L_a = L_d + 10 \text{ db}$
3. LENGTH LO SHALL NOT BE LESS THAN
EITHER OF THE FOLLOWING
 - a) LARGER LATERAL DIMENSIONS OF THE
MEMBER AT THE SECTION
 - b) $\geq 1/6$ OF CLEAR SPAN OF THE MEMBER
 - c) 450 MM



FOUNDATION LAYOUT PLAN



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FOOTING LAYOUT

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COMBINED FOOTING DETAILS

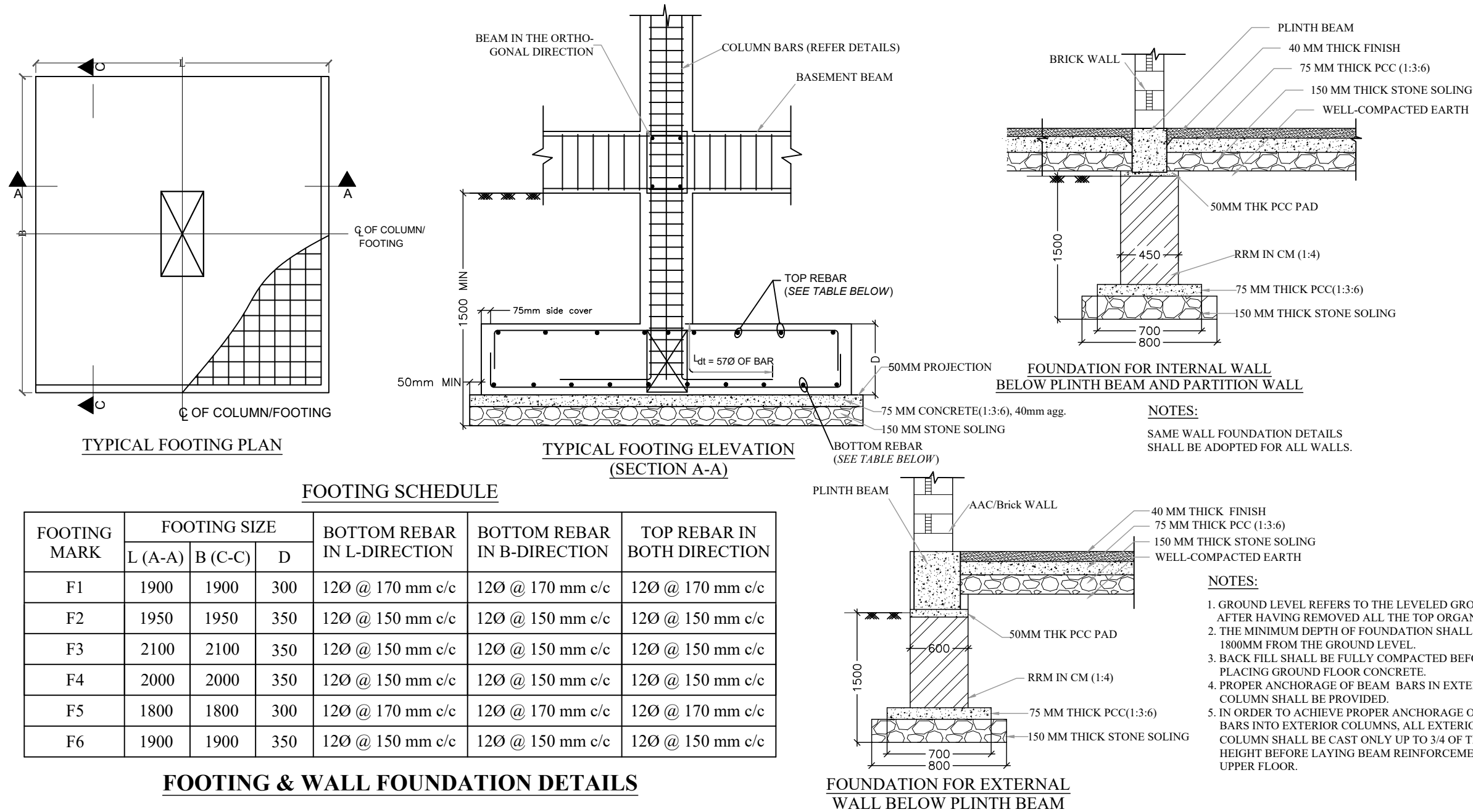
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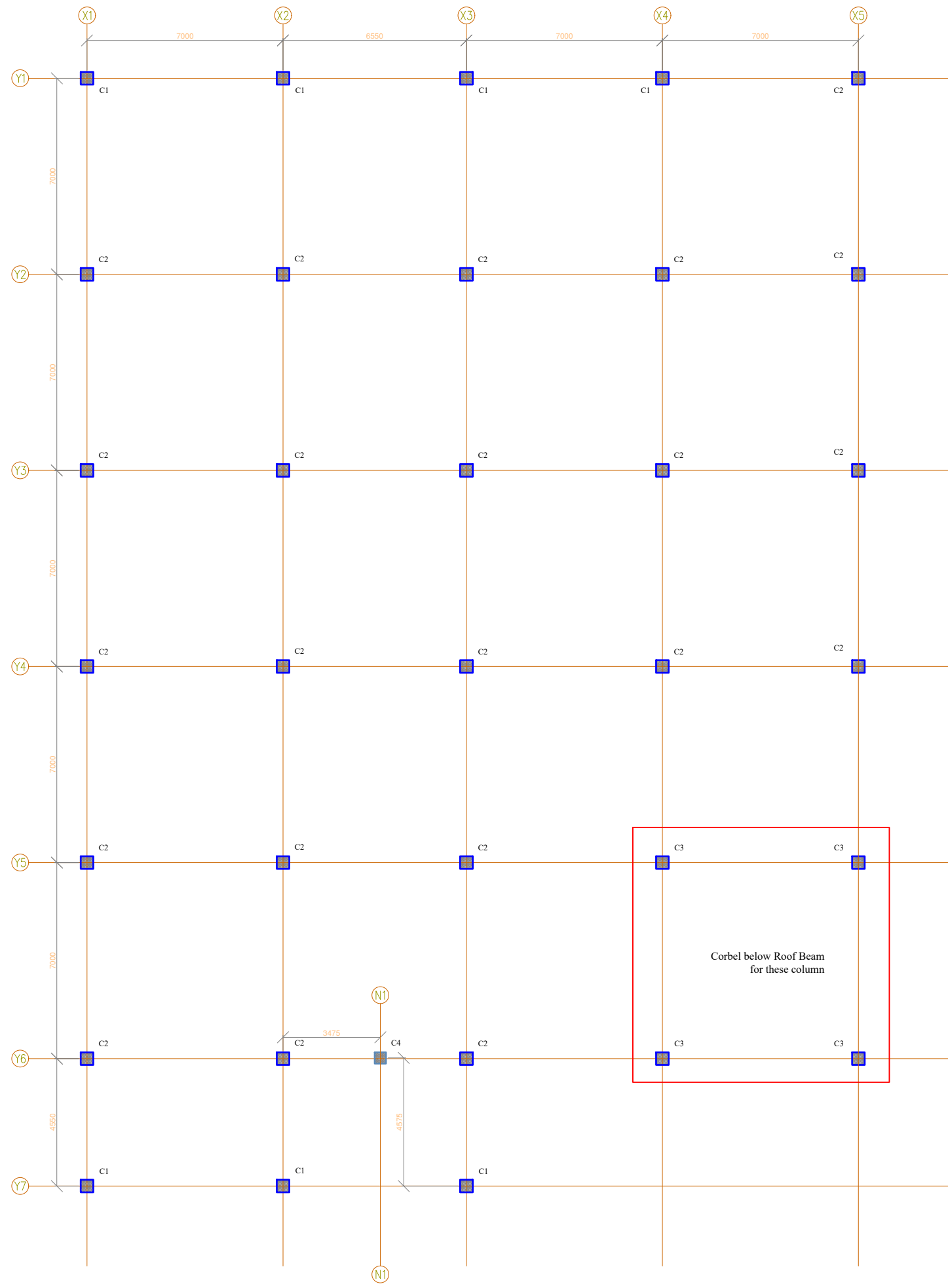
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DWG No S_{TR} (4.5)





COLUMN LAYOUT PLAN



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DRAWING TITLE

COLUMN LAYOUT

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DRAWING TITLE

COLUMN SCHEDULE

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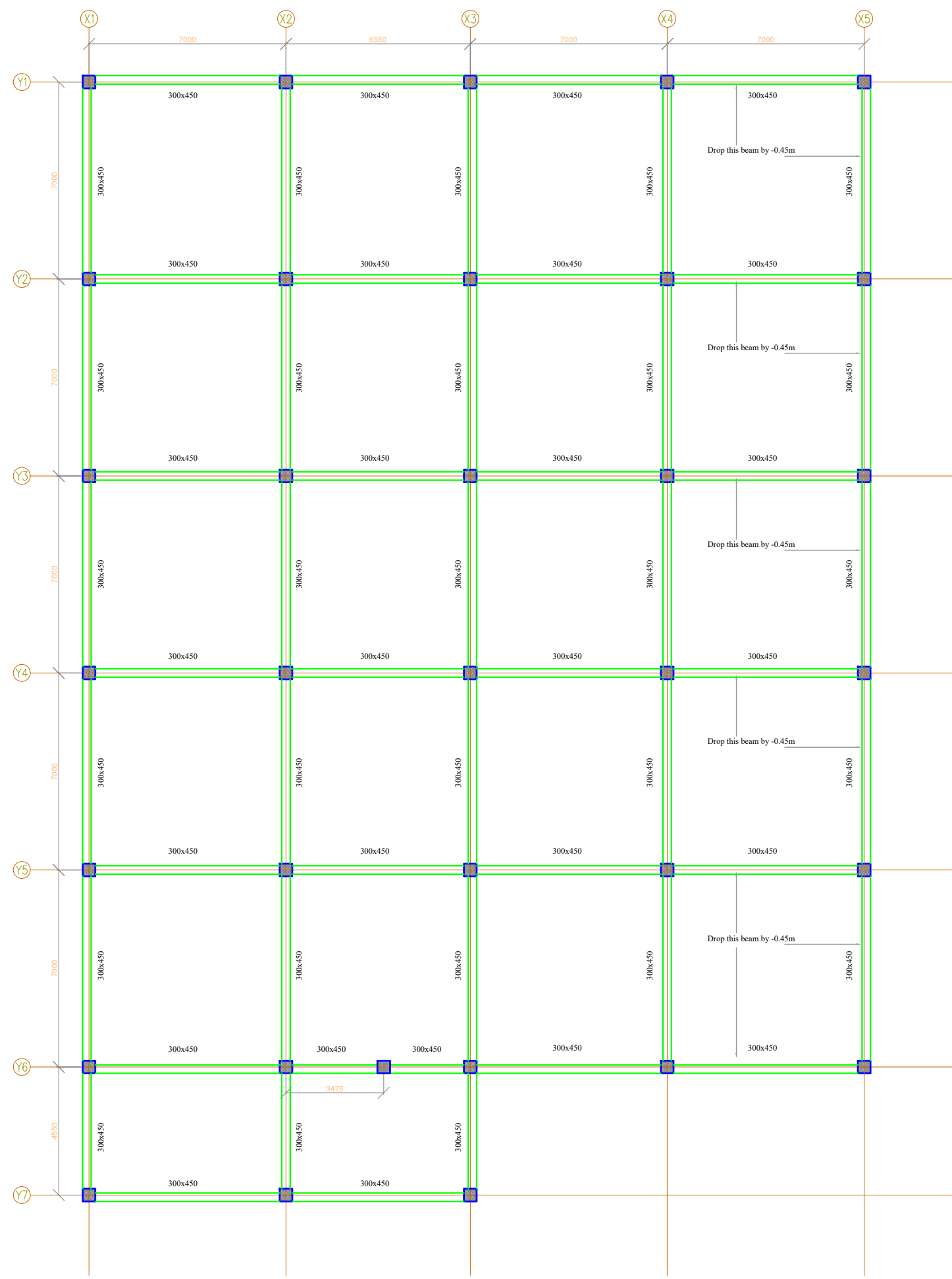
DATE26-Jun-23

SCALENTS

DWG NoSTR 6

RCC COLUMN SCHEDULE

SL. NO.	COLUMN NAME	SIZE (mm)	REINFORCEMENT DETAILS			C/S SECTION DETAILS	STIRRUPS SHAPE
			LONGITUDINAL REINFORCEMENT	SHEAR STIRRUPS (TIES)			
				AT SPLICES & UPTO TOP FLOOR LEVEL (S1)	ALL OTHER AREAS (S2)		
1	C1	450x450	20 TMT-4 NOS + 16 TMT-4NOS	8 TMT @ 100mm C/C	8 TMT @ 150mm C/C		
2	C2	450x450	20 TMT-8 NOS	8 TMT @ 100mm C/C	8 TMT @ 150mm C/C		
3	C3	450x450	25 TMT-4 NOS + 20 TMT-4NOS	8 TMT @ 100mm C/C	8 TMT @ 150mm C/C		
4	C4	450x450	20 TMT-4 NOS + 16 TMT-4NOS	8 TMT @ 100mm C/C	8 TMT @ 150mm C/C		



PLINTH BEAM LAYOUT PLAN



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BEAM LAYOUT PLAN

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SCALE NTS

DWG No S_{TR} 7

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DRAWING TITLE

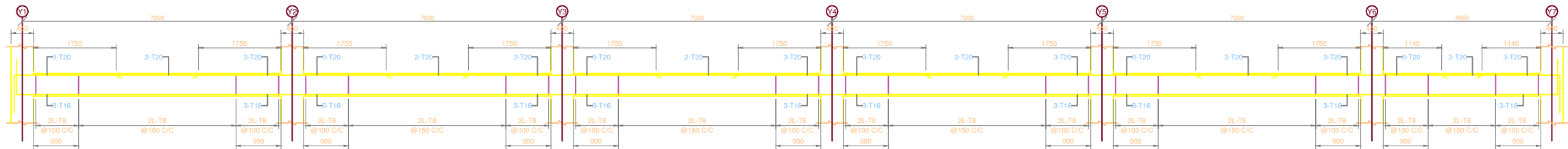
BEAM LAYOUT PLAN

- NOTES
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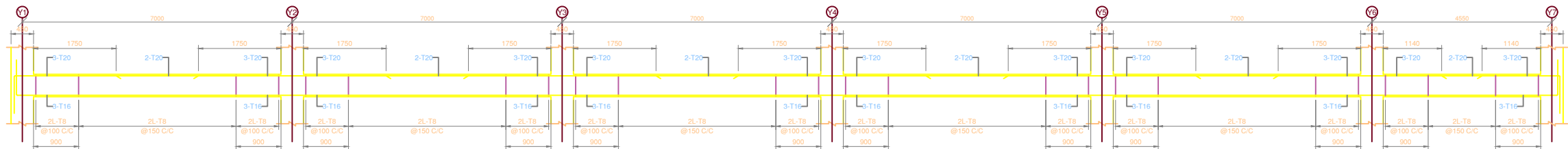
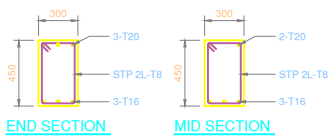
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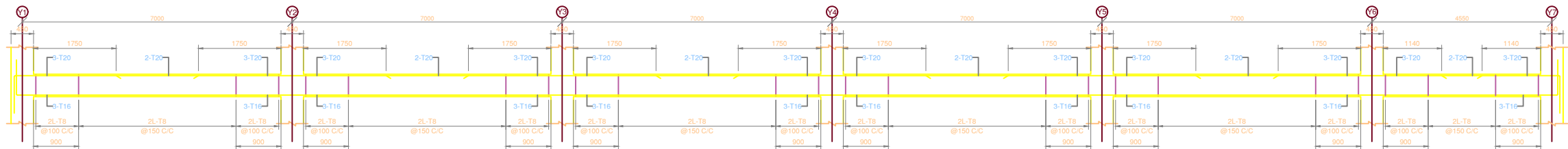
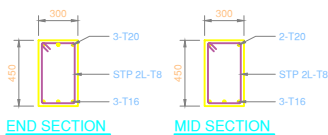
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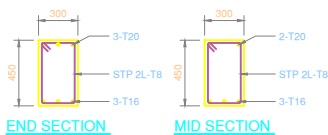
PLINTH BEAM ALONG GRID X1-X1



