



 Eng. MAJ D A Bana

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PREPARE BY DR-Majid Albana
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+9647702724811

Notes

THE BUILDING SYSTEM WILL BE
 CONSIDER AS SHEAR WALL
 BUILDING WITH COLUMNS AND
 THE SLAB WILL BE AS FLAT SLAB
 .THE SOFTWARE USED IN DESIGN
 (CSI ETABS 2022, AND CSI SAFE
 2022&PROKON) IS THE GENERAL
 PROGRAM USED IN THIS DESIGN

job title

RESIDENTIAL BUILDING

DRWG. TITLE: _____

DESIGNED BY **DR-Majid Albana**

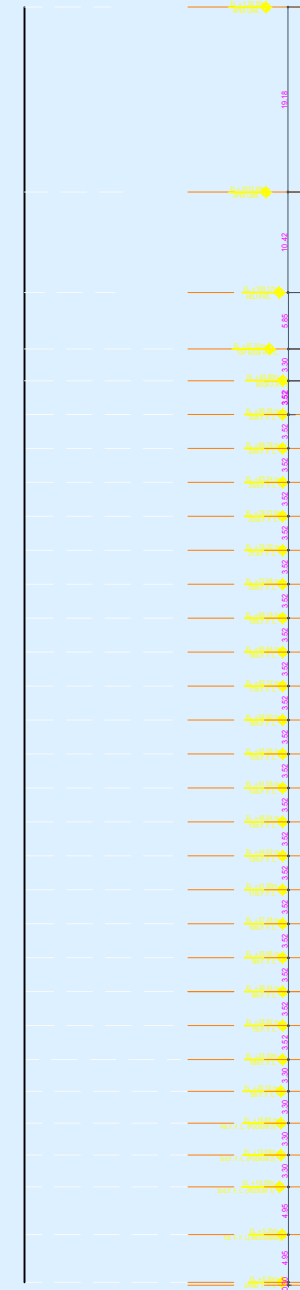
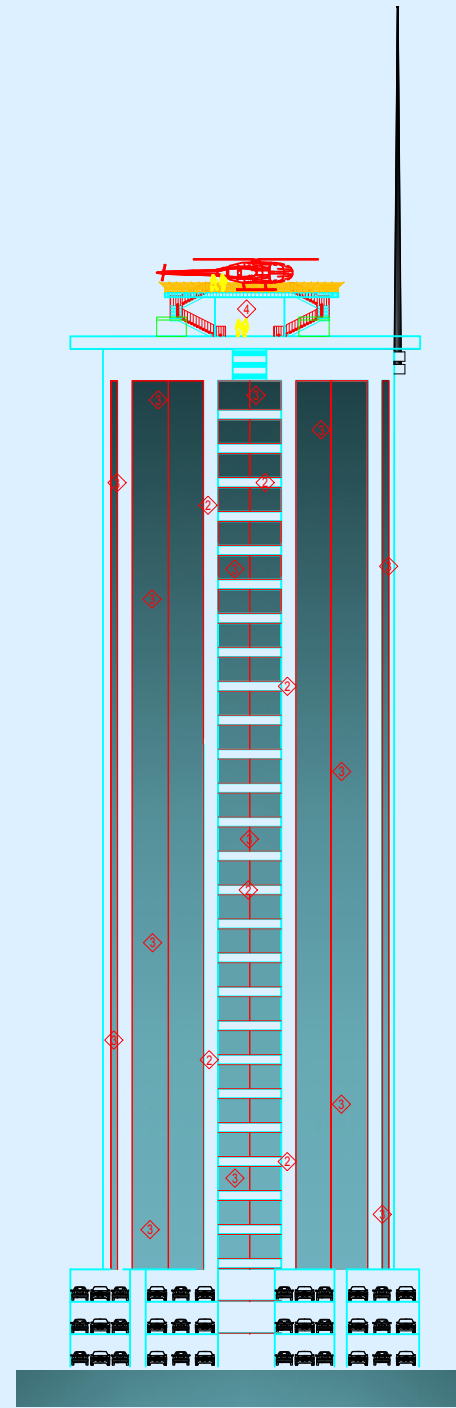
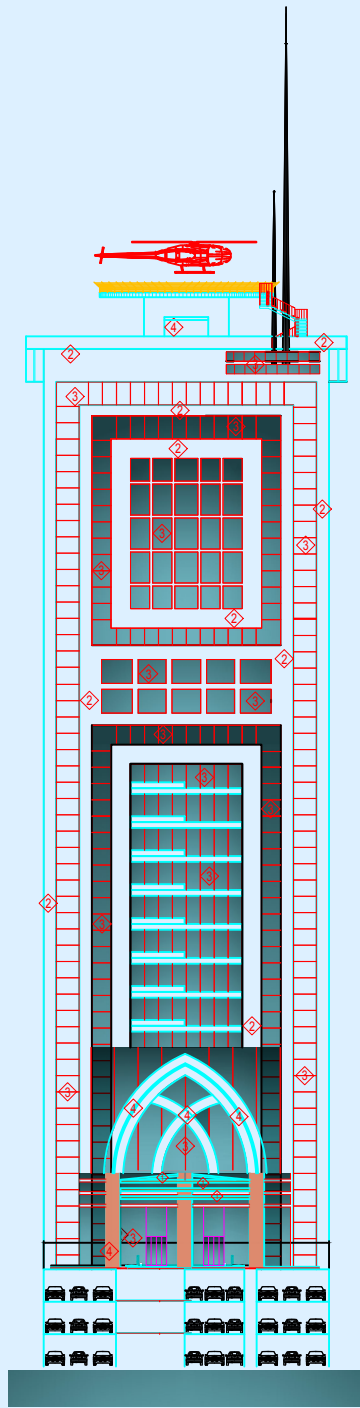
CHECKED BY _____

SCALE As Shown

DATE **6 /2023**

SHEET NO. Str. | 1



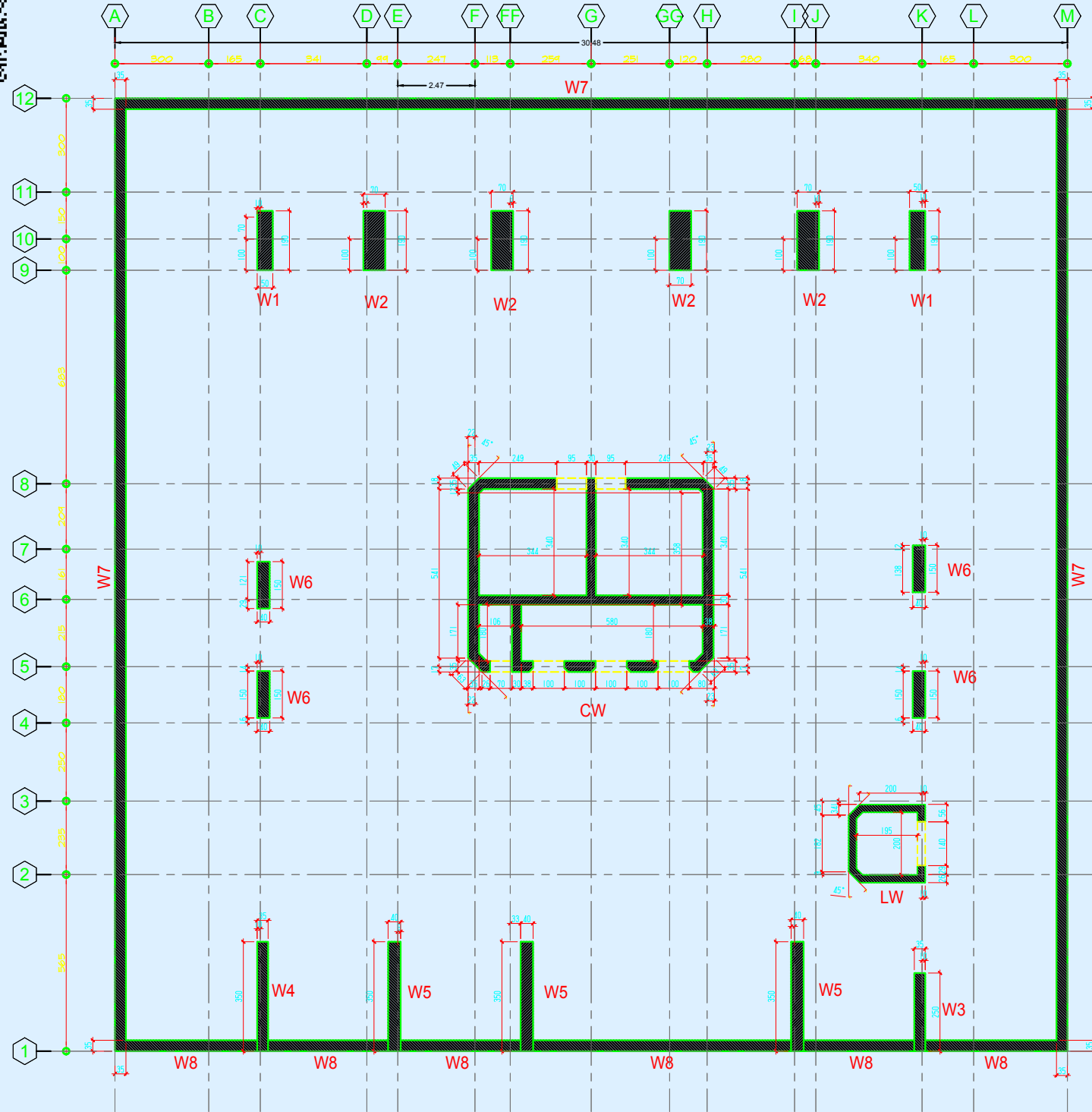


no.	date	initials	revision
job title			
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drawing title			
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designed	ENG : DR-Majid Albana		project manager
checked	scale	date	
drawn	job no.		sheet no.
approved			1




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COLUMN LAYOUT BASEMENT 2b

WALL KEY PLAN

SCHEDULE OF COLUMNS AND WALLS

COLUMNS OR WALLS ID	SIZE		REMARK
	(mm)	WIDTH (mm)	
W1	1900	500	
W2	1900	700	
W3	2500	350	
W4	3500	350	
W5			just basement
W6	1500	400	
W7	-	350	

Notes

- F_{cu} = 50 N/mm²
- F_y = 420 N/mm².
- CONCRETE COVERS**
- SLABS = 25 mm
- BEAMS = 40 mm
- COLUMNS = 40 mm
- WALLS = 25 mm
- SLAB ON GRADE = 50 mm
- RAFT FOUNDATION = 75 mm

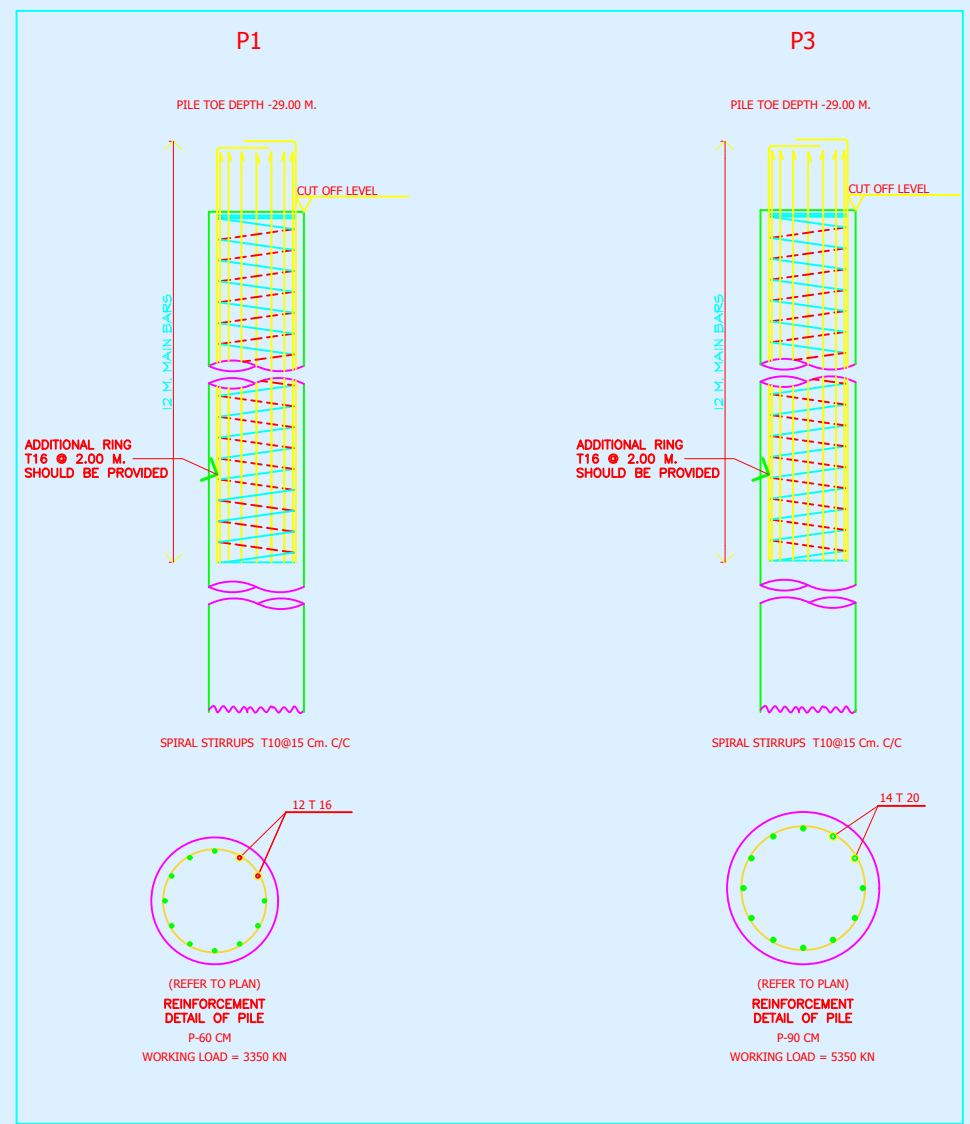
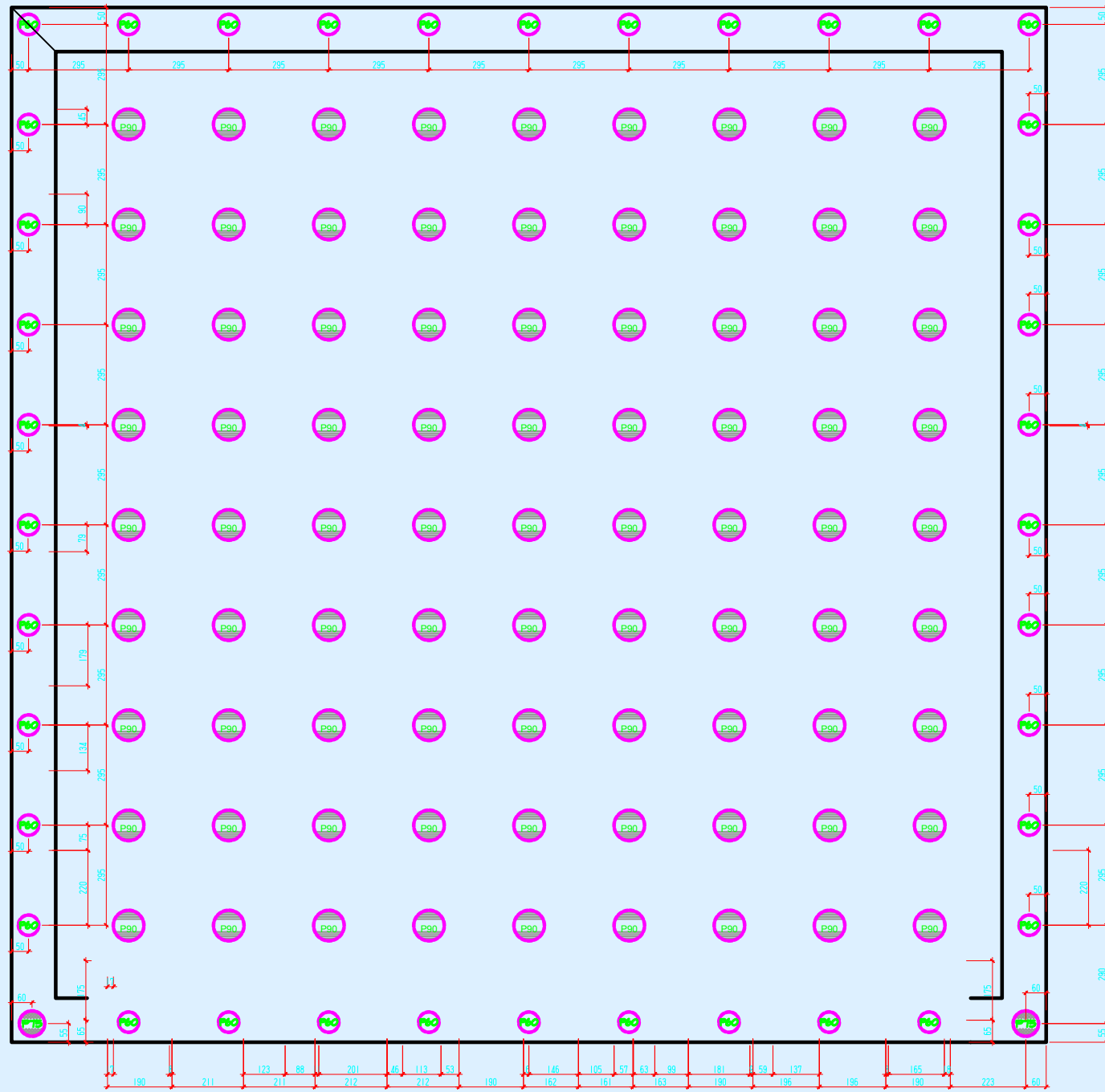
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job title			
(A)			
drawing title			
WALL KEY PLAN			
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checked		scale	1-100
		date	6/2023
drawn		job no.	8
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approved			