PLINTH BEAM ALONG GRID X2-X2



PLINTH BEAM ALONG GRID X3-X3



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TYPICAL ARRANGEMENT OF STIRRUPS

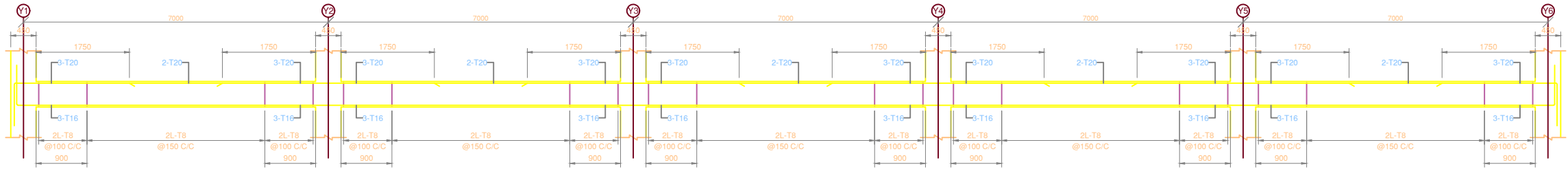
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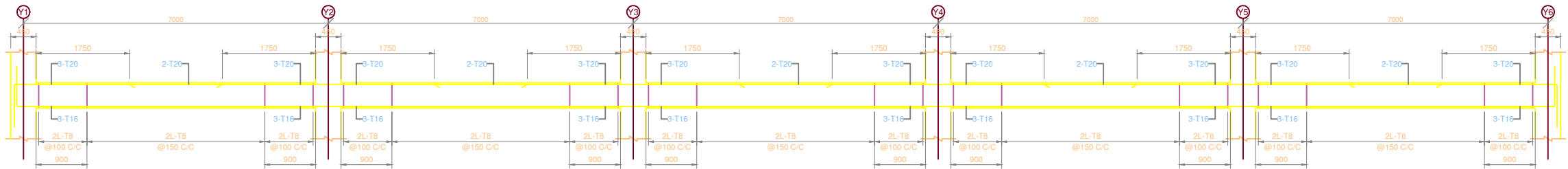
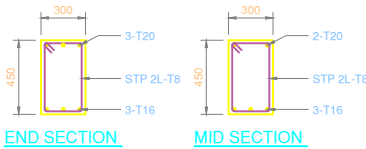
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SCALENTS

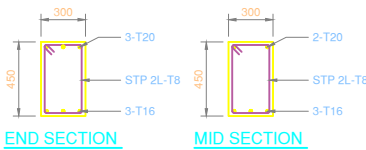
DWG NoSTR 9



PLINTH BEAM ALONG GRID X4-X4



PLINTH BEAM ALONG GRID X5-X5 @ -0.45 M LVL FROM G.L





PROPOSE CONSTRUCTION OF TASHI CELL REGIONAL OFFICE, P/LING, BHUTAN

BHAKTA BDR MONGER

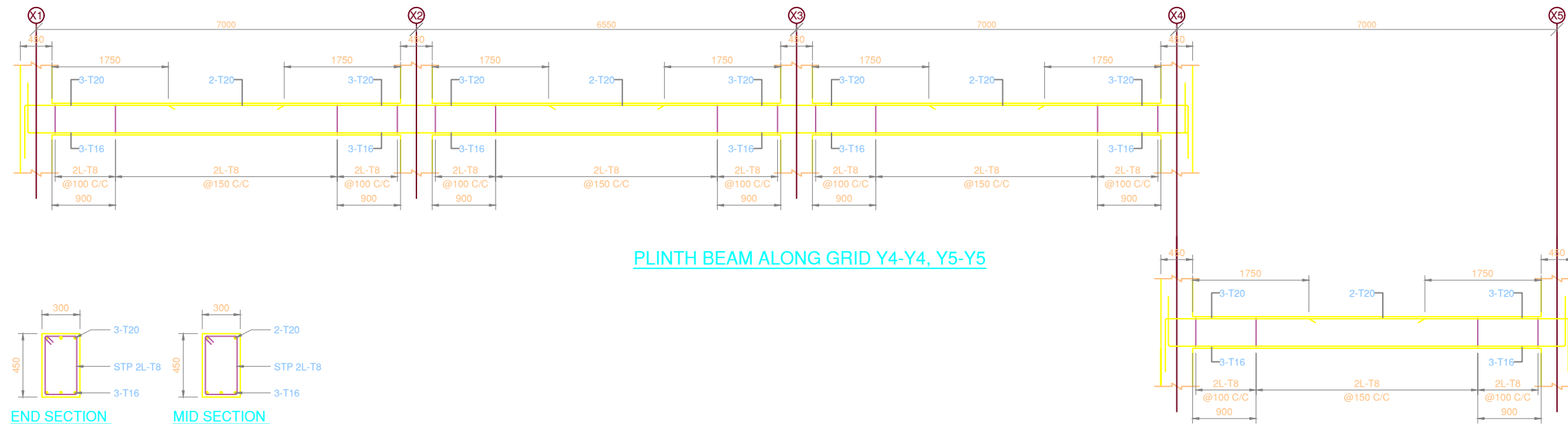
TASHI CELL

BEAM LAYOUT PLAN

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DWG No	S _{TR} 10
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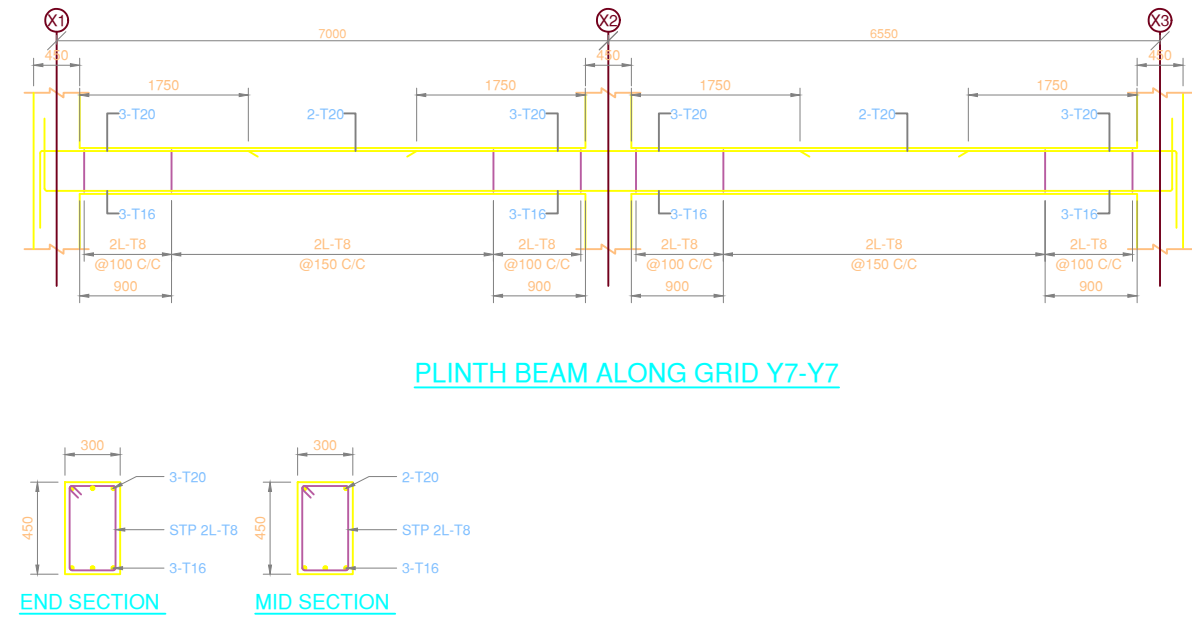
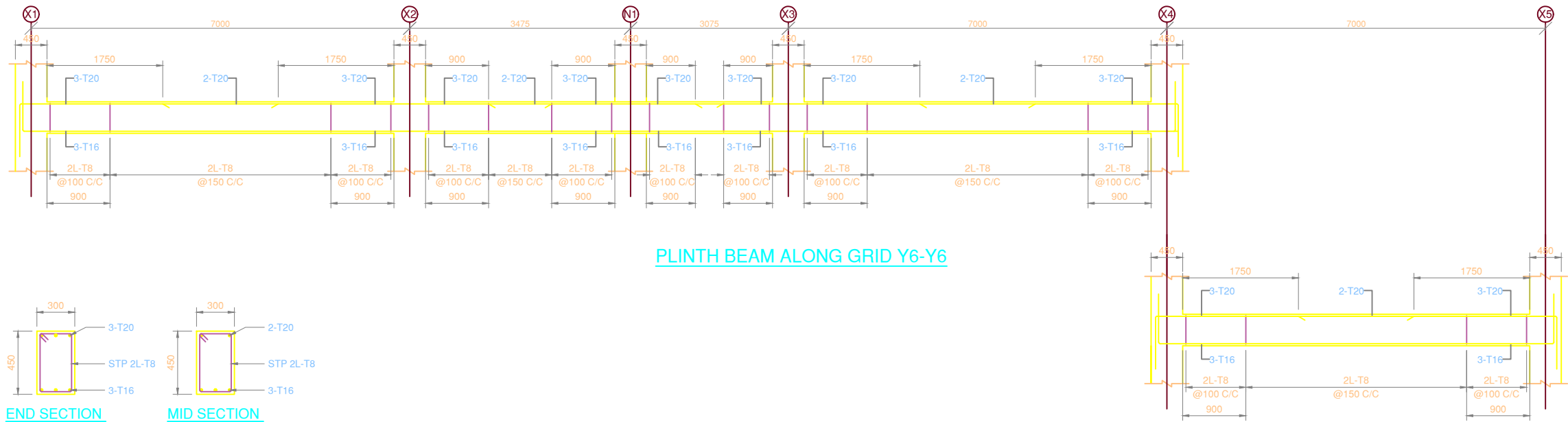
BEAM LAYOUT PLAN

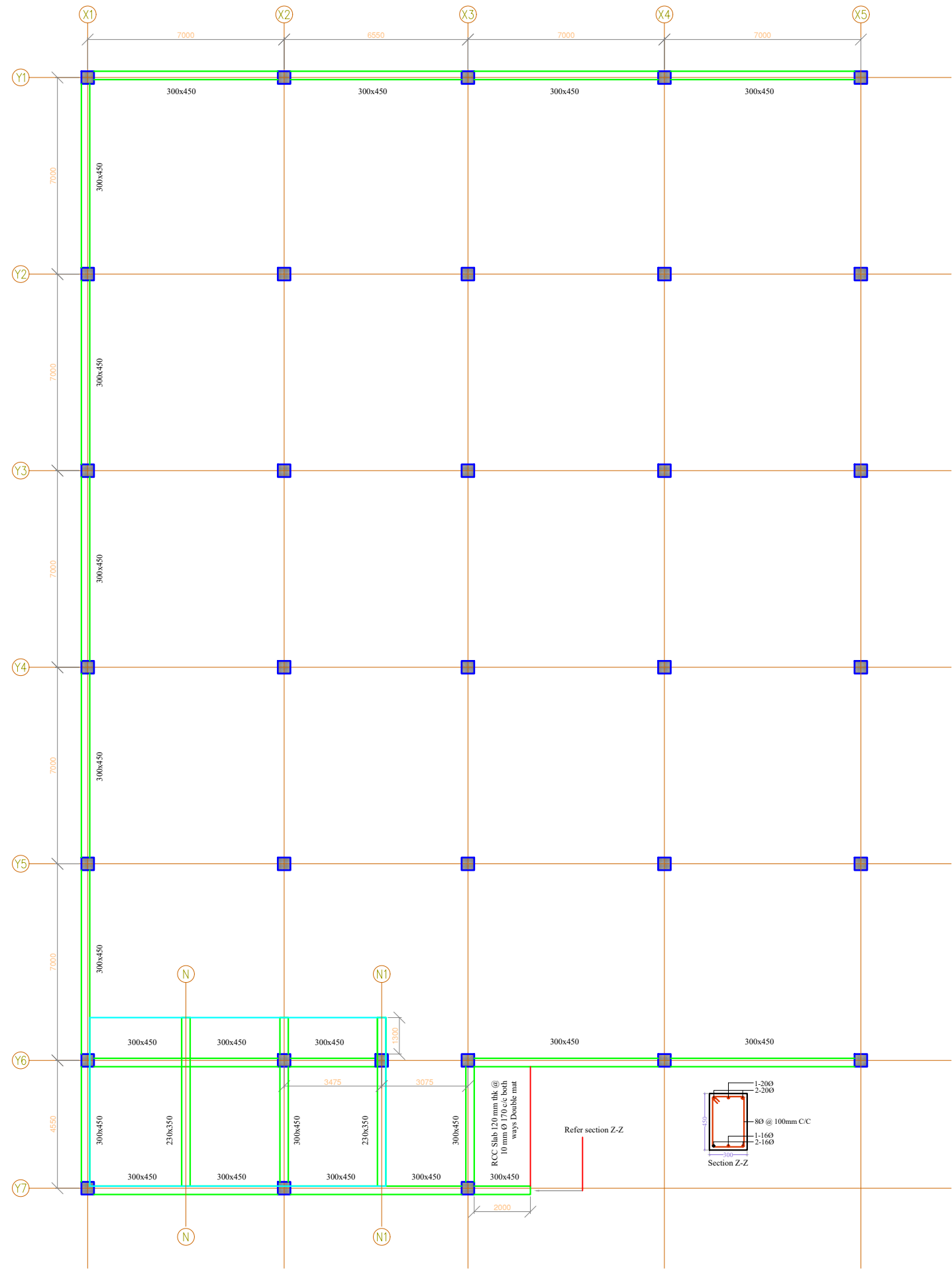
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DWG No	S _{TR} 11





FIRST FLOOR BEAM LAYOUT PLAN



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PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

BEAM PROFILE

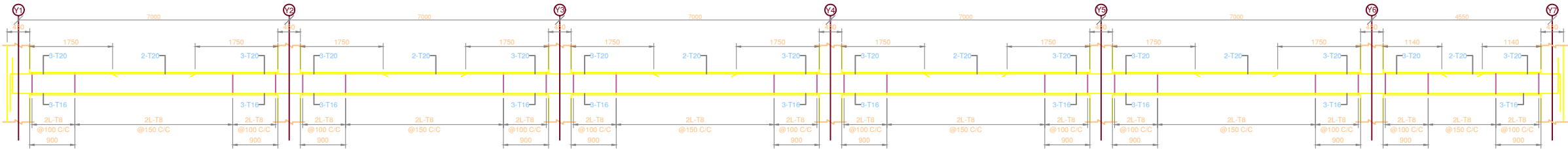
NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE TO BE READ NOT TO BE MEASURED OR SCALED OFF.
3. ONLY APPROVED DRAWINGS SHALL BE USED UNLESS AS MENTIONED BY DESIGNERS.