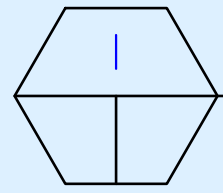



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PILES LAY OUT



SCALE 1:100 M

SPECIFICATIONS TABLE				P60	P90
ITEM	TITLE	ITEM DESCRIPTION		PILE DIA.	PILE DIA.
01	NUMBER	NUMBER OF WORKING PILES IN COMPRESSION		60	90
02	CAPACITY KN	ALLOWABLE CAPACITY OF WORKING PILES IN COMPRESSION		3350 KN	5350 KN
03	PILE TOE DEPTH	PILE TOE DEPTH FROM GROUND LEVEL		29.00 M	29.00 M
04	STRENGTH OF CONCRETE(N/mm ²)	SPECIFIED 28 DAY CUBIC COMPRESSIVE STRENGTH OF CONCRETE		30(N/mm ²)	30(N/mm ²)
05	CEMENTITIOUS MATERIAL CONTENT (KG.)	ORDINARY PORTLAND CEMENT	GGBS	MICROSILICA	
		148 kg.	260 kg.		
06	LOADS OF TESTS KN	STATIC TEST LOAD ON WORKING PILES KN		3350	5350
07	LOADS OF TESTS KN	STATIC TEST LOAD ON NON-WORKING PILE KN			
08		DYNAMIC TEST LOAD ON NON-WORKING PILE KN			
09	TESTS (STATIC-DYNAMIC, etc.)	NUMBER OF TESTS AS STATIC LOAD ON WORKING PILES			
10		NUMBER OF INTEGRITY TESTS ON WORKING PILES			
11	TESTS (STATIC-DYNAMIC, etc.)	NUMBER OF TESTS AS STATIC LOAD ON NON-WORKING PILE			
12		NUMBER OF TESTS AS DYNAMIC LOAD ON NON-WORKING PILE			

no.	date	initials	revision

job title

(A)

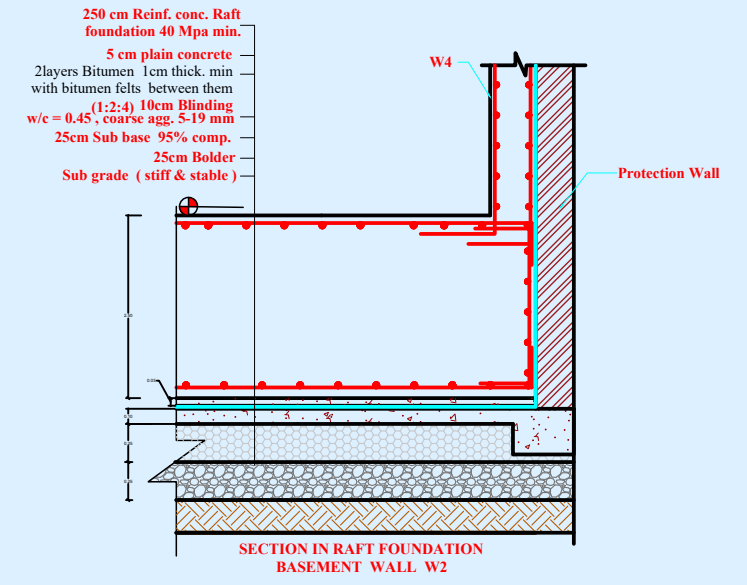
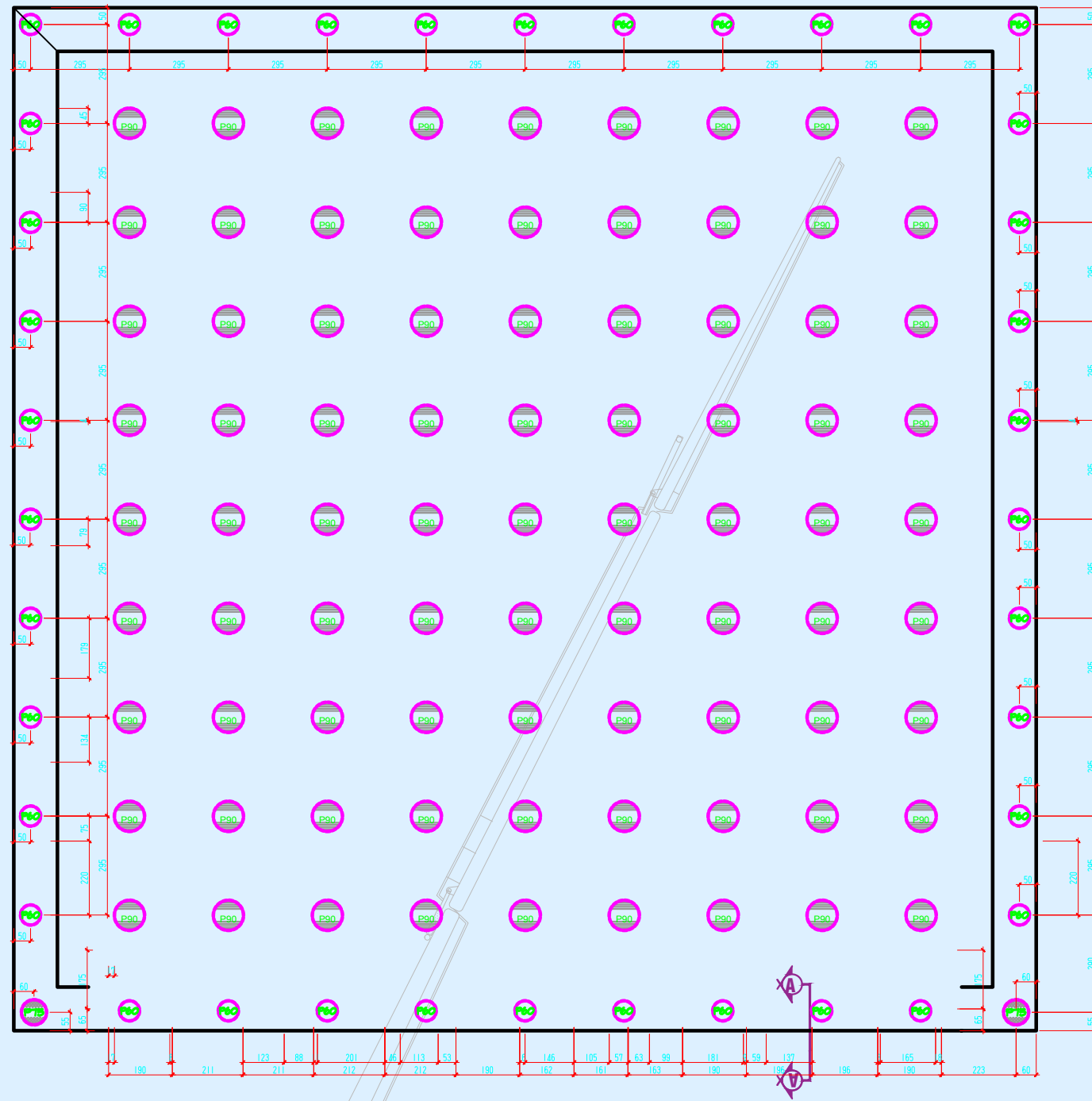
drawing title

PILES KEY PLAN

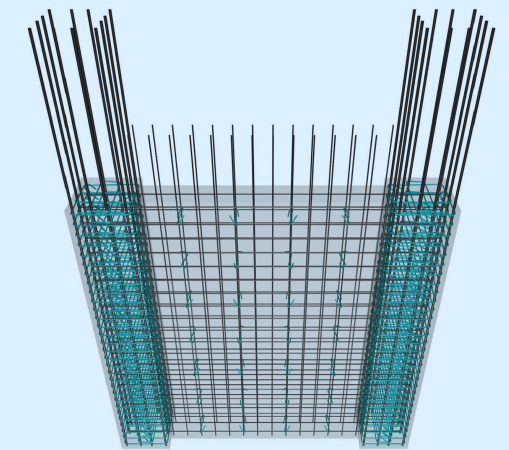
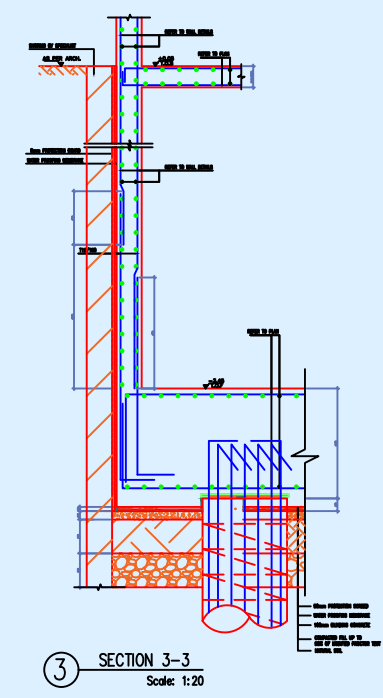
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checked		scale	1-100
drawn		date	6 /2023
approved		job no.	3
		sheet no.	ST/D/06

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Typical Section (A-A) of raft foundation

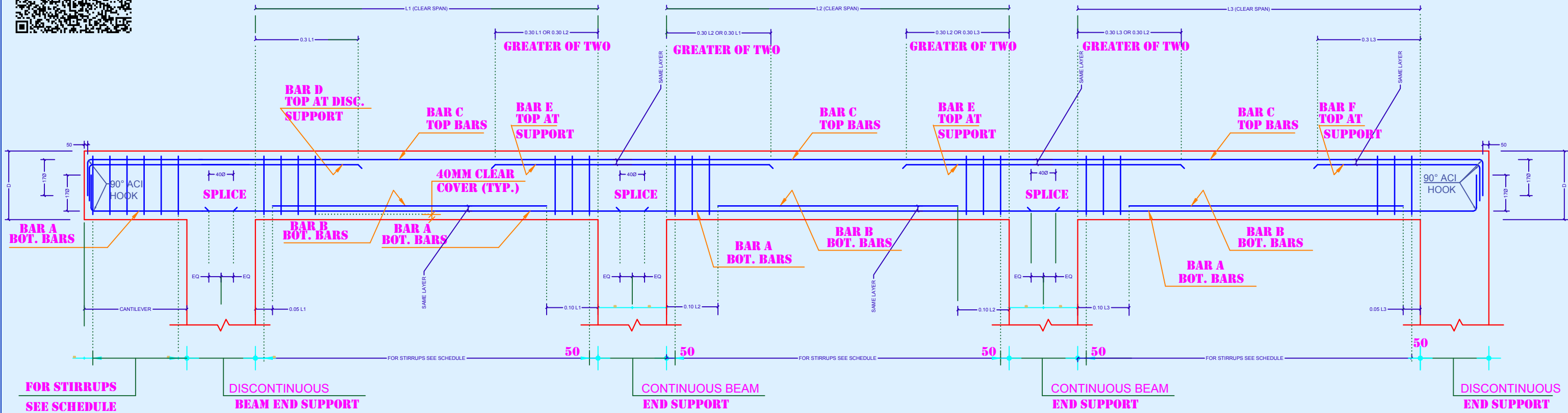


Foundation Plan

THICK. = 2500 mm

. all dim. from ARCH D.W.G.

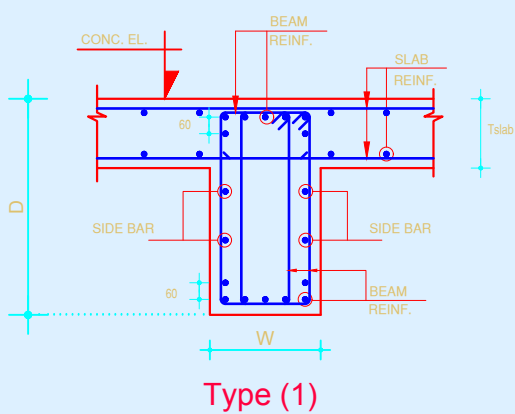
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designed	ENG : DR-Majid Albana	project manager	
checked		scale	1-100
drawn		date	6 /2023
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		sheet no.	ST/D/06



NOTES:

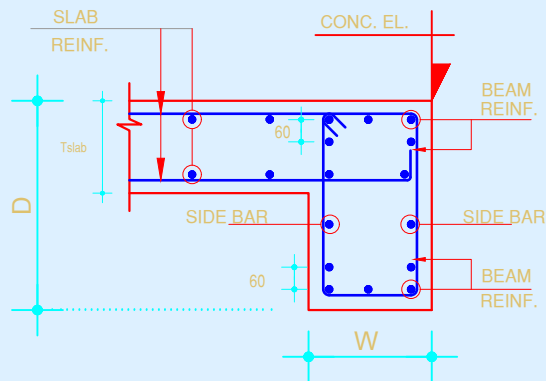
- 1. REFER TO BEAM SCHEDULE FOR NO. AND SIZE OF TOP AND BOTTOM BARS REQUIRED PER BEAM.**
- 2. PROVIDE 60MM CENTRE TO CENTRE WHEN SCHEDULES CALL FOR 2 LAYERS OF REBARS.**
- 3. FOR CANTILEVER BEAMS OR RIBS, BARS SHOULD BE EXTENDED UP TO ONE HALF THE CANTILEVER SPAN.**

TYPICAL BEAM LONGITUDINAL SECTION
NOT TO SCALE



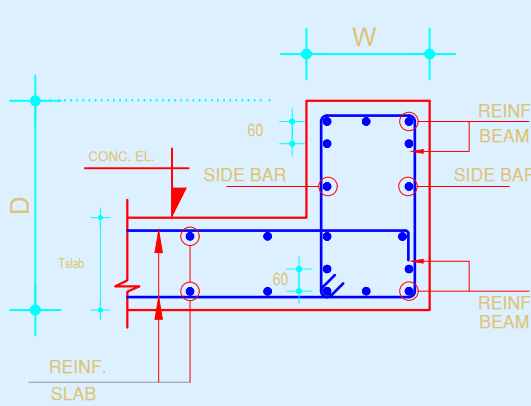
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TYPICAL INTERNAL BEAM SECTION
N.T.S



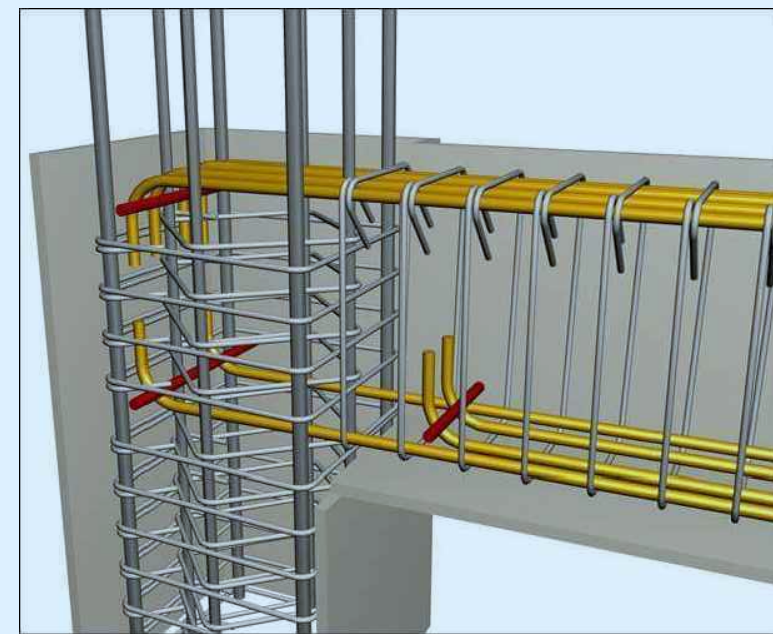
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TYPICAL EDGE BEAM SECTION
N.T.S



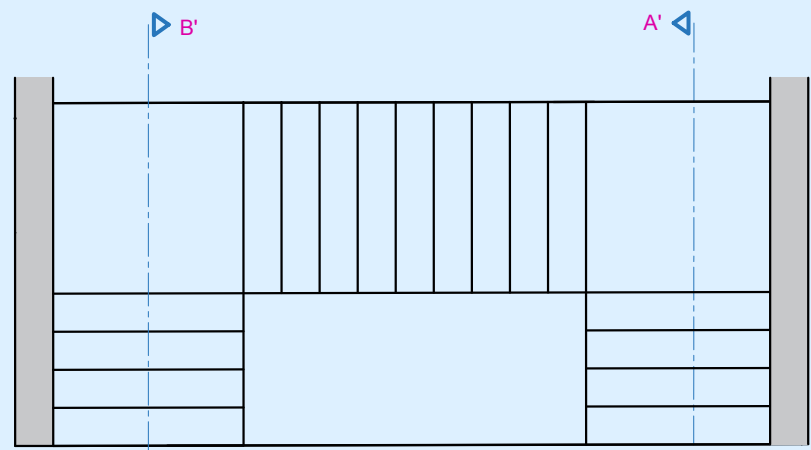
Type (4)