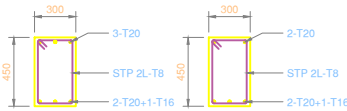
DATE 26-Jun-23

SCALE NTS

DWG No S_{TR} 13

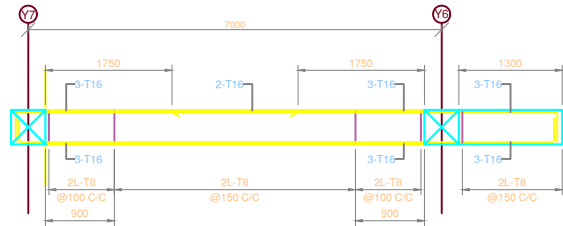


FIRST FLOOR BEAM ALONG GRID X1-X1

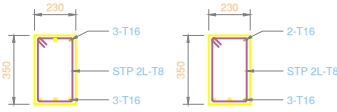


END SECTION

MID SECTION

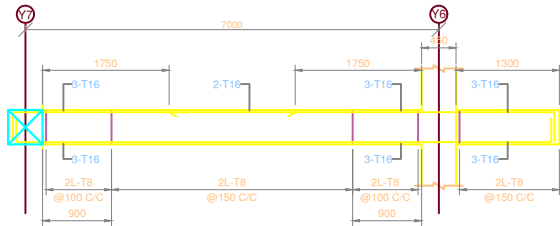


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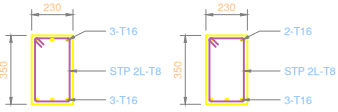


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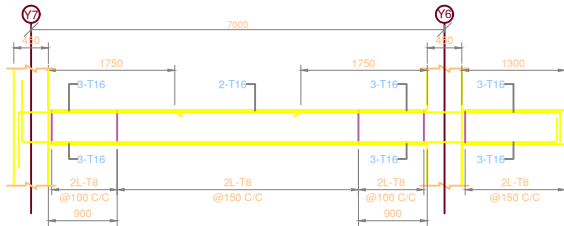


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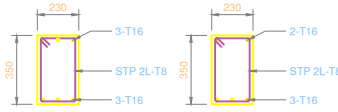


END SECTION

MID SECTION



FIRST FLOOR BEAM ALONG GRID X2-X2



END SECTION

MID SECTION



THIMPHU, BHUTAN. 17656338

PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

BEAM PROFILE

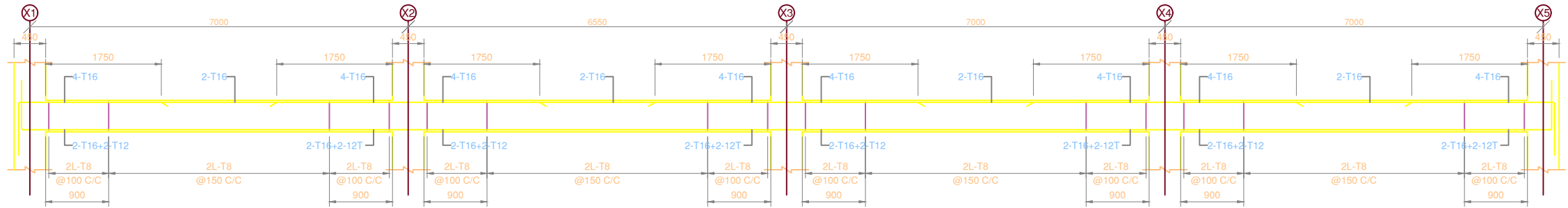
NOTES

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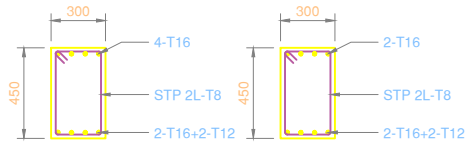
DATE 26-Jun-23

SCALE NTS

DWG No STR 14

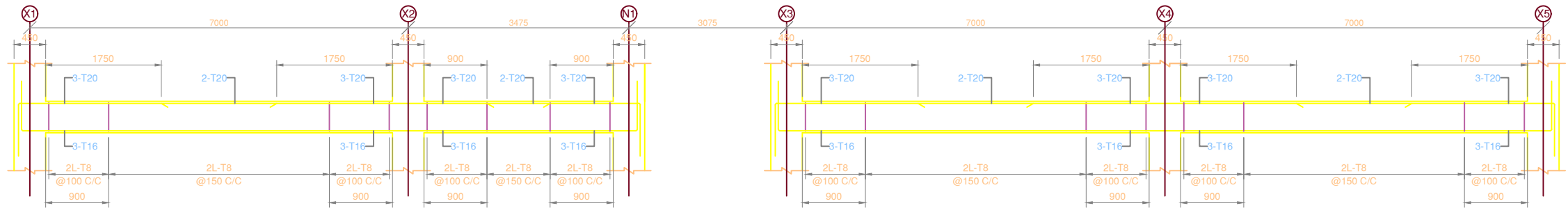


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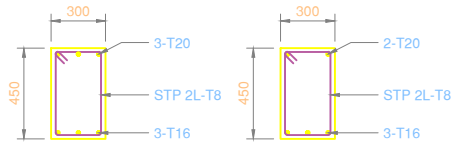


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MID SECTION

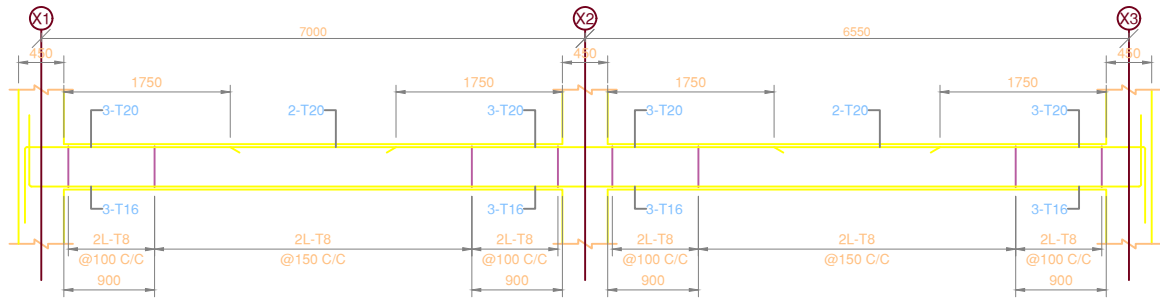


FIRST FLOOR BEAM ALONG GRID Y6-Y6

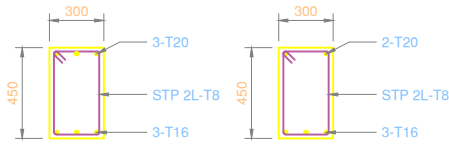


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MID SECTION

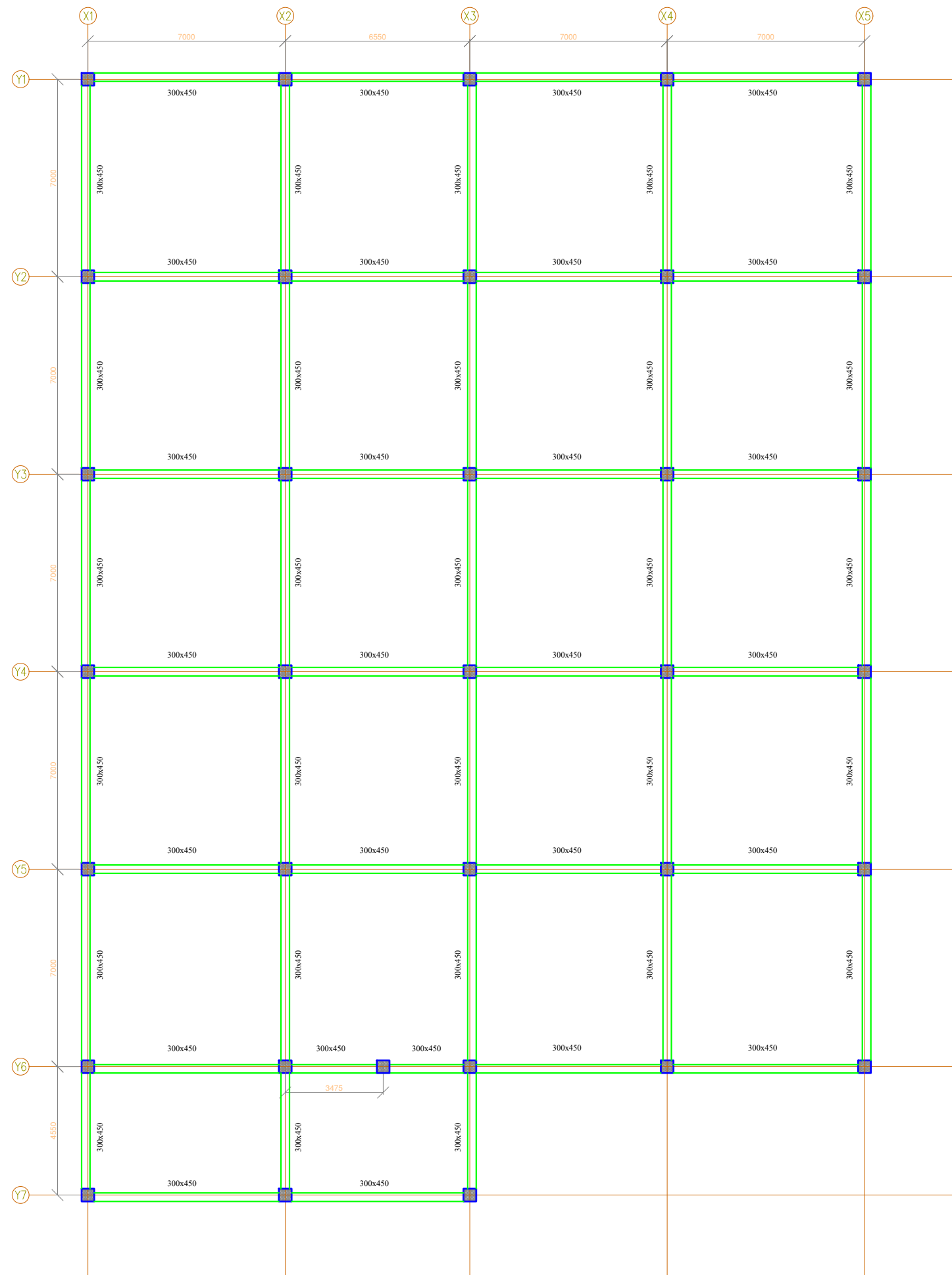


FIRST FLOOR BEAM ALONG GRID Y7-Y7



END SECTION

MID SECTION



ROOF BEAM LAYOUT PLAN



THIMPHU, BHUTAN. 17656338

PROJECT TITLE	
PROPOSE CONSTRUCTION OF TASHI CELL REGIONAL OFFICE, P/LING, BHUTAN	
ENGINEER	
BHAKTA BDR MONGER	
CLIENT	
TASHI CELL	
DRAWING TITLE	
BEAM PLAN	
NOTES	
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. 2. DIMENSIONS ARE TO BE READ NOT TO BE MEASURED OR SCALED OFF. 3. ONLY APPROVED DRAWINGS SHALL BE USED UNLESS AS MENTIONED BY DESIGNERS.	
DATE	26-Jun-23
SCALE	NTS
DWG No	S _{TR} 15

DWG No	S _{TR} 16
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The diagrams illustrate the cross-sections of the bridge deck. The **END SECTION** shows a rectangular cross-section with a width of 300 and a height of 450. It features 4-T16 reinforcement bars at the top, STP 2L-T8 reinforcement bars on the sides, and 2-T16+2-T12 reinforcement bars at the bottom. The **MID SECTION** shows a similar rectangular cross-section with a width of 300 and a height of 450. It features 2-T16 reinforcement bars at the top, STP 2L-T8 reinforcement bars on the sides, and 2-T16+2-T12 reinforcement bars at the bottom.



THIMPHU, BHUTAN. 17656338

PROJECT TITLE

PROPOSE CONSTRUCTION
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OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

BEAM PROFILE ALONG GRID B-B

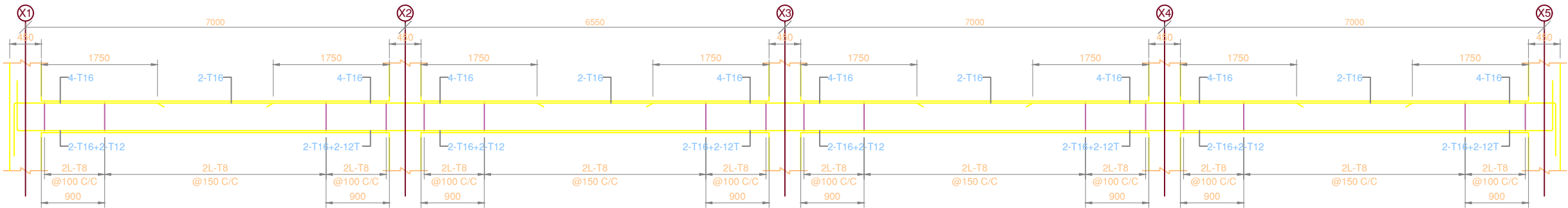
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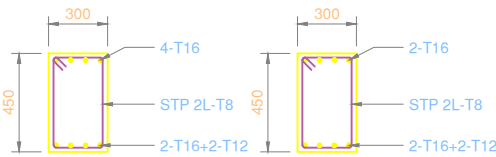
DATE26-Jun-23

SCALENTS

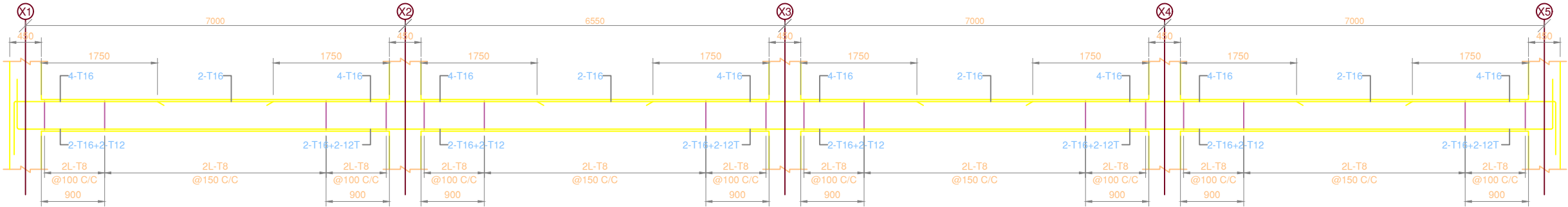
DWG NoS_{TR} 17



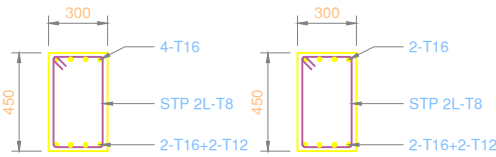
ROOF BEAM ALONG GRID Y1-Y1, Y2-Y2, Y3-Y3



END SECTIONMID SECTION



ROOF BEAM ALONG GRID Y4-Y4, Y5-Y5



END SECTIONMID SECTION



THIMPHU, BHUTAN. 17656338

PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

GFB DETAILS-1

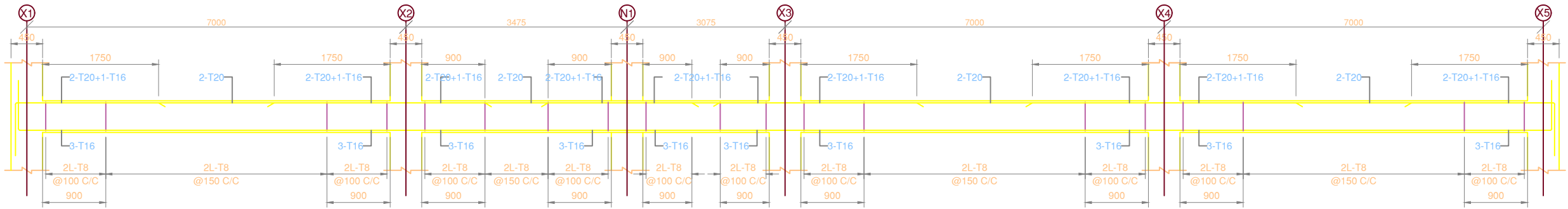
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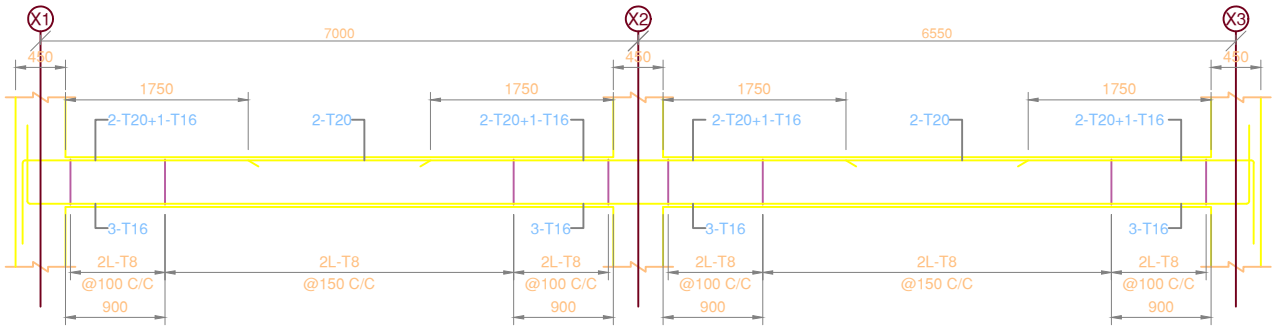
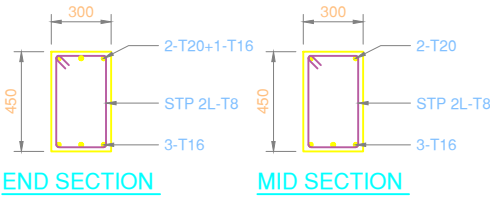
DATE26-Jun-23

SCALENTS

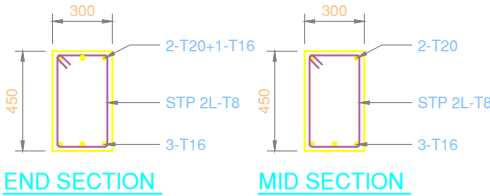
DWG NoSTR 18



ROOF FLOOR BEAM ALONG GRID Y6-Y6



ROOF FLOOR BEAM ALONG GRID Y7-Y7



PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

F.F SLAB TOP REINFORCEMENT DETAIL

NOTES

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DATE 26-Jun-23

SCALE NTS

DWG No STR 19

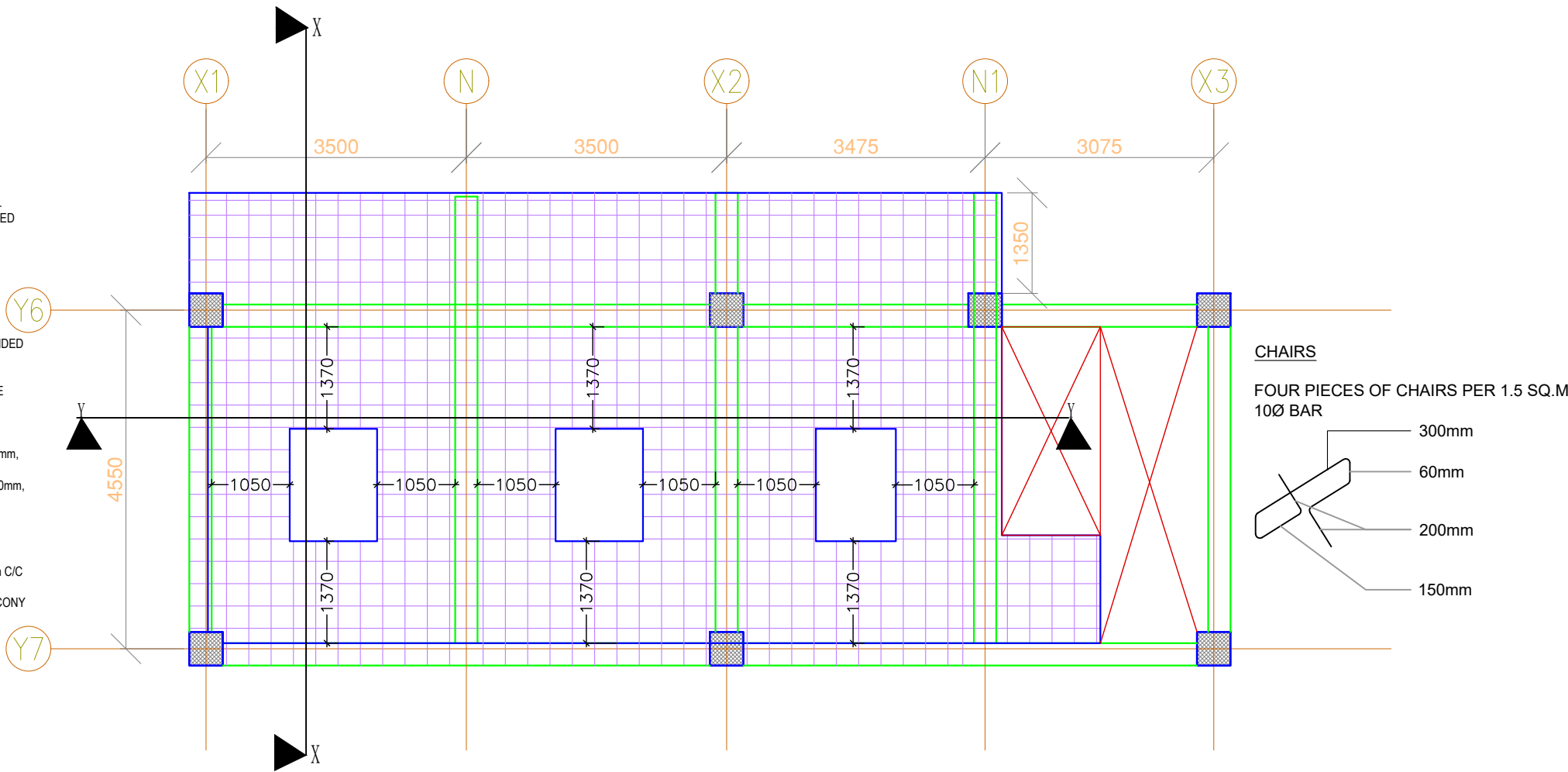
SLAB REINFORCEMENT NOTES:

1. SLAB THICKNESS = 150mm.
2. GRADE OF CONCRETE = M20.
3. GRADE OF STEEL = Fe500.
4. MIN. CLEAR COVER TO SLAB & STAIRCASE REINFORCEMENT SHALL BE 20mm.
5. THE MAIN REINFORCEMENT SHALL BE PLACED AT BOTTOM IN THE SHORTER DIRECTION OF THE SLAB PANEL.
6. SLAB TOP REINFORCEMENT CURTAILMENT SHALL BE AS SHOWN ABOVE.
7. THE SLAB REINFORCEMENT SHALL EXTEND WHEREVER NECESSARY FOR CORNICE & SLAB PROJECTIONS.
8. MIN. OF 10Ø REBAR CHAIRS MUST BE PROVIDED AT APPROPRIATE LOCATIONS TO MAINTAIN UNIFORM EFFECTIVE DEPTH OF THE SLAB.
9. THE STARTING DISTRIBUTION BAR SHALL BE PLACED WITHIN:
 - a) DEPTH OF SLAB
 - b) 1/2 SPACING OF SLAB REBAR
10. FOR CANTILEVER PROJECTIONS UPTO 750mm, PROVIDE EXTRA REBAR OF 12Ø @ 150mm C/C
11. FOR CANTILEVER PROJECTIONS UPTO 1500mm, PROVIDE EXTRA REBAR OF 16Ø @ 150mm C/C

SLAB REINFORCEMENT:

MAIN REINFORCEMENT= 10Ø @ 150mm C/C
SECONDARY REINFORCEMENT= 10Ø @ 150mm C/C

REFER ARCHITECTURAL DRAWINGS FOR BALCONY AND RABSEY PROJECTIONS.



FIRST FLOOR TOP SLAB PLAN

PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

F.F SLAB BOTTOM SLAB PLAN

NOTES

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DATE 26-Jun-23

SCALE NTS

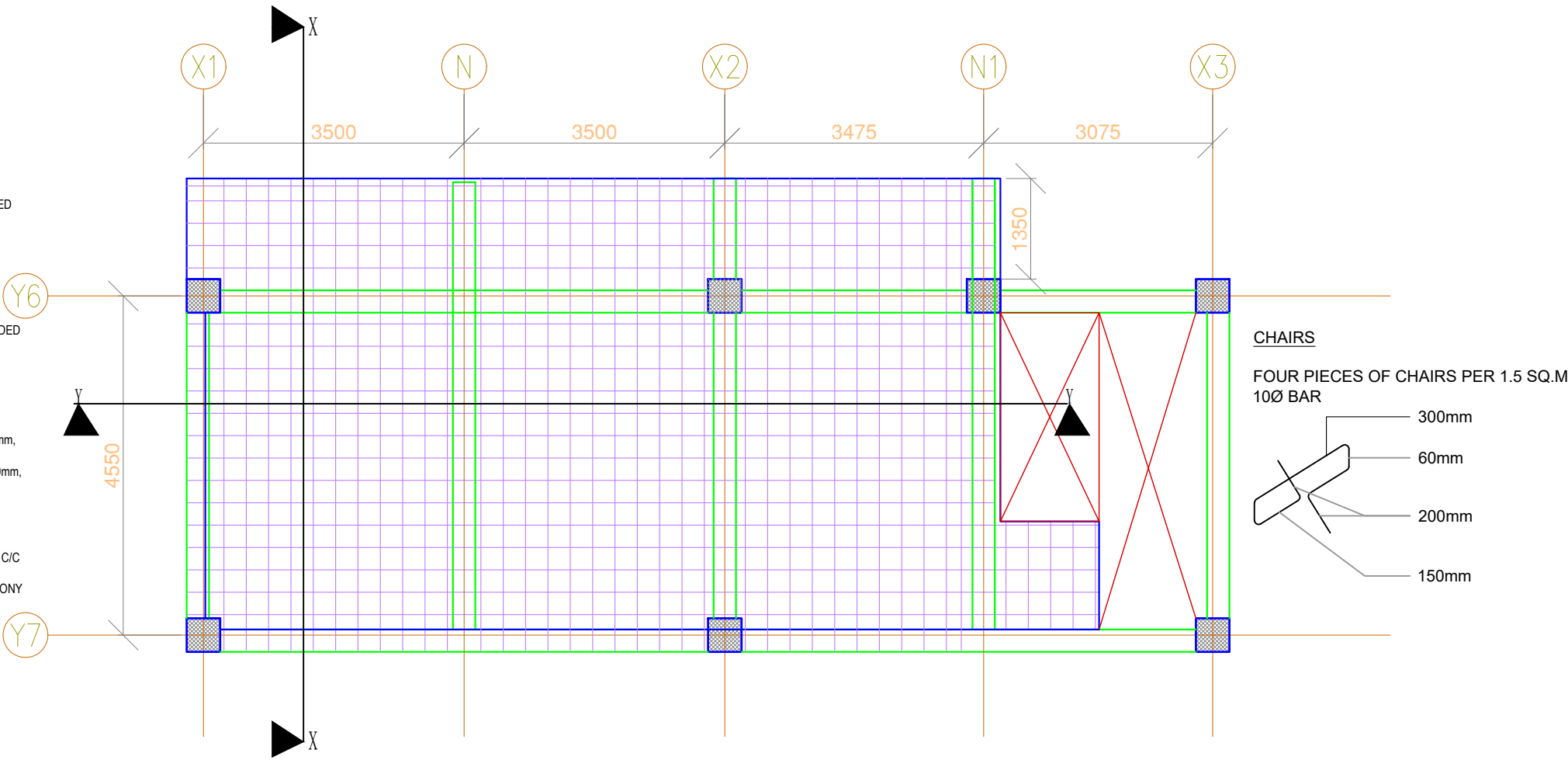
DWG No S_{TR} 20

SLAB REINFORCEMENT NOTES:

1. SLAB THICKNESS = 150mm.
2. GRADE OF CONCRETE = M20.
3. GRADE OF STEEL = Fe500.
4. MIN. CLEAR COVER TO SLAB & STAIRCASE REINFORCEMENT SHALL BE 20mm.
5. THE MAIN REINFORCEMENT SHALL BE PLACED AT BOTTOM IN THE SHORTER DIRECTION OF THE SLAB PANEL.
6. SLAB TOP REINFORCEMENT CURTAILMENT SHALL BE AS SHOWN ABOVE.
7. THE SLAB REINFORCEMENT SHALL EXTEND WHEREVER NECESSARY FOR CORNICE & SLAB PROJECTIONS.
8. MIN. OF 10Ø REBAR CHAIRS MUST BE PROVIDED AT APPROPRIATE LOCATIONS TO MAINTAIN UNIFORM EFFECTIVE DEPTH OF THE SLAB.
9. THE STARTING DISTRIBUTION BAR SHALL BE PLACED WITHIN:
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 - b) 1/2 SPACING OF SLAB REBAR
10. FOR CANTILEVER PROJECTIONS UPTO 750mm, PROVIDE EXTRA REBAR OF 12Ø @ 150mm C/C
11. FOR CANTILEVER PROJECTIONS UPTO 1500mm, PROVIDE EXTRA REBAR OF 16Ø @ 150mm C/C

SLAB REINFORCEMENT:

MAIN REINFORCEMENT= 10Ø @ 150mm C/C
SECONDARY REINFORCEMENT= 10Ø @ 150mm C/C
REFER ARCHITECTURAL DRAWINGS FOR BALCONY AND RABSEY PROJECTIONS.