TYPICAL EDGE INV. BEAM SECTION
N.T.S



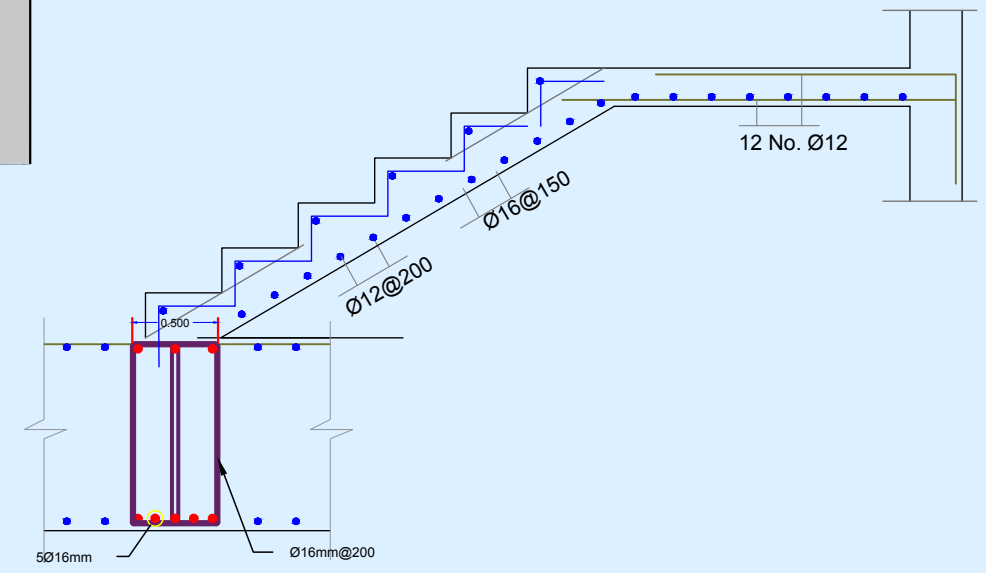
no.	date	initials	revision

job title TYPICAL BEAM LONGITUDINAL SECTION (A)										
drawing title										
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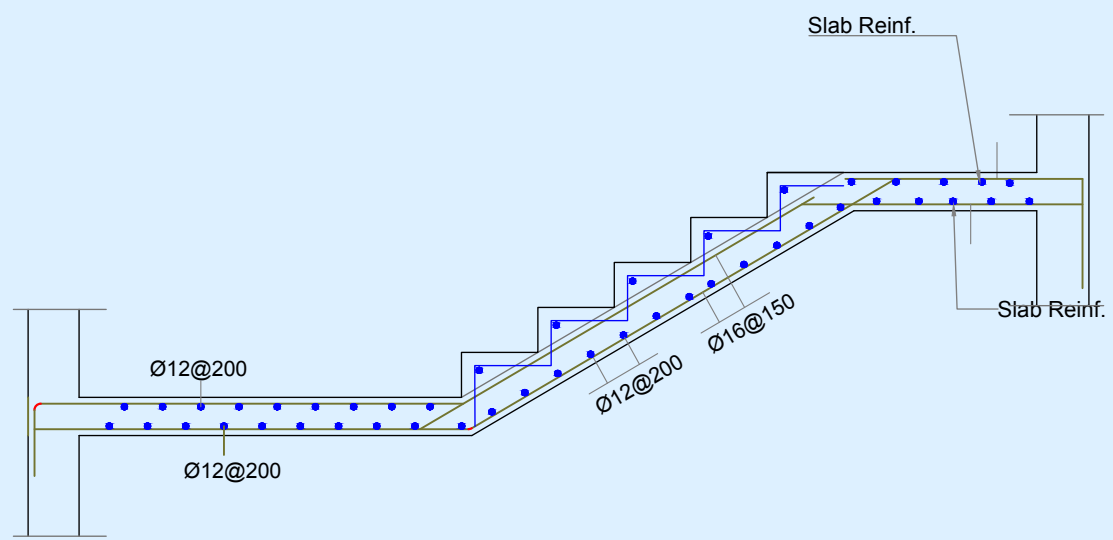
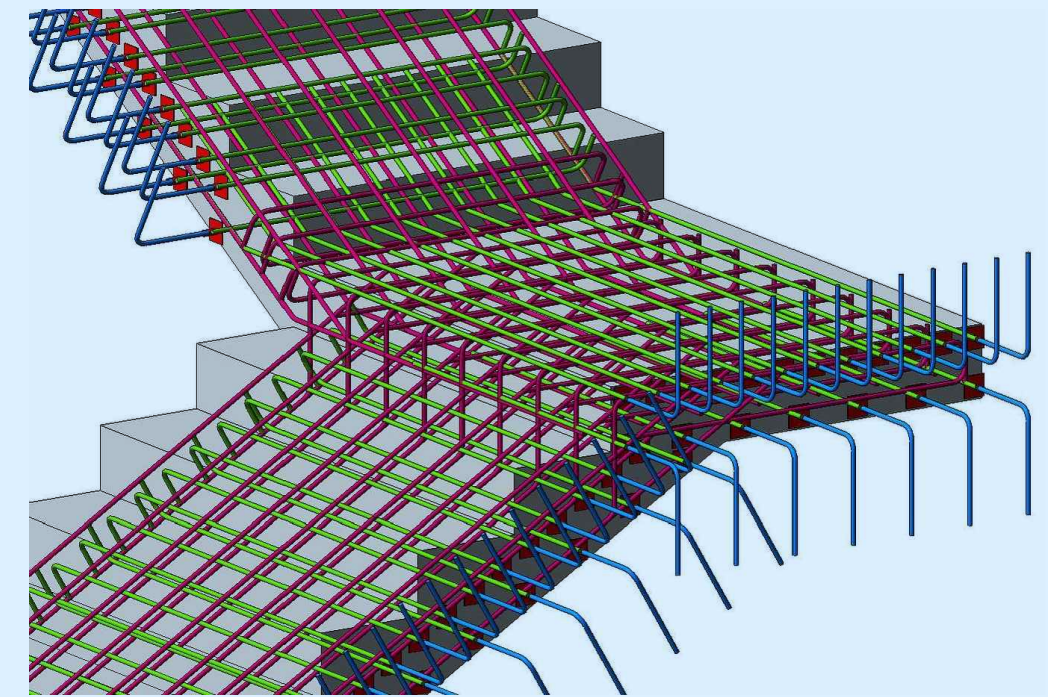



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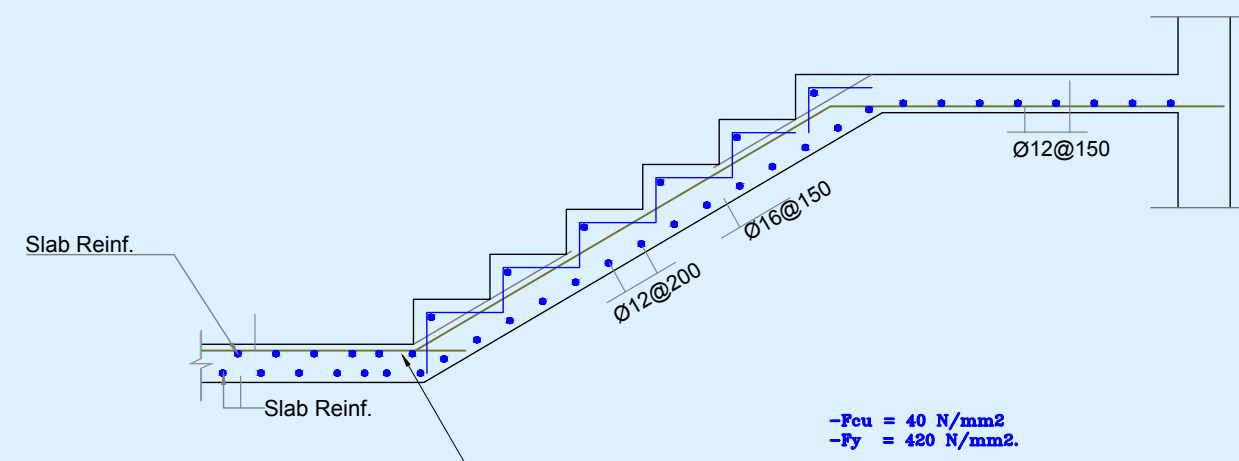
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SECTION A'-A' (between Foundation & landing)



SECTION A'-A' (between slab & landing)



-F_{cu} = 40 N/mm²
 -F_y = 420 N/mm².

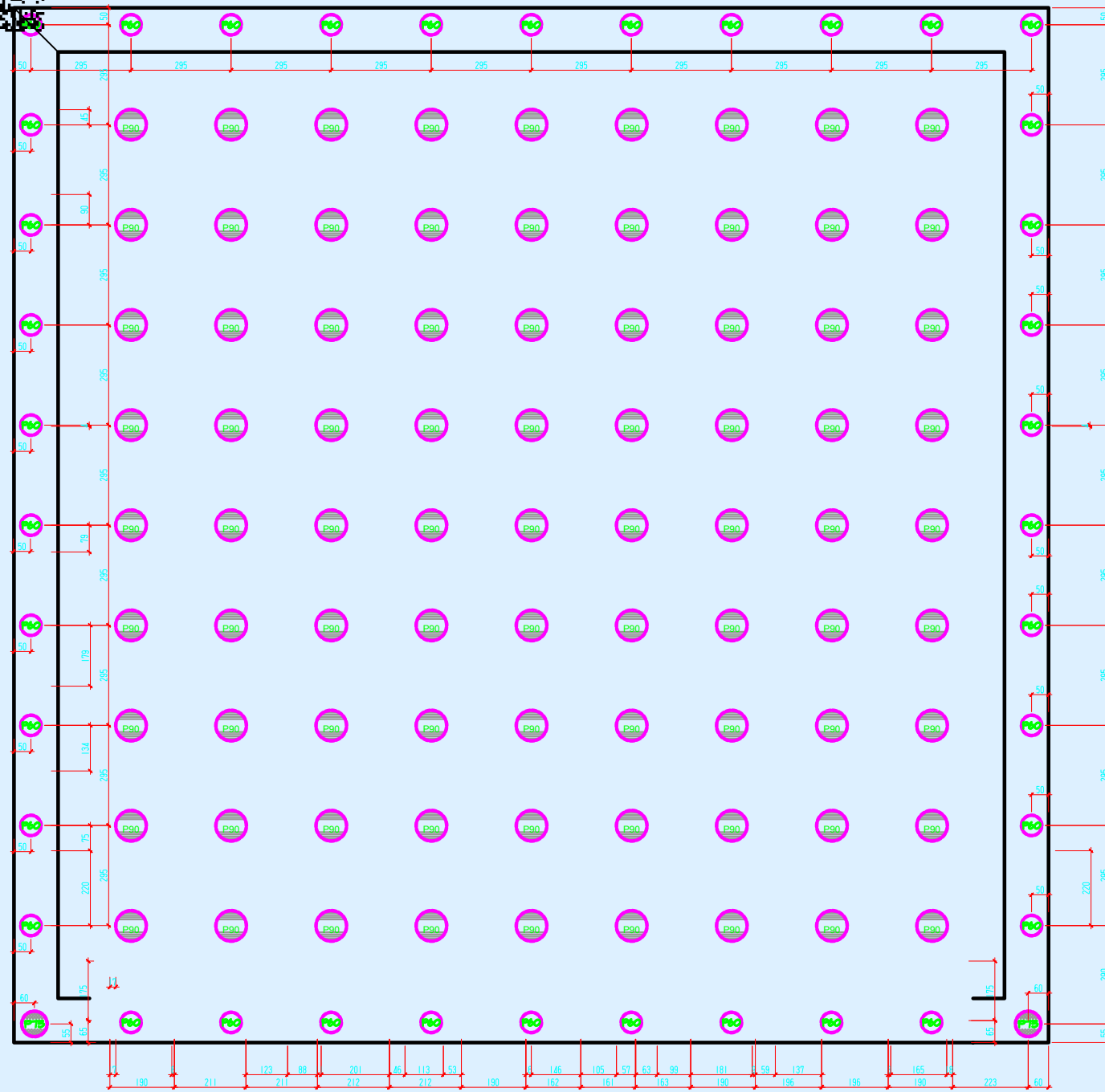
CONCRETE COVERS

- SLABS = 25 mm
- BEAMS = 40 mm
- COLUMNS = 40 mm
- WALLS = 25 mm
- SLAB ON GRADE = 50 mm
- RAFT FOUNDATION = 75 mm

-THE BUILDING IS DESIGNED FOR
 BASEMENT + GROUND FLOOR +
 12FLOORS + PENT-HOUSE

all dim. from ARCH D.W.G.

no.	date	initials	revision
job title			
(A)			
drawing title			
Stairs detail			
designed	ENG : DR-Majid Albana	project manager	
checked		scale	1-100
drawn		date	6 /2023
approved		job no.	7
		sheet no.	ST/D/07



PILES works



 Eng. MAJID A. BANA

 المهندس الاستشاري

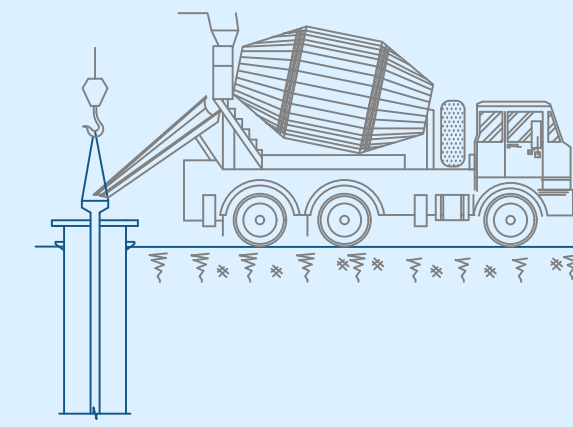
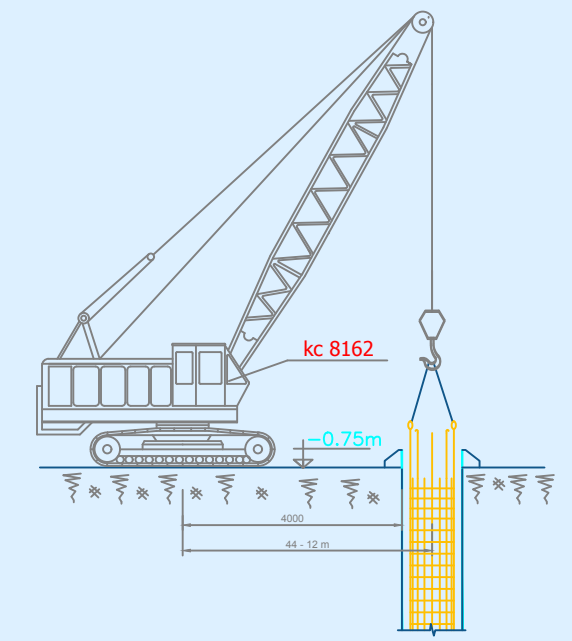
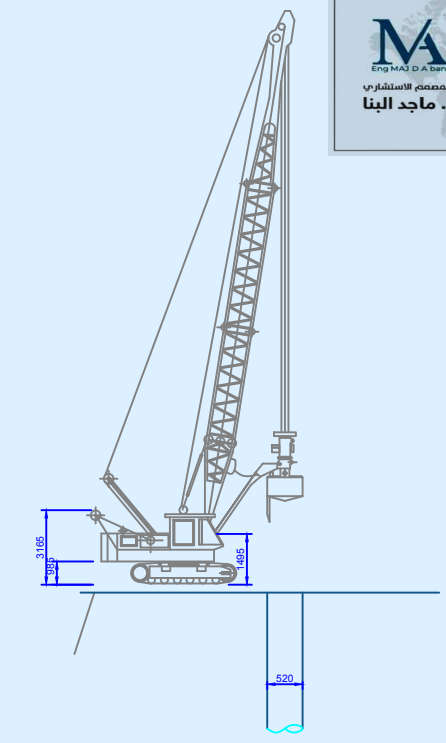
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no.	date	initials	revision
job title			
(A)			
drawing title			
PILES KEY PLAN			
designed		project manager	
ENG - DR. Majid Albana			
checked	scale	date	
	1-100	6 /2023	
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approved			





 Eng MAJ D.A. Abana

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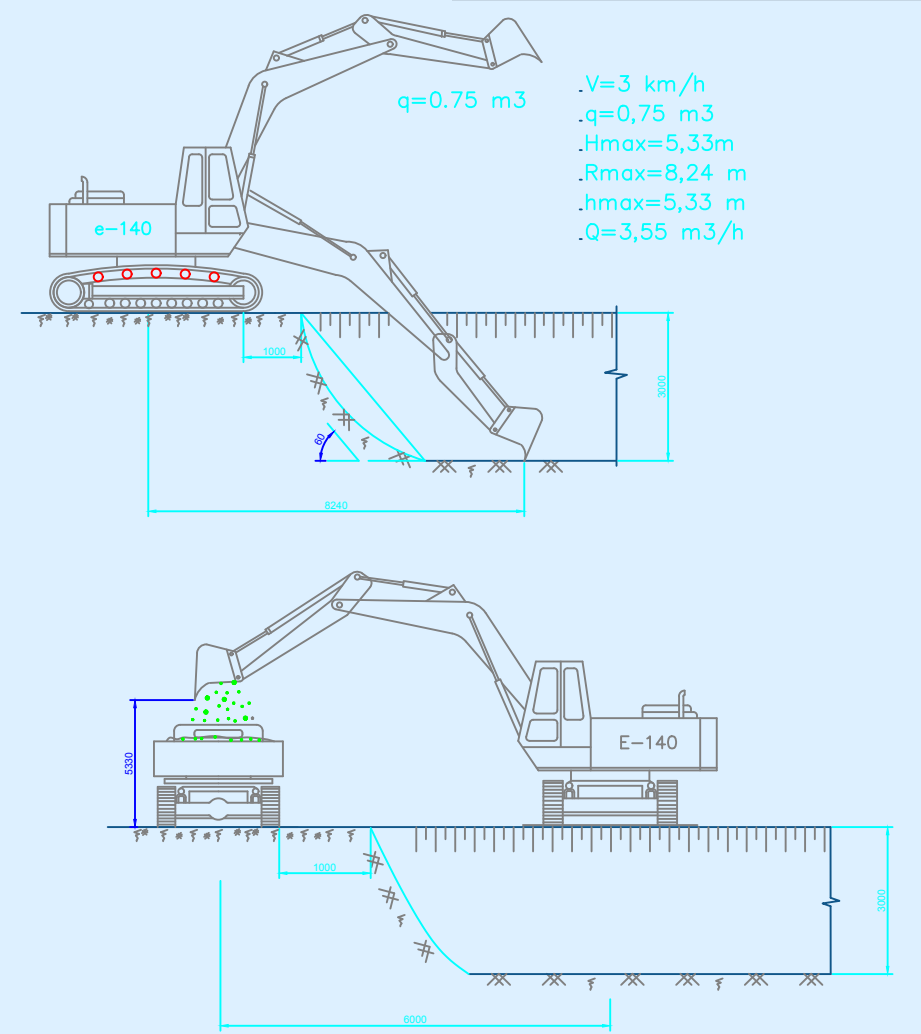
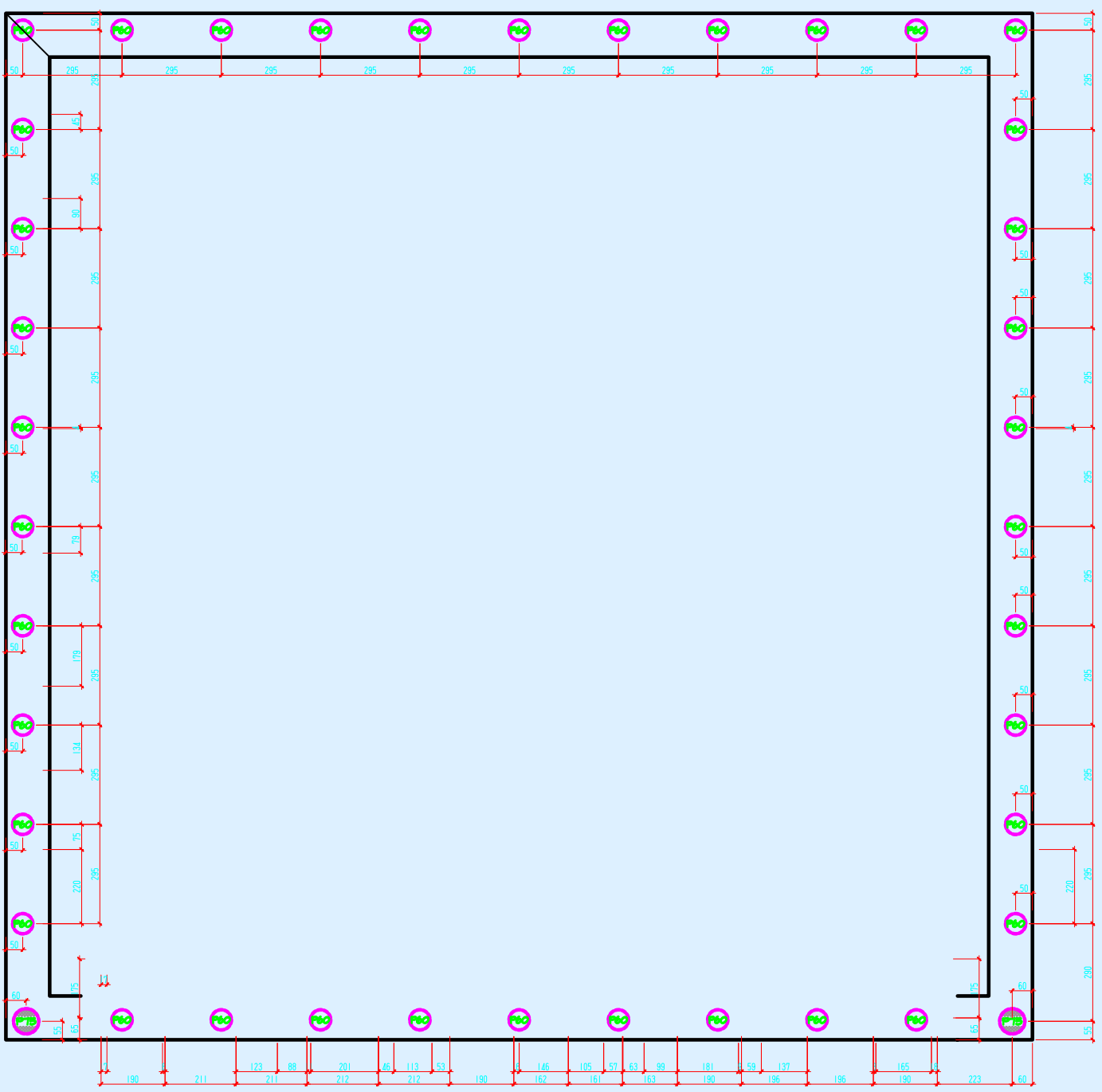
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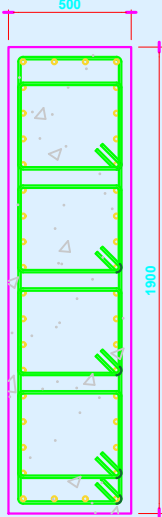
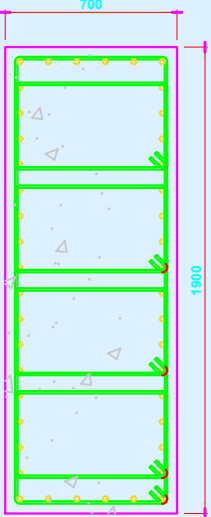
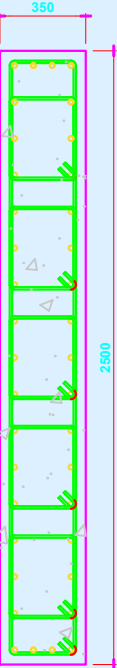
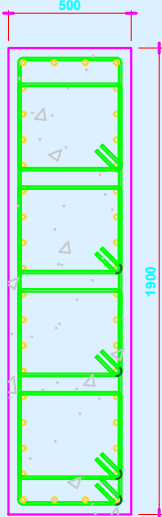
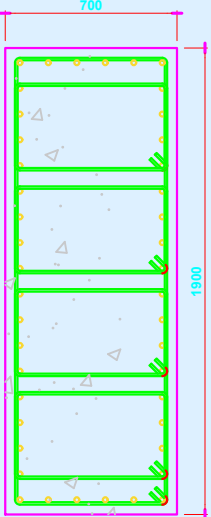
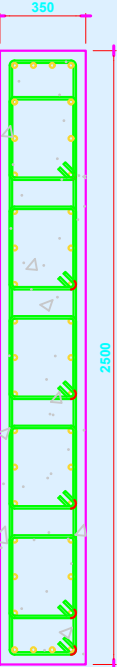
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digging works