FIRST FLOOR BOTTOM SLAB PLAN

PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

F.F SLAB SECTION

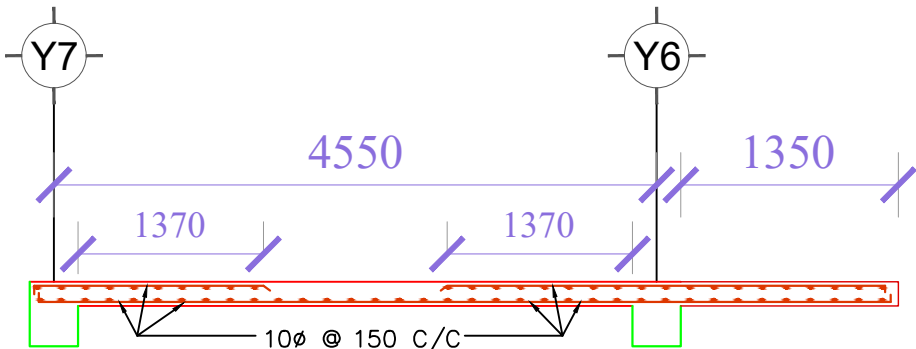
NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS
OTHERWISE SPECIFIED.
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USED UNLESS AS MENTIONED BY
DESIGNERS.

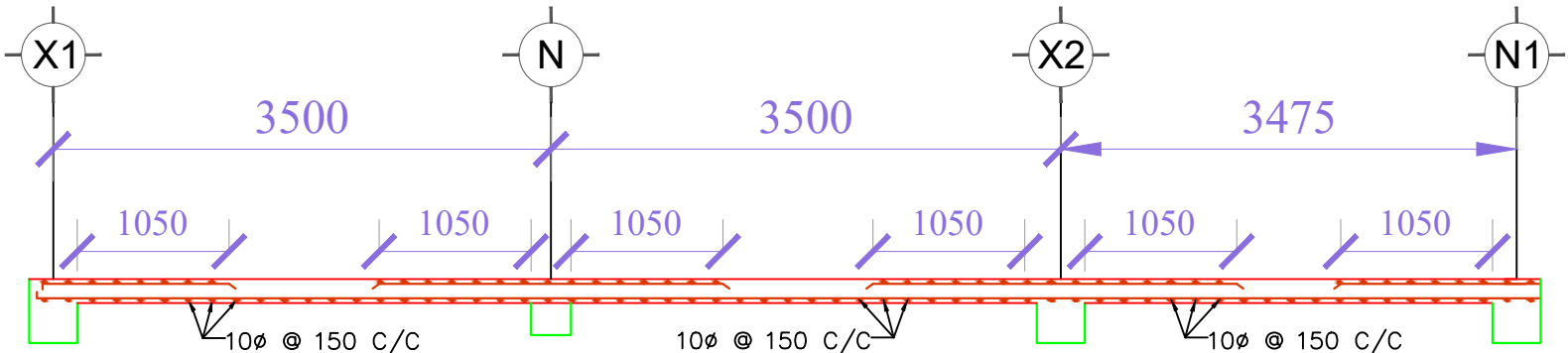
DATE26-Jun-23

SCALENTS

DWG NoSTR 21



SECTION X-X



SECTION Y-Y

FIRST FLOOR SLAB REINFORCEMENT DETAIL

PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

F.F SLAB TOP PLAN

NOTES

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DATE26-Jun-23

SCALENTS

DWG NoSTR 22

SLAB REINFORCEMENT NOTES:

1. SLAB THICKNESS = 150mm.
2. GRADE OF CONCRETE = M20.
3. GRADE OF STEEL = Fe500.
4. MIN. CLEAR COVER TO SLAB & STAIRCASE REINFORCEMENT SHALL BE 20mm.
5. THE MAIN REINFORCEMENT SHALL BE PLACED AT BOTTOM IN THE SHORTER DIRECTION OF THE SLAB PANEL.
6. SLAB TOP REINFORCEMENT CURTAILMENT SHALL BE AS SHOWN ABOVE.
7. THE SLAB REINFORCEMENT SHALL EXTEND WHEREVER NECESSARY FOR CORNICE & SLAB PROJECTIONS.
8. MIN. OF 10Ø REBAR CHAIRS MUST BE PROVIDED AT APPROPRIATE LOCATIONS TO MAINTAIN UNIFORM EFFECTIVE DEPTH OF THE SLAB.
9. THE STARTING DISTRIBUTION BAR SHALL BE PLACED WITHIN:

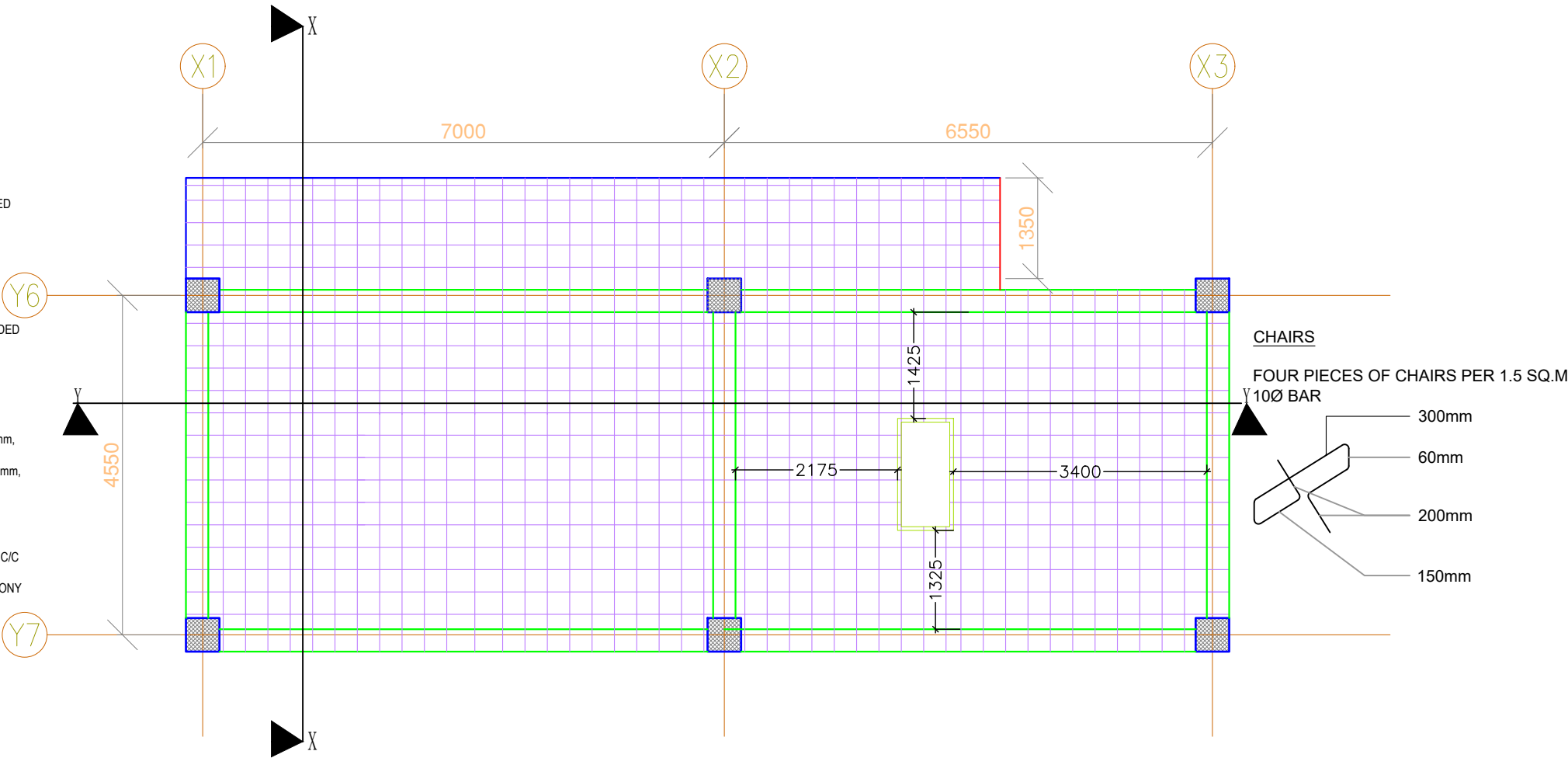
a) DEPTH OF SLAB

b) 1/2 SPACING OF SLAB REBAR
10. FOR CANTILEVER PROJECTIONS UPTO 750mm, PROVIDE EXTRA REBAR OF 12Ø @ 150mm C/C
11. FOR CANTILEVER PROJECTIONS UPTO 1500mm, PROVIDE EXTRA REBAR OF 16Ø @ 150mm C/C

SLAB REINFORCEMENT:

MAIN REINFORCEMENT= 12Ø @ 150mm C/C
SECONDARY REINFORCEMENT= 12Ø @ 150mm C/C

REFER ARCHITECTURAL DRAWINGS FOR BALCONY AND RABSEY PROJECTIONS.



ROOF FLOOR BOTTOM SLAB PLAN

PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

R.F BOTTOM SLAB PLAN

NOTES

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DATE 26-Jun-23

SCALE NTS

DWG No STR 23

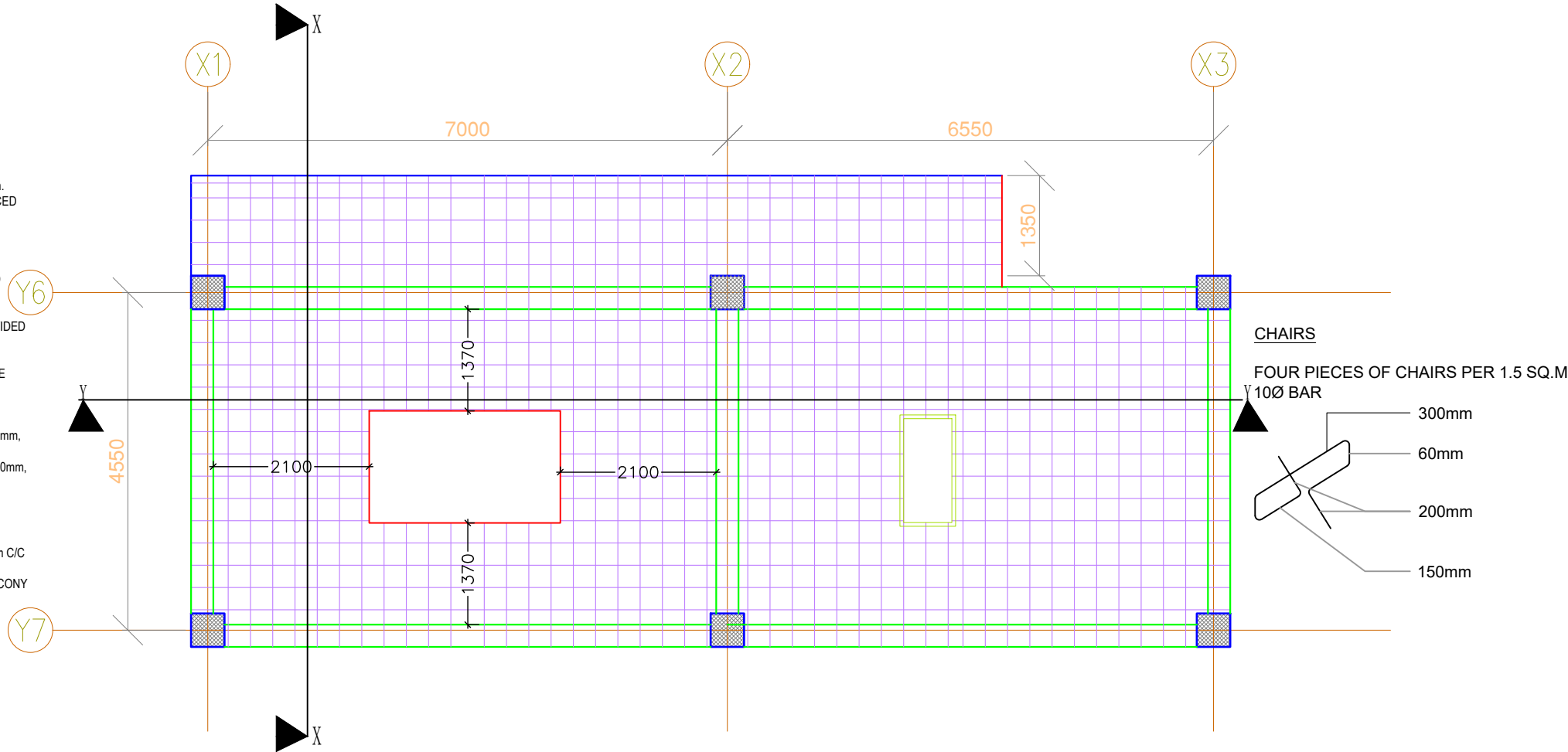
SLAB REINFORCEMENT NOTES:

1. SLAB THICKNESS = 150mm.
2. GRADE OF CONCRETE = M20.
3. GRADE OF STEEL = Fe500.
4. MIN. CLEAR COVER TO SLAB & STAIRCASE REINFORCEMENT SHALL BE 20mm.
5. THE MAIN REINFORCEMENT SHALL BE PLACED AT BOTTOM IN THE SHORTER DIRECTION OF THE SLAB PANEL.
6. SLAB TOP REINFORCEMENT CURTAILMENT SHALL BE AS SHOWN ABOVE.
7. THE SLAB REINFORCEMENT SHALL EXTEND WHEREVER NECESSARY FOR CORNICE & SLAB PROJECTIONS.
8. MIN. OF 10Ø REBAR CHAIRS MUST BE PROVIDED AT APPROPRIATE LOCATIONS TO MAINTAIN UNIFORM EFFECTIVE DEPTH OF THE SLAB.
9. THE STARTING DISTRIBUTION BAR SHALL BE PLACED WITHIN:
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10. FOR CANTILEVER PROJECTIONS UPTO 750mm, PROVIDE EXTRA REBAR OF 12Ø @ 150mm C/C
11. FOR CANTILEVER PROJECTIONS UPTO 1500mm, PROVIDE EXTRA REBAR OF 16Ø @ 150mm C/C

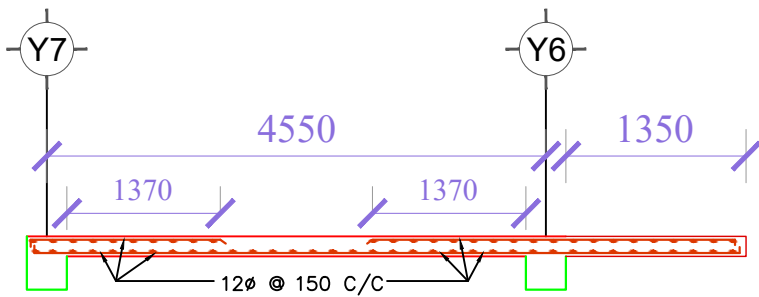
SLAB REINFORCEMENT:

MAIN REINFORCEMENT= 12Ø @ 150mm C/C
SECONDARY REINFORCEMENT= 12Ø @ 150mm C/C

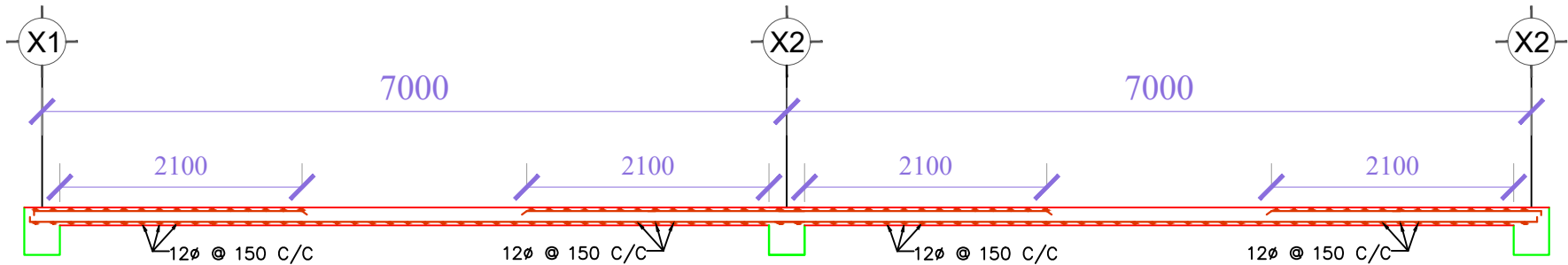
REFER ARCHITECTURAL DRAWINGS FOR BALCONY AND RABSEY PROJECTIONS.