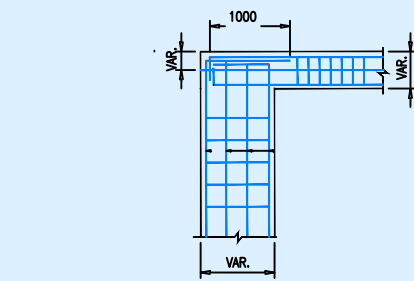
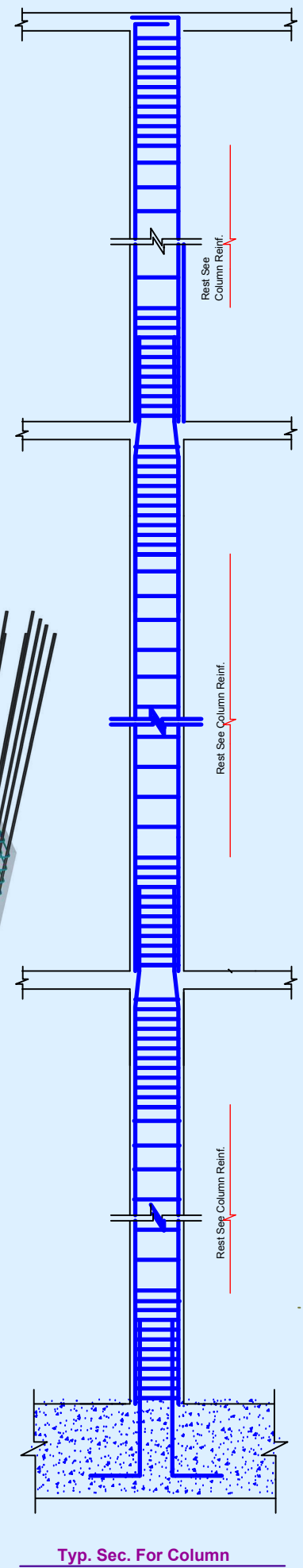
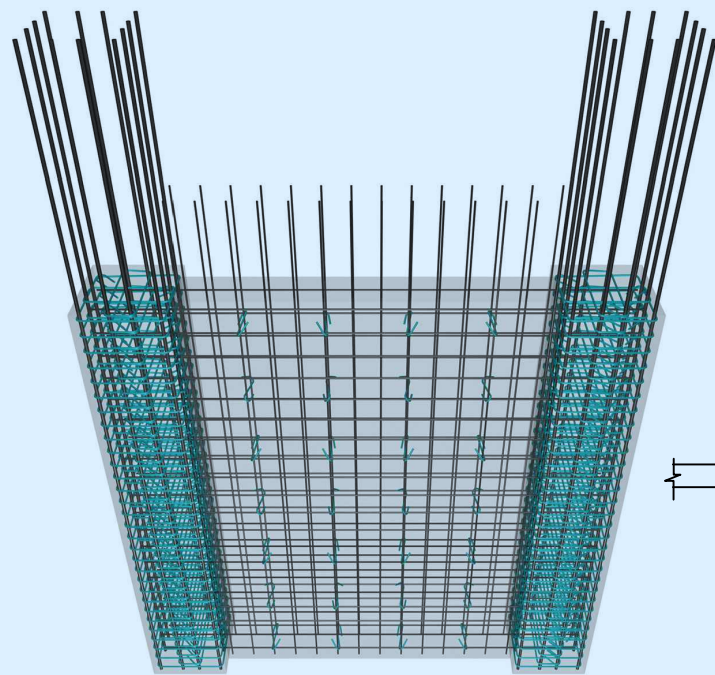
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designed		project manager	
ENG - DR-Majid Abana			
checked	scale	date	
	1-100	6 /2023	
drawn	job no.	sheet no.	
	3	ST/D/06	
approved			

Main Bar			26- Ø25	26- Ø20	36- Ø20
Ties	Roof Floor		Ø12@200 6Ties/Set	Ø12@200 6Ties/Set	Ø12@200 6Ties/Set
Section		FCU			
		C 50			
	11 th Floor				
Main Bar					
Ties					
Section	10 th Floor				
	Ground Level foundation level	C 50			
Dowels			Ø25@10 Cm C/C EDGE BARS 4Ø25 W 1	Ø25@10 Cm C/C EDGE BARS 6Ø25 W 2	Ø25@15 Cm C/C EDGE BARS 4Ø25 W 3

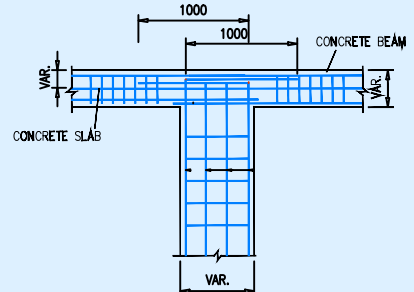



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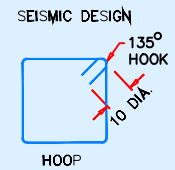
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TYPICAL EDGE TO BEAM DETAIL



TYPICAL INTERNAL WALL TO BEAM DETAIL



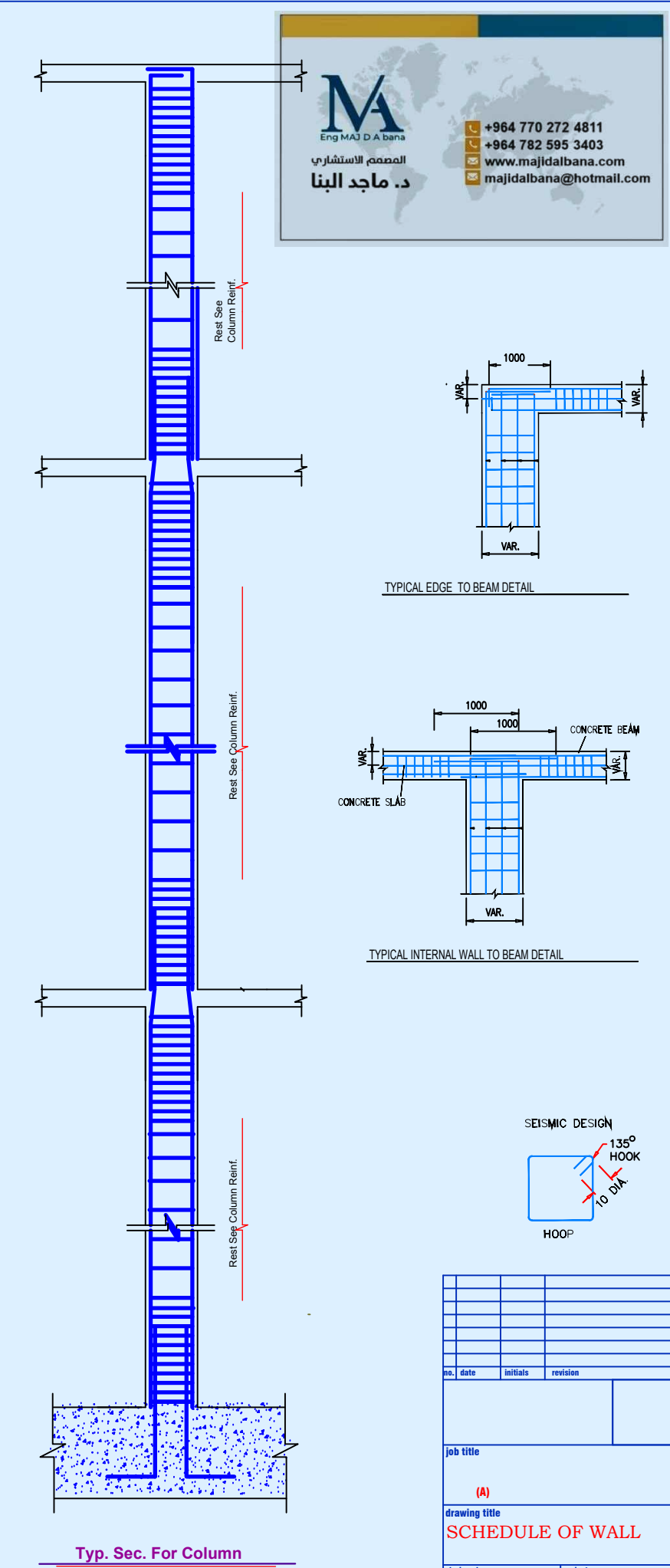
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designed	ENG : DR-Majid Albana	project manager	
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drawn	job no.	9	sheet no.
approved			

SCHEDULE OF WALL

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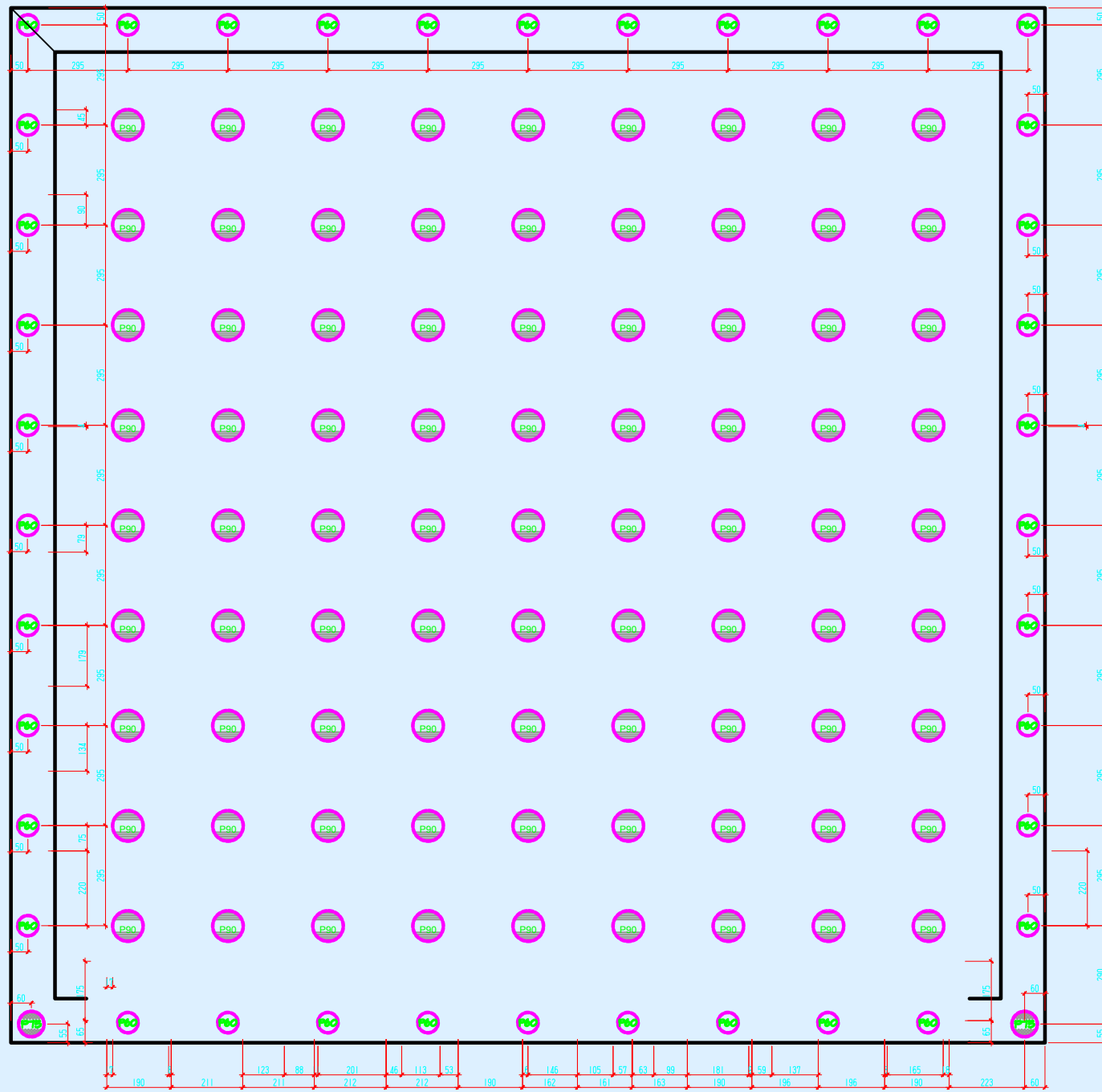
Main Bar	Ties	Floor	Concrete	Section 1	Section 2	Section 3	Section 4	Section 5
		Roof Floor	FCU					
		11 th Floor	C 50					
		10 th Floor	C 50					
		Ground Level foundation level						
Dowels				Ø25@10 Cm C/C EDGE BARS 6Ø25 W 4	Ø25@10 Cm C/C EDGE BARS 6Ø25 W 5	Ø25@7 Cm C/C EDGE BARS 3Ø25 W 6	MAIN BARS Ø25@15 Cm C/C TIES T16@15 W 7	MAIN BARS Ø20@15 Cm C/C TIES T16@15 W 8



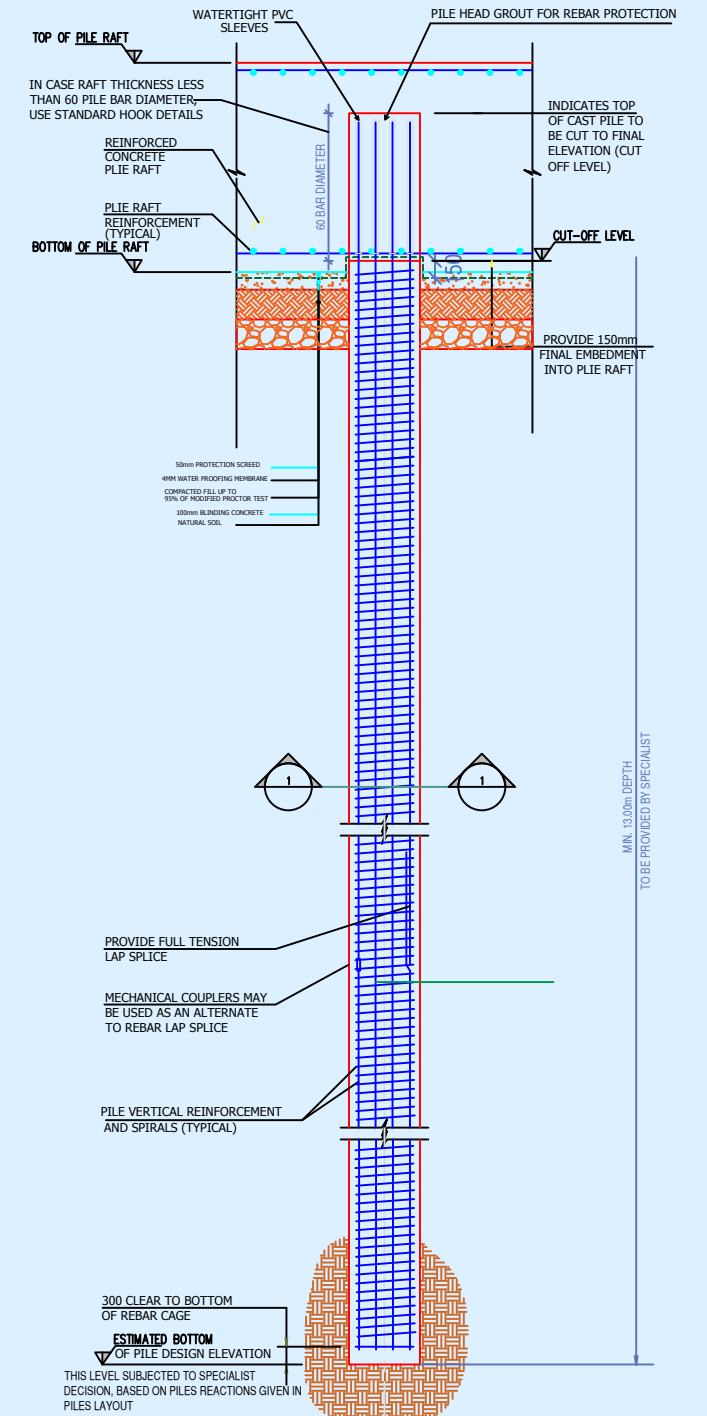
SCHEDULE OF WALL

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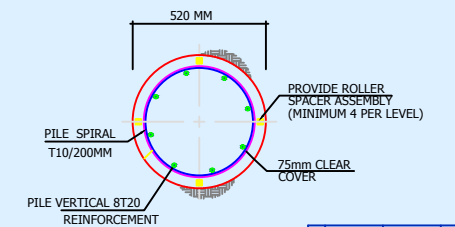
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drawn	job no.	9	6 /2023
approved	sheet no.		



PILES KEY PLAN

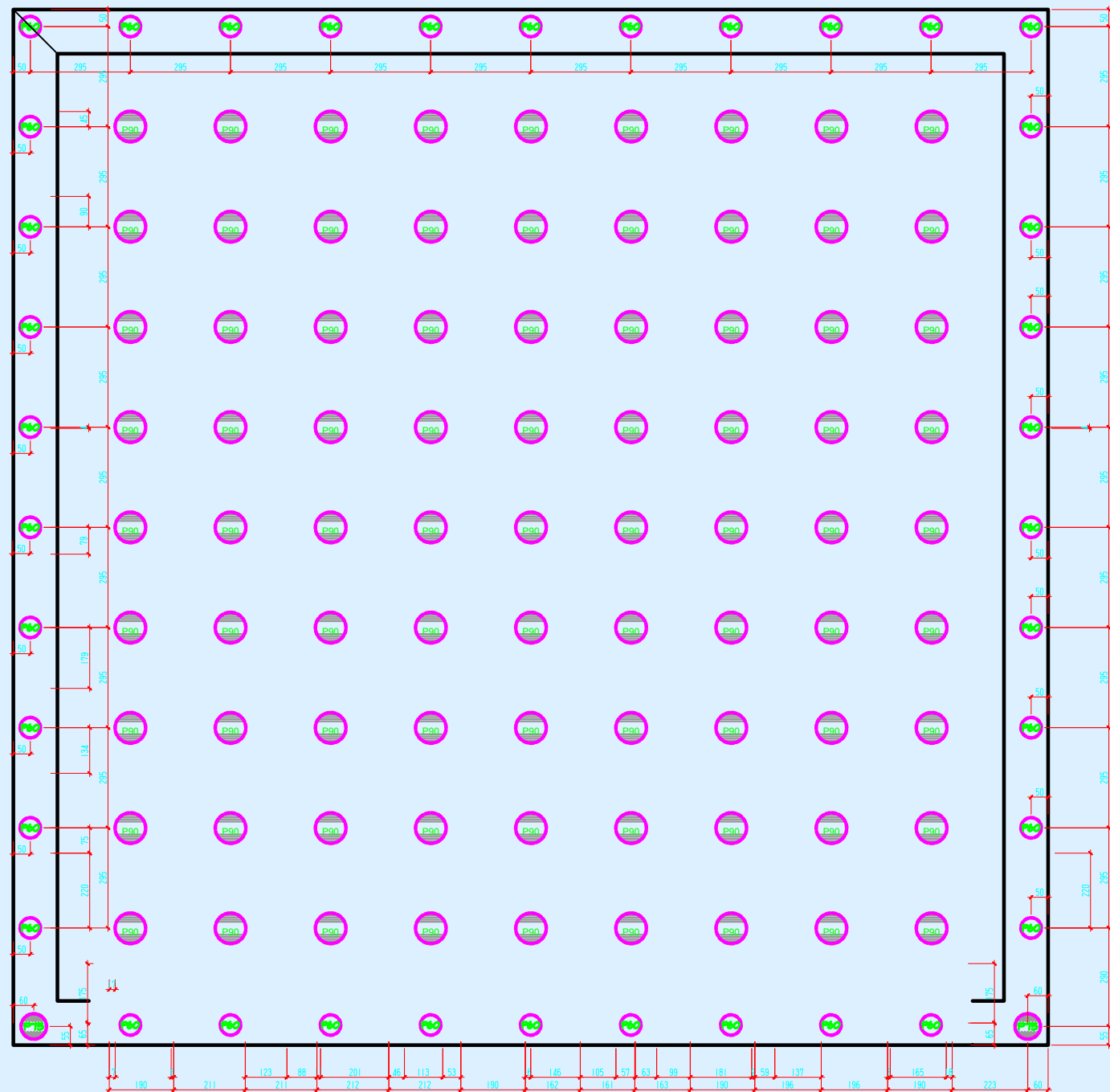


TYPICAL FRANKI PILE ELEVATION

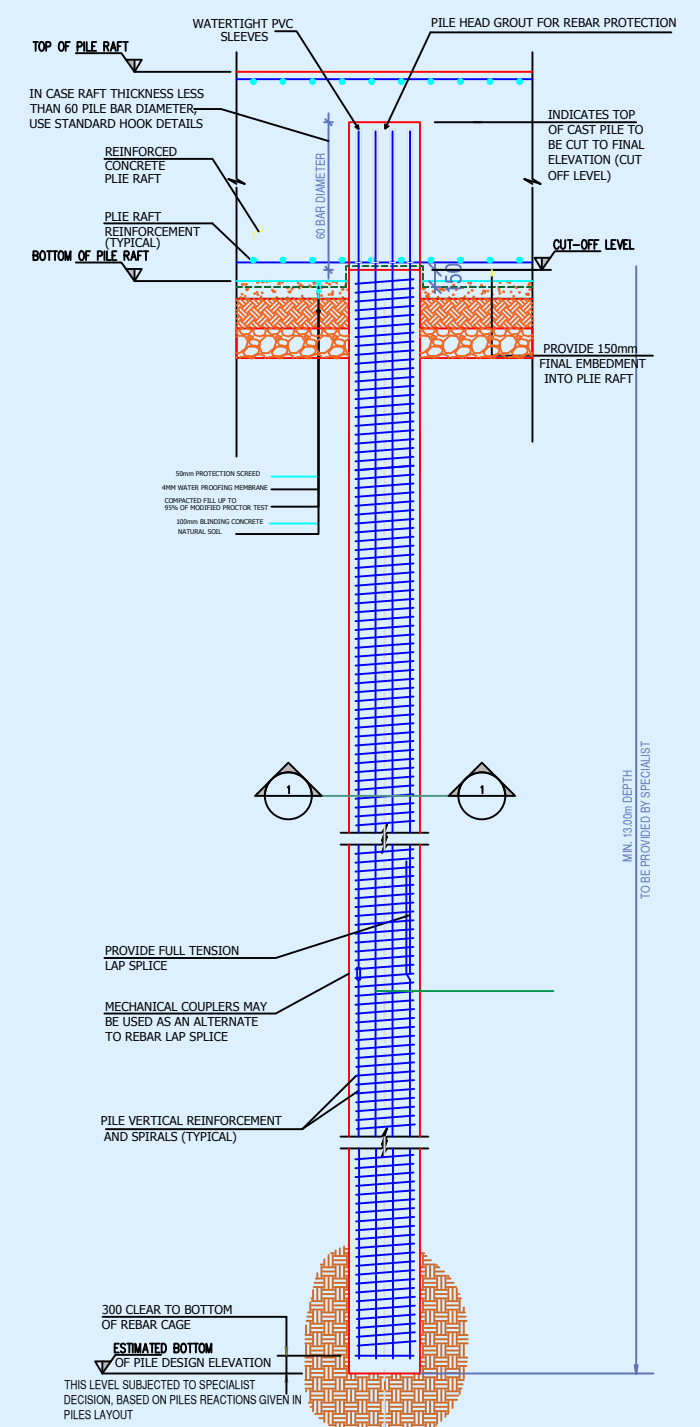


SECTION 1-1

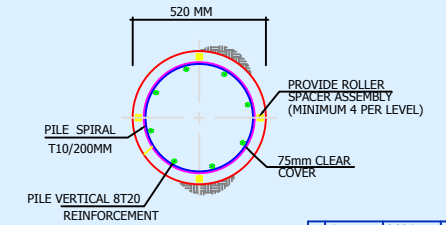
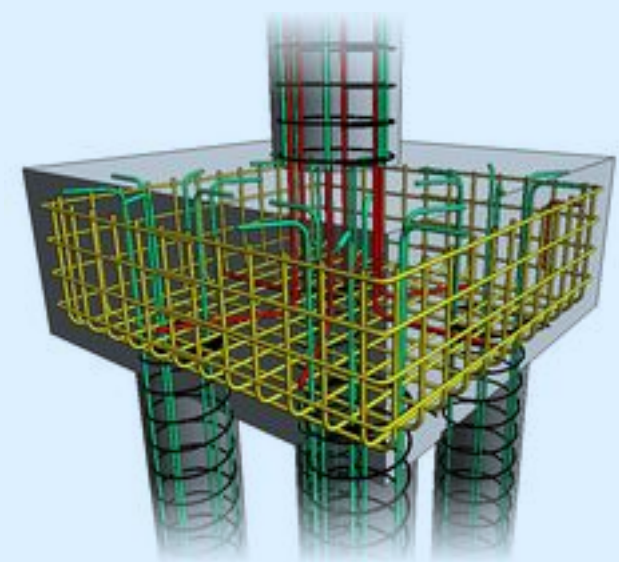
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designed	ENG : DR-Majid Albana	project manager	
checked		scale	1-100
drawn		date	6 /2023
approved		job no.	3
		sheet no.	ST/D/06



PILES KEY PLAN

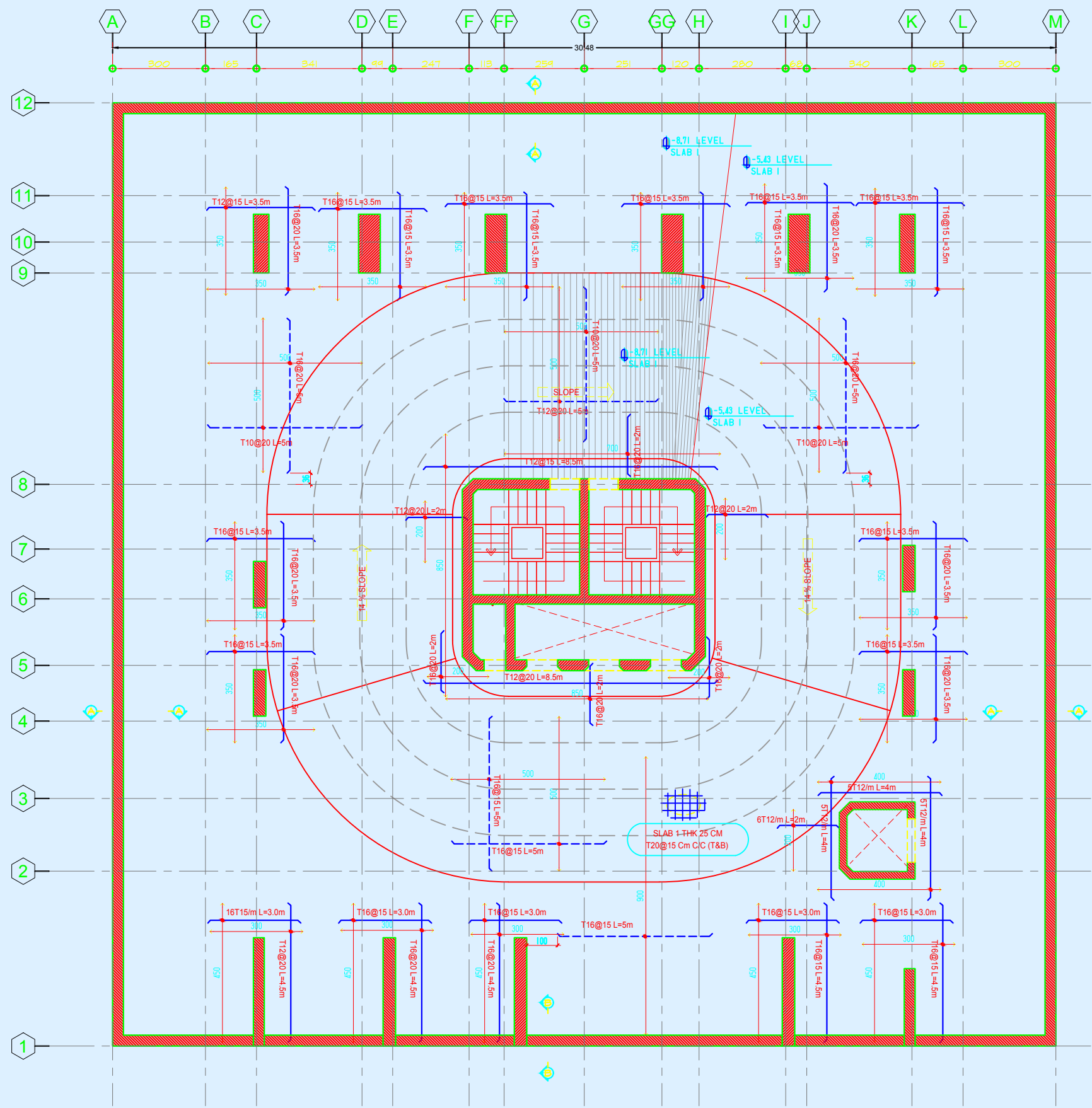


TYPICAL FRANKI PILE ELEVATION



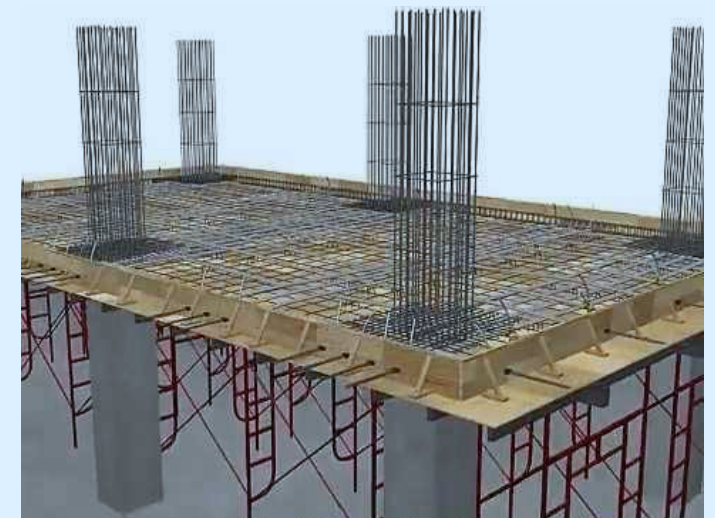
SECTION 1-1

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checked		scale	1-100
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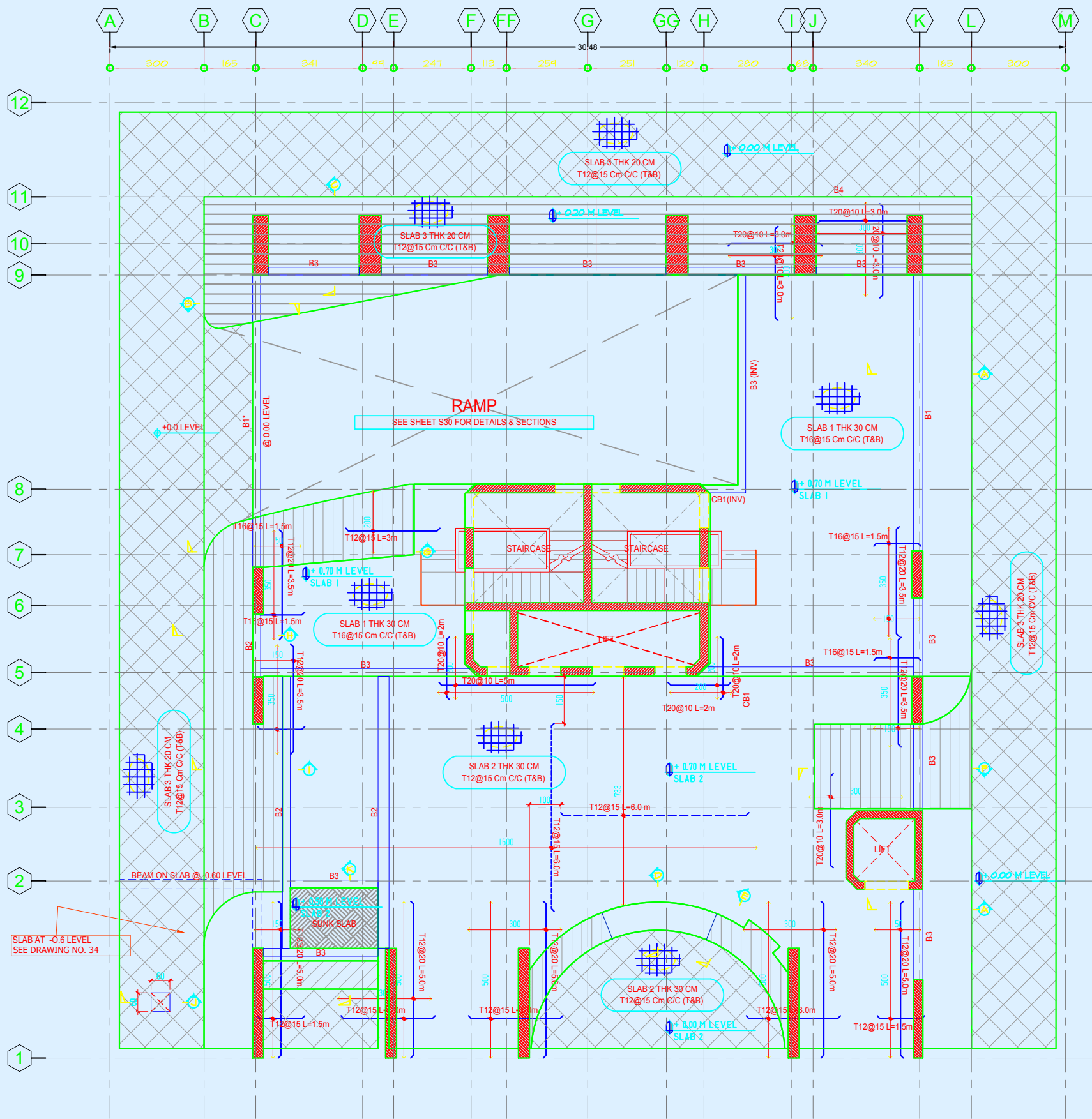