ROOF FLOOR TOP SLAB PLAN

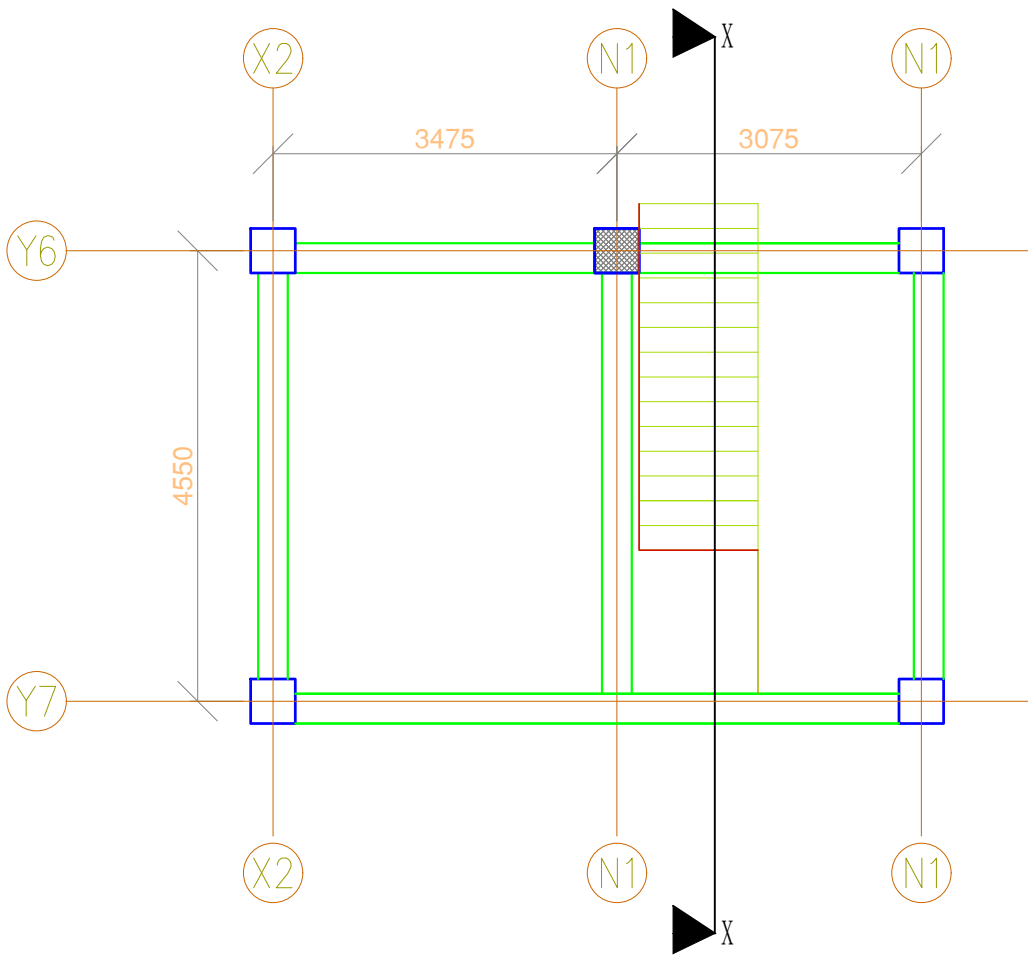


SECTION X-X

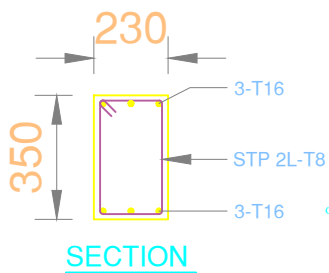


SECTION Y-Y

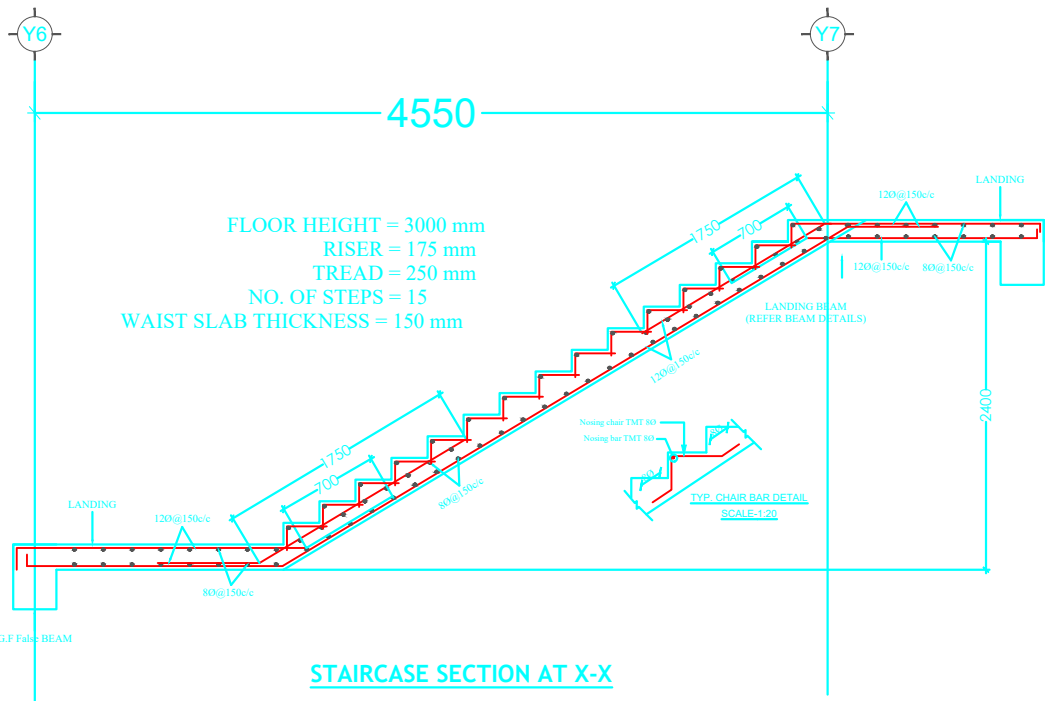
ROOF FLOOR SLAB REINFORCEMENT DETAIL



STAIRCASE PLAN FROM G.F TILL FIRST FLOOR BEAM



SECTION



THIMPHU, BHUTAN. 17656338

PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

G.F TILL R.F STAIRCASE DETAIL

NOTES

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DATE 26-Jun-23

SCALE NTS

DWG No STR 25

PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

TRUSS MEMBER SCHEDULE

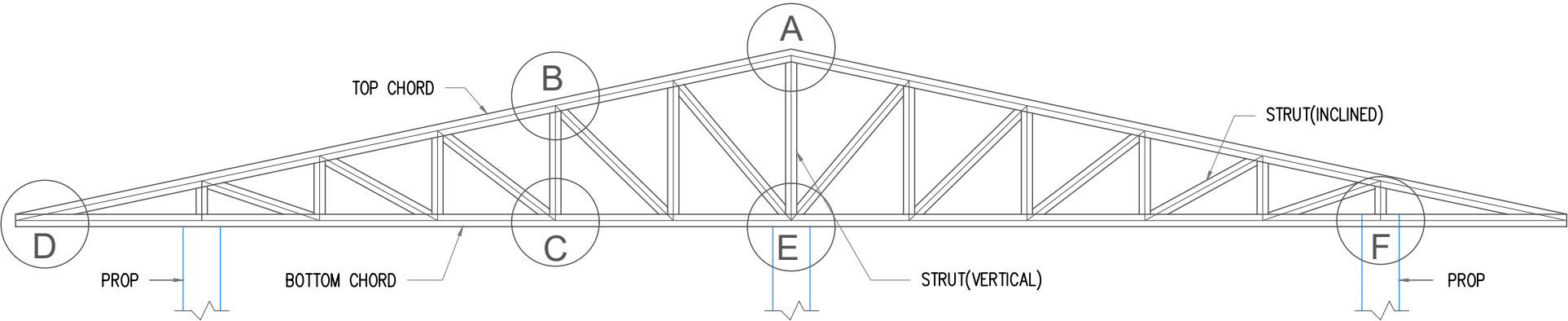
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DATE26-Jun-23

SCALENTS

DWG NoSTR 26



TRUSS MEMBER SCHEDULE

MEMBER	STEEL TUBES SIZE	SECTION THICKNESS, (mm)
TOP & BOTTOM CHORD	76.1 ODM, 6.42 Kg/m	3.6
STRUT (INCLINED)	48.3 ODM, 3.56 Kg/m	3.2
STRUT (VERTICAL)	48.3 ODM, 3.15 Kg/m	3.25
PURLIN	60.3 ODM, 5.03 Kg/m	3.6

OD– Outer Diamter, M– Medium

- NOTES:
1. ALL WELDING SHOULD BE FILLET WELD OF MINIMUN 8 MM THICK
2. SIZE OF COMPLETE PENETRATION BUTT WELD GREATER THAN EQUAL TO MEMBER THICKNESS
3. STEEL GRADE ST40(250 MPA)

PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

TRUSS CONNECTION DETAIL

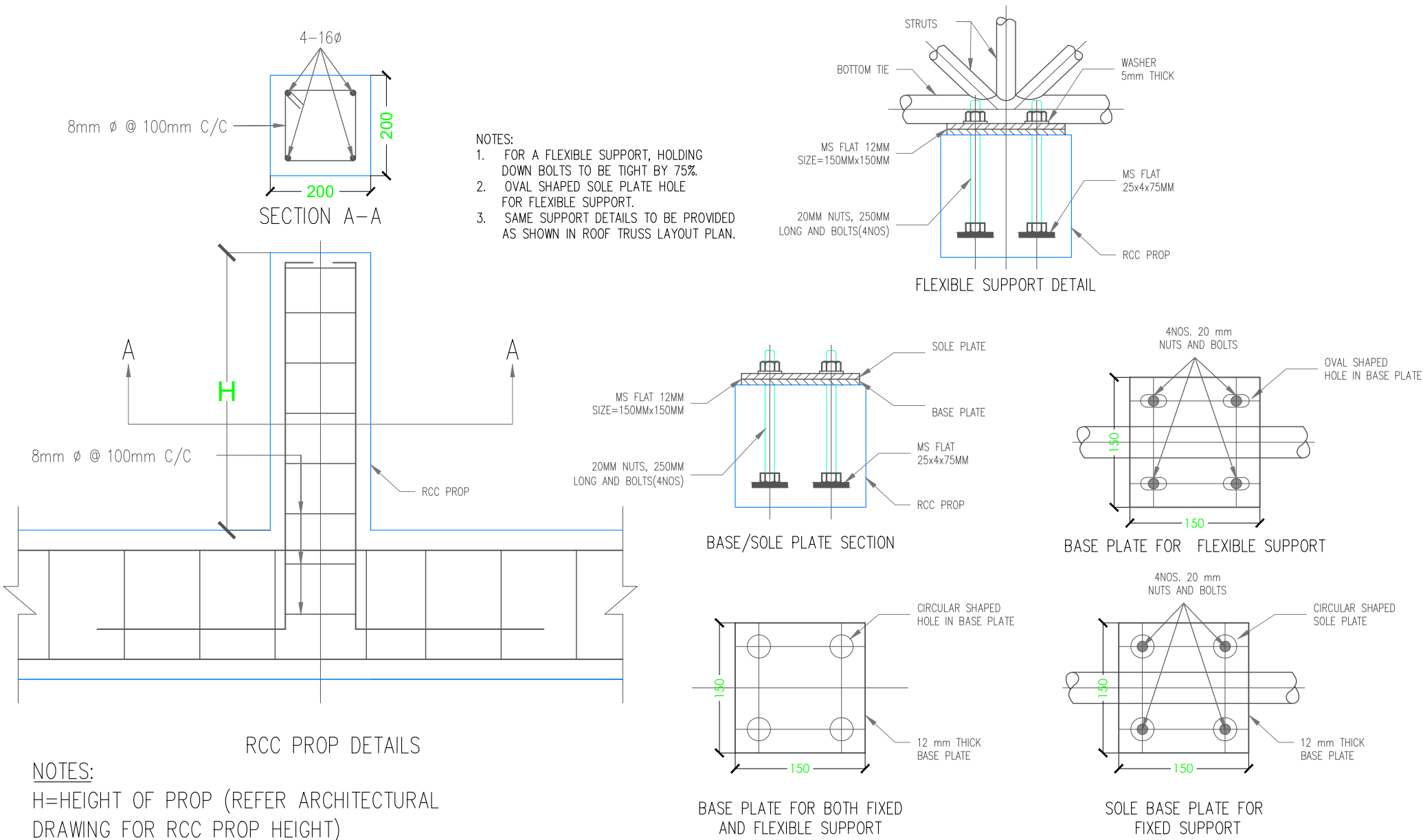
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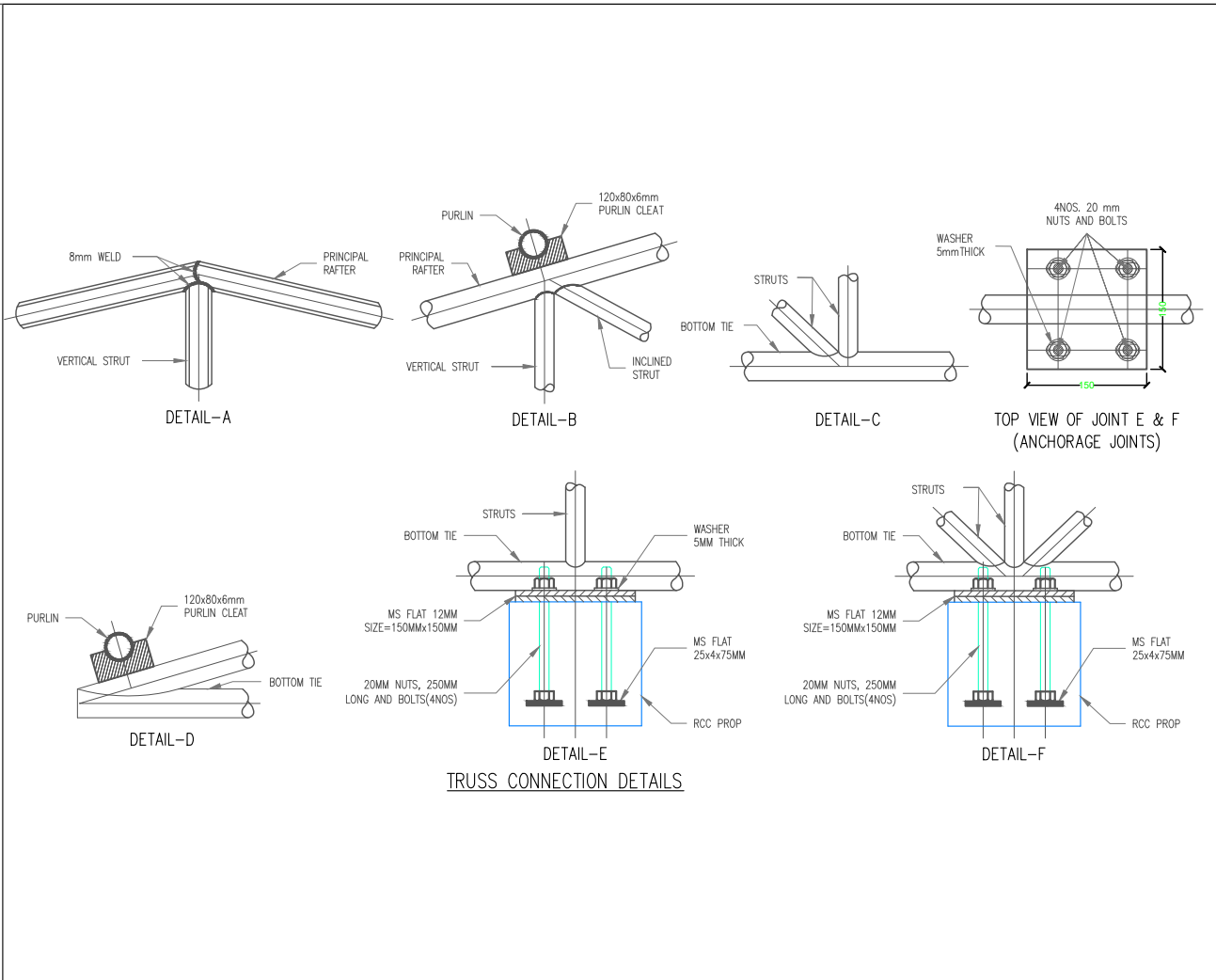
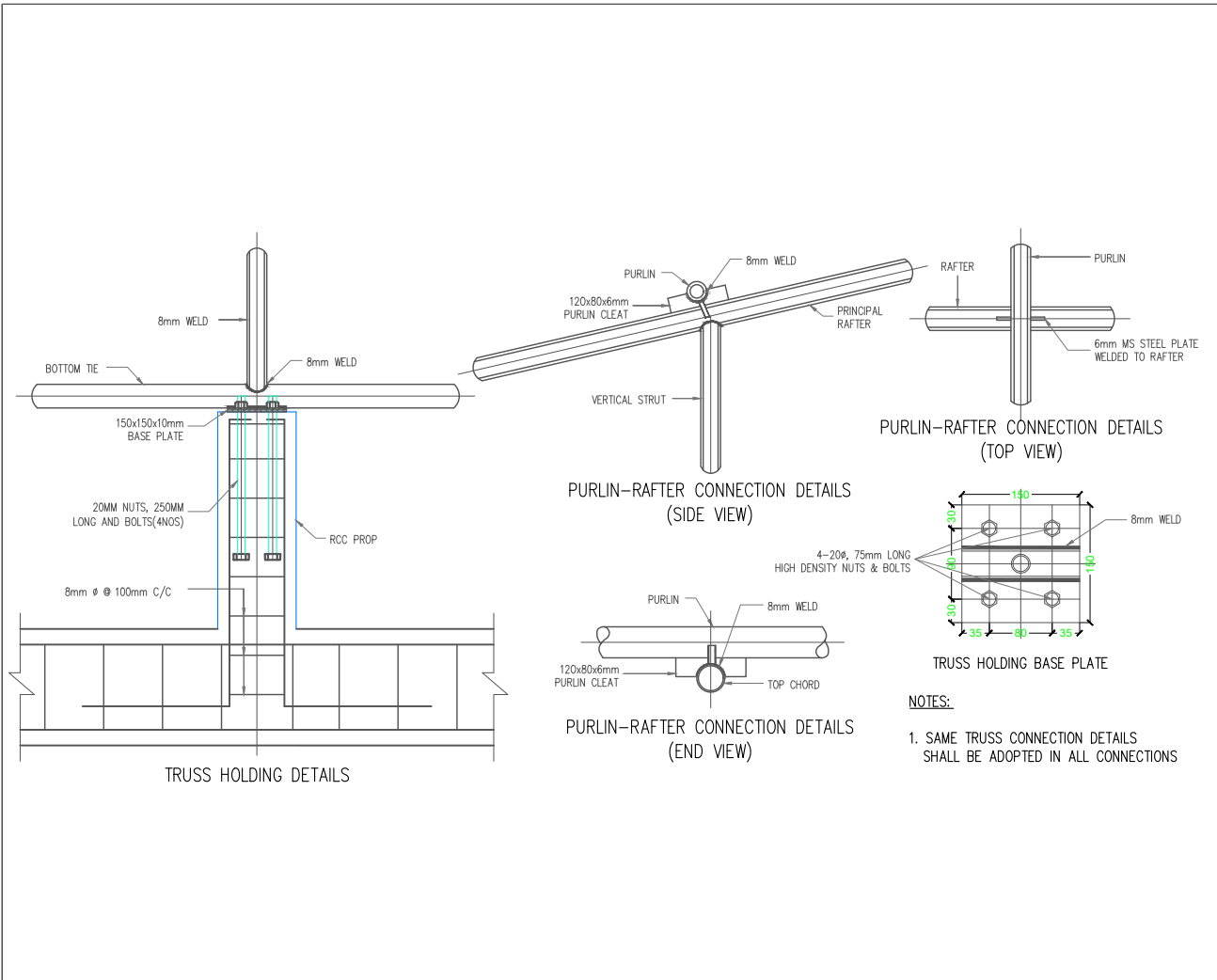
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DATE26-Jun-23

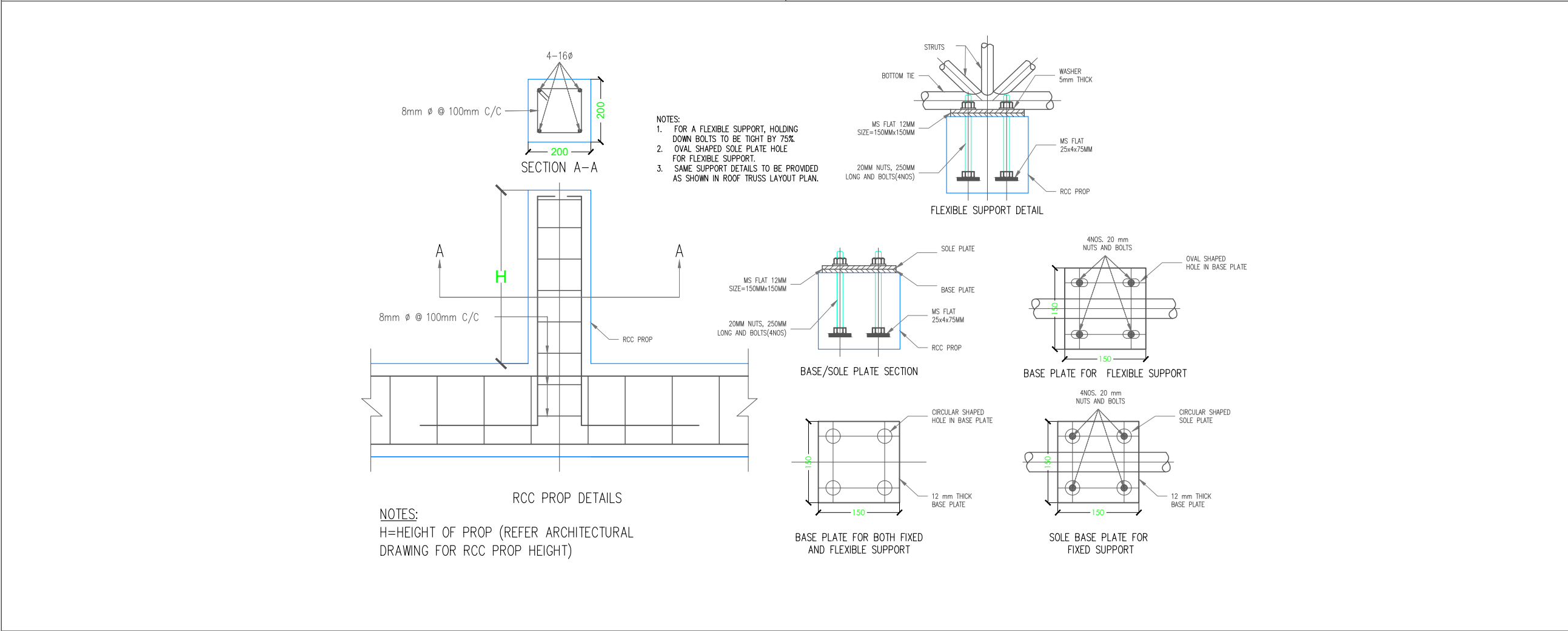
SCALENTS

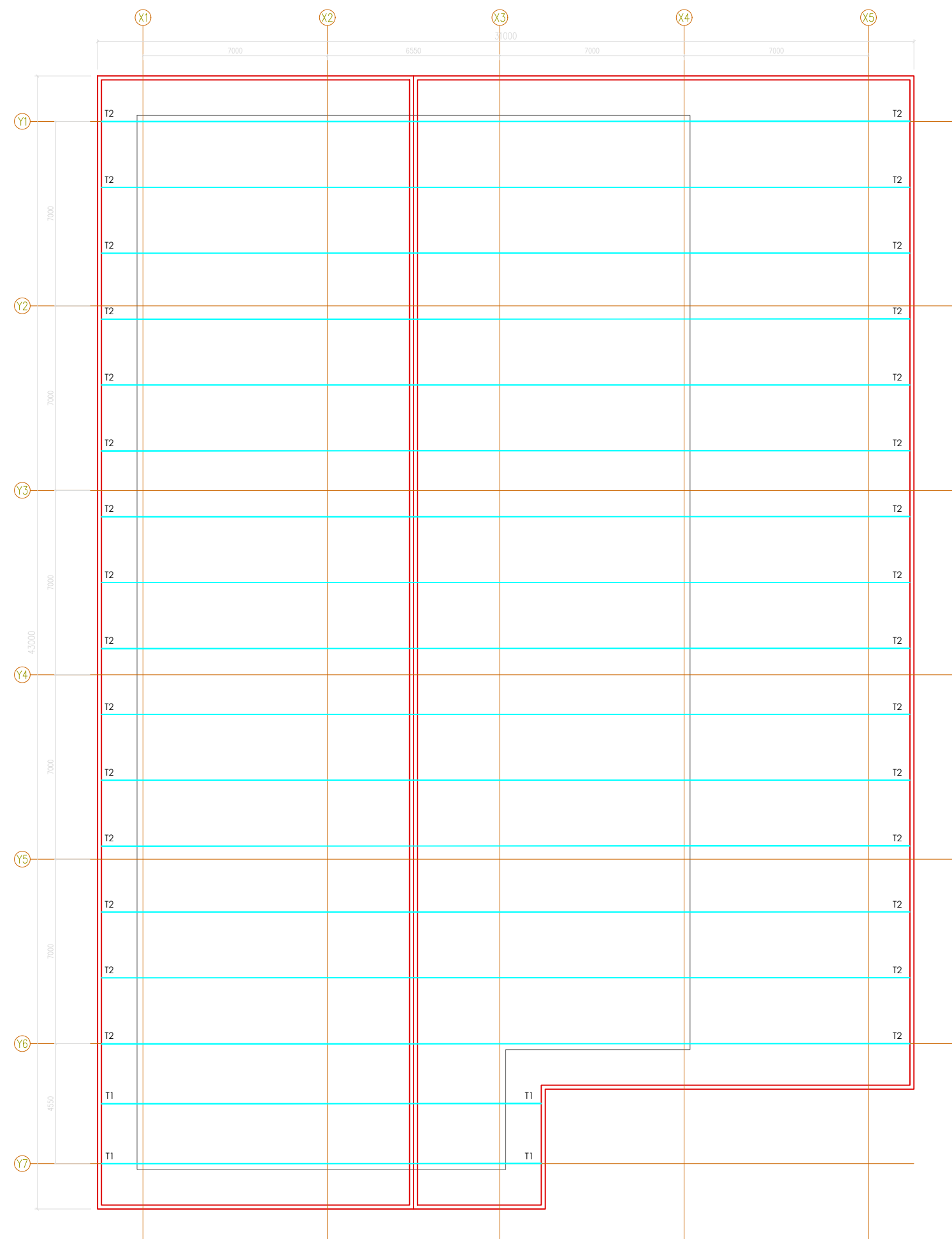
DWG NoSTR 27





 A.S.C BUILT-IN STUDIO DESIGN YOUR DREAMS WITH US	
THIMPHU, BHUTAN. 17656338	
PROJECT TITLE	
PROPOSE CONSTRUCTION OF TASHI CELL REGIONAL OFFICE, P/LING, BHUTAN	
ENGINEER	
BHAKTA BDR MONGER	
CLIENT	
TASHI CELL	
DRAWING TITLE	
TRUSS DETAILS- LEVEL 1	
NOTES	
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. 2. DIMENSIONS ARE TO BE READ NOT TO BE MEASURED OR SCALED OFF. 3. ONLY APPROVED DRAWINGS SHALL BE USED UNLESS AS MENTIONED BY DESIGNERS.	
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SCALE	NTS
DWG No	S _{TR} 28