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BASEMENT 2A SLAB LAYOUT
 SCALE 1:100 M

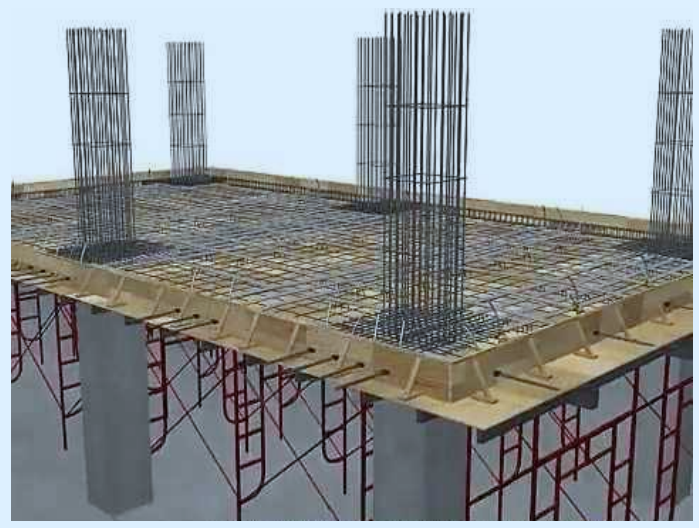
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checked	scale	1-100	date	6 / 2023
drawn	job no.	9	sheet no.	
approved				



M
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NOTE:

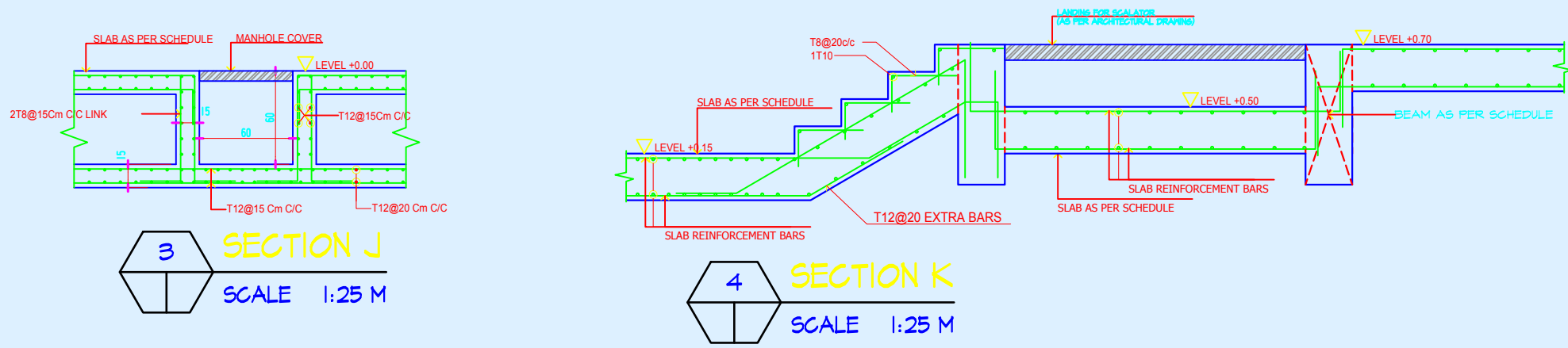
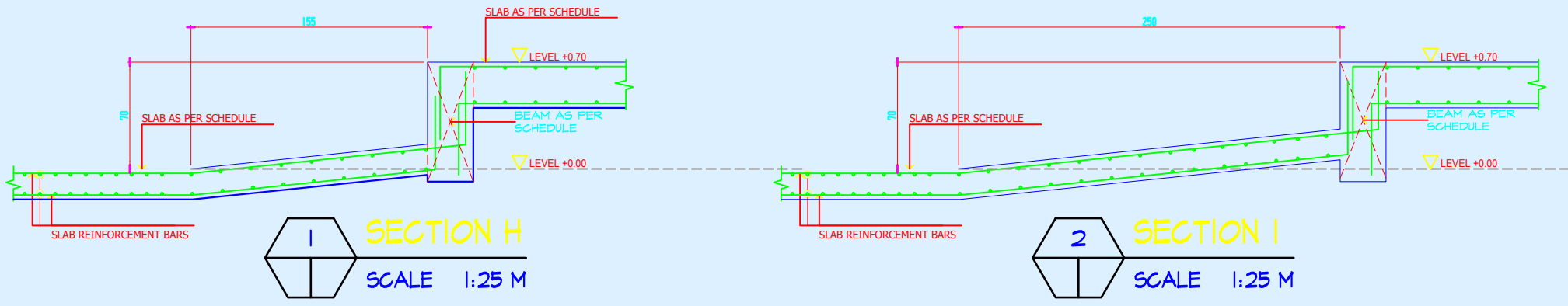
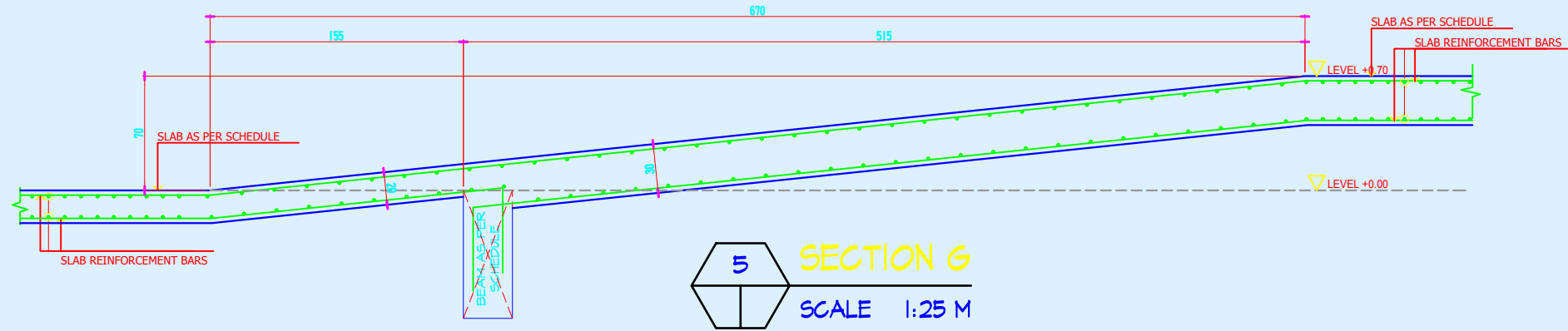
GROUND SLAB (LEVEL+O.O, +0.20 & +0.70)
SCALE 1:100 M

no.	date	initials	revision
job title			
(A)			
drawing title			
GROUND SLAB			
(LEVEL+O.O, +0.20 & +0.70)			
designed	ENG - DR-Majid Albana		project manager
checked	scale	1-100	date
drawn	job no.	9	6 / 2023
approved	sheet no.		

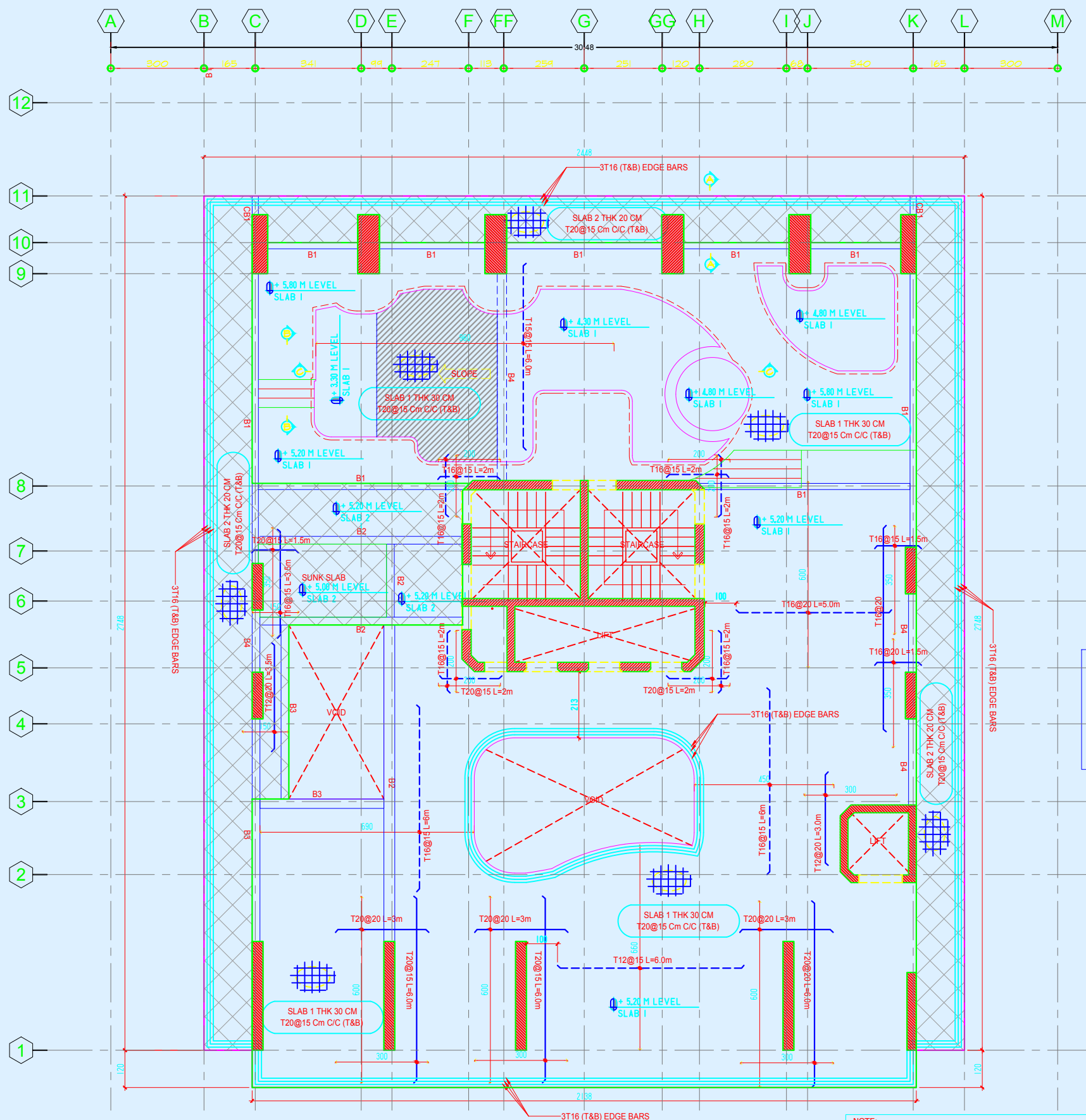



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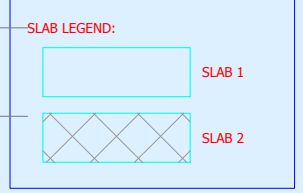
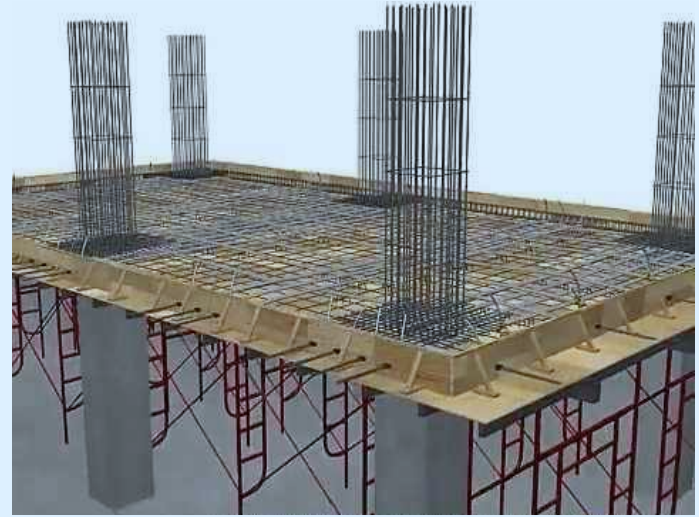


no.	date	initials	revision				
job title							
(A)							
drawing title							
SECTIONS							
designed	ENG : DR-Majid Albana	project manager					
checked		scale	1-100	date	6 /2023		
drawn		job no.	9	sheet no.			
approved							



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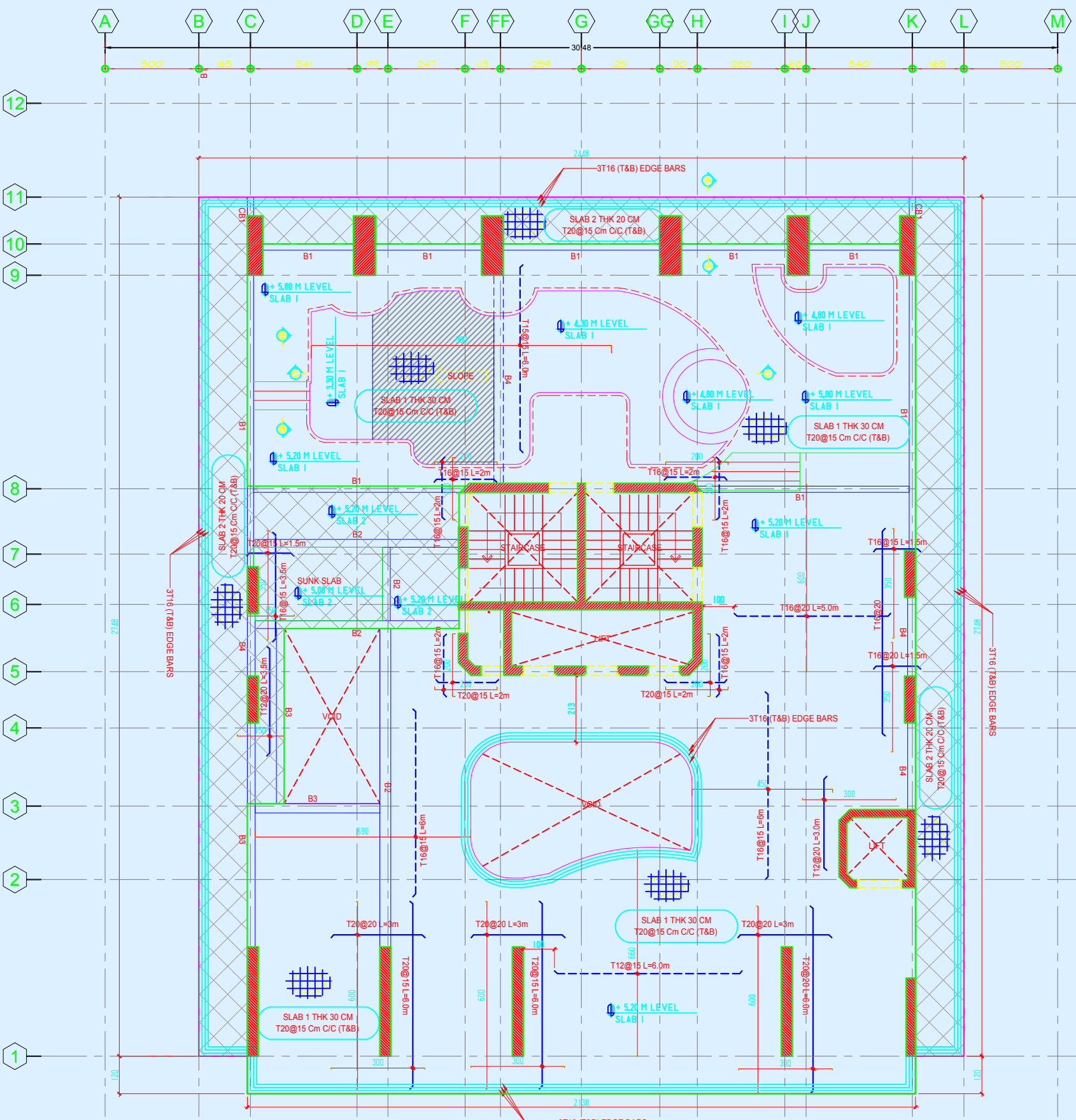
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NOTE:
FOR BEAMS SCHEDULE, SEE DRAWING NO. 47
FOR SECTIONS A-A, B-B & C-C SEE NEXT DRAWING SHEET.

FIRST SLAB LAY OUT
SCALE 1:100 M

no.	date	initials	revision
job title			
(A)			
drawing title			
FIRST SLAB LAY OUT			
designed	ENG : DR-Majid Albana	project manager	
checked		scale	1-100
drawn		date	6 /2023
approved		job no.	9
		sheet no.	



SLAB LEGEND:

	SLAB 1
	SLAB 2

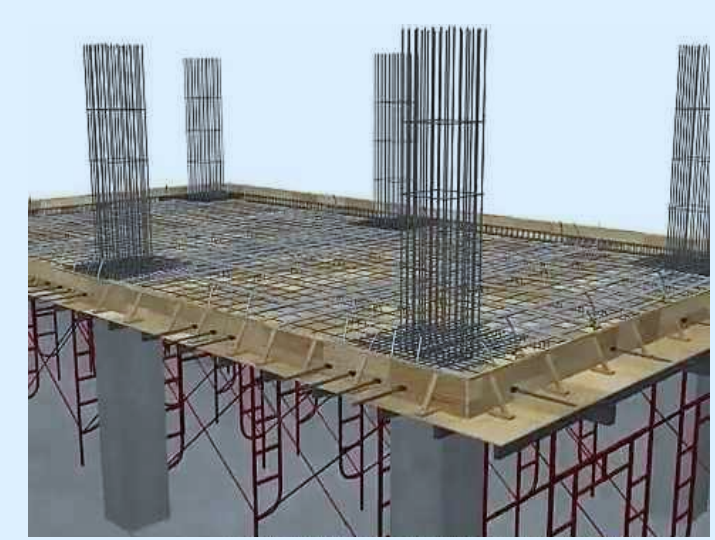
NOTE:
 FOR BEAMS SCHEDULE, SEE DRAWING NO. 47
 FOR SECTIONS A-A, B-B & C-C SEE NEXT DRAWING SHEET.

FIRST SLAB LAY OUT
 SCALE 1:100 M



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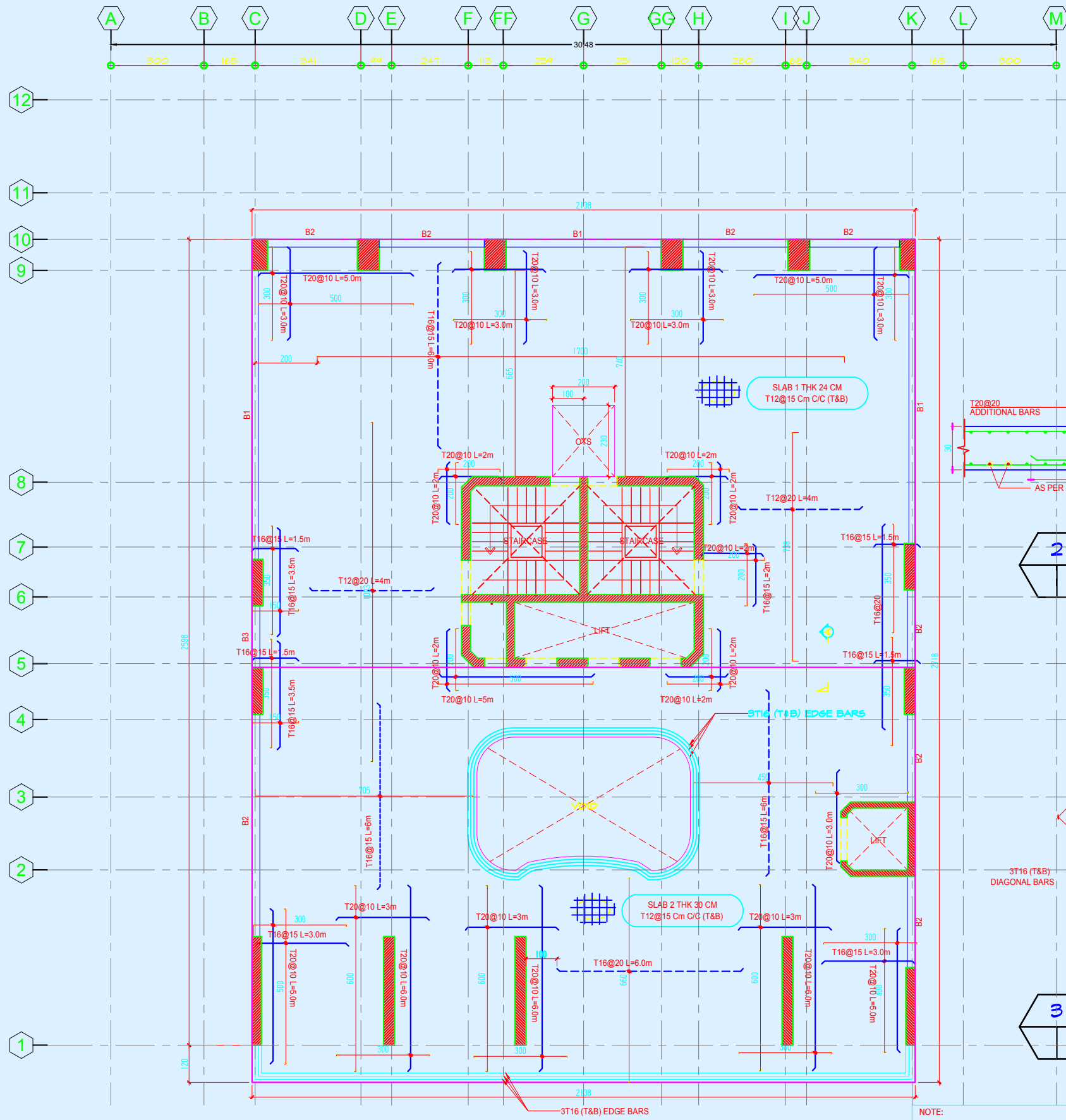


no.	date	initials	revision
job title			
(A)			
drawing title			
FIRST SLAB LAY OUT			
designed	ENG : DR-Majid Albana		project manager
checked	scale	1-100	date
drawn	job no.	9	sheet no.
approved	6 / 2023		

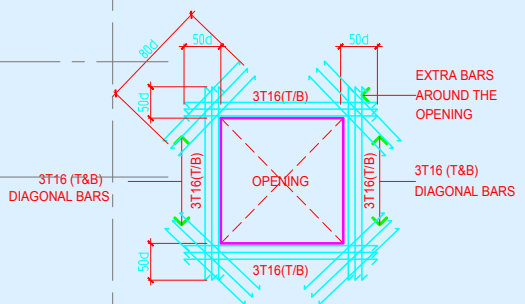



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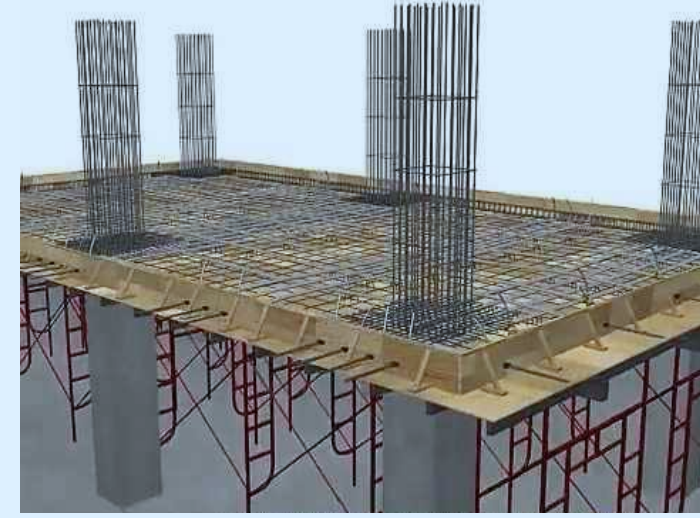
2 SECTION A
SCALE 1:25 M



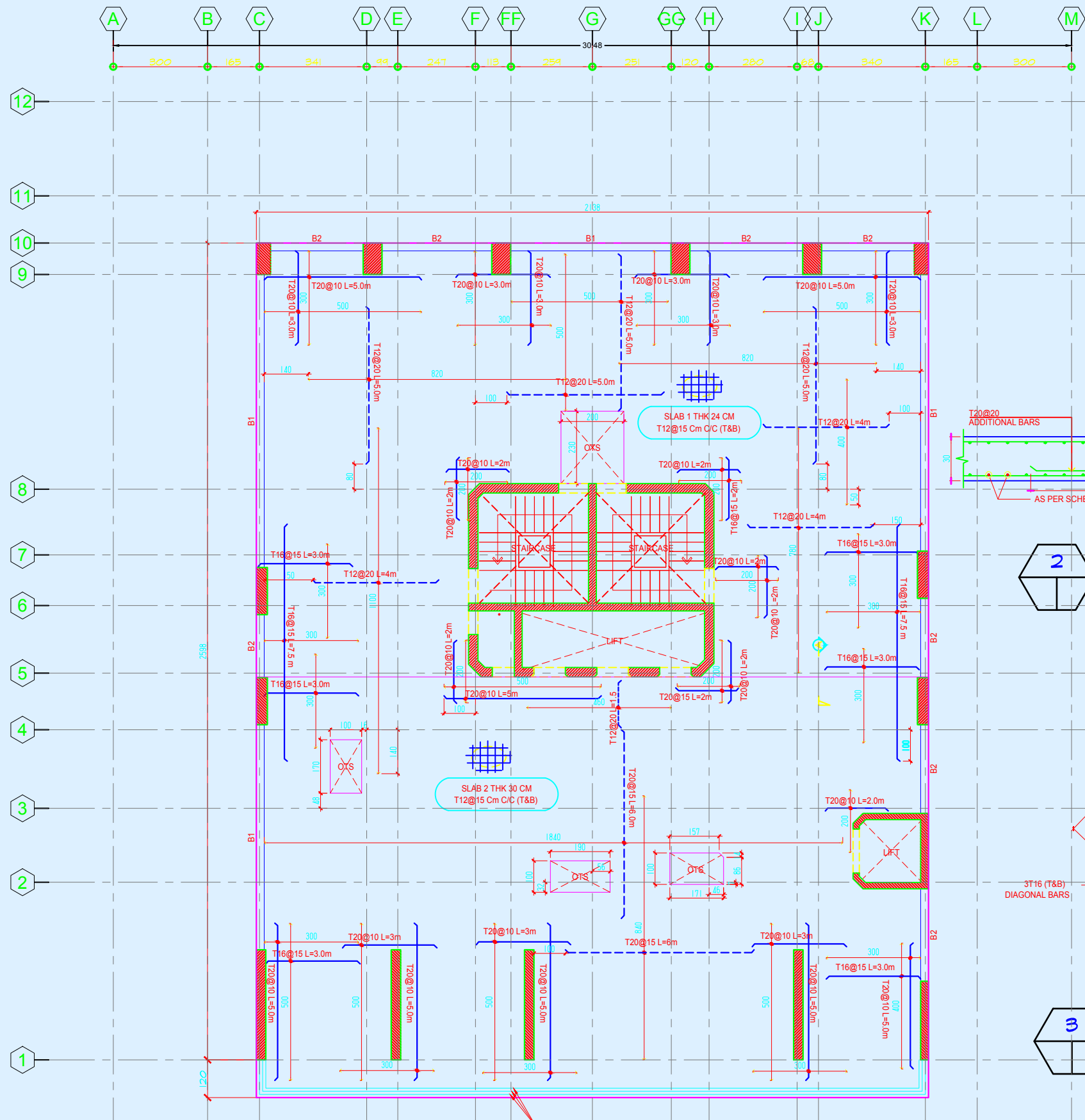
3 TYPICAL O.T.S
OPENING DETAILS
SCALE NTS

1 2nd SLAB LAY OUT (LEVEL + 8.6 m)
SCALE 1:100 M

NOTE:
BEAMS SCHEDULE SEE DRAWING NO. 47



no.	date	initials	revision
job title			
(A)			
drawing title			
2nd SLAB LAY OUT (LEVEL + 8.6 m)			
designed ENG - DR. Majid Albana		project manager	
checked	scale 1-100	date 6 / 2023	
drawn	job no. 9	sheet no.	
approved			





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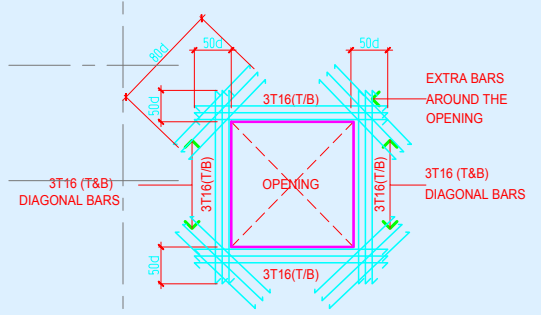
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2 SECTION A

 SCALE 1:25 M



3 TYPICAL O.T.S OPENING DETAILS

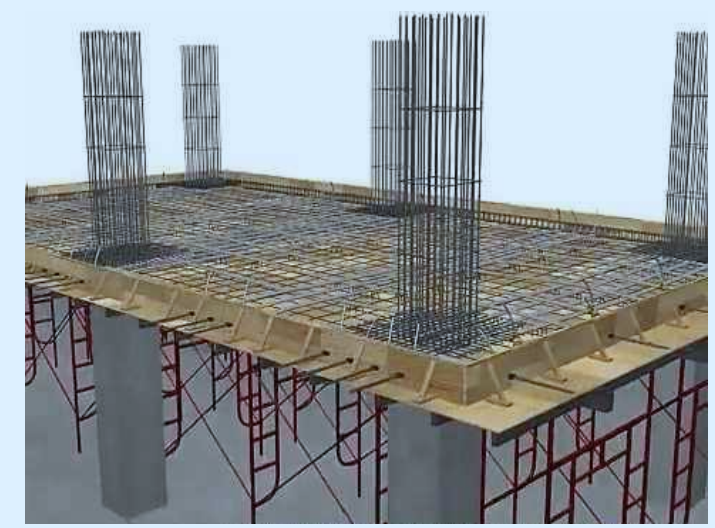
 SCALE NTS

NOTE:

 BEAMS SCHEDULE SEE DRAWING NO. 47

5th TO 12th SLAB LAY OUT (TYPICAL)

 SCALE 1:100 M

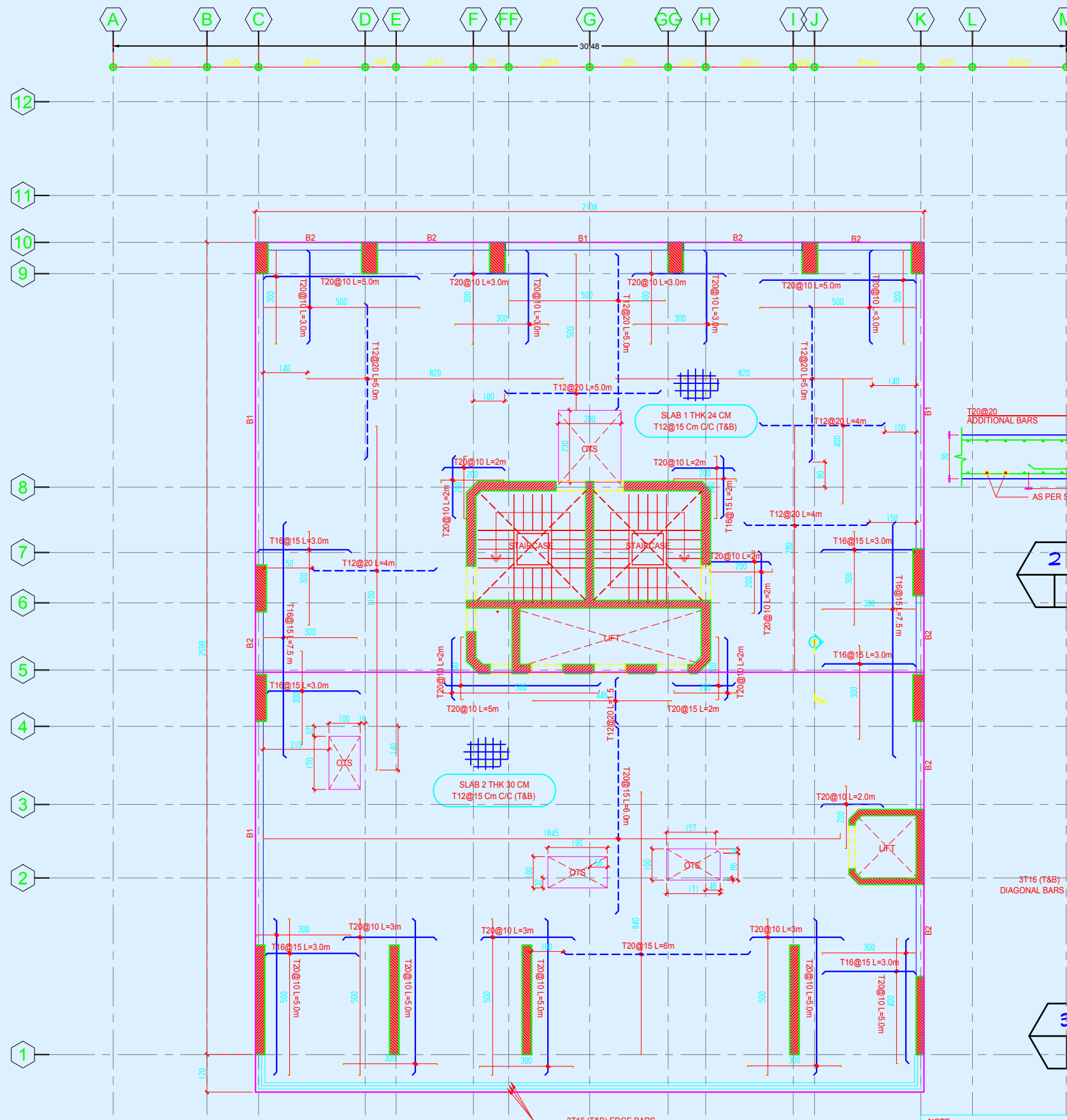


no.	date	initials	revision
job title			
(A)			
drawing title			
5th TO 12th SLAB LAY OUT (TYPICAL)			
designed	ENG : DR-Majid Albana	project manager	
checked		scale	1-100
drawn		date	6/2023
approved		job no.	9
		sheet no.	