ROOF TRUSS PLAN



THIMPHU, BHUTAN. 17656338

PROJECT TITLE

PROPOSE CONSTRUCTION OF TASHI CELL REGIONAL OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

TRUSS & PURLIN DETAILS

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DATE 26-Jun-23

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DWG No S_{TR} 29



PROPOSE CONSTRUCTION OF TASHI CELL REGIONAL OFFICE, P/LING, BHUTAN

BHAKTA BDR MONGER

TASHI CELL

TRUSS DETAILS- LEVEL 2

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DATE	26-Jun-23
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SCALE	NTS
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DWG No	S _{TR} 31
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PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

LEAN TO ROOF DETAILS

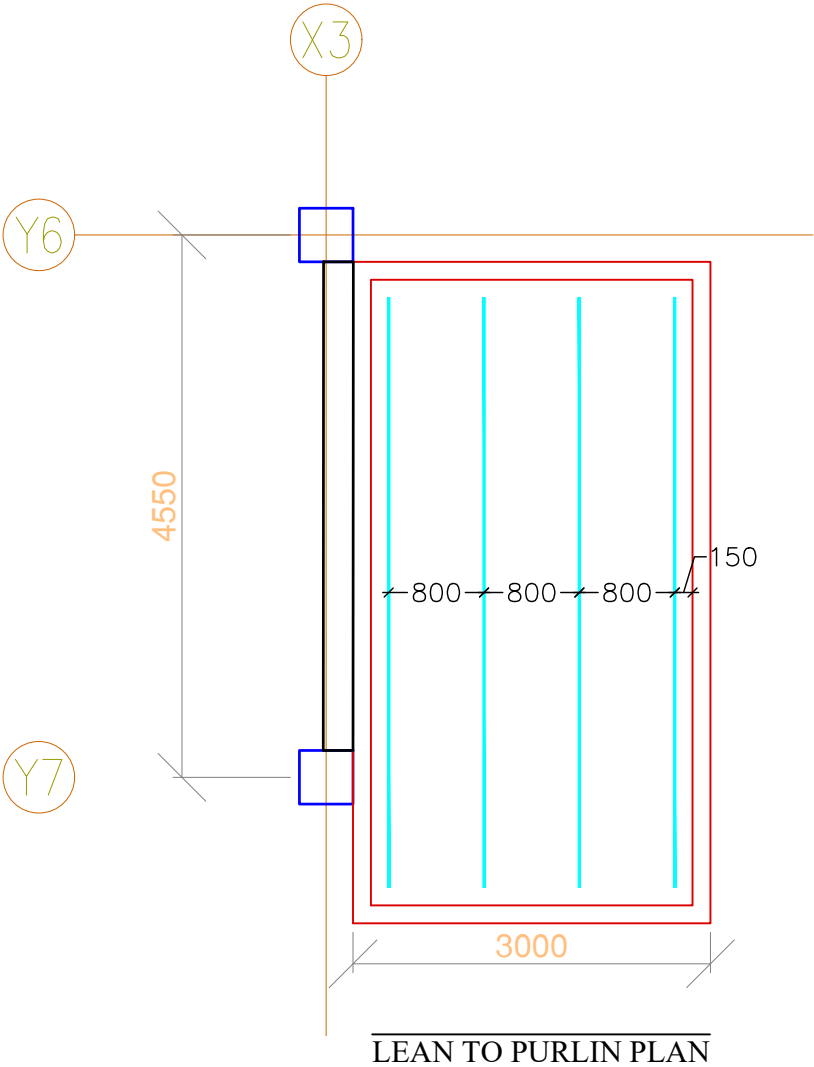
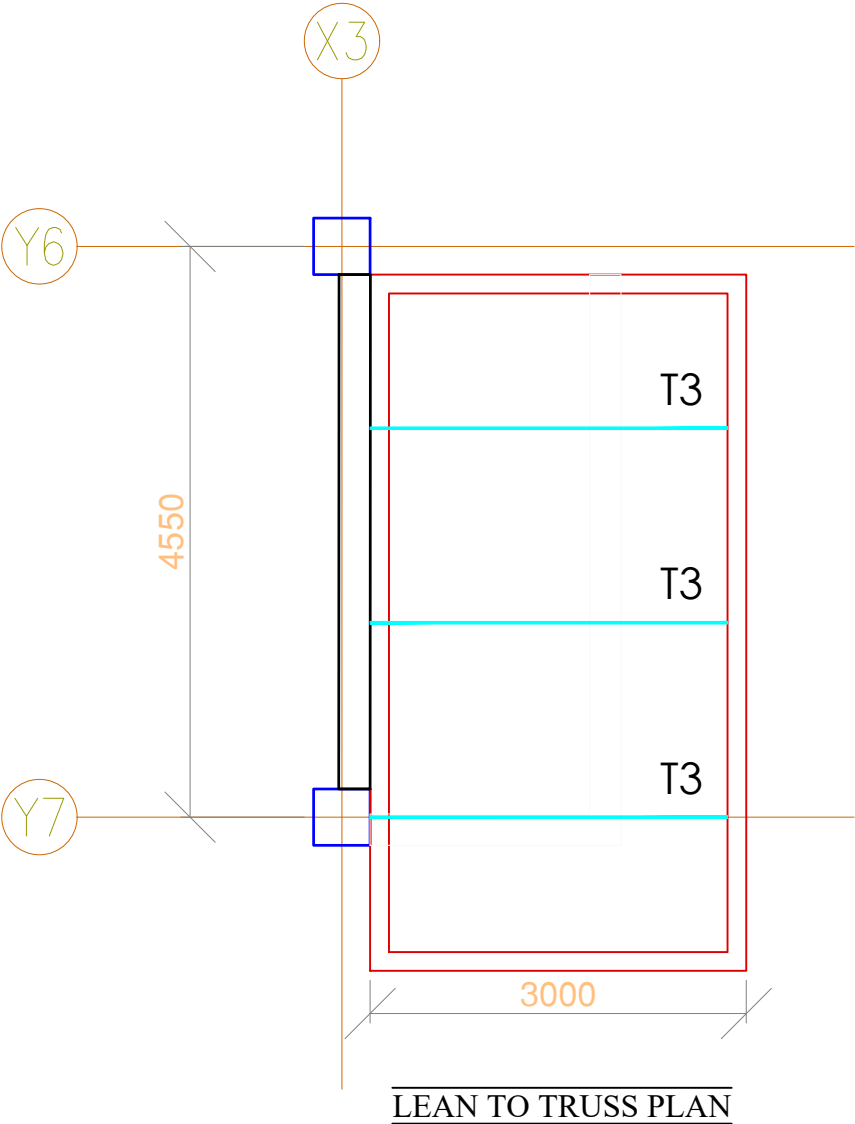
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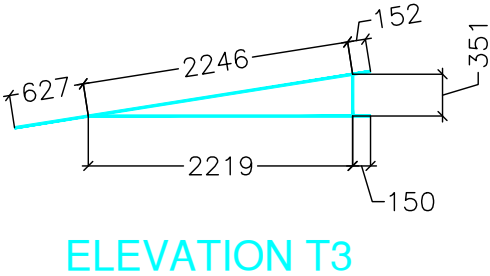
SCALENTS

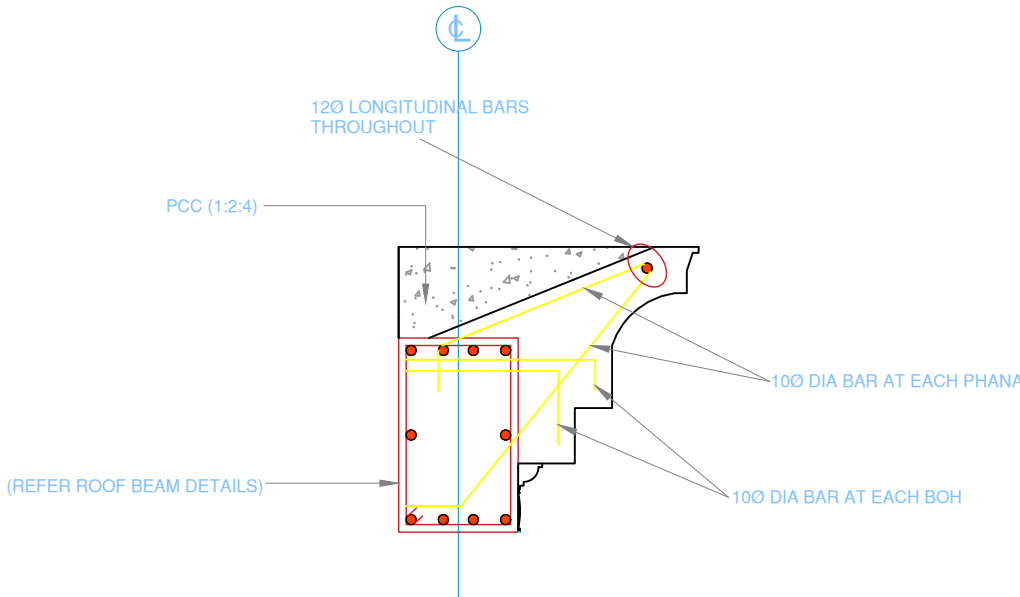

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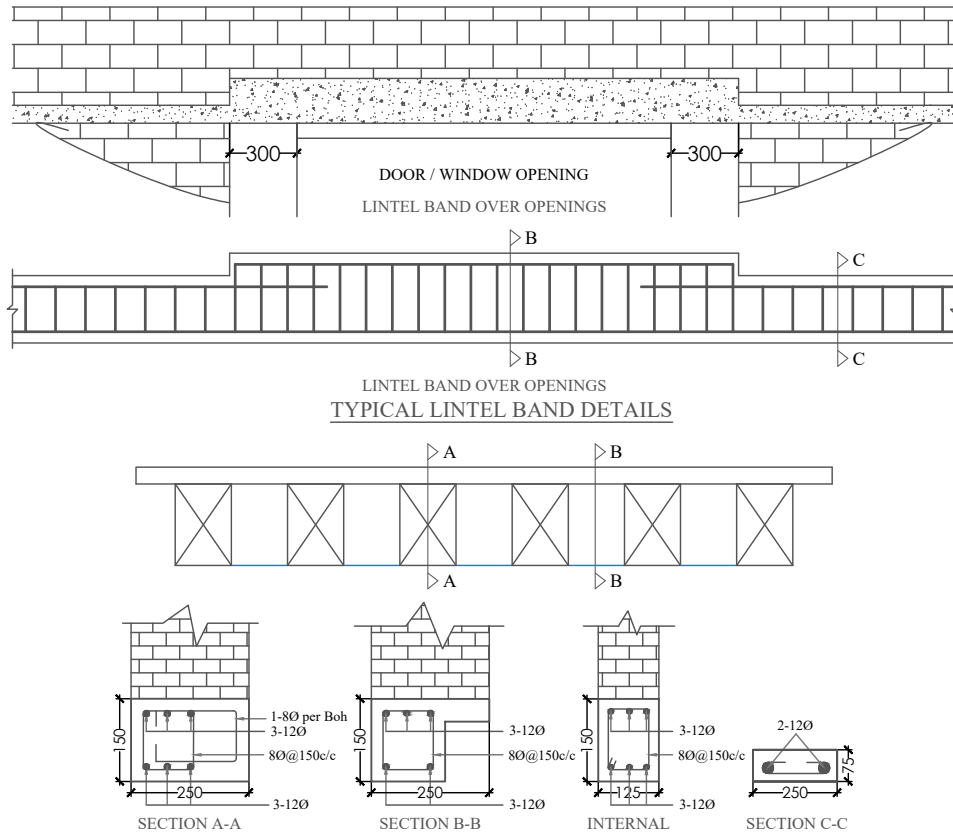


TRUSS MEMBER SIZE

SL#	PARTICULARS	TYPE	OUTSIDE DIAMETER(mm)
1	RAFTER	PIP337.OM	33.7 OD,3.2MM THICK,2.41KG/M
2	PURLIN	PIP337.OM	33.7 OD,3.2MM THICK,2.41KG/M
3	STRUTS & VERTICAL	PIP337.OM	33.7 OD,3.2MM THICK,2.41KG/M
4	BOTTOM CHORD	PIP337.OM	33.7 OD,3.2MM THICK,2.41KG/M



<div><p>12Ø LONGITUDINAL BARS THROUGHOUT</p><p>PCC (1:2:4)</p><p>(REFER ROOF BEAM DETAILS)</p><p>10Ø DIA BAR AT EACH PHANA</p><p>10Ø DIA BAR AT EACH BOH</p><p>TYPICAL CORNICE DETAIL FOR MAIN BUILDING PROJECTION FROM BEAMS</p></div>	<div><p>THIMPHU, BHUTAN. 17656338</p><p>PROJECT TITLE</p><p>PROPOSE CONSTRUCTION OF TASHI CELL REGIONAL OFFICE, P/LING, BHUTAN</p><p>ENGINEER</p><p>BHAKTA BDR MONGER</p><p>CLIENT</p><p>TASHI CELL</p><p>DRAWING TITLE</p><p>CORNICES DETAIL</p><p>NOTES</p><p>1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.</p><p>2. DIMENSIONS ARE TO BE READ NOT TO BE MEASURED OR SCALED OFF.</p><p>3. ONLY APPROVED DRAWINGS SHALL BE USED UNLESS AS MENTIONED BY DESIGNERS.</p></div>							
	<table><tr><td>DATE</td><td>26-Jun-23</td></tr><tr><td>SCALE</td><td>NTS</td></tr><tr><td>DWG No</td><td>S_{TR} 33</td></tr></table>		DATE	26-Jun-23	SCALE	NTS	DWG No	S _{TR} 33
	DATE	26-Jun-23						
	SCALE	NTS						
	DWG No	S _{TR} 33						

<div><p>DOOR / WINDOW OPENING</p><p>LINTEL BAND OVER OPENINGS</p><p>300</p><p>300</p><p>B</p><p>B</p><p>C</p><p>C</p><p>LINTEL BAND OVER OPENINGS</p><p>TYPICAL LINTEL BAND DETAILS</p><p>SECTION A-A</p><p>SECTION B-B</p><p>INTERNAL</p><p>SECTION C-C</p><p>1-8Ø per Boh</p><p>3-12Ø</p><p>8Ø@150c/c</p><p>250</p><p>3-12Ø</p><p>150</p><p>250</p><p>3-12Ø</p><p>8Ø@150c/c</p><p>250</p><p>3-12Ø</p><p>125</p><p>3-12Ø</p><p>250</p><p>75</p></div> <p>NOTES:</p> <p>1. LINTEL BAND SHALL BE PROVIDED FOR THE FULL LENGTH OF WALLS.</p> <p>2. LAP LENGTH OF LINTEL BAND REINFORCEMENT SHALL NOT BE LESS THAN 47XØ OF BAR.</p> <p>3. LINTEL BAND SHALL EXTEND FROM COLUMN TO COLUMN ENCLOSING PROJECTED WALLS</p> <p>4. LINTEL BAND REINFORCEMENT SHALL BE PROPERLY ANCHORED TO COLUMNS.</p>	
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PROJECT TITLE

PROPOSE CONSTRUCTION
OF TASHI CELL REGIONAL
OFFICE, P/LING, BHUTAN

ENGINEER

BHAKTA BDR MONGER

CLIENT

TASHI CELL

DRAWING TITLE

CORBEL DETAIL

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DATE 26-Jun-23

SCALE NTS

DWG No S_{TR} 34