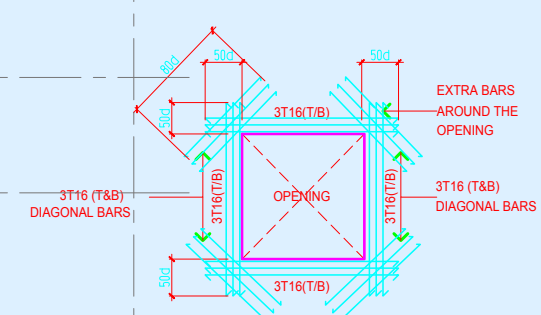
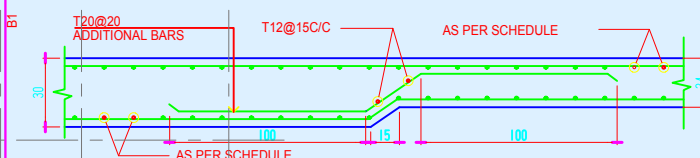
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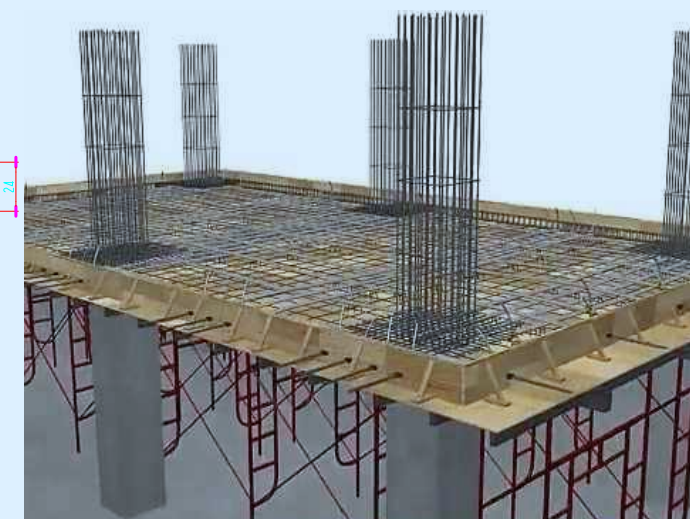
13th TO 18th SLAB LAYOUT (TYPICAL)
SCALE 1:100 M

SECTION A
SCALE 1:25 M



**TYPICAL O.T.S
OPENING DETAILS**
SCALE NTS

NOTE:
BEAMS SCHEDULE SEE DRAWING NO. 47

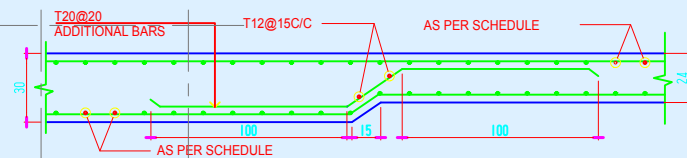
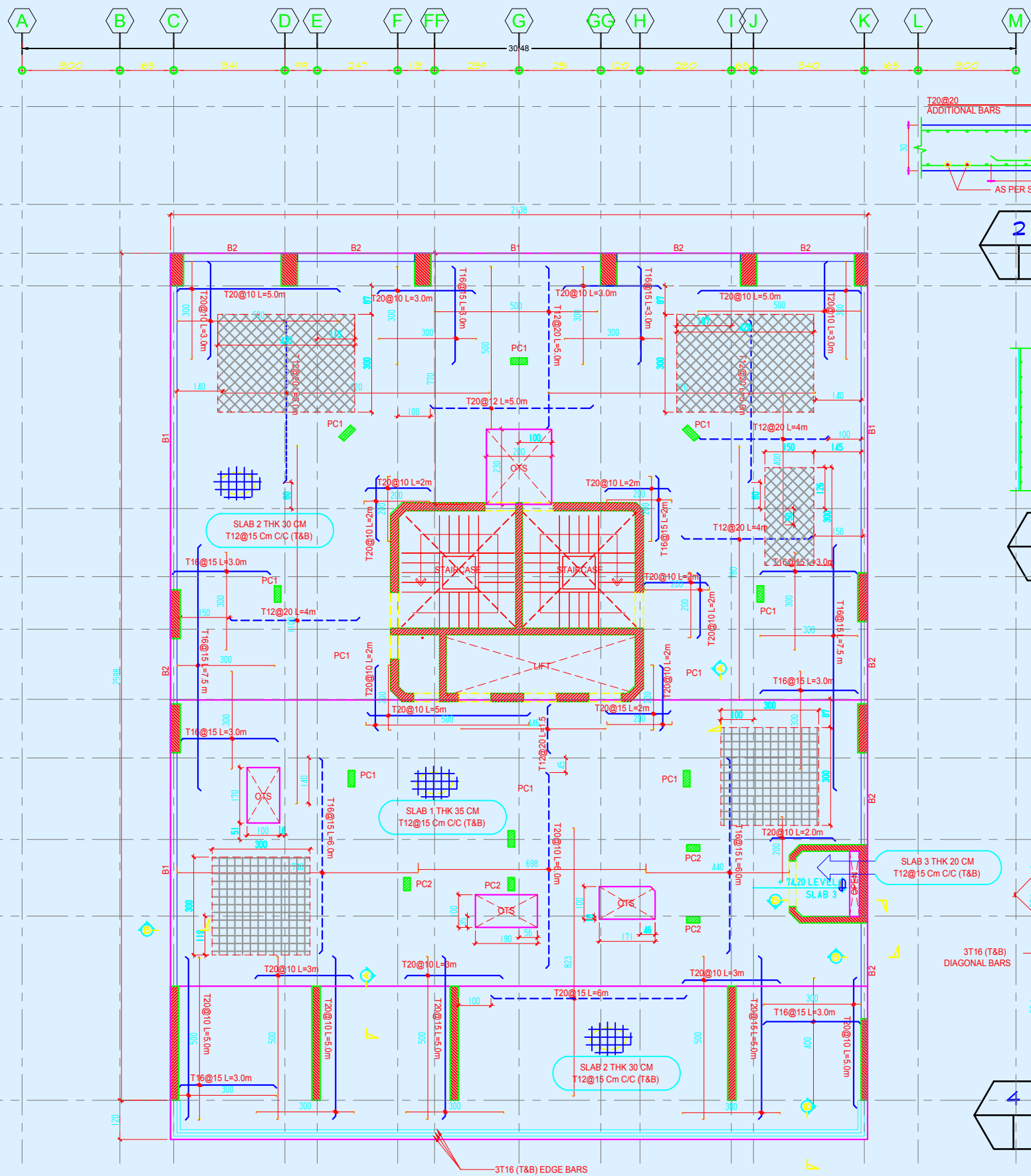
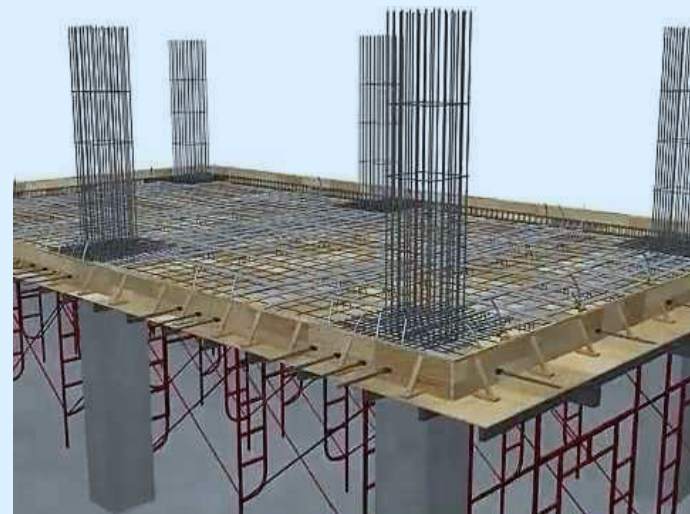


no.	date	initials	revision
job title			
(A)			
drawing title			
13th TO 18th SLAB LAYOUT (TYPICAL)			
designed	ENG : DR-Majid Albana	project manager	
checked	1-100	scale	date 6 /2023
drawn	9	job no.	sheet no.
approved			

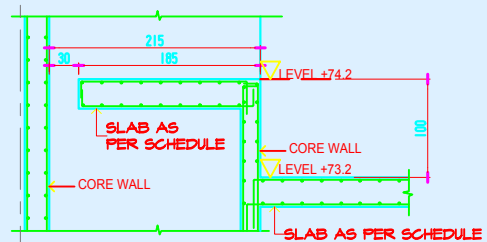


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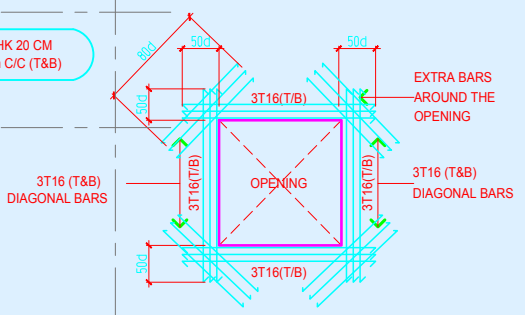


2 SECTION A
SCALE 1:25 M



3 SECTION B
SCALE 1:50 M

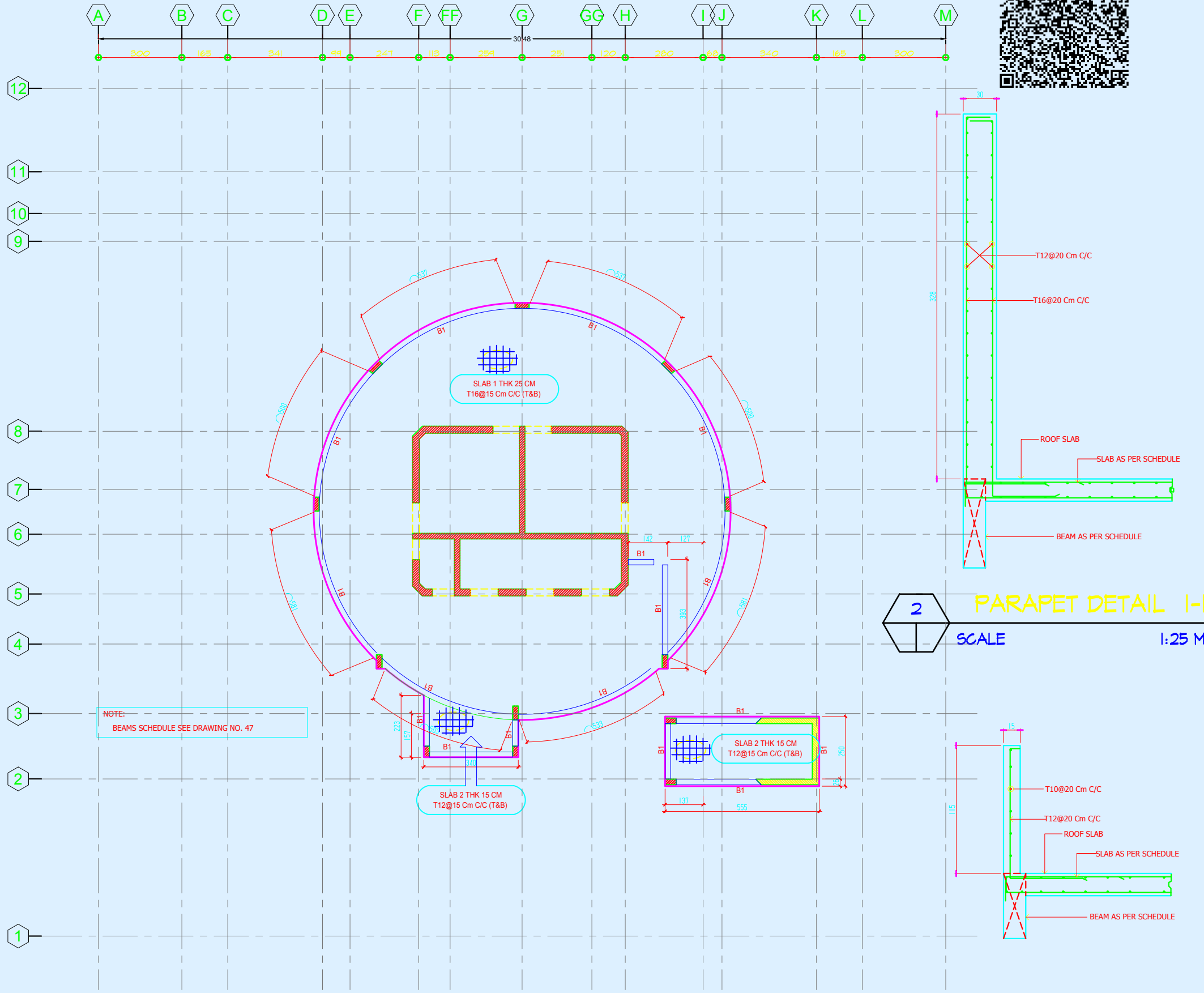
- NOTES/LEGEND:
1. PC1 & PC2 PLANTED COLUMN START FROM ROOF SLAB TO HELIPAD. SEE SCHEDULE IN DRAWING NO. 20.
 2. BEAMS SCHEDULE SEE DRAWING NO. 47.
 3. PARAPET SECTION DETAILS SEE DRAWING NO. 42.
- [Cross-hatch pattern] WATER TANK LOCATION
 - [Grid pattern] CHILLED WATER MACHINE LOCATION



4 TYPICAL O.T.S
OPENING DETAILS
SCALE NTS

1 ROOF FLOOR SLAB
SCALE 1:100 M

no.	date	initials	revision
job title			
(A)			
drawing title ROOF FLOOR SLAB			
designed	ENG : DR-Majid Albana	project manager	
checked		scale	1-100
drawn		date	6 / 2023
approved		job no.	9
		sheet no.	



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1 HELIPAD & UPPER ROOF SLAB
SCALE 1:100 M

3 PARAPET DETAIL 2-2
SCALE 1:25 M

no.	date	initials	revision
job title			
(A)			
drawing title			
HELIPAD & UPPER ROOF SLAB			
designed ENG : DR-Majid Albana		project manager	
checked	scale 1-100	date 6 /2023	
drawn	job no. 9	sheet no.	
approved			




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SCHEDULE OF BEAMS RAFT SLAB								
TYPE	SIZE	REINFORCEMENTS				STIRRUPS	FACE BAR EACH FACE	REMARKS
		BOTTOM BARS		TOP BARS				
		CONTINUOUS	EXTRA AT MIDSPAN	CONTINUOUS	EXTRA AT CONT. SUPPORT			
DB1	30X80	4T25	-	4T20	3T16	4LT10@15C/C	T12@20	
DB2	40X60	5T25	5T25	3T16	-	4LT10@15C/C	T12@15	

SCHEDULE OF BEAMS RAMP								
TYPE	SIZE	REINFORCEMENTS				STIRRUPS	FACE BAR EACH FACE	REMARKS
		BOTTOM BARS		TOP BARS				
		CONTINUOUS	EXTRA AT MIDSPAN	CONTINUOUS	EXTRA AT CONT. SUPPORT			
B1	30X100	3T20	3T20	3T20	-	4LT10@15C/C	T12@20	
B2	30X100	3T16	2T16	3T16	2T16	4LT10@15C/C	T12@20	

SCHEDULE OF BEAMS GROUND FLOOR SLAB								
TYPE	SIZE	REINFORCEMENTS				STIRRUPS	FACE BAR EACH FACE	REMARKS
		BOTTOM BARS		TOP BARS				
		CONTINUOUS	EXTRA AT MIDSPAN	CONTINUOUS	EXTRA AT CONT. SUPPORT			
B1	30X100	3T20	3T20	3T20	-	4LT10@15C/C	T12@20	
B2	30X100	2T20	2T20	2T16	2T16	4LT8@15C/C	T12@20	
B3	30X80	3T16	-	2T16	2T16	2LT8@12C/C	T12@20	-
B4	30X100	2T20	2T20	3T20	-	4LT10@15C/C	T12@20	INVERTED
CBI	30X100	3T16	-	3T20	3T20	4LT10@10C/C	T12@20	INVERTED

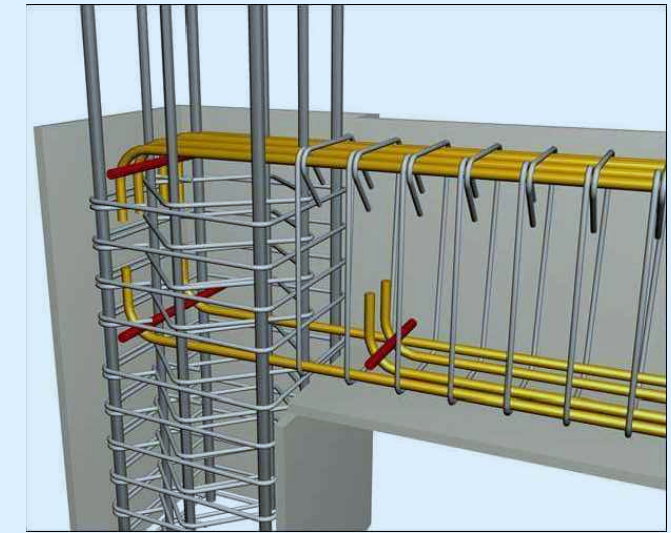
SCHEDULE OF BEAMS HEALTH FLOOR SLAB								
TYPE	SIZE	REINFORCEMENTS				STIRRUPS	FACE BAR EACH FACE	REMARKS
		BOTTOM BARS		TOP BARS				
		CONTINUOUS	EXTRA AT MIDSPAN	CONTINUOUS	EXTRA AT CONT. SUPPORT			
B1	25X205	4T25	4T25	4T25	4T25	4LT10@20C/C	T16@20	
B2	30X100	4T20	2T20	3T20	-	4LT15@15C/C	T12@15	
B3	20X100	3T16	-	2T16	2T16	4LT8@12C/C	T12@15	
B4	40X127	4T25	4T25	4T20	-	4LT10@15C/C	T12@15	
B5	30X108	3T25	3T25	3T20	3T16	4LT10@15C/C	T12@15	
B6	30X80	3T20	-	3T16	2T16	4LT8@15C/C	T12@15	
CBI	30X120	3T16	-	3T20	3T16	4LT10@15C/C	T12@15	

SCHEDULE OF BEAMS REST FLOOR TO 12th FLOOR								
TYPE	SIZE	REINFORCEMENTS				STIRRUPS	FACE BAR EACH FACE	REMARKS
		BOTTOM BARS		TOP BARS				
		CONTINUOUS	EXTRA AT MIDSPAN	CONTINUOUS	EXTRA AT CONT. SUPPORT			
B1	30X120	(4+4)T20	-	4T20	3T16	4LT8@15C/C	T16@20	
B2	30X120	4T20	2T20	3T16	-	4LT8@15C/C	T12@15	

SCHEDULE OF BEAMS 13th TO 16th SLAB								
TYPE	SIZE	REINFORCEMENTS				STIRRUPS	FACE BAR EACH FACE	REMARKS
		BOTTOM BARS		TOP BARS				
		CONTINUOUS	EXTRA AT MIDSPAN	CONTINUOUS	EXTRA AT CONT. SUPPORT			
B1	25X120	4T20	2T20	3T16	2T20	4LT8@15C/C	T12@20	
B2	25X120	3T16	-	3T16	2T16	4LT8@15C/C	T12@20	

SCHEDULE OF BEAMS 17th TO ROOF SLAB								
TYPE	SIZE	REINFORCEMENTS				STIRRUPS	FACE BAR EACH FACE	REMARKS
		BOTTOM BARS		TOP BARS				
		CONTINUOUS	EXTRA AT MIDSPAN	CONTINUOUS	EXTRA AT CONT. SUPPORT			
B1	20X125	3T20	3T20	3T16	3T25	4LT10@15C/C	T12@20	
B2	20X120	3T16	-	3T16	3T25	4LT10@15C/C	T12@20	

SCHEDULE OF BEAMS HELIPAD								
TYPE	SIZE	REINFORCEMENTS				STIRRUPS	FACE BAR EACH FACE	REMARKS
		BOTTOM BARS		TOP BARS				
		CONTINUOUS	EXTRA AT MIDSPAN	CONTINUOUS	EXTRA AT CONT. SUPPORT			
B1	20X60	3T20	-	3T16	-	4LT8@15C/C	T12@20	
B2	20X50	3T16	3T20	2T16	4T16	4LT8@15C/C	T12@20	
B3	20X40	3T16	2T16	2T16	-	4LT8@12C/C	T12@20	



no.	date	initials	revision
job title			
(A)			
drawing title			
SCHEDULE OF BEAM			
designed	ENG : DR-Majid Albana	project manager	
checked		scale	1-100
drawn		date	6/2023
approved		job no.	9
		sheet no.	